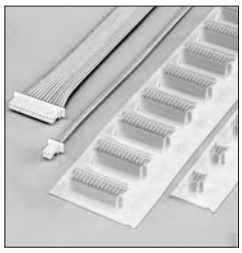
ADVANCED CONNECTION SYSTEMS

JST CATALOG VOL.120e

<URL> http://www.jst-mfg.com

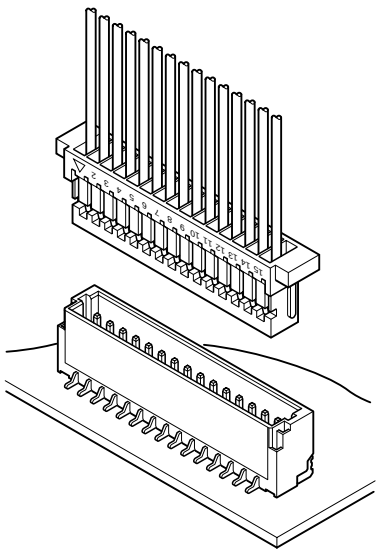
JST
The Quality Connection



SH CONNECTOR

Emboss Tape

1.0mm pitch/Disconnectable Crimp style connectors



The world's first 1.0mm pitch crimp style connector.

- ***Compact, low profile design***
- ***Compatible with the SR insulation displacement connectors***
- ***Housing lances***

Specifications

- Current rating: 1.0A AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
  After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #32 to #28
  Insulation O.D./0.4 to 0.8mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

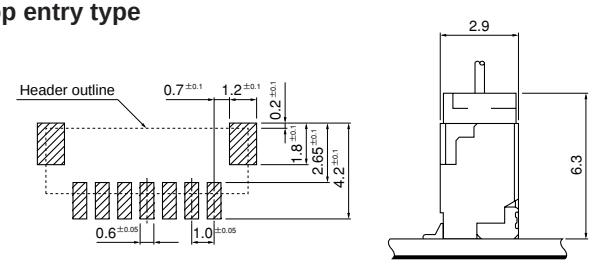
Standards

Recognized E60389

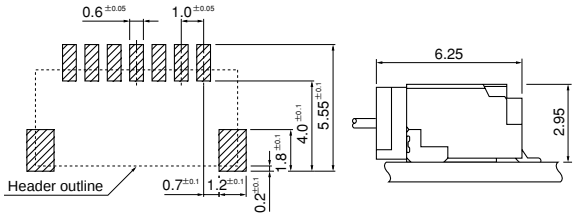
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Top entry type

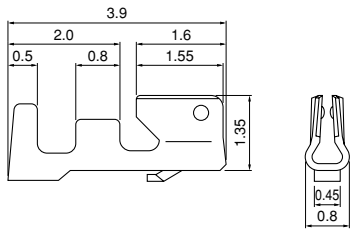


Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm²	AWG#	Insulation O.D. (mm)	
SSH-003T-P0.2-H	0.032 ~ 0.08	32~28	0.4~0.8	23,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

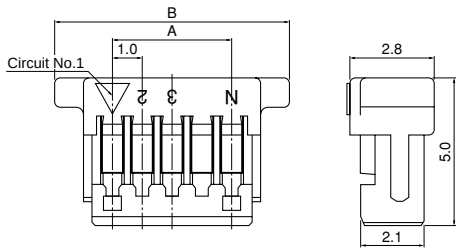
RoHS compliance
Note: Contact JST for gold-plated products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSH-003T-P0.2-H	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

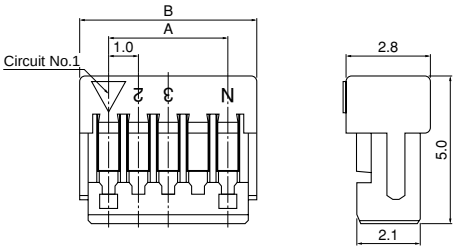
*Note: *Strip-crimp applicator*
Contact JST for applicable wires in case that it is not usable due to wire size.

Housing

With protrusions



Without protrusions



Circuits	Model No.		Dimensions (mm)			Q'ty / box
			A	B		
	With protrusions	Without protrusions		With protrusions	Without protrusions	
2	**SHR-02V-S-B**	**SHR-02V-S**	1.0	5.0	3.0	2,000
3	**SHR-03V-S-B**	**SHR-03V-S**	2.0	6.0	4.0	2,000
4	**SHR-04V-S-B**	**SHR-04V-S**	3.0	7.0	5.0	2,000
5	**SHR-05V-S-B**	**SHR-05V-S**	4.0	8.0	6.0	2,000
6	**SHR-06V-S-B**	**SHR-06V-S**	5.0	9.0	7.0	2,000
7	**SHR-07V-S-B**	**SHR-07V-S**	6.0	10.0	8.0	2,000
8	**SHR-08V-S-B**	**SHR-08V-S**	7.0	11.0	9.0	2,000
9	**SHR-09V-S-B**	**SHR-09V-S**	8.0	12.0	10.0	2,000
10	**SHR-10V-S-B**	**SHR-10V-S**	9.0	13.0	11.0	2,000
11	**SHR-11V-S-B**	**SHR-11V-S**	10.0	14.0	12.0	2,000
12	**SHR-12V-S-B**	**SHR-12V-S**	11.0	15.0	13.0	2,000
13	**SHR-13V-S-B**	**SHR-13V-S**	12.0	16.0	14.0	2,000
14	**SHR-14V-S-B**	**SHR-14V-S**	13.0	17.0	15.0	2,000
15	**SHR-15V-S-B**	**SHR-15V-S**	14.0	18.0	16.0	2,000
20	**SHR-20V-S-B**	—	19.0	23.0	21.0	1,000

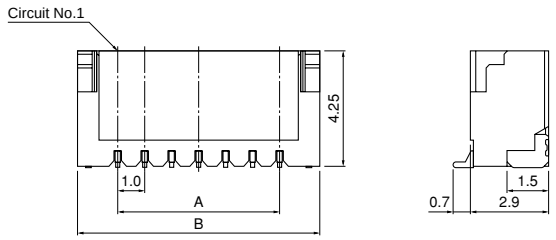
Material
PBT, UL94V-0, natural (white)

RoHS compliance

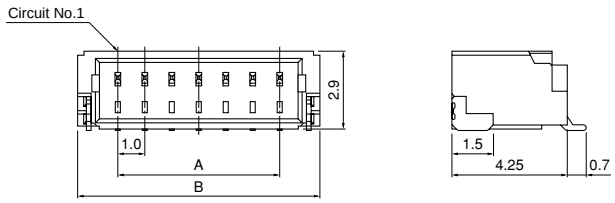
Shrouded header

The shrouded headers are interchangeable with those of the SR insulation displacement connectors.

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	**BM02B-SRSS-TB**	**SM02B-SRSS-TB**	1.0	4.0	1,500	3,000
3	**BM03B-SRSS-TB**	**SM03B-SRSS-TB**	2.0	5.0	1,500	3,000
4	**BM04B-SRSS-TB**	**SM04B-SRSS-TB**	3.0	6.0	1,500	3,000
5	**BM05B-SRSS-TB**	**SM05B-SRSS-TB**	4.0	7.0	1,500	3,000
6	**BM06B-SRSS-TB**	**SM06B-SRSS-TB**	5.0	8.0	1,500	3,000
7	**BM07B-SRSS-TB**	**SM07B-SRSS-TB**	6.0	9.0	1,500	3,000
8	**BM08B-SRSS-TB**	**SM08B-SRSS-TB**	7.0	10.0	1,500	3,000
9	**BM09B-SRSS-TB**	**SM09B-SRSS-TB**	8.0	11.0	1,500	3,000
10	**BM10B-SRSS-TB**	**SM10B-SRSS-TB**	9.0	12.0	1,500	3,000
11	**BM11B-SRSS-TB**	**SM11B-SRSS-TB**	10.0	13.0	1,500	3,000
12	**BM12B-SRSS-TB**	**SM12B-SRSS-TB**	11.0	14.0	1,500	3,000
13	**BM13B-SRSS-TB**	**SM13B-SRSS-TB**	12.0	15.0	1,500	3,000
14	**BM14B-SRSS-TB**	**SM14B-SRSS-TB**	13.0	16.0	1,500	3,000
15	**BM15B-SRSS-TB**	**SM15B-SRSS-TB**	14.0	17.0	1,500	3,000
20	—	**SM20B-SRSS-TB**	19.0	22.0	—	3,000

Material and Finish
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Housing: PA, UL94V-0, natural (ivory) Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

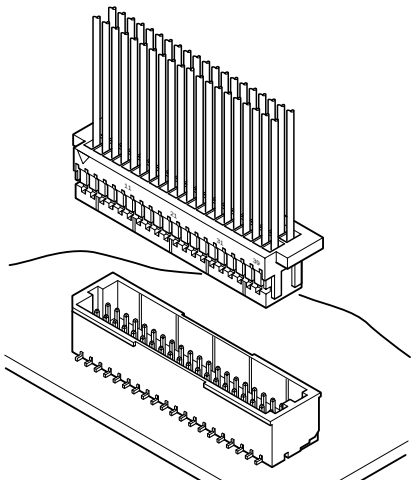
RoHS compliance *This product displays (LF)(SN) on a label.*

Note: 1. The products listed above are supplied on embossed-tape.
2. Contact JST for the headers with gold-plated pins.
3. Contact JST for the top entry type headers with suction cap.

SHD CONNECTOR

Emboss Tape

1.0mm pitch/Disconnectable Crimp style connectors



The SHD connector is compact with a mounting height of 6.3mm for top entry type and 5.5mm for side entry type, and a width of 5.0mm for top entry type and 5.1mm for side entry type.

- ***Compact, low profile design***
- ***Anti-misinsertion feature***
- ***Receptacles with protrusions***
- ***Header designed for vacuum pick and place robotics***

Specifications

- Current rating: 1.0A AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max. After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #32 to #28 Insulation O.D./0.4 to 0.8mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

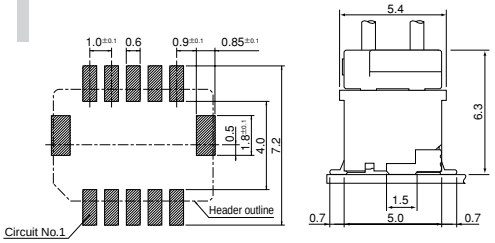
Standards

Recognized E60389

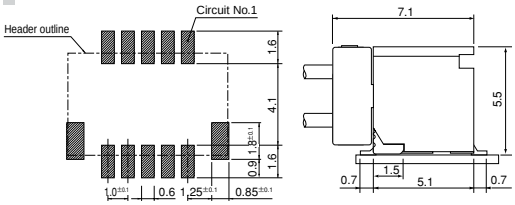
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

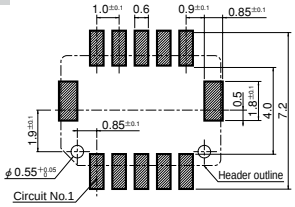
Top entry type



Side entry type

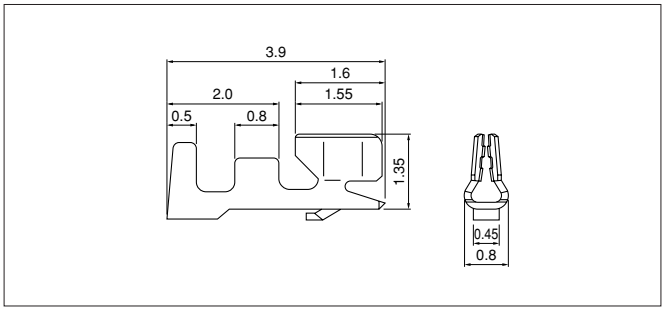


Top entry type with a boss



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm²	AWG#	Insulation O.D. (mm)	
SSH-003GA-P0.2	0.032 ~ 0.08	32~28	0.4~0.8	23,000

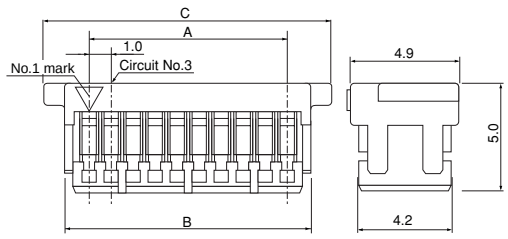
Material and Finish
Phosphor bronze, nickel-undercoated, Mating part; gold-plated

RoHS compliance
Note: Contact JST for tin-plated products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSH-003GA-P0.2	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

*Note: *Strip-crimp applicator*
Contact JST for applicable wires in case that it is not usable due to wire size.

Housing



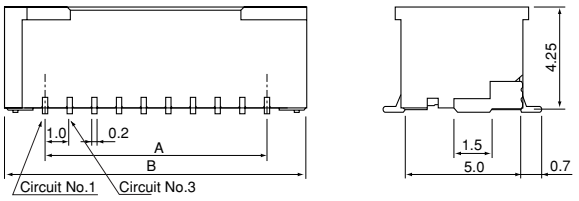
Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
20	**SHDR-20V-S-B**	9.0	11.2	13.0	4,000
30	**SHDR-30V-S-B**	14.0	16.2	18.0	4,000
40	**SHDR-40V-S-B**	19.0	21.2	23.0	2,000
50	**SHDR-50V-S-B**	24.0	26.2	28.0	2,000

Material
PBT, UL94V-0, natural (white)

RoHS compliance

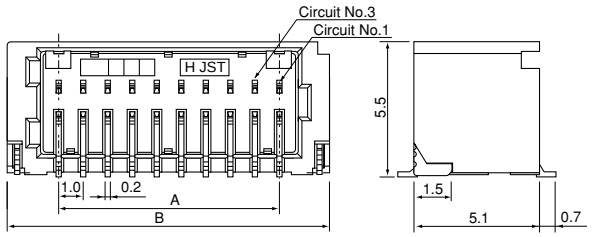
Shrouded header

Top entry type



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
	Top entry type	A	B	
20	**BM20B-SRDS-G-TF**	9.0	12.3	1,500
30	**BM30B-SRDS-G-TF**	14.0	17.3	1,500
40	**BM40B-SRDS-G-TF**	19.0	22.3	1,500
50	**BM50B-SRDS-G-TF**	24.0	27.3	1,500

Side entry type



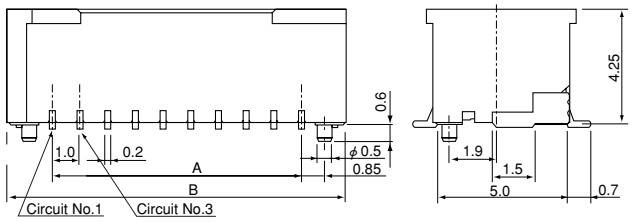
Circuits	Model No.	Dimensions (mm)		Q'ty / reel
	Side entry type	A	B	
20	**SM20B-SRDS-G-TF**	9.0	13.1	1,250
30	**SM30B-SRDS-G-TF**	14.0	18.1	1,250
40	**SM40B-SRDS-G-TF**	19.0	23.1	1,250
50	**SM50B-SRDS-G-TF**	24.0	28.1	1,250

Material and Finish
Header contact: Phosphor bronze, nickel-undercoated, gold-plated Wafer: PA, UL94V-0, natural (ivory) Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Note: 1. The products listed above are supplied on embossed-tape.
2. Contact JST for the headers with tin-plated pins.
3. Contact JST for the top entry type headers with suction cap.

Top entry type with a boss



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
20	**BM20B-SRDS-A-G-TF**	9.0	12.3	1,250
30	**BM30B-SRDS-A-G-TF**	14.0	17.3	1,250
40	**BM40B-SRDS-A-G-TF**	19.0	22.3	1,250
50	**BM50B-SRDS-A-G-TF**	24.0	27.3	1,250

Material and Finish
Header contact: Phosphor bronze, nickel-undercoated, gold-plated Wafer: PA, UL94V-0, natural (ivory) Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

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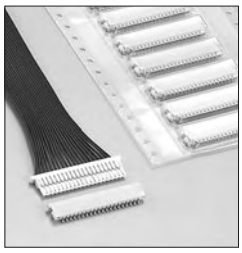
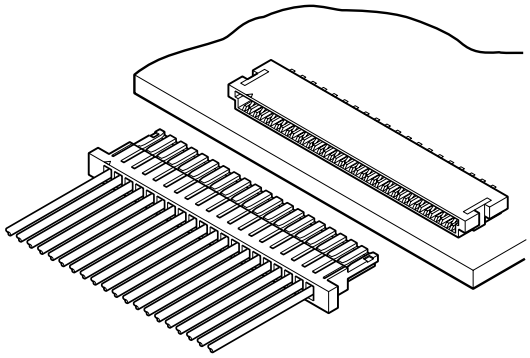


SHL CONNECTOR

Emboss Tape

1.0mm pitch/Disconnectable Crimp style connectors



- ***Thin design***
- ***Low insertion force***
- ***Deformation preventive design***

Specifications

- Current rating: 1.0A AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
  After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: AWG #32 to #28

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

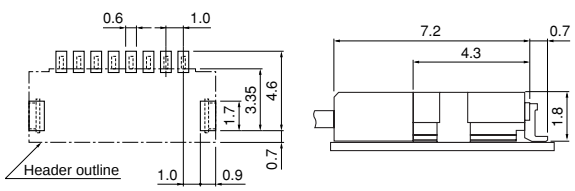
Standards

Recognized E60389

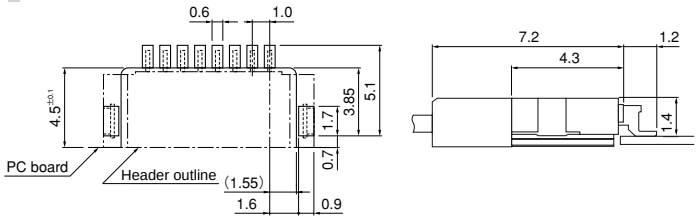
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Normal type

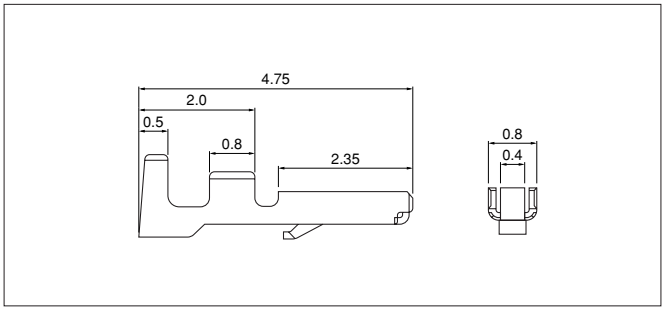


Offset type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm²	AWG#	Insulation O.D. (mm)	
SSHL-003T-P0.2	0.032 ~ 0.08	32~28	0.4~0.8	30,000

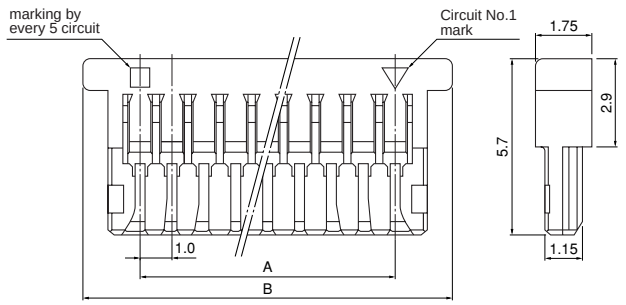
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: Contact JST for gold-plated products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSHL-003T-P0.2	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

*Note: *Strip-crimp applicator*
Contact JST for applicable wires in case that it is not usable due to wire size.

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / box
	With protrusions	A	B	
2	**SHLP-02V-S-B**	1.0	4.6	6,000
6	**SHLP-06V-S-B**	5.0	8.6	3,000
7	**SHLP-07V-S-B**	6.0	9.6	3,000
14	**SHLP-14V-S-B**	13.0	16.6	2,000
16	**SHLP-16V-S-B**	15.0	18.6	1,000
20	**SHLP-20V-S-B**	19.0	22.6	1,000
22	**SHLP-22V-S-B**	21.0	24.6	1,000
26	**SHLP-26V-S-B**	25.0	28.6	1,000
30	**SHLP-30V-S-B**	29.0	32.6	1,000

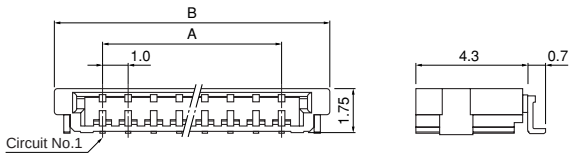
Material

PBT, UL94V-0, natural (white)

RoHS compliance

Shrouded header

Normal type



Normal type

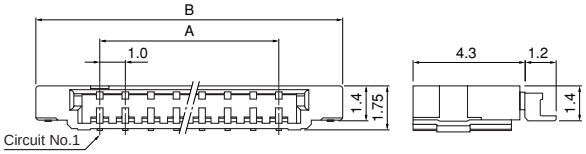
Circuits	Model No.	Insulation O.D. (mm)		Q'ty / reel
		A	B	
2	**SM02B-SHLS-TF**	1.0	4.8	4,500
6	**SM06B-SHLS-TF**	5.0	8.8	4,500
7	**SM07B-SHLS-TF**	6.0	9.8	4,500
16	**SM16B-SHLS-TF**	15.0	18.8	4,500
20	**SM20B-SHLS-TF**	19.0	22.8	4,500
22	**SM22B-SHLS-TF**	21.0	24.8	4,500
26	**SM26B-SHLS-TF**	25.0	28.8	4,500
30	**SM30B-SHLS-TF**	29.0	32.8	4,500

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Contact JST for the headers with gold-plated pins.

Offset type



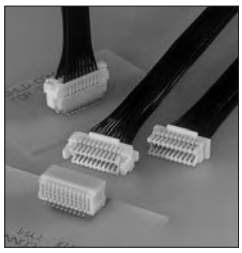
Offset type

Circuits	Model No.	Insulation O.D. (mm)		Q'ty / reel
		A	B	
14	**SM14B-SHLS-1-TF**	13.0	18.0	4,500
20	**SM20B-SHLS-1-TF**	19.0	24.0	4,500

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

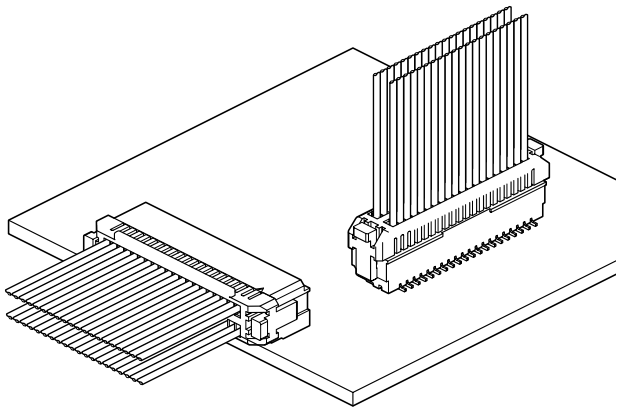
RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Contact JST for the headers with gold-plated pins.



SHLD CONNECTOR

Emboss Tape

1.0mm pitch/Disconnectable Crimp style connectors



Developed for PDP, LCD or small electronics equipment.
This is a dual-row small crimp type connector with a secure locking system or without-designed for different applications. The PC board layout is compatible with that of existing SHD connector, which allows for replacement of the above existing connector.

- ***Secure housing lock structure (for locking type)***
- ***Prevent deformation of contacts***
- ***A contact lock structure***
- ***Strong structure against external force***

Specifications

- Current rating: 1.0A AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
  After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute

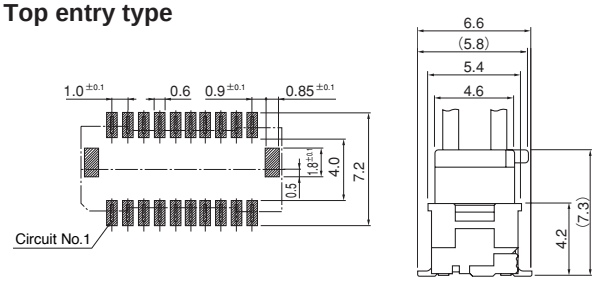
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

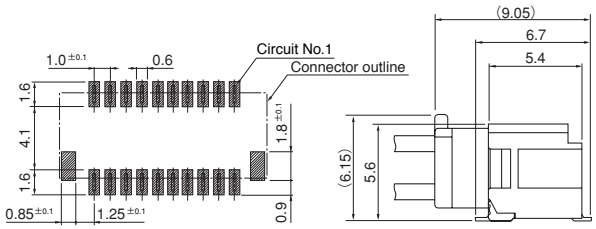
Recognized E60389

PC board layout (viewed from component side) and Assembly layout

Top entry type

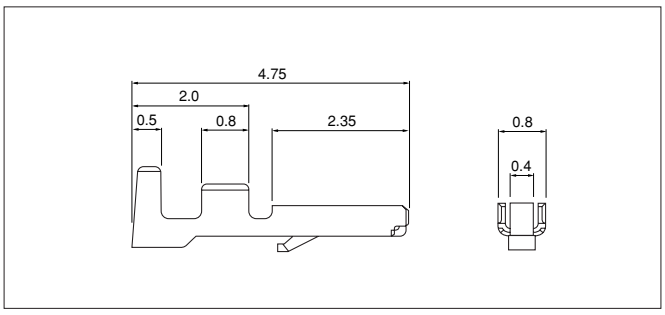


Side entry type



Note: 1. Tolerances are non-cumulative: ±0.1mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SSHL-003GA1-P0.2	0.032～0.08	32～28	0.4～0.8	30,000

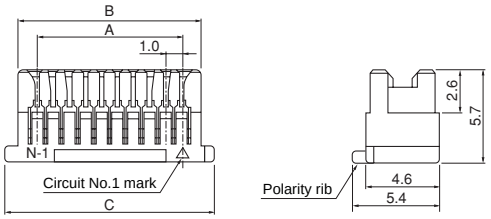
Material and Finish
Phosphor bronze, nickel-undercoated, Mating part; gold-plated, Crimping part; gold-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSHL-003GA1-P0.2	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

*Note: *Strip-crimp applicator*
Contact JST for applicable wires in case that it is not usable due to wire size.

Housing



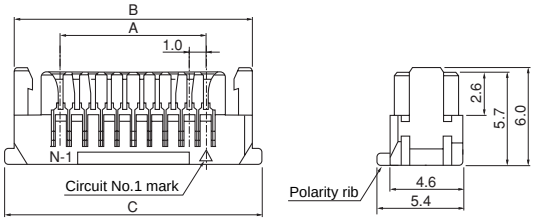
Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
20	**SHLDP-20V-S(B)**	9.0	11.4	13.0	3,500
30	**SHLDP-30V-S(B)**	14.0	16.4	18.0	2,500
40	**SHLDP-40V-S(B)**	19.0	21.4	23.0	2,000
50	**SHLDP-50V-S(B)**	24.0	26.4	28.0	1,500

Material

PBT, UL94V-0, natural (white)

RoHS compliance

With secure lock type



With secure lock type

Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
20	**SHLDP-20V-S-1(B)**	9.0	14.7	15.7	3,000
30	**SHLDP-30V-S-1(B)**	14.0	19.7	20.7	2,000
40	**SHLDP-40V-S-1(B)**	19.0	24.7	25.7	1,500
50	**SHLDP-50V-S-1(B)**	24.0	29.7	30.7	1,200

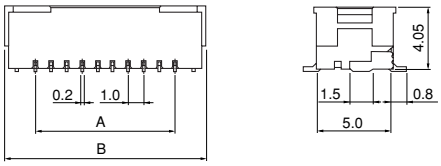
Material

PBT, UL94V-0, natural (white)

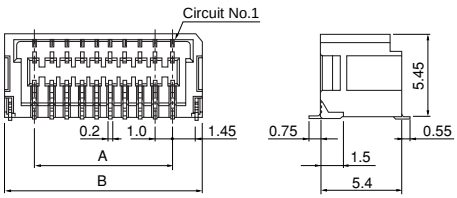
RoHS compliance

Shrouded header

Top entry type



Side entry type

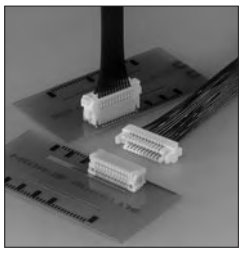


Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Top entry type	Side entry type	A	B	
20	**BM20B-SHLDS-G-TFT**	**SM20B-SHLDS-G-TF**	9.0	13.0	1,000
30	**BM30B-SHLDS-G-TFT**	**SM30B-SHLDS-G-TF**	14.0	18.0	1,000
40	**BM40B-SHLDS-G-TFT**	**SM40B-SHLDS-G-TF**	19.0	23.0	1,000
50	**BM50B-SHLDS-G-TFT**	**SM50B-SHLDS-G-TF**	24.0	28.0	1,000

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated
Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

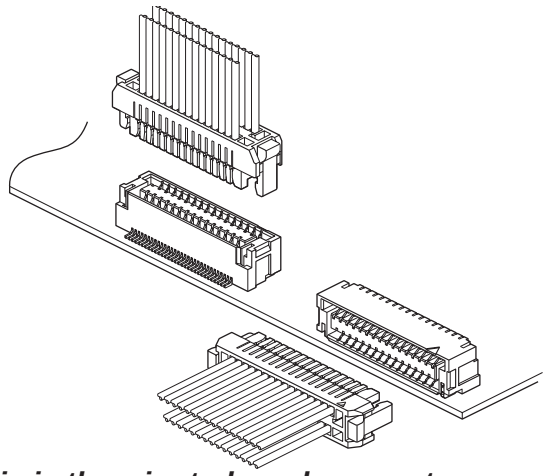
RoHS compliance *This product displays (LF)(SN) on a label.*



SHLV CONNECTOR

Emboss Tape

1.0mm pitch/Disconnectable Crimp style connectors



This is the wire to board connector corresponding to the high frequency transmission (LVDS:Low Voltage Differential Signaling) with a lot of adoption for PDP, LCD - TV and so on. This connector was developed to have excellent workability, strength and cost performance. This connector is used not only for LVDS, but also for multi - circuits connector (small and space saving type) in normal circuit.

- ***Corresponding to LVDS (Low Voltage Differential Signaling)***
- ***Secure lock***
- ***Connector strength***
- ***Contact lock structure***

Specifications

- Current rating: 1.0A AC, DC (AWG #28)
- Voltage rating: 30V AC, DC
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max. After environmental testing/50m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #32 to #28 Insulation O.D./0.4 to 0.8mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

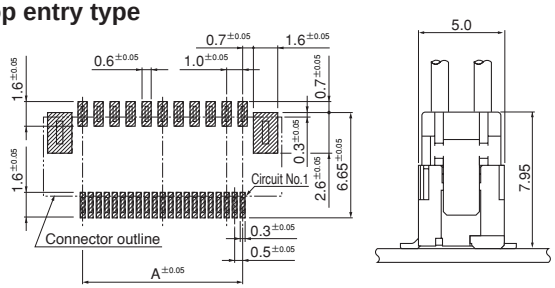
Standards

Recognized E60389

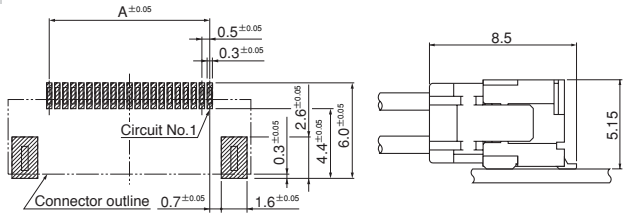
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Top entry type

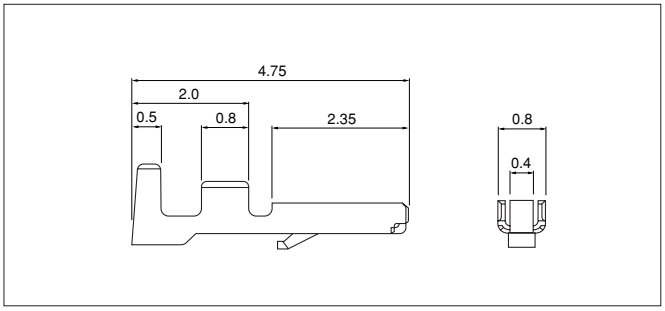


Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SSHL-003GA1-P0.2	0.032～0.08	32～28	0.4～0.8	30,000

Material and Finish
Phosphor bronze, nickel-undercoated, Mating part; gold-plated, Crimping part; gold-plated

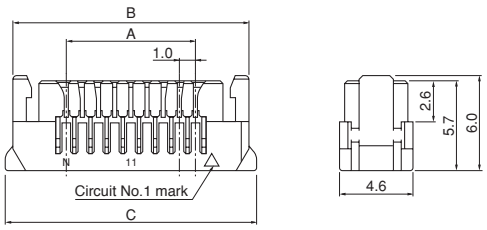
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSHL-003GA1-P0.2	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

*Note: *Strip-crimp applicator*
Contact JST for applicable wires in case that it is not usable due to wire size.

Housing

With secure lock



Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
21	**SHLVP-21V-S-1**	10.0	16.7	17.7	3,000
31	**SHLVP-31V-S-1**	15.0	21.7	22.7	2,000

Material
PBT, UL94V-0, natural(white)

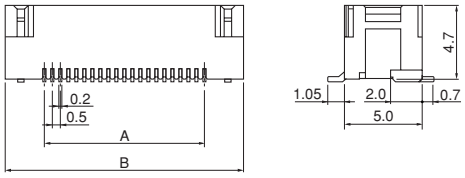
RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **SHLVP-21V-S-1**
S…natural (white)
LE…light blue

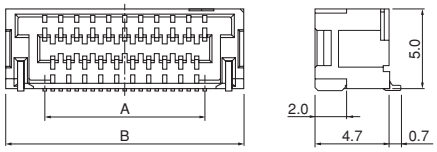
Shrouded header

Top entry type



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
	Top entry type	A	B	
21	**BM21B-SHLVS-G-TBT**	10.0	15.0	1,500
31	**BM31B-SHLVS-G-TBT**	15.0	20.0	1,500

Side entry type



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
	Side entry type	A	B	
21	**SM21B-SHLVS-G-TB**	10.0	15.0	2,000
31	**SM31B-SHLVS-G-TB**	15.0	20.0	2,000

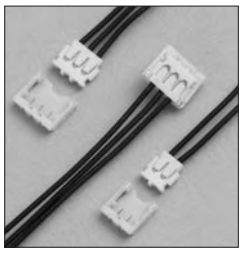
Material and Finish
Contact: Phosphor bronze, nickel-undercoated, gold-plated Wafer: Polyamide, UL94V-0, natural (ivory) Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*
This products listed above are supplied on embossed-tape.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

<Top entry type>
ex. **BM21B-SHLVS-G-TBT**
S…natural (ivory)
LE…light blue

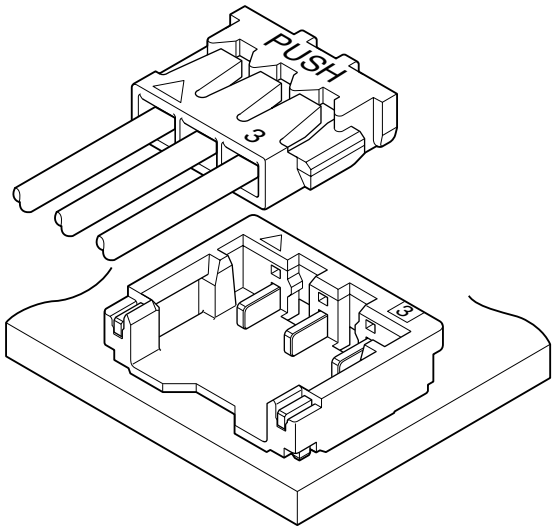
<Side entry type>
ex. **SM21B-SHLVS-G-TB**
S…natural (ivory)
LE…light blue



ACH CONNECTOR

Emboss Tape

1.2mm pitch/Disconnectable Crimp style connectors



This ACH connector is compact and low profile type, height: 1.4mm and width 4.3mm,1.2mm pitch wire-to-board connector.

- ***Top entry but side feed type***
- ***Connector for DC power supply***
- ***Corresponding to sucking nozzle of pick and place machine***

Specifications

- Current rating: 2A/2, 3-circuit AC, DC (AWG #28)
  1.5A/4-circuit AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #30 to #28
  Insulation O.D./0.5 to 0.63mm

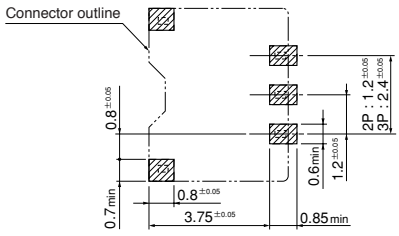
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

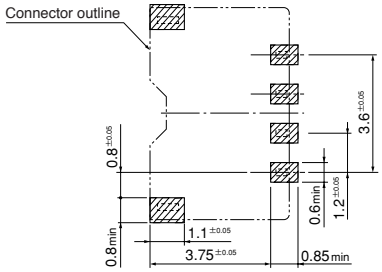
Recognized E60389

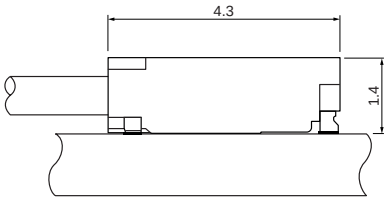
PC board layout (viewed from component side) and Assembly layout

<2, 3 circuits>



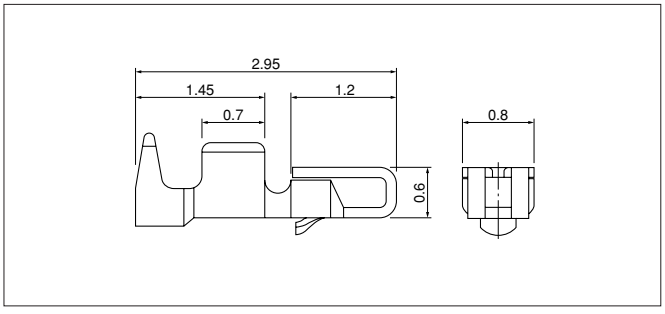
<4 circuits>





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SACH-003G-P0.2	0.05～0.08	30～28	0.5～0.63	30,000

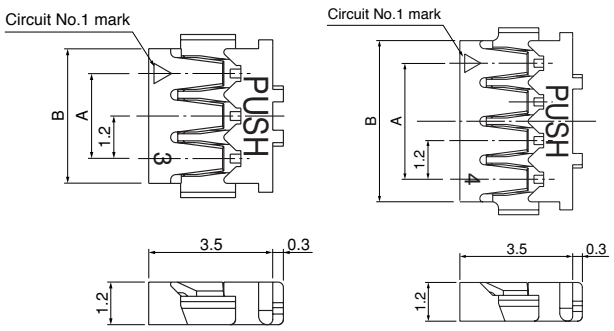
Material and Finish
Copper alloy, nickel-undercoated, gold-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SACH-003G-P0.2	AP-K2N	MKS-L-10-3	MK/SACH-003-02	APLMK SACH003-02
		—	—	—

Housing

<2, 3 circuits> **<4 circuits>**



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	**ACHR-02V-S**	1.2	2.6	1,000
3	**ACHR-03V-S**	2.4	3.8	1,000
4	**ACHR-04V-A-S**	3.6	5.0	1,000

Material
PBT, UL94V-0, natural (white)

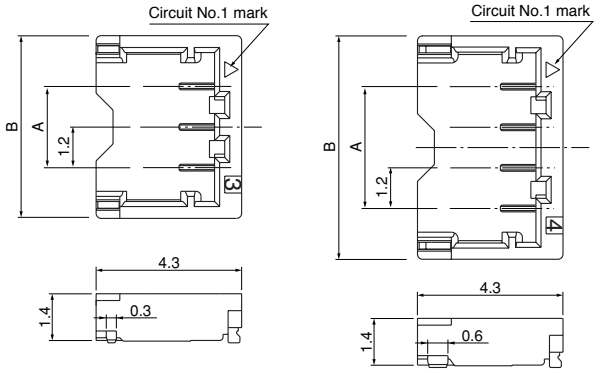
RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **ACHR-02V-00**
S…natural (white)
K…black

Shrouded header

<2, 3 circuits> **<4 circuits>**



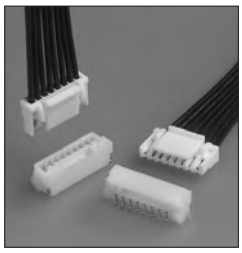
Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	**BM02B-ACHSS-GAN-TF**	1.2	4.2	4,500
3	**BM03B-ACHSS-GAN-TF**	2.4	5.4	4,500
4	**BM04B-ACHSS-A-GAN-TF**	3.6	6.6	4,500

Material and Finish
Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe) Housing: Heat resisting resin, UL94V-0, natural (ivory) Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

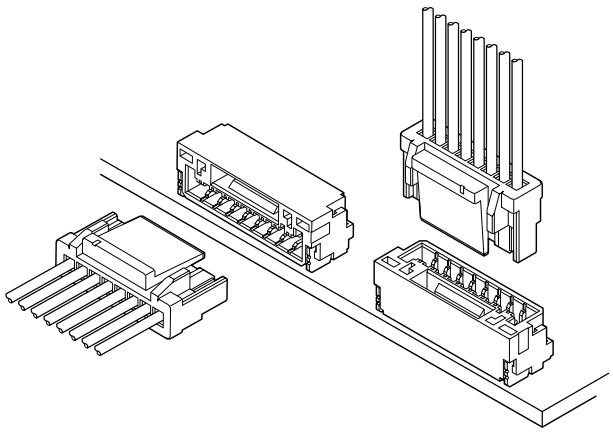
ex. **BM02B-ACHSS-GAN-TF**
S…natural (ivory)
K…black



GH CONNECTOR

Emboss Tape

1.25mm pitch/Disconnectable Crimp style connectors



Developed for PDP, LCD or small electronics equipment.
This low insertion force type connector realizes easier mating operation. The basic concept of the contact part of this connector is equivalent to the performance proven SHL connector.

- ***Secure locking structure***
- ***Contact lock structure***
- ***Prevent deformation of contacts***

Specifications

- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
  After environmental testing/50m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #30 to #26
  Insulation O.D./0.8 to 1.0mm

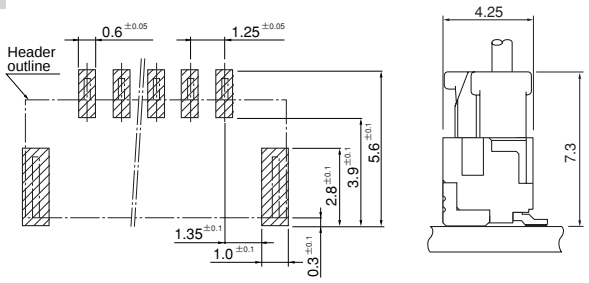
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

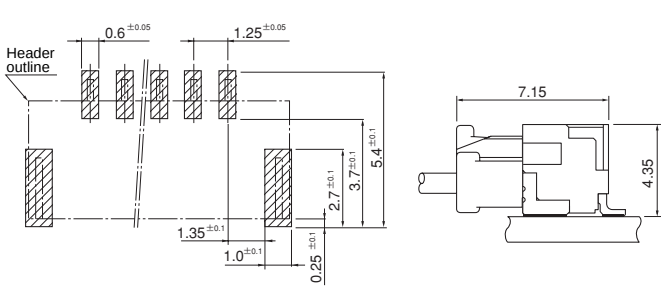
Recognized E60389

PC board layout (viewed from component side) and Assembly layout

Top entry type

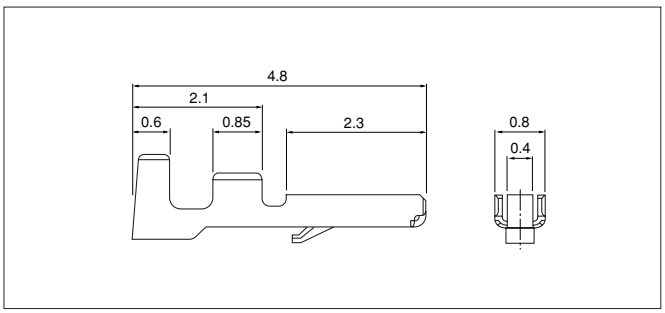


Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SSHL-002T-P0.2	0.05～0.13	30～26	0.8～1.0	23,000

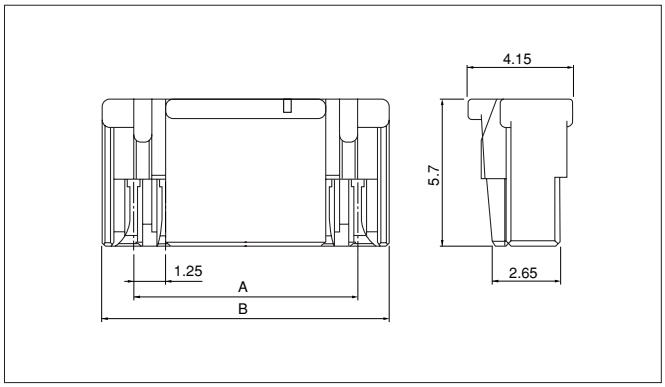
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: 1. Contact JST for gold-plates products.
2. This contact can be applied only for GH connector.
SSHL-003( )-P0.2 cannot be applied for GH connector.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSHL-002T-P0.2	AP-K2N	MKS-L-10-3	MK/SSHL-002-02	APLMK SSHL002-02
		—	—	—

Housing



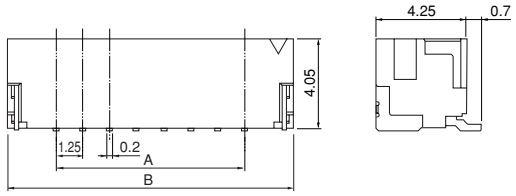
Circuits	Model No	Dimensions (mm)		Q'ty / box
		A	B	
2	**GHR-02V-S**	1.25	3.75	4,000
3	**GHR-03V-S**	2.50	5.00	3,000
4	**GHR-04V-S**	3.75	6.25	2,500
5	**GHR-05V-S**	5.00	7.50	2,000
6	**GHR-06V-S**	6.25	8.75	1,500
7	**GHR-07V-S**	7.50	10.00	1,500
8	**GHR-08V-S**	8.75	11.25	1,000
9	**GHR-09V-S**	10.00	12.50	1,000
10	**GHR-10V-S**	11.25	13.75	1,000
11	**GHR-11V-S**	12.50	15.00	1,000
12	**GHR-12V-S**	13.75	16.25	1,000
13	**GHR-13V-S**	15.00	17.50	1,000
14	**GHR-14V-S**	16.25	18.75	500
15	**GHR-15V-S**	17.50	20.00	500

Material
PBT, UL94V-0, natural (white)

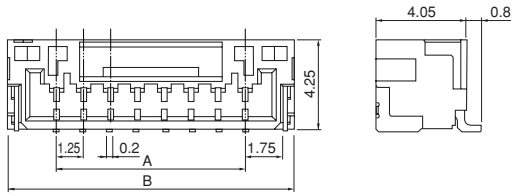
RoHS compliance

Shrouded header

Top entry type



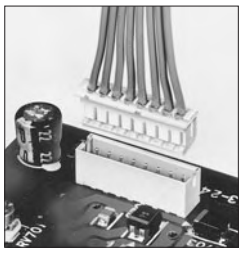
Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Top entry type	Side entry type	A	B	
2	**BM02B-GHS-TBT**	**SM02B-GHS-TB**	1.25	5.75	2,500
3	**BM03B-GHS-TBT**	**SM03B-GHS-TB**	2.50	7.00	2,500
4	**BM04B-GHS-TBT**	**SM04B-GHS-TB**	3.75	8.25	2,500
5	**BM05B-GHS-TBT**	**SM05B-GHS-TB**	5.00	9.50	2,500
6	**BM06B-GHS-TBT**	**SM06B-GHS-TB**	6.25	10.75	2,500
7	**BM07B-GHS-TBT**	**SM07B-GHS-TB**	7.50	12.00	2,500
8	**BM08B-GHS-TBT**	**SM08B-GHS-TB**	8.75	13.25	2,500
9	**BM09B-GHS-TBT**	**SM09B-GHS-TB**	10.00	14.50	2,500
10	**BM10B-GHS-TBT**	**SM10B-GHS-TB**	11.25	15.75	2,500
11	**BM11B-GHS-TBT**	**SM11B-GHS-TB**	12.50	17.00	2,500
12	**BM12B-GHS-TBT**	**SM12B-GHS-TB**	13.75	18.25	2,500
13	**BM13B-GHS-TBT**	**SM13B-GHS-TB**	15.00	19.50	2,500
14	**BM14B-GHS-TBT**	**SM14B-GHS-TB**	16.25	20.75	2,500
15	**BM15B-GHS-TBT**	**SM15B-GHS-TB**	17.50	22.00	2,500

Material and Finish
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) Housing: PA9T, UL94V-0, natural (ivory) Solder tab: Brass, copper-undercoated, tin-plated

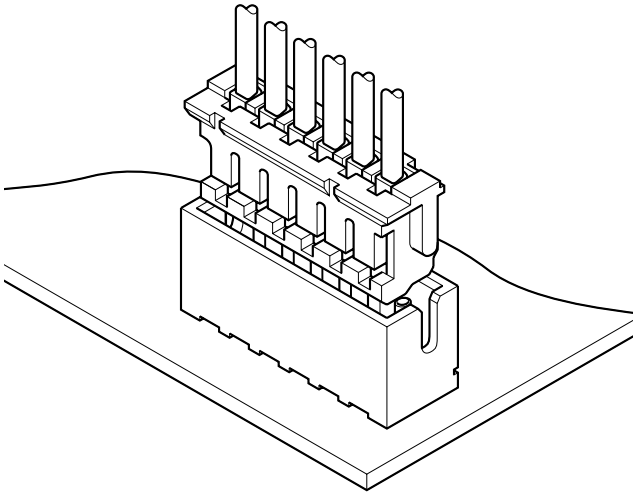
RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Contact JST for gold-plated products.



ZH CONNECTOR

Emboss Tape

1.5mm pitch/Disconnectable Crimp style connectors



The ZH connector is very small with a mounting height of 5.6mm and a thickness of only 3.5mm. Contact retention lances on the housing make insertion easier, while the dimple at the center of the contact ensures reliable contact with the post.

- ***Compact, low profile design***
- ***Housing lances***
- ***Reliable contact construction***
- ***Distortion resistant construction***
- ***Compatible with the ZR insulation displacement connectors***

Specifications

- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
  After environmental testing/30m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: AWG #32 to #26
- Applicable PC board thickness: 0.6 to 1.2mm,1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

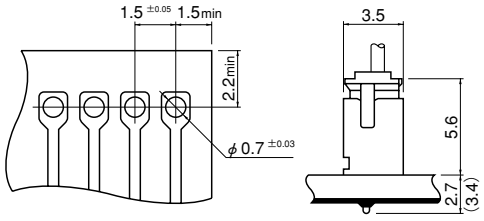
Certified LR20812

R9351092

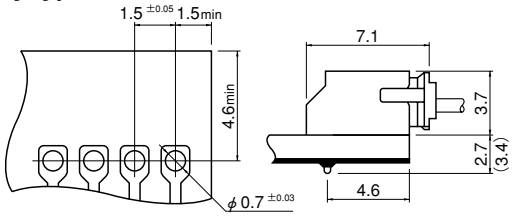
PC board layout and Assembly layout

〈Through-hole type (viewed from soldering side)〉

Top entry type



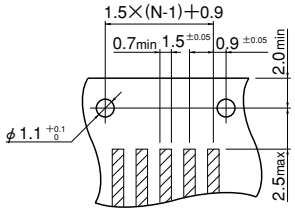
Side entry type



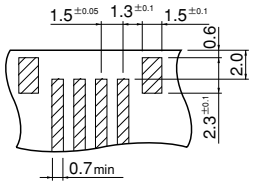
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimension differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

〈SMT type (viewed from component side)〉

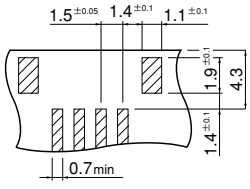
SM2 type
Side entry type



SM4 type
Top entry type

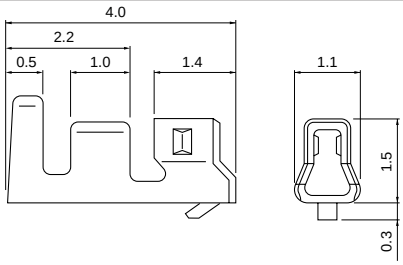


Side entry type



Note: 1. N...Number of circuits
2. Tolerances are non-cumulative: ±0.05mm for all centers.
3. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm²	AWG#	Insulation O.D. (mm)	
SZH-002T-P0.5	0.08 ～0.13	28～26	0.8～1.1	13,000
SZH-003T-P0.5	0.032～0.08	32～28	0.5～0.9	16,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

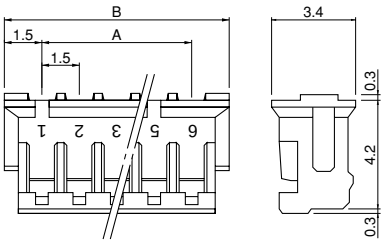
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZH-002T-P0.5	AP-K2N	MKS-L	MK/SZH-002-05	APLMK SZH002-05
		—	—	—

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZH-003T-P0.5	AP-K2N	MKS-L	MK/SZH-003-05	APLMK SZH003-05
		*MKS-SC	SC/SZH-003-05	APLSC SZH003-05

*Note: *Strip-crimp applicator.*

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	**ZHR-2**	1.5	4.5	1,000
3	**ZHR-3**	3.0	6.0	1,000
4	**ZHR-4**	4.5	7.5	1,000
5	**ZHR-5**	6.0	9.0	1,000
6	**ZHR-6**	7.5	10.5	1,000
6	**ZHR-6(3.0)**	15.0	18.0	1,000
7	**ZHR-7**	9.0	12.0	1,000
8	**ZHR-8**	10.5	13.5	1,000
9	**ZHR-9**	12.0	15.0	1,000
10	**ZHR-10**	13.5	16.5	1,000
11	**ZHR-11**	15.0	18.0	1,000
12	**ZHR-12**	16.5	19.5	1,000
13	**ZHR-13**	18.0	21.0	1,000

Material
PA 66, UL94V-0, natural (white)

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **ZHR-2-OO**
(blank)…natural (white)
K…black R…red E…blue M…green

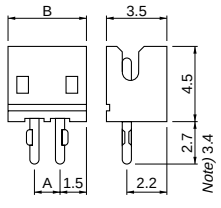
RoHS compliance

Note: 1. ZHR-6(3.0) is 6 circuits 3.0mm pitch plugged up. As for this housing, only circuit No.1 is marked.
2. ZHR-6(3.0) is not UL/CSA/TÜV approved.

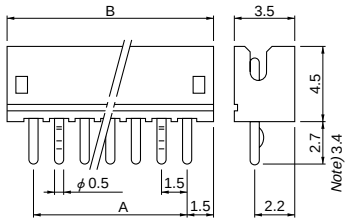
Through-hole type shrouded header

Top entry type

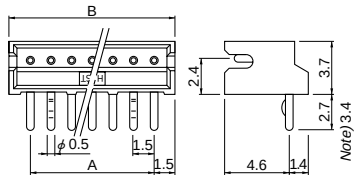
(2 circuits)



(3 circuits or more)



Side entry type



Circuits	Model No.				Dimensions (mm)		Q'ty / box		
	Top entry type	Side entry type	Note) Top entry type	Note) Side entry type	A	B	Top entry type	Side entry type	Side entry type-3.4
2	**B2B-ZR**	**S2B-ZR**	**B2B-ZR-3.4**	**S2B-ZR-3.4**	1.5	4.5	2,000	2,000	2,000
3	**B3B-ZR**	**S3B-ZR**	**B3B-ZR-3.4**	**S3B-ZR-3.4**	3.0	6.0	2,000	2,000	1,000
4	**B4B-ZR**	**S4B-ZR**	**B4B-ZR-3.4**	**S4B-ZR-3.4**	4.5	7.5	2,000	2,000	2,000
5	**B5B-ZR**	**S5B-ZR**	**B5B-ZR-3.4**	**S5B-ZR-3.4**	6.0	9.0	2,000	1,000	1,000
6	**B6B-ZR**	**S6B-ZR**	**B6B-ZR-3.4**	**S6B-ZR-3.4**	7.5	10.5	2,000	1,000	1,000
7	**B7B-ZR**	**S7B-ZR**	**B7B-ZR-3.4**	**S7B-ZR-3.4**	9.0	12.0	1,000	1,000	1,000
8	**B8B-ZR**	**S8B-ZR**	**B8B-ZR-3.4**	**S8B-ZR-3.4**	10.5	13.5	1,000	1,000	1,000
9	**B9B-ZR**	**S9B-ZR**	**B9B-ZR-3.4**	**S9B-ZR-3.4**	12.0	15.0	1,000	1,000	1,000
10	**B10B-ZR**	**S10B-ZR**	**B10B-ZR-3.4**	**S10B-ZR-3.4**	13.5	16.5	1,000	1,000	1,000
11	**B11B-ZR**	**S11B-ZR**	**B11B-ZR-3.4**	**S11B-ZR-3.4**	15.0	18.0	1,000	500	500
12	**B12B-ZR**	**S12B-ZR**	**B12B-ZR-3.4**	**S12B-ZR-3.4**	16.5	19.5	1,000	500	500
13	**B13B-ZR**	**S13B-ZR**	**B13B-ZR-3.4**	**S13B-ZR-3.4**	18.0	21.0	500	500	500

Material and Finish
Pin: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance *This product displays (LF)(SN) on a label.*

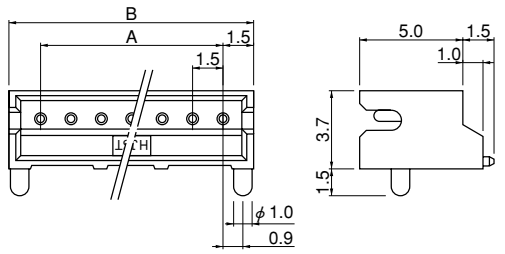
Note: Headers with 3.4mm long solder tails, suited for the 1.6mm thick PC board.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-ZR-3.4-OO**
(blank)…natural (ivory)
K…black R…red E…blue M…green

SMT type shrouded header

SM2 type
Side entry type



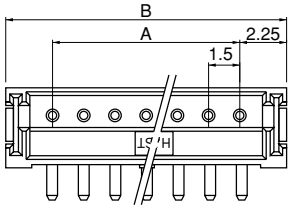
SM2 type

Circuits	Model No.	Dimensions (mm)		Q'ty / reel
	Side entry type	A	B	
2	**S2B-ZR-SM2-TF**	1.5	4.5	1,000
3	**S3B-ZR-SM2-TF**	3.0	6.0	1,000
4	**S4B-ZR-SM2-TF**	4.5	7.5	1,000
5	**S5B-ZR-SM2-TF**	6.0	9.0	1,000
6	**S6B-ZR-SM2-TF**	7.5	10.5	1,000
7	**S7B-ZR-SM2-TF**	9.0	12.0	1,000
8	**S8B-ZR-SM2-TF**	10.5	13.5	1,000
9	**S9B-ZR-SM2-TF**	12.0	15.0	1,000
10	**S10B-ZR-SM2-TF**	13.5	16.5	1,000
11	**S11B-ZR-SM2-TF**	15.0	18.0	1,000
12	**S12B-ZR-SM2-TF**	16.5	19.5	1,000
13	**S13B-ZR-SM2-TF**	18.0	21.0	1,000

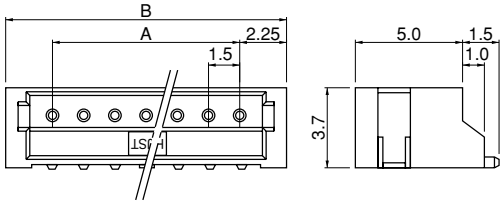
Material and Finish
Pin: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 46, UL94V-0, natural (ivory)

RoHS compliance *This product displays (LF)(SN) on a label.*

SM4 type (with solder tabs)
Top entry type



Side entry type



SM4 type

Circuits	Model No.		Dimensions (mm)		Q'ty / reel	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	**B2B-ZR-SM4-TF**	**S2B-ZR-SM4A-TF**	1.5	6.0	1,000	1,000
3	**B3B-ZR-SM4-TF**	**S3B-ZR-SM4A-TF**	3.0	7.5	1,000	1,000
4	**B4B-ZR-SM4-TF**	**S4B-ZR-SM4A-TF**	4.5	9.0	1,000	1,000
5	**B5B-ZR-SM4-TF**	**S5B-ZR-SM4A-TF**	6.0	10.5	1,000	1,000
6	**B6B-ZR-SM4-TF**	**S6B-ZR-SM4A-TF**	7.5	12.0	1,000	1,000
7	**B7B-ZR-SM4-TF**	**S7B-ZR-SM4A-TF**	9.0	13.5	1,000	1,000
8	**B8B-ZR-SM4-TF**	**S8B-ZR-SM4A-TF**	10.5	15.0	1,000	1,000
9	**B9B-ZR-SM4-TF**	**S9B-ZR-SM4A-TF**	12.0	16.5	1,000	1,000
10	**B10B-ZR-SM4-TF**	**S10B-ZR-SM4A-TF**	13.5	18.0	1,000	1,000
11	**B11B-ZR-SM4-TF**	**S11B-ZR-SM4A-TF**	15.0	19.5	1,000	1,000
12	**B12B-ZR-SM4-TF**	**S12B-ZR-SM4A-TF**	16.5	21.0	1,000	1,000
13	**B13B-ZR-SM4-TF**	**S13B-ZR-SM4A-TF**	18.0	22.5	1,000	1,000

Material and Finish
Pin: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 6T, UL94V-0, natural (ivory) Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Note: 1. The products listed above are supplied on embossed-tape.
2. Contact JST for the top entry type headers with suction cap.

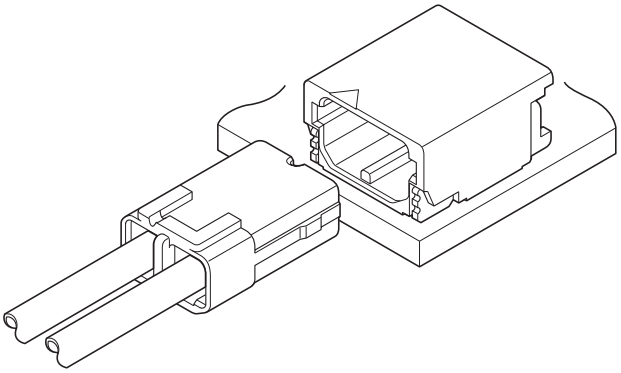
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **S2B-ZR-SM4A-oo-TF**
(blank)…natural (ivory)
K…black R…red E…blue M…green

SFH CONNECTOR

Emboss Tape

1.8mm pitch/Disconnectable Crimp style connectors



This low profile type connector with height of 3.0mm is designed for connection to stroboscope flash and realized space saving.

- ***Contact lance***
- ***Countermeasure for inverse insertion and locking feature***

Specifications

- Current rating: 4A AC, DC (AWG #22, #24)
- Voltage rating: 350V AC, DC
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max. After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,700V AC/minute
- Applicable wire: Conductor size/AWG #30 to #22 Insulation O.D./0.7 to 1.3mm

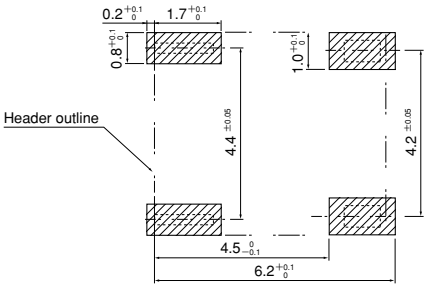
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

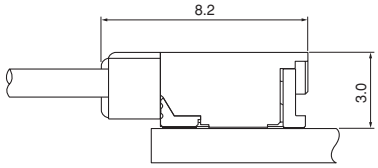
Standards

Recognized E60389

Certified LR20812

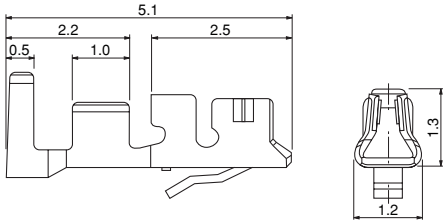
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



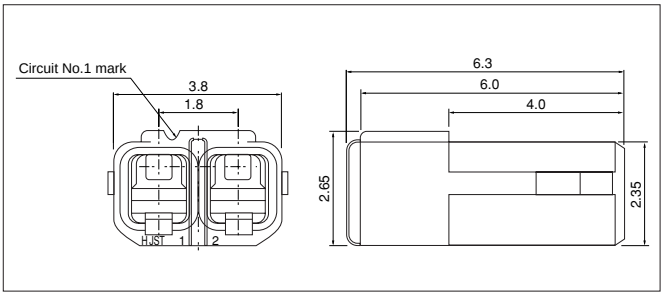
Model No.	Applicable wire			Q'ty / reel
	mm²	AWG#	Insulation O.D. (mm)	
SSFH-001T-P0.5	0.13～0.33	26～22	0.95～1.3	15,000
SSFH-002T-P0.5	0.05～0.13	30～26	0.7 ～1.25	15,000

Material and Finish
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSFH-001T-P0.5	AP-K2N	MKS-L	MK/SSFH-001-05	APLMK SSFH001-05
		—	—	—
SSFH-002T-P0.5	AP-K2N	MKS-L	MK/SSFH-002-05	APLMK SSFH002-05
		—	—	—

Housing



Circuits	Model No.	Q'ty / bag
2	**SFHR-02V-R**	1,000

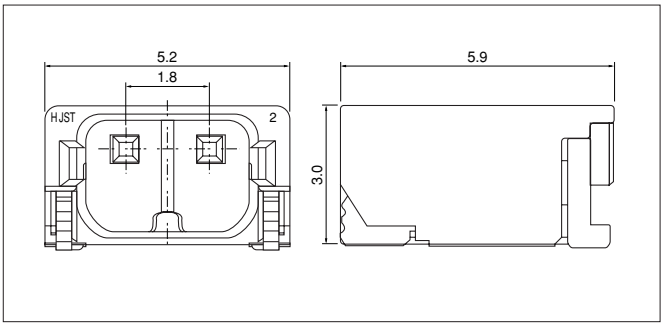
Material
Thermoplastic resin, UL94V-0

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **SFHR-02V-R**
R…red
L…lemon yellow

Shrouded header



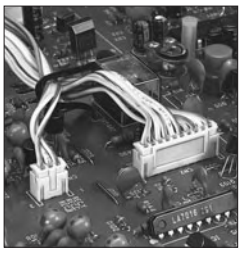
Circuits	Model No.	Q'ty / reel
2	**SM02B-SFHRS-TF**	2,000

Material and Finish
Press pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Heat resisting resin, UL94V-0 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

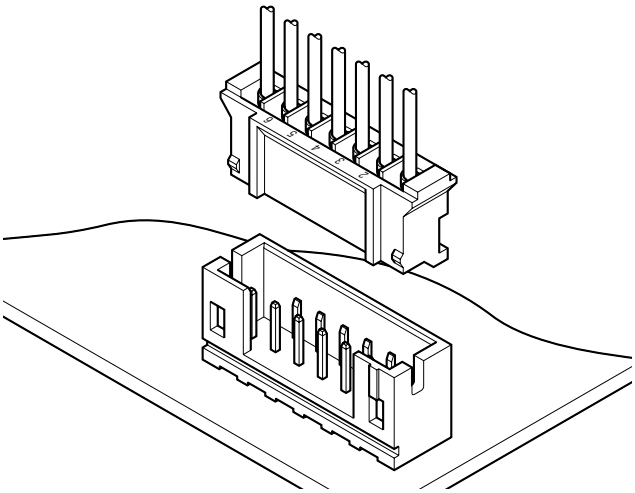
ex. **SM02B-SFHRS-TF**
R…red
L…lemon yellow



PH CONNECTOR

Emboss Tape

2.0mm pitch/Disconnectable Crimp style connectors



This is a thin, low-profile 2.0mm pitch connector 8.0mm in height after mounting and 4.5mm in width. It is designed to meet the demand for high-density connection of internal wires to printed circuit boards. It is compact, highly reliable and low in cost.

- ***Reliable contact***
- ***Fully shrouded header***
- ***Printed circuit board retention mechanism***
- ***Surface mount model (SMT)***

Specifications

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 100V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #32 to #24
- Applicable PC board thickness: 0.8 to 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

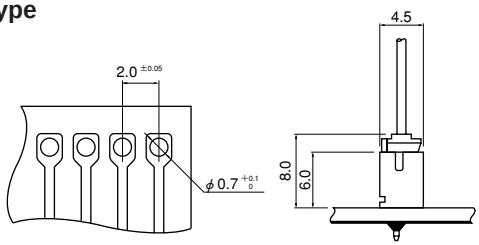
Certified LR20812

R75087

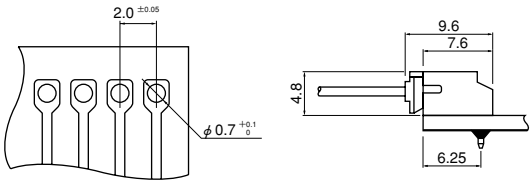
PC board layout and Assembly layout

〈Through-hole type (viewed from soldering side)〉

Top entry type



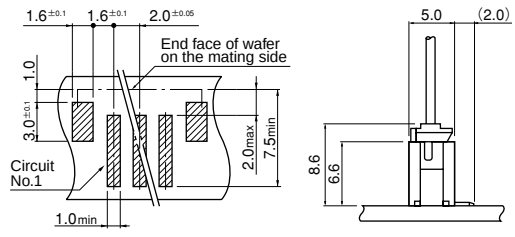
Side entry type



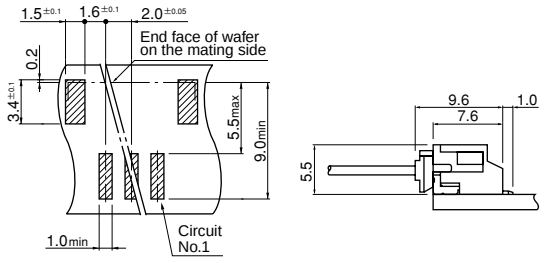
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

〈SMT type (viewed from component side)〉

SM4 type
Top entry type

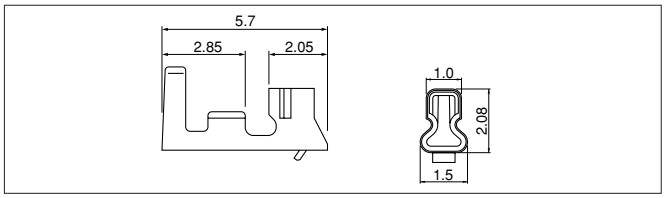


Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPH-002T-P0.5S	AP-K2N	MKS-LS・MKS-L	MK/SPH-002-05S	APLMK SPH002-05S
		*MKS-SC	SC/SPH-002-05S	APLSC SPH002-05S
SPH-002T-P0.5L		MKS-LS・MKS-L	MK/SPH-002-05L	APLMK SPH002-05L
		*MKS-SC	SC/SPH-002-05L	APLSC SPH002-05L
SPH-004T-P0.5S		MKS-L-10	MK/SPH-004-05S	APLMK SPH004-05S
		*MKS-SC-10	SC/SPH-004-05S	APLSC SPH004-05S

*Note: *Strip-crimp applicator*

Model No.	Applicable wire			Q'ty / reel
	mm²	AWG #	Insulation O.D. (mm)	
SPH-002T-P0.5S	0.05 ~ 0.22	30~24	0.9~1.5	8,000
SPH-002T-P0.5L	0.08 ~ 0.22	28~24	0.8~1.5	
SPH-004T-P0.5S	0.032~0.08	32~28	0.5~0.9	10,000

Material and Finish

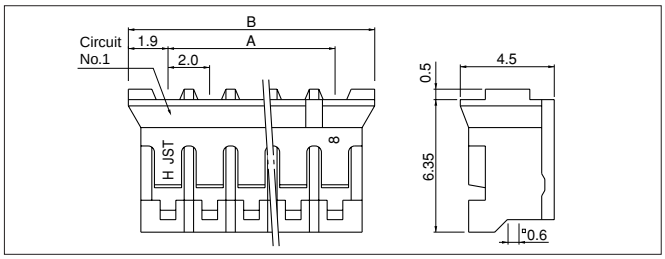
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note:

1. *Contact JST for gold-plated products.*
2. *SPH-002T-P0.5L is low-insertion force type contact, for easier insertion/ withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard.*
3. *Contact JST for details.*

Housing



<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **PHR-2-oo**

(blank)…natural (white)
BK…black R…red TR…tomato red BL…blue Y…yellow
L…lemon yellow M…green D…orange N…brown
P…purple PK…pink H…gray LE…light blue
FY…vivid yellow DPK...dark pink

Cir-cuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	PHR-2	2.0	5.8	1,000
3	PHR-3	4.0	7.8	1,000
4	PHR-4	6.0	9.8	1,000
5	PHR-5	8.0	11.8	1,000
6	PHR-6	10.0	13.8	1,000
7	PHR-7	12.0	15.8	1,000
8	PHR-8	14.0	17.8	1,000
9	PHR-9	16.0	19.8	1,000
10	PHR-10	18.0	21.8	1,000
11	PHR-11	20.0	23.8	1,000
12	PHR-12	22.0	25.8	1,000
13	PHR-13	24.0	27.8	1,000
14	PHR-14	26.0	29.8	1,000
15	PHR-15	28.0	31.8	1,000
16	PHR-16	30.0	33.8	1,000

Material

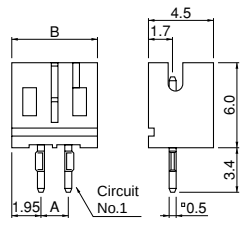
PA 66, UL94V-0, natural (white)

RoHS compliance

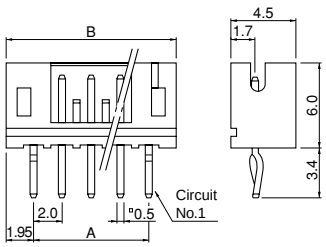
Through-hole type shrouded header

Top entry type

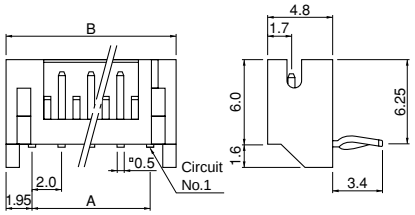
(2 circuits)



(3 circuits or more)



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B2B-PH-K-S	S2B-PH-K-S	2.0	5.9	1,000	1,000
3	B3B-PH-K-S	S3B-PH-K-S	4.0	7.9	1,000	1,000
4	B4B-PH-K-S	S4B-PH-K-S	6.0	9.9	1,000	500
5	B5B-PH-K-S	S5B-PH-K-S	8.0	11.9	1,000	500
6	B6B-PH-K-S	S6B-PH-K-S	10.0	13.9	1,000	500
7	B7B-PH-K-S	S7B-PH-K-S	12.0	15.9	500	500
8	B8B-PH-K-S	S8B-PH-K-S	14.0	17.9	500	250
9	B9B-PH-K-S	S9B-PH-K-S	16.0	19.9	500	250
10	B10B-PH-K-S	S10B-PH-K-S	18.0	21.9	500	250
11	B11B-PH-K-S	S11B-PH-K-S	20.0	23.9	500	250
12	B12B-PH-K-S	S12B-PH-K-S	22.0	25.9	400	250
13	B13B-PH-K-S	S13B-PH-K-S	24.0	27.9	250	250
14	B14B-PH-K-S	S14B-PH-K-S	26.0	29.9	250	250
15	B15B-PH-K-S	S15B-PH-K-S	28.0	31.9	250	200
16	B16B-PH-K-S	S16B-PH-K-S	30.0	33.9	250	200

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

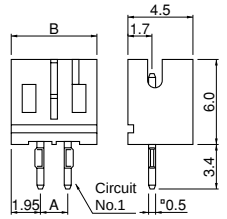
ex. **B2B-PH-K-oo**

S…natural (white)
K…black R…red TR…tomato red
E…blue Y…yellow L…lemon yellow M…green
O…orange N…brown P…purple PK…pink H…gray
LE…light blue FY…vivid yellow (blank)…ivory

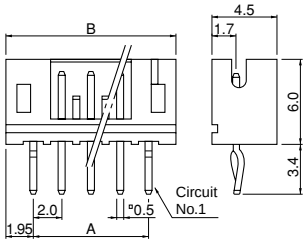
Through-hole type shrouded header〈Low insertion force type〉

Top entry type

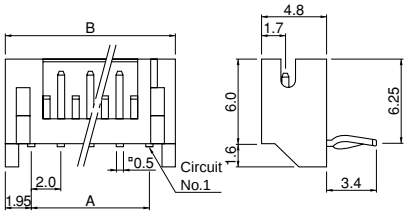
(2 circuits)



(3 circuits or more)



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	**B2B-PH-KL**	**S2B-PH-KL**	2.0	5.9	1,000	1,000
3	**B3B-PH-KL**	**S3B-PH-KL**	4.0	7.9	1,000	1,000
4	**B4B-PH-KL**	**S4B-PH-KL**	6.0	9.9	1,000	500
5	**B5B-PH-KL**	**S5B-PH-KL**	8.0	11.9	1,000	500
6	**B6B-PH-KL**	**S6B-PH-KL**	10.0	13.9	1,000	500
7	**B7B-PH-KL**	**S7B-PH-KL**	12.0	15.9	500	500
8	**B8B-PH-KL**	**S8B-PH-KL**	14.0	17.9	500	250
9	**B9B-PH-KL**	**S9B-PH-KL**	16.0	19.9	500	250
10	**B10B-PH-KL**	**S10B-PH-KL**	18.0	21.9	500	250
11	**B11B-PH-KL**	**S11B-PH-KL**	20.0	23.9	500	250
12	**B12B-PH-KL**	**S12B-PH-KL**	22.0	25.9	400	250
13	**B13B-PH-KL**	**S13B-PH-KL**	24.0	27.9	250	250
14	**B14B-PH-KL**	**S14B-PH-KL**	26.0	29.9	250	200
15	**B15B-PH-KL**	**S15B-PH-KL**	28.0	31.9	250	200
16	**B16B-PH-KL**	**S16B-PH-KL**	30.0	33.9	250	200

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, gray

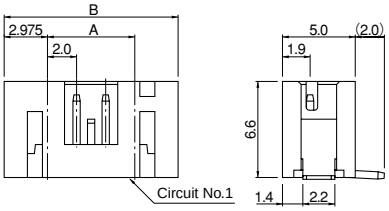
RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

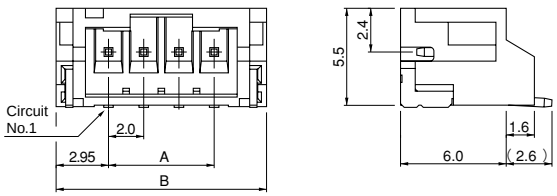
ex. **B2B-PH-KL-oo**
(blank)…gray
R…red E…blue S…natural (white)

SMT type shrouded header

Top entry type



Side entry type



Cir-cuits	Model No.		Dimensions (mm)			Q'ty / reel
	Top entry type	Side entry type	A	B		
				Top entry type	Side entry type	
2	**B2B-PH-SM4-TB**	**S2B-PH-SM4-TB**	2.0	7.95	7.9	1,000
3	**B3B-PH-SM4-TB**	**S3B-PH-SM4-TB**	4.0	9.95	9.9	1,000
4	**B4B-PH-SM4-TB**	**S4B-PH-SM4-TB**	6.0	11.95	11.9	1,000
5	**B5B-PH-SM4-TB**	**S5B-PH-SM4-TB**	8.0	13.95	13.9	1,000
6	**B6B-PH-SM4-TB**	**S6B-PH-SM4-TB**	10.0	15.95	15.9	1,000
7	**B7B-PH-SM4-TB**	**S7B-PH-SM4-TB**	12.0	17.95	17.9	1,000
8	**B8B-PH-SM4-TB**	**S8B-PH-SM4-TB**	14.0	19.95	19.9	1,000
9	**B9B-PH-SM4-TB**	**S9B-PH-SM4-TB**	16.0	21.95	21.9	1,000
10	**B10B-PH-SM4-TB**	**S10B-PH-SM4-TB**	18.0	23.95	23.9	1,000
11	**B11B-PH-SM4-TB**	**S11B-PH-SM4-TB**	20.0	25.95	25.9	1,000
12	**B12B-PH-SM4-TB**	**S12B-PH-SM4-TB**	22.0	27.95	27.9	1,000
13	**B13B-PH-SM4-TB**	**S13B-PH-SM4-TB**	24.0	29.95	29.9	1,000
14	**B14B-PH-SM4-TB**	**S14B-PH-SM4-TB**	26.0	31.95	31.9	1,000
15	**B15B-PH-SM4-TB**	**S15B-PH-SM4-TB**	28.0	33.95	33.9	1,000
16	**B16B-PH-SM4-TB**	—	30.0	35.95	–	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

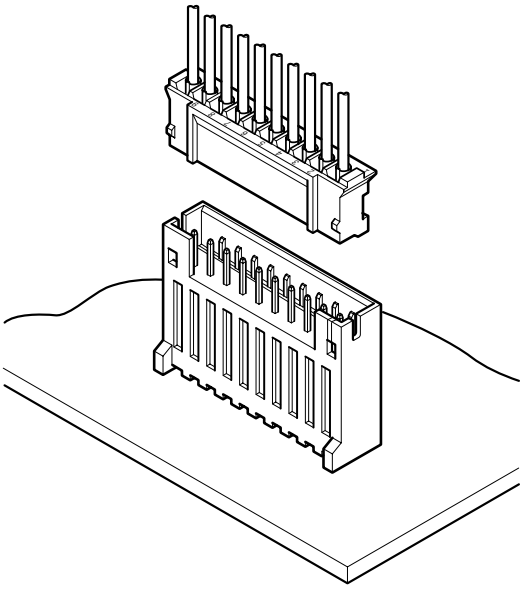
RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Contact JST for the top entry type headers with suction cap.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-PH-SM4-oo-TB**
(blank)…natural (ivory)
R…red E…blue M…green L…lemon yellow K…black
DPK...dark pink

PH CONNECTOR ⟨High box type⟩

2.0mm pitch/Disconnectable Crimp style connectors



PH connector high box type, with 17.0mm mounting height and with 4.5mm thickness.

• Interchangeability

Specifications

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 100V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #30 to #24
- Applicable PC board thickness: 0.8 to 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

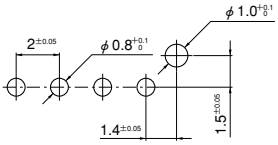
Standards

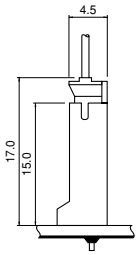
Recognized E60389

Certified LR20812

R75087

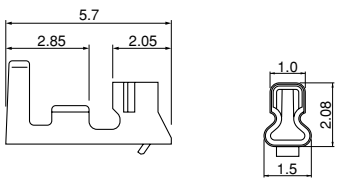
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The hole dimensions shown above are reference values. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SPH-002T-P0.5S	0.05 ～ 0.22	30～24	0.9～1.5	8,000

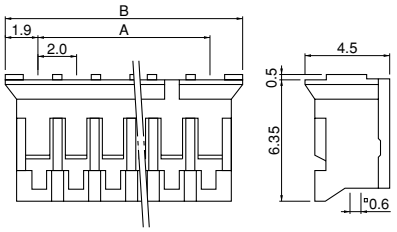
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPH-002T-P0.5S	AP-K2N	MKS-LS・MKS-L	MK/SPH-002-05S	APLMK SPH002-05S
		*MKS-SC	SC/SPH-002-05S	APLSC SPH002-05S

*Note: *Strip-crimp applicator*

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	**PHR-2**	2.0	5.8	1,000
3	**PHR-3**	4.0	7.8	1,000
4	**PHR-4**	6.0	9.8	1,000
5	**PHR-5**	8.0	11.8	1,000
6	**PHR-6**	10.0	13.8	1,000
7	**PHR-7**	12.0	15.8	1,000
8	**PHR-8**	14.0	17.8	1,000
9	**PHR-9**	16.0	19.8	1,000
10	**PHR-10**	18.0	21.8	1,000
11	**PHR-11**	20.0	23.8	1,000
12	**PHR-12**	22.0	25.8	1,000
13	**PHR-13**	24.0	27.8	1,000

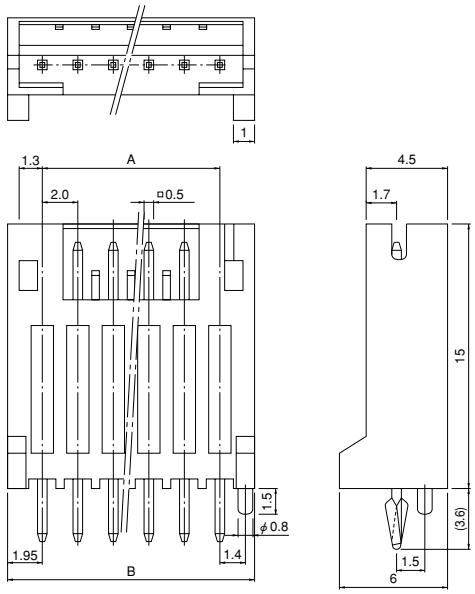
Material
PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PHR-2-oo**
(blank)…natural (white)
BK…black R…red TR…tomato red BL…blue Y…yellow
L…lemon yellow M…green D…orange N…brown P…purple
PK…pink H…gray LE…light blue FY…vivid yellow

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	**BH2B-PH**	2.0	5.9	800
3	**BH3B-PH**	4.0	7.9	480
4	**BH4B-PH**	6.0	9.9	400
5	**BH5B-PH**	8.0	11.9	390
6	**BH6B-PH**	10.0	13.9	300
7	**BH7B-PH**	12.0	15.9	240
8	**BH8B-PH**	14.0	17.9	240
9	**BH9B-PH**	16.0	19.9	200
10	**BH10B-PH**	18.0	21.9	200
11	**BH11B-PH**	20.0	23.9	150
12	**BH12B-PH**	22.0	25.9	150
13	**BH13B-PH**	24.0	27.9	100

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

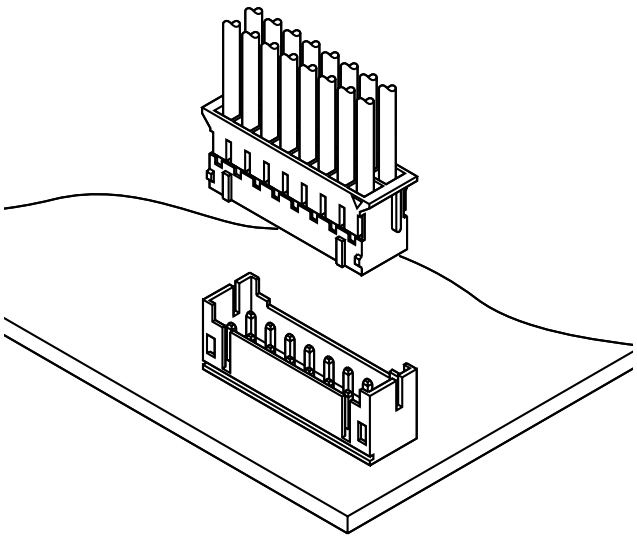
RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BH2B-PH-oo**
(blank)…natural (white)
K…black R…red E…blue Y…yellow M…green N…brown

PHD CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



This is a 2.0mm pitch, crimp style, double-row, wire-to-board connector. It is designed to meet the demand for high-density and low-profile connection.

- ***Compact***
- ***Reliable contacts***
- ***Fully shrouded header***

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

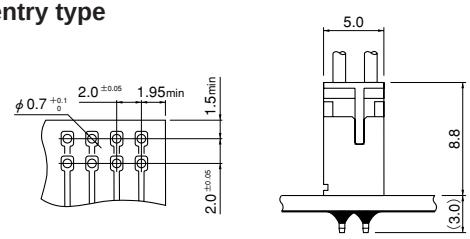
Standards

Recognized E60389

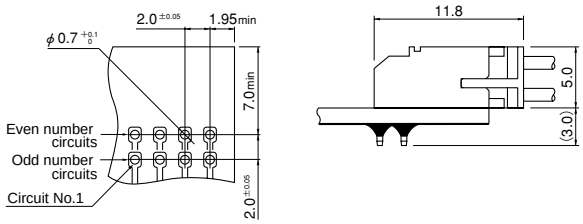
Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

Top entry type

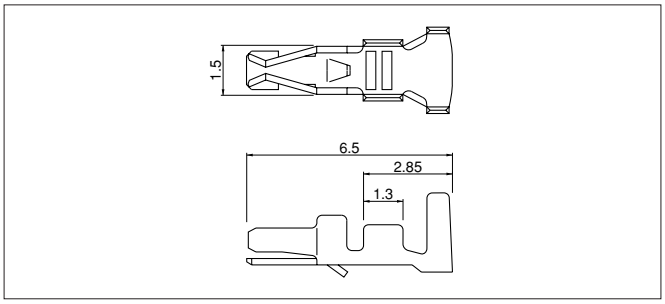


Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SPHD-002T-P0.5	0.08～0.21	28～24	0.9～1.5	8,000
SPHD-001T-P0.5	0.13～0.33	26～22	1.0～1.5	

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

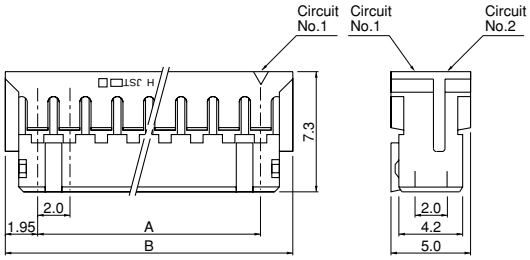
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPHD-002T-P0.5	AP-K2N	MKS-LS-10・MKS-L-10	MK/SPHD-002-05	APLMK SPHD002-05
		*MKS-SC-10	SC/SPHD-002-05	APLSC SPHD002-05

*Note: *Strip-crimp applicator*

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPHD-001T-P0.5	AP-K2N	MKS-L-10・MKS-LS-10	MK/SPHD-001-05	APLMK SPHD001-05
		*MKS-SC-10	SC/SPHD-001-05	APLSC SPHD001-05

Housing



Cir-cuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
8	**PHDR-08VS**	6.0	9.9	1,000
10	**PHDR-10VS**	8.0	11.9	1,000
12	**PHDR-12VS**	10.0	13.9	1,000
14	**PHDR-14VS**	12.0	15.9	1,000
16	**PHDR-16VS**	14.0	17.9	1,000
18	**PHDR-18VS**	16.0	19.9	1,000
20	**PHDR-20VS**	18.0	21.9	1,000
22	**PHDR-22VS**	20.0	23.9	1,000
24	**PHDR-24VS**	22.0	25.9	1,000
26	**PHDR-26VS**	24.0	27.9	1,000
28	**PHDR-28VS**	26.0	29.9	1,000
30	**PHDR-30VS**	28.0	31.9	1,000
32	**PHDR-32VS**	30.0	33.9	1,000
34	**PHDR-34VS**	32.0	35.9	1,000

Material
PA 66, UL94V-0, natural (white)

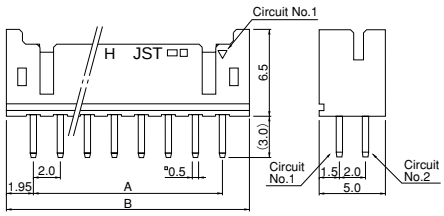
RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

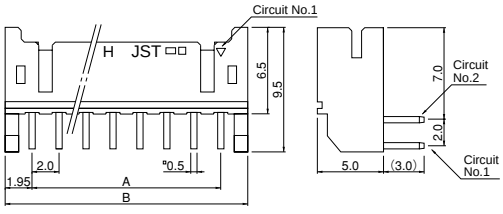
ex. **PHDR-10VS**
S…natural (white)
K…black Y…yellow E…blue R…red

Shrouded header

Top entry type



Side entry type



Cir-cuits	Model No.				Dimensions (mm)		Q'ty / box	
	Glass-filled nylon		Nylon					
	Top entry type	Side entry type	Top entry type	Side entry type	A	B	Top entry type	Side entry type
8	B8B-PHDSS	S8B-PHDSS	—	—	6.0	9.9	500	500
10	B10B-PHDSS	S10B-PHDSS	B10B-PHDSS-B	S10B-PHDSS-B	8.0	11.9	500	500
12	B12B-PHDSS	S12B-PHDSS	B12B-PHDSS-B	S12B-PHDSS-B	10.0	13.9	500	500
14	B14B-PHDSS	S14B-PHDSS	B14B-PHDSS-B	S14B-PHDSS-B	12.0	15.9	500	250
16	B16B-PHDSS	S16B-PHDSS	B16B-PHDSS-B	S16B-PHDSS-B	14.0	17.9	500	250
18	B18B-PHDSS	S18B-PHDSS	B18B-PHDSS-B	S18B-PHDSS-B	16.0	19.9	500	250
20	B20B-PHDSS	S20B-PHDSS	B20B-PHDSS-B	S20B-PHDSS-B	18.0	21.9	250	250
22	B22B-PHDSS	S22B-PHDSS	B22B-PHDSS-B	S22B-PHDSS-B	20.0	23.9	250	250
24	B24B-PHDSS	S24B-PHDSS	B24B-PHDSS-B	S24B-PHDSS-B	22.0	25.9	250	200
26	B26B-PHDSS	S26B-PHDSS	B26B-PHDSS-B	S26B-PHDSS-B	24.0	27.9	250	200
28	B28B-PHDSS	S28B-PHDSS	B28B-PHDSS-B	S28B-PHDSS-B	26.0	29.9	250	200
30	B30B-PHDSS	S30B-PHDSS	B30B-PHDSS-B	S30B-PHDSS-B	28.0	31.9	250	200
32	B32B-PHDSS	S32B-PHDSS	B32B-PHDSS-B	S32B-PHDSS-B	30.0	33.9	250	200
34	B34B-PHDSS	S34B-PHDSS	B34B-PHDSS-B	S34B-PHDSS-B	32.0	35.9	250	200

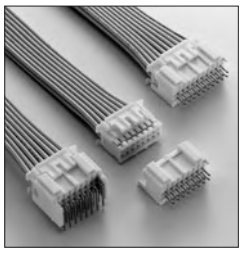
Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural (ivory) PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

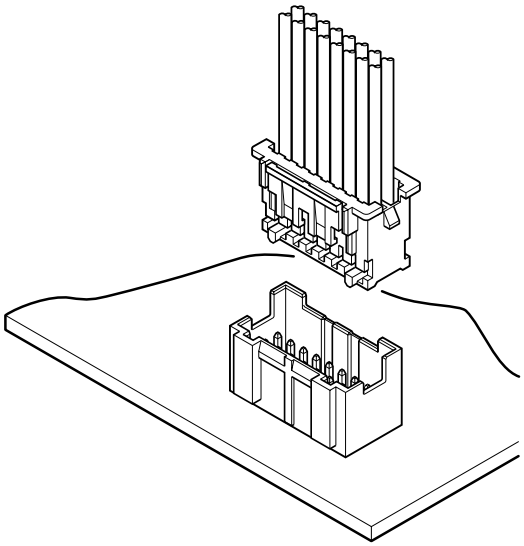
ex. **B10B-PHDSS**
S…natural (ivory)

ex. **B10B-PHDSS-B**
S…natural (white)
K…black Y…yellow E…blue R…red



PAD CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



Dual-row construction allows high density mounting.

- ***Secure locking device***
- ***Reliable contacts***
- ***Insertion guide mechanism***
- ***Polarizing boss***

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

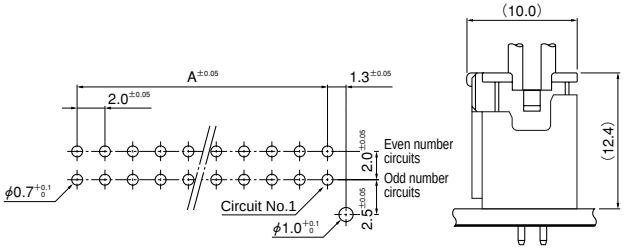
Standards

Recognized E60389

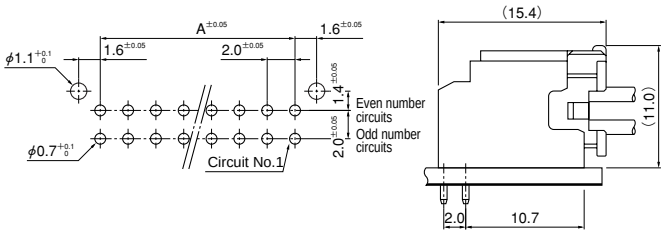
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Top entry type

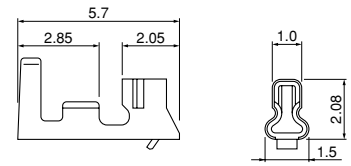


Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

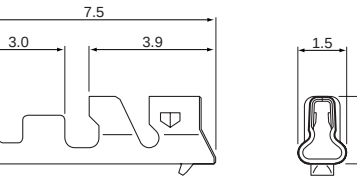
Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SPH-001T-P0.5L	0.13～0.33	26～22	1.0～1.5	8,000
SPH-002T-P0.5L	0.08～0.22	28～24	0.8～1.5	

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SPND-001T-C0.5	0.13～0.33	26～22	1.0～1.5	8,000
SPND-002T-C0.5	0.08～0.22	28～24	0.8～1.5	

Material and Finish
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Note: SPND-( )T-C0.5 is low insertion/withdrawal force type contact, in order to improve the work of insertion/withdrawal.

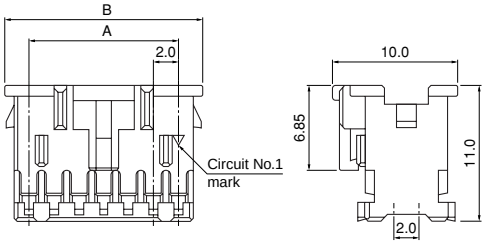
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPH-001T-P0.5L	AP-K2N	MKS-LS・MKS-L	MK/SPH-001-05L	APLMK SPH001-05L
		—	—	—
SPH-002T-P0.5L		MKS-LS・MKS-L	MK/SPH-002-05L	APLMK SPH002-05L
		*MKS-SC	SC/SPH-002-05L	APLSC SPH002-05L

*Note: *Strip-crimp applicator*

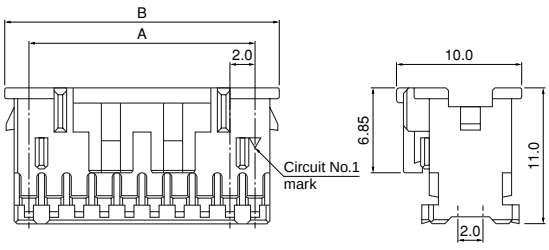
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPND-001T-C0.5	AP-K2N	MKS-LS・MKS-L	MK/SPND-001-05	APLMK SPND001-05
		—	—	—
SPND-002T-C0.5		MKS-LS・MKS-L	MK/SPAD/ND-002-05	APLMK SPAD/ND002-05
		—	—	—

Housing

(14 circuits or less)



(16 circuits or more)



Circuit	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
10	**PADP-10V-1-S**	8.0	12.0	1,000
12	**PADP-12V-1-S**	10.0	14.0	1,000
14	**PADP-14V-1-S**	12.0	16.0	1,000
16	**PADP-16V-1-S**	14.0	18.0	250
20	**PADP-20V-1-S**	18.0	22.0	200
22	**PADP-22V-1-S**	20.0	24.0	1,000
24	**PADP-24V-1-S**	22.0	26.0	1,000
40	**PADP-40V-1-S**	38.0	42.0	500

Material
PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **PADP-16V-1-S**

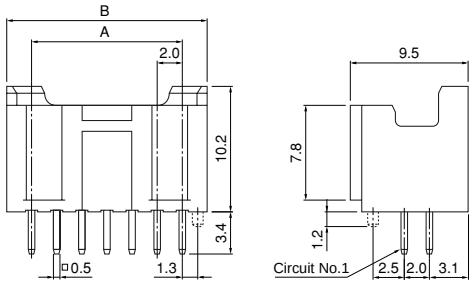
S…natural (white)

K…black R…red Y…yellow E…blue M…green P…purple L…lemon yellow

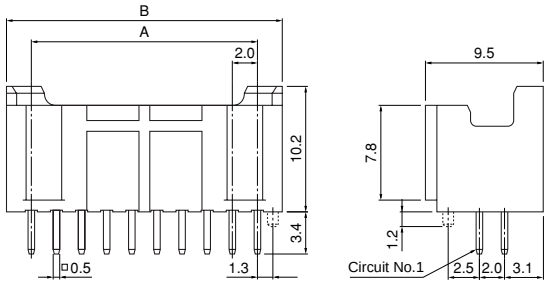
Shrouded header

Top entry type

(14 circuits or less)

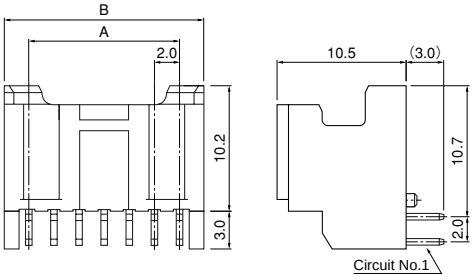


(16 circuits or more)

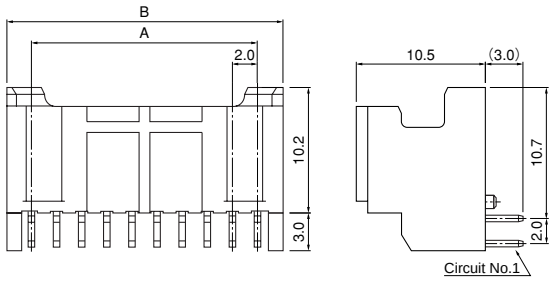


Side entry type

(14 circuits or less)



(16 circuits or more)



Circuit	Model No.			Dimensions (mm)		Q'ty / box	
	Top entry type		Side entry type				
	With a boss	Without a boss		A	B	Top entry type	Side entry type
10	B10B-PADSS-1F	B10B-PADSS-F	S10B-PADSS-1	8.0	12.0	400	504
12	B12B-PADSS-1F	B12B-PADSS-F	S12B-PADSS-1	10.0	14.0	300	420
14	B14B-PADSS-1F	B14B-PADSS-F	S14B-PADSS-1	12.0	16.0	300	364
16	B16B-PADSS-1F	B16B-PADSS-F	S16B-PADSS-1	14.0	18.0	200	336
20	B20B-PADSS-1F	B20B-PADSS-F	S20B-PADSS-1	18.0	22.0	150	280
22	B22B-PADSS-1F	B22B-PADSS-F	–	20.0	24.0	150	–
24	B24B-PADSS-1F	B24B-PADSS-F	S24B-PADSS-1	22.0	26.0	150	224
40	B40B-PADSS-1F	–	–	38.0	42.0	100	–

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PBT, UL94V-0, (natural) [side entry type] Glass-filled PA 66, UL94V-0, (natural) [top entry type]

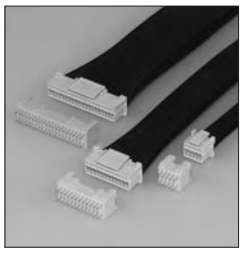
RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B16B-PADSS(-1F)**

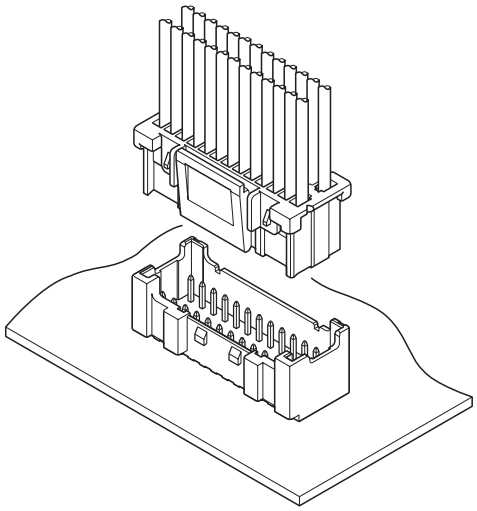
S…natural (white)

K…black R…red Y…yellow E…blue M…green P…purple L…lemon yellow



PND CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



The PND connector is the high-density dipping type connector with secure lock for wire to board connection and enabled to achieve excellent workability and withstand the unexpected external force.

- ***Superior operability (Low insertion force)***
- ***Withstanding external force and secure locking device***
- ***Countermeasure for inverse insertion and mismatching insertion***
- ***High density***
- ***Polarizing boss***

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max. After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22

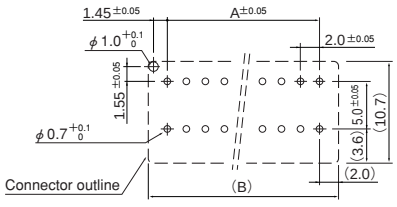
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

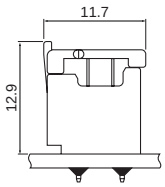
Standards

Recognized E60389

Certified LR20812

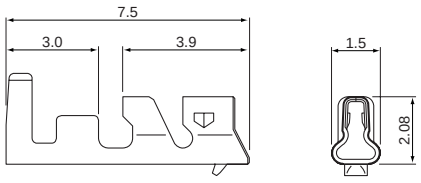
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



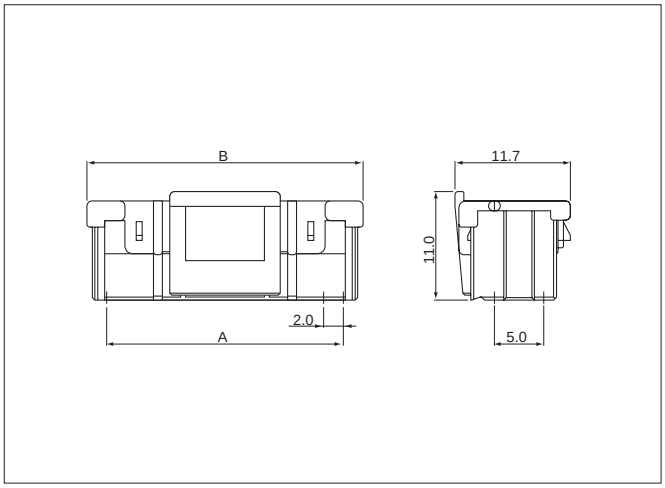
Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SPND-001T-C0.5	0.13～0.33	26～22	1.0～1.5	8,000
SPND-002T-C0.5	0.08～0.22	28～24	0.8～1.5	

Material and Finish
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPND-001T-C0.5	AP-K2N	MKS-LS・MKS-L	MK/SPND-001-05	APLMK SPND001-05
		—	—	—
SPND-002T-C0.5		MKS-LS・MKS-L	MK/SPAD/ND-002-05	APLMK SPAD/ND002-05
		—	—	—

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
8	**PNDP-08V-Z**	6.0	10.0	500
10	**PNDP-10V-Z**	8.0	12.0	500
12	**PNDP-12V-Z**	10.0	14.0	500
14	**PNDP-14V-Z**	12.0	16.0	500
16	**PNDP-16V-Z**	14.0	18.0	300
18	**PNDP-18V-Z**	16.0	20.0	300
20	**PNDP-20V-Z**	18.0	22.0	300
22	**PNDP-22V-Z**	20.0	24.0	300
24	**PNDP-24V-Z**	22.0	26.0	250
26	**PNDP-26V-Z**	24.0	28.0	250
28	**PNDP-28V-Z**	26.0	30.0	250
30	**PNDP-30V-Z**	28.0	32.0	150
32	**PNDP-32V-Z**	30.0	34.0	150
34	**PNDP-34V-Z**	32.0	36.0	150
36	**PNDP-36V-Z**	34.0	38.0	100
38	**PNDP-38V-Z**	36.0	40.0	100
40	**PNDP-40V-Z**	38.0	42.0	100

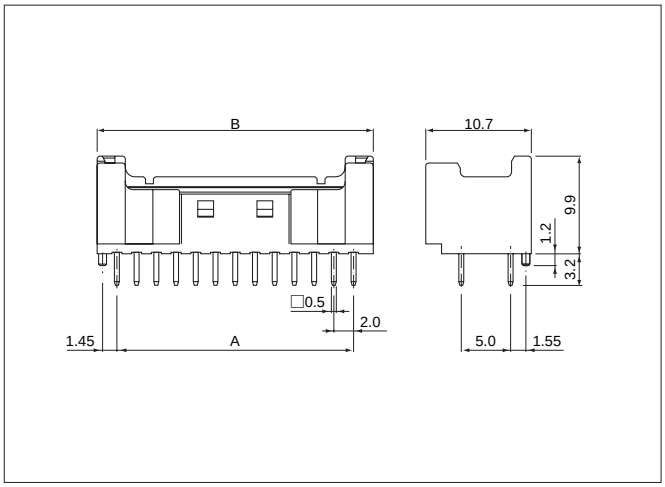
Material
PA 66, UL94V-0, ivory

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PNDP-28V-Z**
Z…ivory
K…black R…red E…blue M…green N…brown PK…pink
D…orange

Shrouded header



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	With boss	Without boss	A	B	
8	**B08B-PNDZS-1**	**B08B-PNDZS**	6.0	10.0	736
10	**B10B-PNDZS-1**	**B10B-PNDZS**	8.0	12.0	608
12	**B12B-PNDZS-1**	**B12B-PNDZS**	10.0	14.0	512
14	**B14B-PNDZS-1**	**B14B-PNDZS**	12.0	16.0	448
16	**B16B-PNDZS-1**	**B16B-PNDZS**	14.0	18.0	416
18	**B18B-PNDZS-1**	**B18B-PNDZS**	16.0	20.0	352
20	**B20B-PNDZS-1**	**B20B-PNDZS**	18.0	22.0	320
22	**B22B-PNDZS-1**	**B22B-PNDZS**	20.0	24.0	288
24	**B24B-PNDZS-1**	**B24B-PNDZS**	22.0	26.0	288
26	**B26B-PNDZS-1**	**B26B-PNDZS**	24.0	28.0	256
28	**B28B-PNDZS-1**	**B28B-PNDZS**	26.0	30.0	224
30	**B30B-PNDZS-1**	**B30B-PNDZS**	28.0	32.0	224
32	**B32B-PNDZS-1**	**B32B-PNDZS**	30.0	34.0	192
34	**B34B-PNDZS-1**	**B34B-PNDZS**	32.0	36.0	192
36	**B36B-PNDZS-1**	**B36B-PNDZS**	34.0	38.0	192
38	**B38B-PNDZS-1**	**B38B-PNDZS**	36.0	40.0	160
40	**B40B-PNDZS-1**	**B40B-PNDZS**	38.0	42.0	160

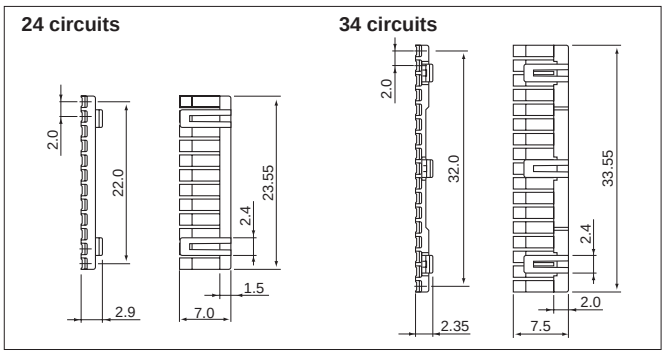
Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, ivory

RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B28B-PNDZS-1**
Z…ivory
K…black R…red E…blue M…green
N…brown PK…pink D…orange

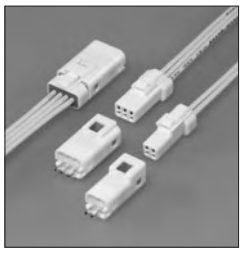
Retainer



Circuits	Model No.	Q'ty / bag
24	**PNDS-24V-Z**	1,000
34	**PNDS-34V-Z**	1,000

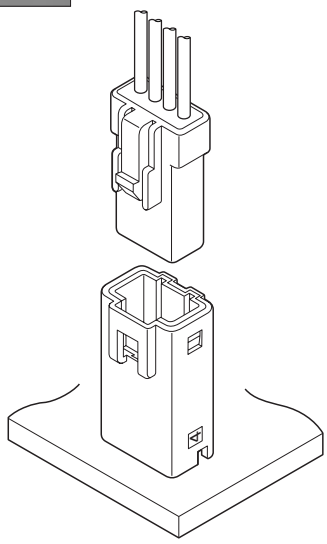
Material
Glass-filled PA 66, UL94V-0, ivory

RoHS compliance



JWPF CONNECTOR

2.0mm pitch/Disconnectable Crimp style connectors



Applicable for waterproof usage. Its waterproof grade is more than 7 ingress protection of JIC C 0920 (IEC 60529 IPX7).

- ***Waterproof performance***
- ***Contained seal ring***
- ***Solid rubber seal***
- ***Double-spring construction***
- ***Housing-to-terminal locks***
- ***Inner housing lock***
- ***Interchangeability***
- ***Header for use specifically with resin coated ("potted") PC board***

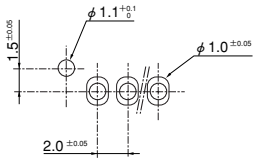
Specifications

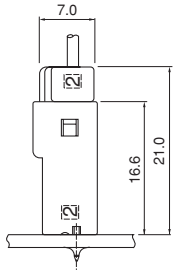
- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -40˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/5m Ω max.
  After environmental testing/10m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #26 to #22
  0.13 to 0.33mm²
  Insulation O.D./1.4 to 1.6mm
- Waterproof grade: More than grade 7 ingress protection of JIS C 0920 (IEC 60529 IPX7).

Standards

Recognized E60389

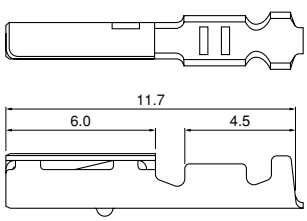
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimension differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D (mm)	Q'ty / reel
	mm²	AWG#		
SWPR-001T-P025	0.13～0.33	26～22	1.4～1.6	8,200

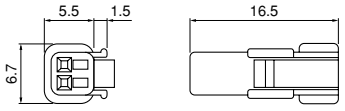
Material and Finish
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

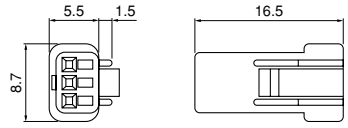
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPR-001T-P025	AP-K2N	MKS-L	MK/SWPR/T-001-025	APLMK SWPR/T001-025
		–	–	–

Housing

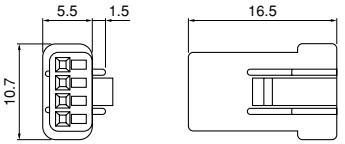
(2 circuits)



(3 circuits)



(4 circuits)



Circuits	Model No.	Q'ty / bag
2	**02R-JWPF-VSLE-S**	1,000
3	**03R-JWPF-VSLE-S**	1,000
4	**04R-JWPF-VSLE-S**	1,000

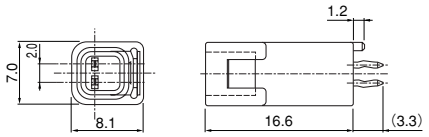
Material
PBT, UL94V-0, natural (white)

RoHS compliance

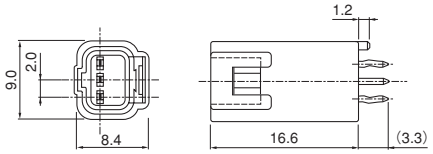
Note: Housing comes with seal rubber plate.

Shrouded header

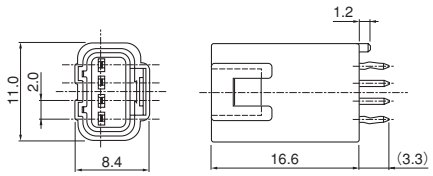
(2 circuits)



(3 circuits)



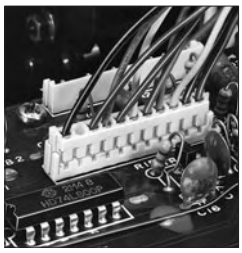
(4 circuits)



Circuits	Model No.	Q'ty / box
2	**B02B-JWPF-SK-R**	825
3	**B03B-JWPF-SK-R**	650
4	**B04B-JWPF-SK-R**	525

Material and Finish
Press pin: Copper alloy, tin-plated (reflow treatment) Seal ring: Silicon rubber Seal ring holder: PBT, UL94V-0, yellow Wafer: Glass-filled PBT, UL94V-0, natural (white)

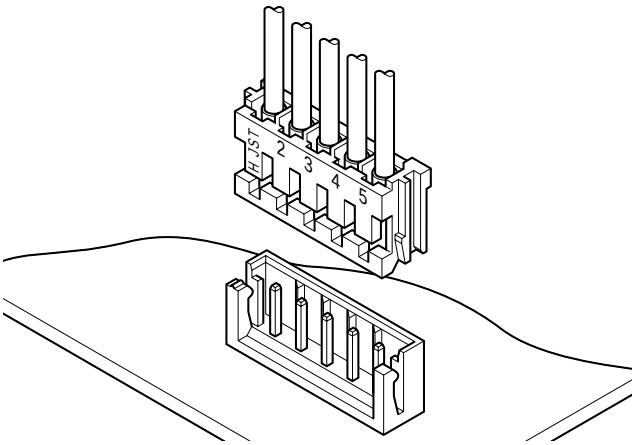
RoHS compliance *This product displays (LF)(SN) on a label.*



EH CONNECTOR

Radial Tape

2.5mm pitch/Disconnectable Crimp style connectors



This, the thinnest, 2.5mm pitch connector, is 8.1mm in height after mounting and 3.8mm in width. It is designed to meet the demand for the high-density connection of internal wires to printed circuit boards. It is compact, highly reliable and low in cost.

- ***Compact and slim***
- ***Highly reliable contact***
- ***Polarizing guides***
- ***Easy and effective crimping***

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #32 to #22
- Applicable PC board thickness: 0.8 to 1.6mm

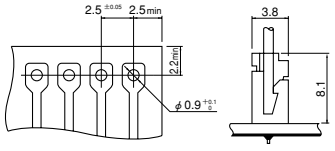
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

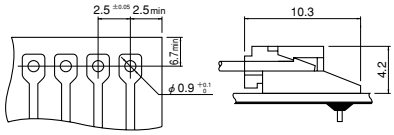
Recognized E60389
Certified LR20812
R50082349

PC board layout (viewed from soldering side) and Assembly layout

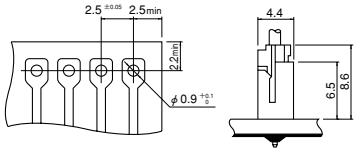
Top entry type



Side entry type

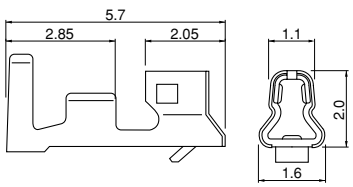


Radial-tape



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimension differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SEH-001T-P0.6	0.05 ~ 0.33	30~22	1.0~1.9	9,000
***SEH-001T-P0.6L**	0.13 ~ 0.33	26~22	0.9~1.9	
***SEH-002T-P0.6L**	0.05 ~ 0.13	30~26	0.9~1.3	
***SEH-003T-P0.6L**	0.032~0.08	32~28	0.5~1.1	10,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

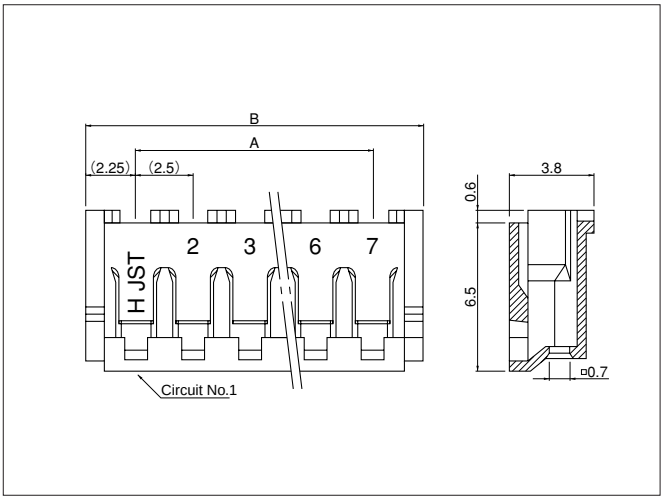
Note: 1. Contact JST for gold-plated products.
2. SEH-00( )T-P0.6L is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard contact.
*3. *Marked products are not TÜV approved.*
4. Contact JST for details.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SEH-001T-P0.6	AP-K2N	MKS-LS・MKS-L	MK/SEH-001-06	APLMK SEH001-06
		*MKS-SC	SC/SEH-001-06	APLSC SEH001-06
SEH-001T-P0.6L		MKS-LS・MKS-L	MK/SEH-001-06L	APLMK SEH001-06L
		*MKS-SC	SC/SEH-001-06L	APLSC SEH001-06L

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SEH-002T-P0.6L	AP-K2N	MKS-LS・MKS-L	MK/SEH-002-06L	APLMK SEH002-06L
		—	—	—
SEH-003T-P0.6L		MKS-L-10	MK/SEH-003-06L	APLMK SEH003-06L
		*MKS-SC-10	SC/SEH-003-06L	APLSC SEH003-06L

*Note: *Strip-crimp applicator*

Housing



Cir-cuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	**EHR-2**	2.5	7.0	1,000
3	**EHR-3**	5.0	9.5	1,000
4	**EHR-4**	7.5	12.0	1,000
5	**EHR-5**	10.0	14.5	1,000
6	**EHR-6**	12.5	17.0	1,000
7	**EHR-7**	15.0	19.5	1,000
8	**EHR-8**	17.5	22.0	1,000
9	**EHR-9**	20.0	24.5	1,000
10	**EHR-10**	22.5	27.0	1,000
11	**EHR-11**	25.0	29.5	1,000
12	**EHR-12**	27.5	32.0	1,000
13	**EHR-13**	30.0	34.5	1,000
14	**EHR-14**	32.5	37.0	1,000
15	**EHR-15**	35.0	39.5	1,000

Material
PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **EHR-2-oo**

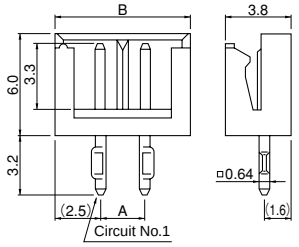
(blank)…natural (white)
K…black R…red TR…tomato red E…blue Y…yellow
L…lemon yellow M…green O…orange N…brown PL…purple
PK…pink H…gray LE…light blue FY…vivid yellow

Shrouded header

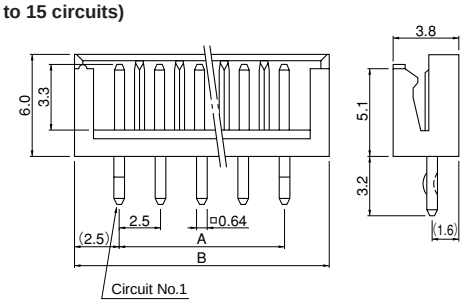
The shrouded headers are interchangeable with those of the HR crimp style and insulation displacement connectors.

Top entry type

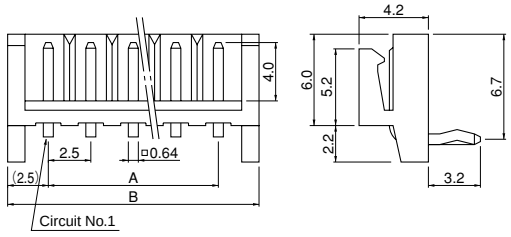
(2 circuits)



(3 to 15 circuits)



Side entry type



Cir-cuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	**B2B-EH-A**	**S2B-EH**	2.5	7.5	1,000	1,000
3	**B3B-EH-A**	**S3B-EH**	5.0	10.0	1,000	1,000
4	**B4B-EH-A**	**S4B-EH**	7.5	12.5	1,000	1,000
5	**B5B-EH-A**	**S5B-EH**	10.0	15.0	1,000	1,000
6	**B6B-EH-A**	**S6B-EH**	12.5	17.5	1,000	500
7	**B7B-EH-A**	**S7B-EH**	15.0	20.0	1,000	500
8	**B8B-EH-A**	**S8B-EH**	17.5	22.5	500	500
9	**B9B-EH-A**	**S9B-EH**	20.0	25.0	500	500
10	**B10B-EH-A**	**S10B-EH**	22.5	27.5	500	500
11	**B11B-EH-A**	**S11B-EH**	25.0	30.0	500	250
12	**B12B-EH-A**	**S12B-EH**	27.5	32.5	500	250
13	**B13B-EH-A**	**S13B-EH**	30.0	35.0	250	250
14	**B14B-EH-A**	**S14B-EH**	32.5	37.5	250	250
15	**B15B-EH-A**	**S15B-EH**	35.0	40.0	250	250

Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*

Note: Also available and identified as model BxxB-EH is a top entry type having a post extension length of 4.0mm

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

<Top entry type>

ex. **B2B-EH-A-oo**

(blank)…natural (white)
K…black R…red E…blue Y…yellow M…green

<Side entry type>

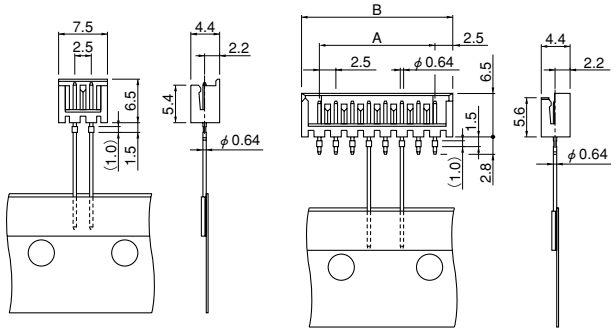
ex. **S2B-EH-oo**

(blank)…natural (white)
K…black R…red TR…tomato red E…blue Y…yellow
L…lemon yellow M…green O…orange N…brown P…purple
PK…pink H…gray LE…light blue FY…vivid yellow

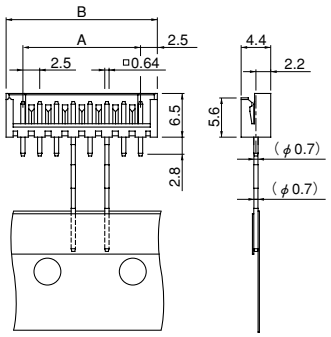
Shrouded header on radial-tape

●**TS type**

(2 circuits) **(3 to 8 circuits)**



●**TV4 type**



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	TS type	TV4 type	A	B	
2	**B2B-EH-TS**	—	—	—	1,400
3	**B3B-EH-TS**	**B3B-EH-TV4**	5.0	10.0	1,400
4	**B4B-EH-TS**	**B4B-EH-TV4**	7.5	12.5	700
5	**B5B-EH-TS**	**B5B-EH-TV4**	10.0	15.0	700
6	**B6B-EH-TS**	**B6B-EH-TV4**	12.5	17.5	700
7	**B7B-EH-TS**	**B7B-EH-TV4**	15.0	20.0	700
8	**B8B-EH-TS**	**B8B-EH-TV4**	17.5	22.5	700

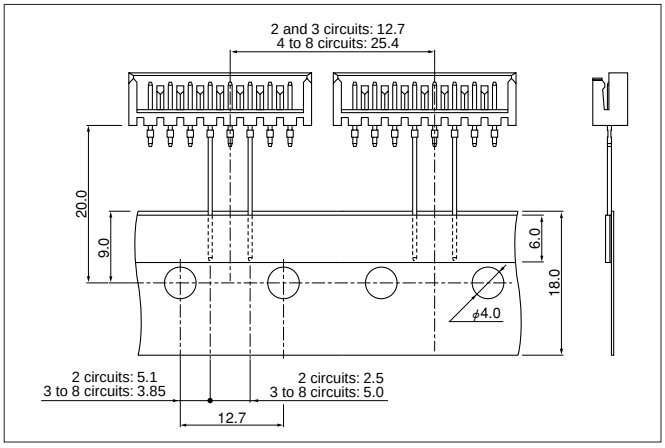
Material and Finish
Pin/Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*

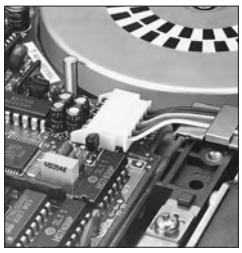
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-EH-TS-oo**
(blank)…natural (white)
K…black R…red E…blue Y…yellow M…green N…brown

Taping specifications



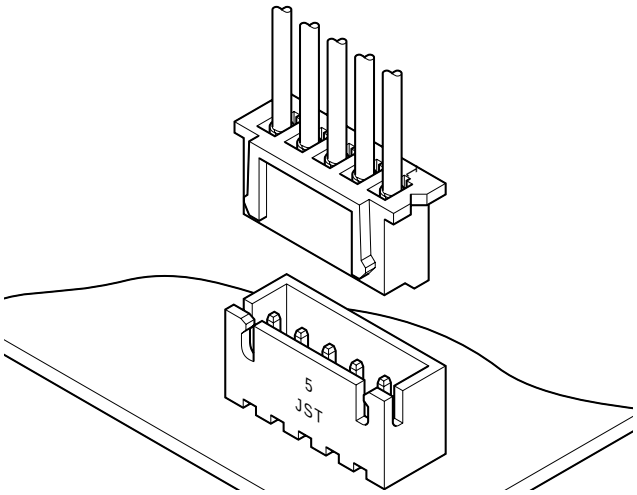
Note: Conforms to JIS C 0806.



XH CONNECTOR

Emboss Tape | Radial Tape

2.5mm pitch/Disconnectable Crimp style connectors



The XH connector was developed based on the high reliability and versatility of our NH series connectors. The connector is very small with a mounting height of 9.8mm.

- ***Original folded beam contact***
- ***Box-shaped shrouded header***
- ***Header with a boss***
- ***Interchangeability***
- ***Conforming to the HA terminal***

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #30 to #22
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

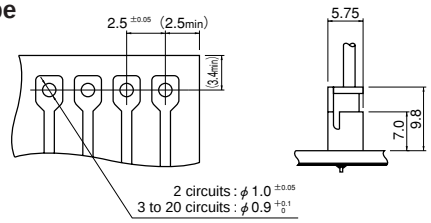
Certified LR20812

J50014297

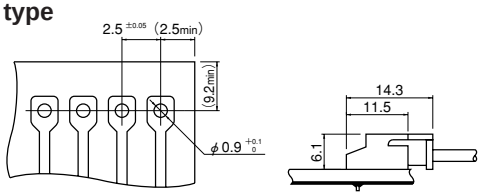
PC board layout and Assembly layout

〈Through-hole type (viewed from soldening side)〉

Top entry type

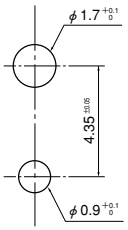


Side entry type

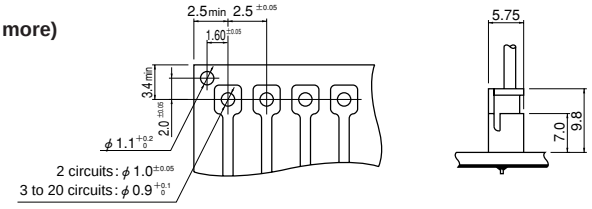


Top entry type with a boss

(1 circuit)



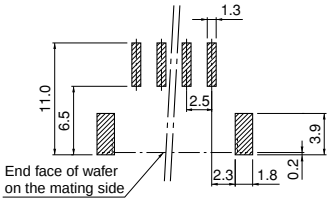
(2 circuits or more)



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

〈SMT type (viewed from component side)〉

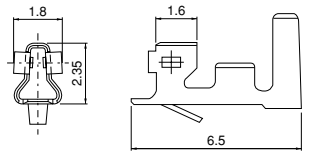
Side entry type



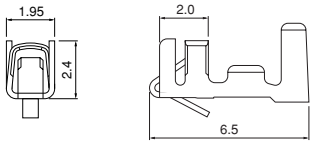
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact

●Shape A



●Shape B



Model No.	Shape	Applicable Wire		Insulation O.D (mm)	Q'ty / reel
		mm²	AWG#		
SXH-001T-P0.6N	A	0.13～0.33	26～22	1.3～1.9	5,000
SXH-001T-P0.6	B	0.08～0.33	28～22	0.9～1.9	8,000
SXH-002T-P0.6		0.05～0.13	30～26	0.9～1.3	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note:

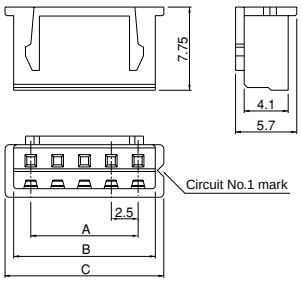
1. Contact JST if you require gold-plated contacts or contacts made of brass.
2. Contact JST also if you require shielded wires, thin wires or other special wires.
3. SXH-001T-P0.6N is low-insertion force type contact, for easier insertion/ withdrawal, which would be less resistant to the vibration.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXH-001T-P0.6N	AP-K2N	MKS-LS・MKS-L	MK/SXH-001-06N	APLMK SXH001-06N
		*MKS-SC	SC/SXH-001-06N	APLSC SXH001-06N
SXH-001T-P0.6		MKS-LS・MKS-L	MK/SXH-001-06	APLMK SXH001-06
		*MKS-SC	SC/SXH-001-06	APLSC SXH001-06

*Note: *Strip-crimp applicator*

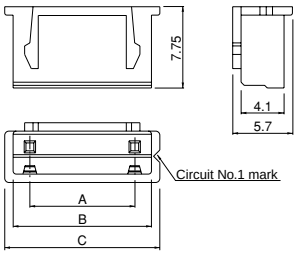
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXH-002T-P0.6	AP-K2N	MKS-LS・MKS-L	MK/SXH-002-06	APLMK SXH002-06
		*MKS-SC	SC/SXH-002-06	APLSC SXH002-06

Housing

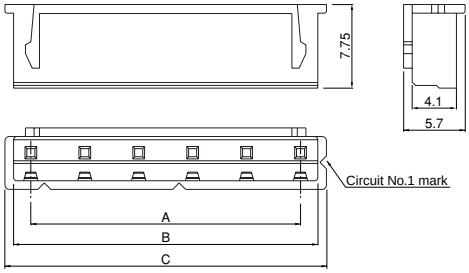


●Plugged up

(2 circuits 10.0mm pitch)



(6 circuits 5.0mm pitch)



Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
1	**XHP-1**	—	3.2	4.8	1,000
2	**XHP-2**	2.5	5.7	7.3	1,000
2	**XHP-2(10.0)-U**	10.0	13.2	14.8	1,000
3	**XHP-3**	5.0	8.2	9.8	1,000
4	**XHP-4**	7.5	10.7	12.3	1,000
5	**XHP-5**	10.0	13.2	14.8	1,000
6	**XHP-6**	12.5	15.7	17.3	1,000
6	**XHP-6(5.0)-U**	25.0	28.2	29.8	1,000
7	**XHP-7**	15.0	18.2	19.8	1,000
8	**XHP-8**	17.5	20.7	22.3	1,000
9	**XHP-9**	20.0	23.2	24.8	1,000
10	**XHP-10**	22.5	25.7	27.3	1,000
11	**XHP-11**	25.0	28.2	29.8	1,000
12	**XHP-12**	27.5	30.7	32.3	1,000
13	**XHP-13**	30.0	33.2	34.8	1,000
14	**XHP-14**	32.5	35.7	37.3	1,000
15	**XHP-15**	35.0	38.2	39.8	1,000
16	**XHP-16**	37.5	40.7	42.3	1,000
20	**XHP-20**	47.5	50.7	52.3	500

Material

PA 6, UL94V-0, natural (white)

RoHS compliance

Note:

1. XHP-2(10.0)-U is 2 circuits 10.0mm pitch plugged up. Not UL/CSA/TÜV approved.
2. XHP-6(5.0)-U is 6 circuits 5.0mm pitch plugged up. Not UL/CSA/TÜV approved.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **XHP-1-oo**
(blank)…natural (white)
BK…black R…red E…blue Y…yellow L…lemon yellow
M…green D…orange N…brown FY…vivid yellow

<Plugged up type>

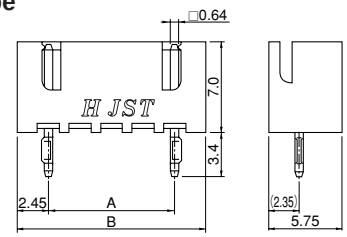
ex. **XHP-2(10.0)-U-oo**
(blank)…natural (white)
R…red E…blue

Through-hole type shrounded header

The shrouded headers are interchangeable with those of the NR and NRD insulation displacement connectors, and JQ board-to-board connectors.

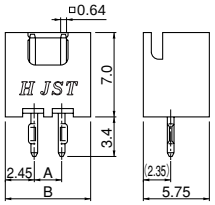
Top entry type

●plugged up

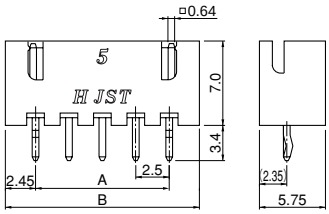


Top entry type

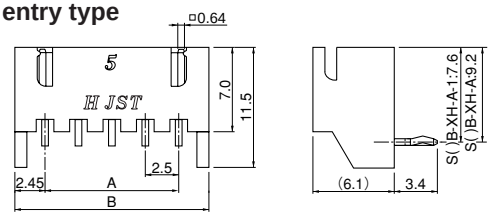
(2 circuits)



(3 to 20 circuits)



Side entry type



Circuits	Model No.			Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type		A	B	Top entry type	Side entry type
2	B2B-XH-A	S2B-XH-A-1	S2B-XH-A	2.5	7.4	1,000	1,000
2	B2(10.0)B-XH-A-U	–	–	10.0	14.9	1,000	–
3	B3B-XH-A	S3B-XH-A-1	S3B-XH-A	5.0	9.9	1,000	1,000
4	B4B-XH-A	S4B-XH-A-1	S4B-XH-A	7.5	12.4	500	500
5	B5B-XH-A	S5B-XH-A-1	S5B-XH-A	10.0	14.9	500	500
6	B6B-XH-A	S6B-XH-A-1	S6B-XH-A	12.5	17.4	500	500
7	B7B-XH-A	S7B-XH-A-1	S7B-XH-A	15.0	19.9	500	250
8	B8B-XH-A	S8B-XH-A-1	S8B-XH-A	17.5	22.4	250	250
9	B9B-XH-A	S9B-XH-A-1	S9B-XH-A	20.0	24.9	250	250
10	B10B-XH-A	S10B-XH-A-1	S10B-XH-A	22.5	27.4	250	250
11	B11B-XH-A	S11B-XH-A-1	S11B-XH-A	25.0	29.9	250	250
12	B12B-XH-A	S12B-XH-A-1	S12B-XH-A	27.5	32.4	250	200
13	B13B-XH-A	S13B-XH-A-1	S13B-XH-A	30.0	34.9	250	200
14	B14B-XH-A	S14B-XH-A-1	S14B-XH-A	32.5	37.4	250	200
15	B15B-XH-A	S15B-XH-A-1	S15B-XH-A	35.0	39.9	250	100
16	B16B-XH-A	–	S16B-XH-A	37.5	42.4	200	100
20	B20B-XH-A	–	–	47.5	52.4	100	–

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*

Note: B2(10.0)B-XH-A-U is 2 circuits 10.0mm pitch plugged up.
Not UL/CSA/TÜV approved.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

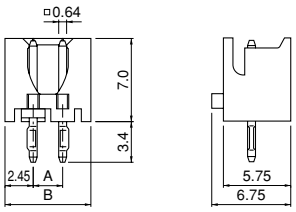
ex. **S3B-XH-A(-1)-oo**

(blank)…natural (white)
BK…black R…red E…blue Y…yellow L…lemon yellow
M…green D…orange N…brown FY…vivid yellow

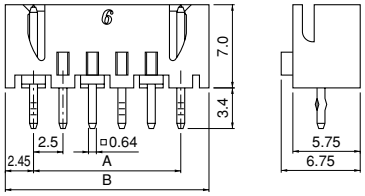
Through-hole type shrounded header

Top entry type of glass-filled nylon

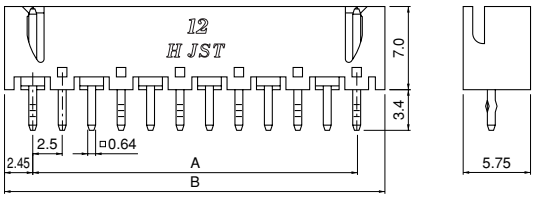
(2 circuits)



(3 to 8 circuits)



(9 to 15 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
2	B2B-XH-2	2.5	7.4	1,000
3	B3B-XH-2	5.0	9.9	1,000
4	B4B-XH-2	7.5	12.4	500
5	B5B-XH-2	10.0	14.9	500
6	B6B-XH-2	12.5	17.4	500
7	B7B-XH-2	15.0	19.9	500
8	B8B-XH-2	17.5	22.4	250
9	B9B-XH-2	20.0	24.9	250
10	B10B-XH-2	22.5	27.4	250
11	B11B-XH-2	25.0	29.9	250
12	B12B-XH-2	27.5	32.4	250
13	B13B-XH-2	30.0	34.9	250
14	B14B-XH-2	32.5	37.4	250
15	B15B-XH-2	35.0	39.9	250

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-XH-2-oo**

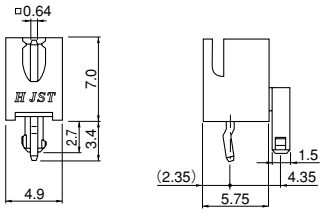
(blank)…natural (ivory)
C…black R…red E…blue Y…yellow M…green

Through-hole type shrouded header

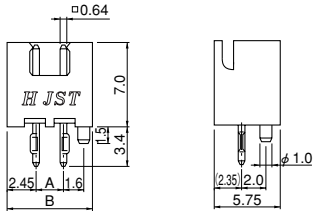
The shrouded headers are interchangeable with those of the NR and NRD insulation displacement connectors, and JQ board-to-board connectors.

Top entry type with a boss

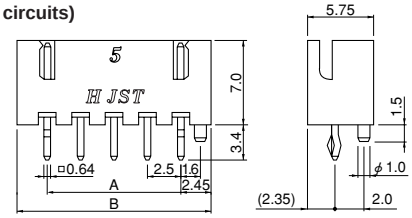
(1 circuit)



(2 circuits)



(3 to 12 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
1	***B1B-XH-AM**	—	—	1,000
2	**B2B-XH-AM**	2.5	7.4	1,000
3	**B3B-XH-AM**	5.0	9.9	1,000
4	**B4B-XH-AM**	7.5	12.4	500
5	**B5B-XH-AM**	10.0	14.9	500
6	**B6B-XH-AM**	12.5	17.4	500
7	**B7B-XH-AM**	15.0	19.9	500
8	**B8B-XH-AM**	17.5	22.4	250
9	**B9B-XH-AM**	20.0	24.9	250
10	**B10B-XH-AM**	22.5	27.4	250
12	**B12B-XH-AM**	27.5	32.4	250

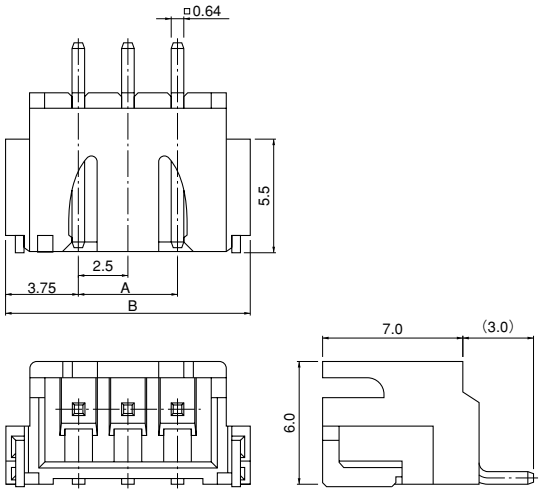
Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*
*Note: *Marked product is not UL/CSA/TÜV approved.*

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B1B-XH-AM-oo**
(blank)…natural (white)
BK…black R…red E…blue Y…yellow L…lemon yellow
M…green

SMT type shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
3	**S3B-XH-SM4-TB**	5.0	12.5	500
4	**S4B-XH-SM4-TB**	7.5	15.0	500
6	**S6B-XH-SM4-TB**	12.5	20.0	500

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 6T, UL94V-0, natural (ivory) Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: The products listed above are supplied on embossed-tape.

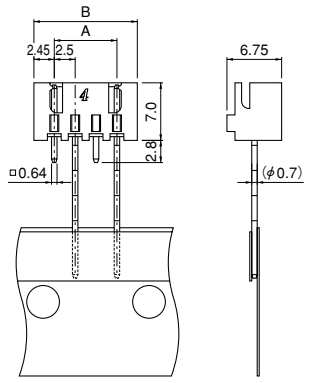
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **S3B-XH-SM4-oo-TB**
(blank)…natural (ivory)
M…green R…red E…blue L…lemon yellow

Through-hole type shrouded header on radial-tape

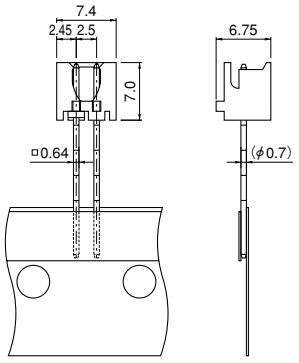
TV4 type

(3 to 4 circuits)



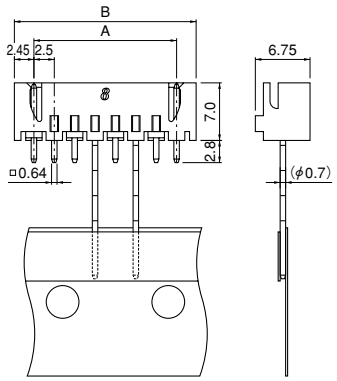
2-TV4 type

(2 circuits)



2-TV4 type

(3 to 8 circuits)



Circuits	Model No.		Dimensions (mm)		Q'ty/box
	TV4	2-TV4	A	B	
2	—	**B2B-XH-2-TV4**	—	—	1,000
3	**B3B-XH-TV4**	**B3B-XH-2-TV4**	5.0	9.9	1,000
4	**B4B-XH-TV4**	**B4B-XH-2-TV4**	7.5	12.4	500
5	—	**B5B-XH-2-TV4**	10.0	14.9	500
6	—	**B6B-XH-2-TV4**	12.5	17.4	500
7	—	**B7B-XH-2-TV4**	15.0	19.9	500
8	—	**B8B-XH-2-TV4**	17.5	22.4	500

Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: TV4 type/ PA 66, UL94V-0, natural (white) 2-TV4 type/ Glass-filled PA 66, UL94V-0, natural (ivory)

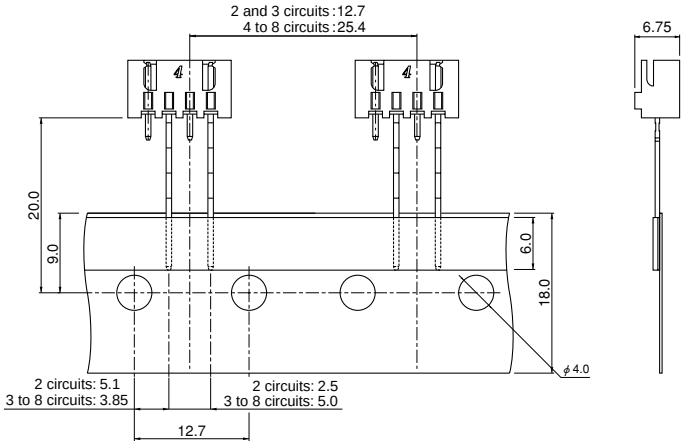
RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

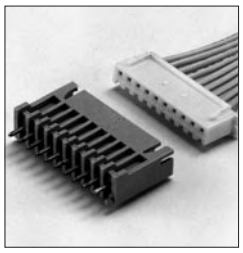
ex. **B2B-XH-2-TV4-oo**

(blank)…natural (TV4 type/white, 2-TV4 type/ivory)
C…black (glass-filled) BK…black R…red E…blue Y…yellow M…green

Taping specification

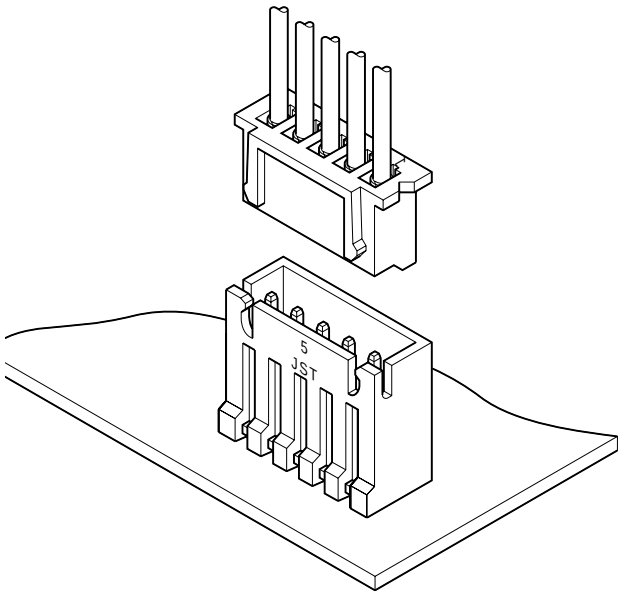


Note: Conforms to JIS C 0806.



XH CONNECTOR ⟨High box type⟩

2.5mm pitch/Disconnectable Crimp style connectors



XH connector high box type, with 17.0mm mounting height and with 5.8mm thickness.

- ***Header for 2.5mm pitch XH connector for use specifically with resin coated ("potted") PC boards***
- ***Interchangeability***

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #30 to #22
- Applicable PC board thickness: 1.6mm

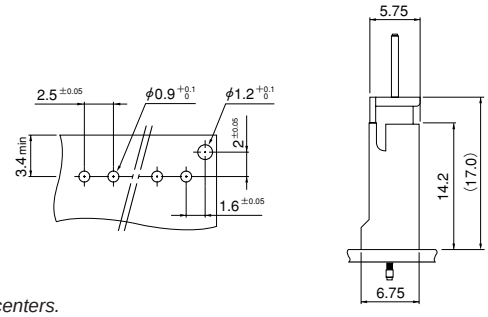
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

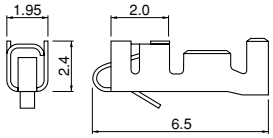
Certified LR20812

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SXH-001T-P0.6	0.08～0.33	28～22	1.2～1.9	8,000
SXH-002T-P0.6	0.05～0.13	30～26	0.9～1.3	

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: 1. Contact JST if you requier gold-plated contacts or contacts made of brass.
2. Contact JST also if you require shielded wires, thin wires or other special wires.

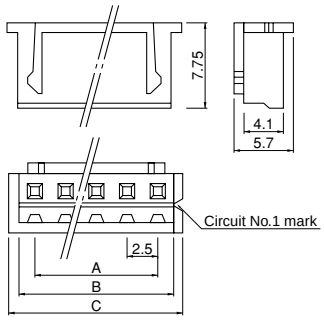
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXH-001T-P0.6	AP-K2N	MKS-LS・MKS-L	MK/SXH-001-06	APLMK SXH001-06
		*MKS-SC	SC/SXH-001-06	APLSC SXH001-06

*Note: *Strip-crimp applicator*

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXH-002T-P0.6	AP-K2N	MKS-LS・MKS-L	MK/SXH-002-06	APLMK SXH002-06
		*MKS-SC	SC/SXH-002-06	APLSC SXH002-06

XH CONNECTOR〈High box type〉

Housing



Circuits	Model No.	Dimensions (mm)			Q'ty / bag
		A	B	C	
2	**XHP-2**	2.5	5.7	7.3	1,000
3	**XHP-3**	5.0	8.2	9.8	1,000
4	**XHP-4**	7.5	10.7	12.3	1,000
5	**XHP-5**	10.0	13.2	14.8	1,000
6	**XHP-6**	12.5	15.7	17.3	1,000
7	**XHP-7**	15.0	18.2	19.8	1,000
8	**XHP-8**	17.5	20.7	22.3	1,000
9	**XHP-9**	20.0	23.2	24.8	1,000
10	**XHP-10**	22.5	25.7	27.3	1,000

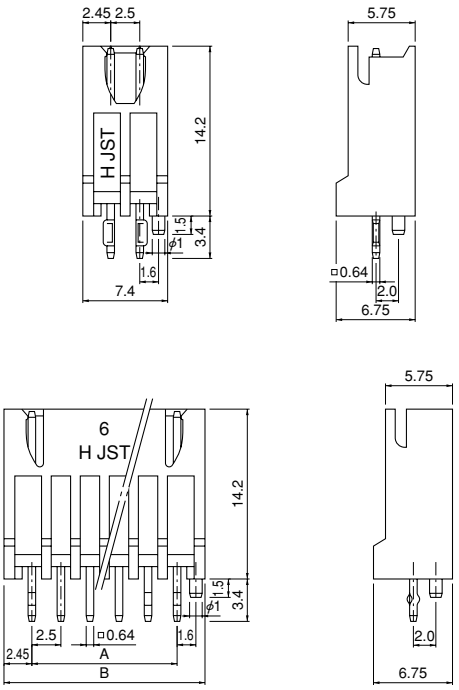
Material
PA 6, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **XHP-2-oo**
(blank)…natural (white)
BK…black R…red E…blue Y…yellow M…green

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	**BH2B-XH-2**	2.5	7.4	700
3	**BH3B-XH-2**	5.0	9.9	500
4	**BH4B-XH-2**	7.5	12.4	300
5	**BH5B-XH-2**	10.0	14.9	300
6	**BH6B-XH-2**	12.5	17.4	250
7	**BH7B-XH-2**	15.0	19.9	200
8	**BH8B-XH-2**	17.5	22.4	150
9	**BH9B-XH-2**	20.0	24.9	150
10	**BH10B-XH-2**	22.5	27.4	150

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance *This product displays (LF)(SN) on a label.*

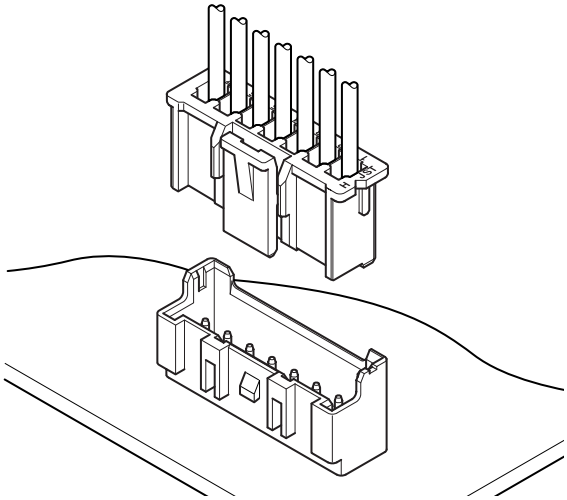
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BH2B-XH-2-oo**
(blank)…natural (ivory)
R…red C…black E…blue Y…yellow M…green

XA CONNECTOR

Emboss Tape | Radial Tape

2.5mm pitch/Disconnectable Crimp style connectors



- ***Locking device***
- ***Solder crack preventive material***
- ***Low insertion force***
- ***Insertion guide mechanism***
- ***Applicable to automatic board mounting machine***
- ***Polarizing boss***

Specifications

- Current rating: 3A AC DC (AWG #22, #20)
- Voltage rating: 250V AC DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #28 to #20
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

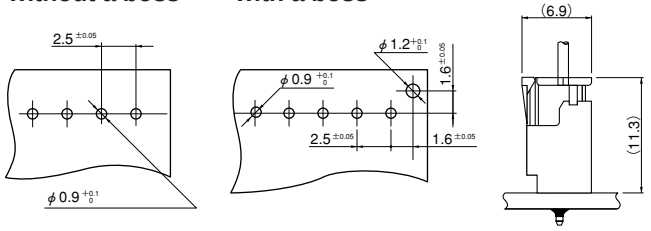
Recognized E60389
Certified LR20812
R9851220

PC board layout (viewed from component side) and Assembly layout

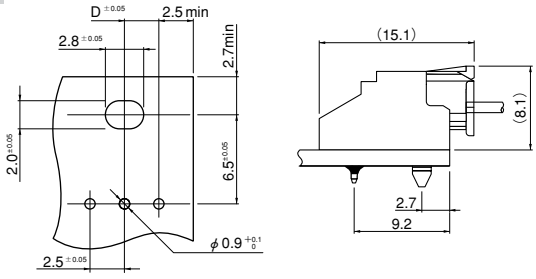
〈Through-hole type〉

Top entry type

without a boss **with a boss**



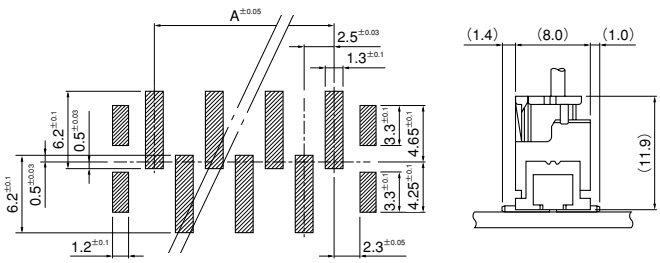
Side entry type



Dimension D: Refer to the Model No. chart of header side entry type.

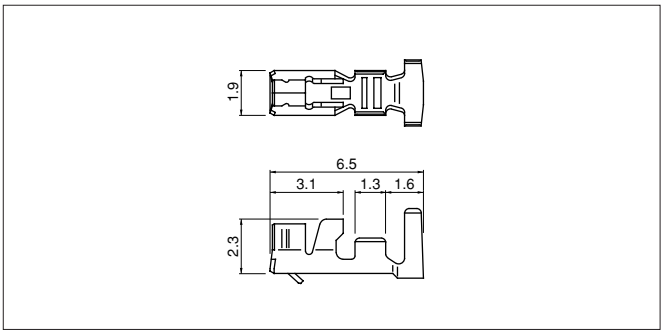
〈SMT type〉

Top entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm²	AWG#	Insulation O.D. (mm)	
SXA-001T-P0.6	0.08 ~ 0.33	28~22	1.2~1.9	8,000
SXA-01T-P0.6	0.22 ~ 0.5	24~20	1.5~1.9	8,000
SXA-001T-P0.6L	0.13 ~ 0.33	26~22	1.3~1.7	8,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note :1. SXA-001T-P0.6L is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard contact.
2. Contact JST for gold-plated products.

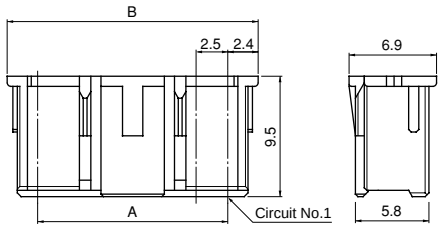
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06
SXA-001T-P0.6L		MKS-L	MK/SXA-001-06L	APLMK SXA001-06L
		*MKS-SC	SC/SXA-001-06L	APLSC SXA001-06L

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-01T-P0.6	AP-K2N	MKS-L	MK/SXA/M-01-06	APLMK SXA/M01-06
		*MKS-SC	SC/SXA/M-01-06	APLSC SXA/M01-06

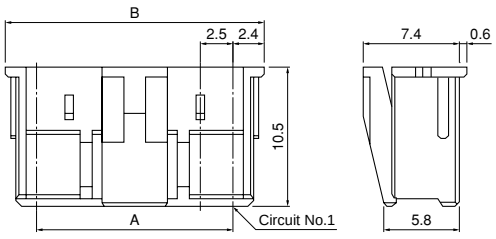
*Note: *Strip-crimp applicator*

Housing

Standard type



Retainer mountable type



Cir-cuits	Model No.		Dimensions (mm)		Q'ty / bag	
	Standard type	Retainer mountable type	A	B	Standard type	Retainer mountable type
2	**XAP-02V-1**	**XARP-02V**	2.5	7.3	1,000	1,000
3	**XAP-03V-1**	**XARP-03V**	5.0	9.8	1,000	1,000
4	**XAP-04V-1**	**XARP-04V**	7.5	12.3	1,000	1,000
5	**XAP-05V-1**	**XARP-05V**	10.0	14.8	1,000	1,000
6	**XAP-06V-1**	**XARP-06V**	12.5	17.3	1,000	1,000
7	**XAP-07V-1**	**XARP-07V**	15.0	19.8	1,000	1,000
8	**XAP-08V-1**	**XARP-08V**	17.5	22.3	1,000	1,000
9	**XAP-09V-1**	**XARP-09V**	20.0	24.8	1,000	1,000
10	**XAP-10V-1**	**XARP-10V**	22.5	27.3	1,000	1,000
11	**XAP-11V-1**	**XARP-11V**	25.0	29.8	1,000	1,000
12	**XAP-12V-1**	**XARP-12V**	27.5	32.3	1,000	1,000
13	**XAP-13V-1**	**XARP-13V**	30.0	34.8	1,000	1,000
14	**XAP-14V-1**	**XARP-14V**	32.5	37.3	500	1,000
15	**XAP-15V-1**	**XARP-15V**	35.0	39.8	500	1,000
18	—	**XARP-18V**	42.5	47.3	—	500
20	**XAP-20V-1**	—	47.5	52.3	500	—

Material
PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

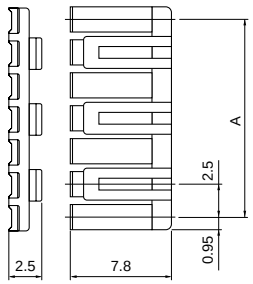
<Standard type>

ex. **XAP-02V-1-oo**
(blank)…natural (white)
K…black R…red E…blue Y…yellow L…lemon yellow
M…green O…orange N…brown H…gray P…purple
LE…light blue PK…pink FY…vivid yellow Z…ivory

<Retainer mountable type>

ex. **XARP-02V-oo**
(blank)…natural (white)
K…black R…red E…blue L…lemon yellow

Retainer



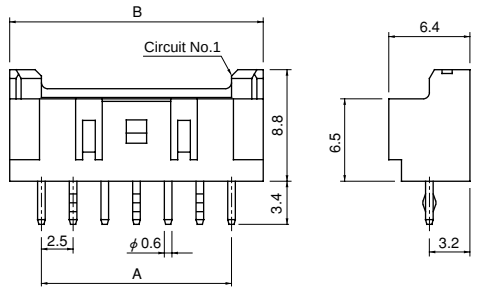
Material
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

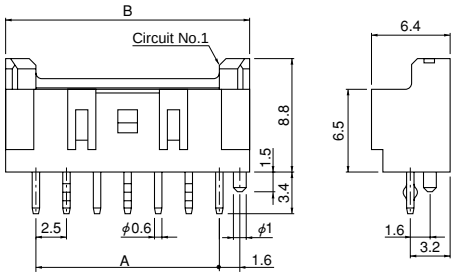
Circuits	Model No.	A	Q'ty / bag
2	**XMS-02V**	2.5	1,000
3	**XMS-03V**	5.0	1,000
4	**XMS-04V**	7.5	1,000
5	**XMS-05V**	10.0	1,000
6	**XMS-06V**	12.5	1,000
7	**XMS-07V**	15.0	1,000
8	**XMS-08V**	17.5	1,000
9	**XMS-09V**	20.0	1,000
10	**XMS-10V**	22.5	1,000
11	**XMS-11V**	25.0	1,000
12	**XMS-12V**	27.5	1,000
13	**XMS-13V**	30.0	1,000
14	**XMS-14V**	32.5	1,000
15	**XMS-15V**	35.0	1,000

Through-hole type shrouded header

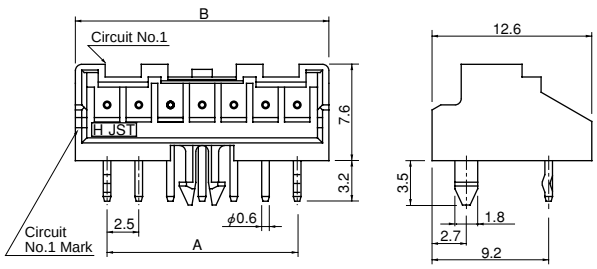
Top entry type without a boss



Top entry type with a boss



Side entry type with a hook



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type		A	B	
	Without a boss	With a boss			
2	**B02B-XASK-1**	**B02B-XASK-1-A**	2.5	7.5	1,000
3	**B03B-XASK-1**	**B03B-XASK-1-A**	5.0	10.0	400
4	**B04B-XASK-1**	**B04B-XASK-1-A**	7.5	12.5	400
5	**B05B-XASK-1**	**B05B-XASK-1-A**	10.0	15.0	400
6	**B06B-XASK-1**	**B06B-XASK-1-A**	12.5	17.5	400
7	**B07B-XASK-1**	**B07B-XASK-1-A**	15.0	20.0	250
8	**B08B-XASK-1**	**B08B-XASK-1-A**	17.5	22.5	250
9	**B09B-XASK-1**	**B09B-XASK-1-A**	20.0	25.0	250
10	**B10B-XASK-1**	**B10B-XASK-1-A**	22.5	27.5	250
11	**B11B-XASK-1**	**B11B-XASK-1-A**	25.0	30.0	200
12	**B12B-XASK-1**	**B12B-XASK-1-A**	27.5	32.5	200
13	**B13B-XASK-1**	**B13B-XASK-1-A**	30.0	35.0	100
14	**B14B-XASK-1**	**B14B-XASK-1-A**	32.5	37.5	100
15	**B15B-XASK-1**	**B15B-XASK-1-A**	35.0	40.0	100
20	**B20B-XASK-1**	**B20B-XASK-1-A**	47.5	52.5	100

Material and Finish
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Contact JST for gold-plated products.

Circuits	Model No.	Dimensions (mm)			Q'ty / box
	Side entry type with a hook	A	B	D	
2	**S02B-XASS-1**	2.5	7.5	1.25	250
3	**S03B-XASK-1**	5.0	10.0	2.50	250
4	**S04B-XASK-1**	7.5	12.5	3.75	200
5	**S05B-XASK-1**	10.0	15.0	5.00	200
6	**S06B-XASK-1**	12.5	17.5	6.25	200
7	**S07B-XASK-1**	15.0	20.0	7.50	200
8	**S08B-XASK-1**	17.5	22.5	8.75	100
9	**S09B-XASK-1**	20.0	25.0	10.00	100
10	**S10B-XASK-1**	22.5	27.5	11.25	100
11	**S11B-XASK-1**	25.0	30.0	12.50	100
12	**S12B-XASK-1**	27.5	32.5	13.75	100
13	**S13B-XASK-1**	30.0	35.0	15.00	100
14	**S14B-XASK-1**	32.5	37.5	16.25	100

Material and Finish
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: 1. Dimension D…See PC board layout.
2. Contact JST for gold-plated products.

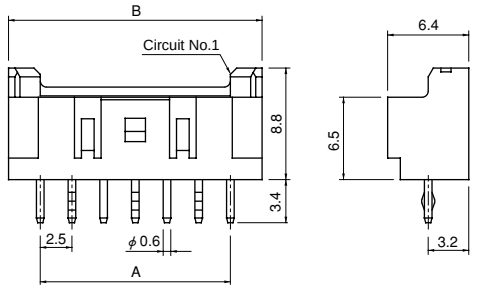
<For reference> As the color identification, the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **S02B-XASK-1**
S…natural (ivory)
K…black R…red E…blue M…green Y…yellow

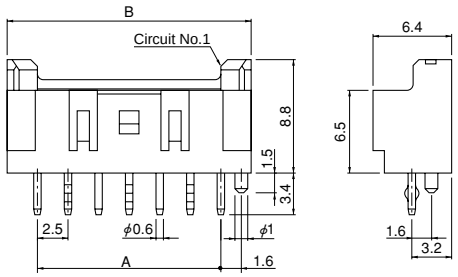
Through-hole type shrouded header

N type

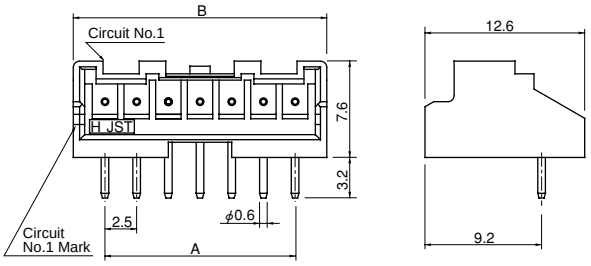
Top entry type without a boss



Top entry type with a boss



Side entry type without a hook



Circuits	Model No. Top entry type		Dimensions (mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2	**B02B-XASK-1N**	**B02B-XASK-1N-A**	2.5	7.5	1,000
3	**B03B-XASK-1N**	**B03B-XASK-1N-A**	5.0	10.0	400
4	**B04B-XASK-1N**	**B04B-XASK-1N-A**	7.5	12.5	400
5	**B05B-XASK-1N**	**B05B-XASK-1N-A**	10.0	15.0	400
6	**B06B-XASK-1N**	**B06B-XASK-1N-A**	12.5	17.5	400
7	**B07B-XASK-1N**	**B07B-XASK-1N-A**	15.0	20.0	250
8	**B08B-XASK-1N**	**B08B-XASK-1N-A**	17.5	22.5	250
9	**B09B-XASK-1N**	**B09B-XASK-1N-A**	20.0	25.0	250
10	**B10B-XASK-1N**	**B10B-XASK-1N-A**	22.5	27.5	250
11	**B11B-XASK-1N**	**B11B-XASK-1N-A**	25.0	30.0	200
12	**B12B-XASK-1N**	**B12B-XASK-1N-A**	27.5	32.5	200
13	**B13B-XASK-1N**	**B13B-XASK-1N-A**	30.0	35.0	100
14	**B14B-XASK-1N**	**B14B-XASK-1N-A**	32.5	37.5	100
15	**B15B-XASK-1N**	**B15B-XASK-1N-A**	35.0	40.0	100
18	**B18B-XASK-1N**	—	42.5	47.5	100

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Not TÜV approved.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-XASK-1N-A**
S…natural (white)
K…black R…red E…blue Y…yellow L…lemon yellow
M…green O…orange N…brown H…gray P…purple
LE…light blue PK…pink FY…vivid yellow

Circuits	Model No. Side entry type without a hook	Dimensions (mm)		Q'ty / box
		A	B	
2	**S02B-XASS-1N-BN**	2.5	7.5	250
3	**S03B-XASS-1N-BN**	5.0	10.0	250
4	**S04B-XASS-1N-BN**	7.5	12.5	200
5	**S05B-XASS-1N-BN**	10.0	15.0	200
6	**S06B-XASS-1N-BN**	12.5	17.5	200
7	**S07B-XASS-1N-BN**	15.0	20.0	200
8	**S08B-XASS-1N-BN**	17.5	22.5	100
9	**S09B-XASS-1N-BN**	20.0	25.0	100
10	**S10B-XASS-1N-BN**	22.5	27.5	100
11	**S11B-XASS-1N-BN**	25.0	30.0	100
12	**S12B-XASS-1N-BN**	27.5	32.5	100
13	**S13B-XASS-1N-BN**	30.0	35.0	100
14	**S14B-XASS-1N-BN**	32.5	37.5	100

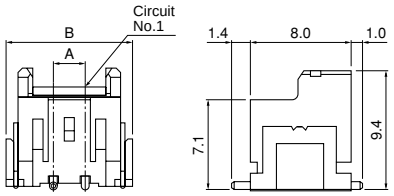
Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (white)

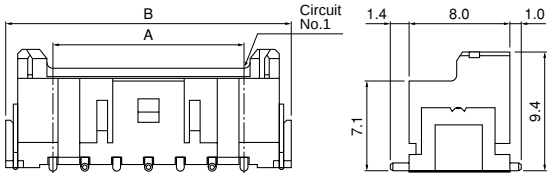
RoHS compliance *This product displays (LF)(SN) on a label.*
Note: 1. As for side entry type, we recommend to use a product with a boss (hook) because stress is applied directly to fillet part when handling the wire. When using the side entry type product without a boss (hook), please handle the wire with care.
2. Not TÜV approved.

SMT type shrouded header

(2 circuits)



(3 to 15 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
	Top entry type	A	B	
2	**BM02B-XASS-TF**	2.5	10.0	500
3	**BM03B-XASS-TF**	5.0	12.5	500
4	**BM04B-XASS-TF**	7.5	15.0	500
5	**BM05B-XASS-TF**	10.0	17.5	500
6	**BM06B-XASS-TF**	12.5	20.0	500
7	**BM07B-XASS-TF**	15.0	22.5	500
8	**BM08B-XASS-TF**	17.5	25.0	500
9	**BM09B-XASS-TF**	20.0	27.5	500
12	**BM12B-XASS-TF**	27.5	35.0	500
13	**BM13B-XASS-TF**	30.0	37.5	500
15	**BM15B-XASS-TF**	35.0	42.5	500

Material and Finish

Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

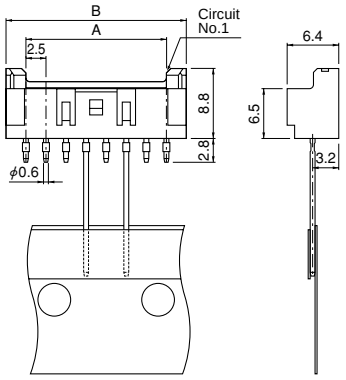
RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

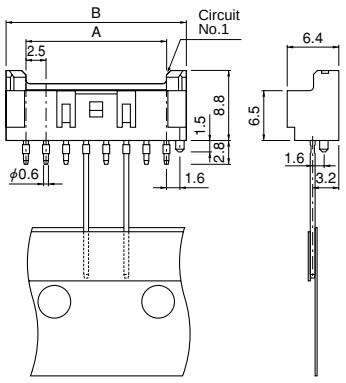
ex. **BM02B-XASS-TF**
S…natural
K…black R…red E…blue M…green D…orange
L…lemon yellow

Through-hole type shrouded header on radial-tape

Top entry type without a boss



Top entry type with a boss



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type without a boss	Top entry type with a boss	A	B	
2	**B02B-XASS-1-T**	—	2.5	7.5	1,000
3	**B03B-XASS-1-T**	**B03B-XASS-1-A-T**	5.0	10.0	1,000
4	**B04B-XASS-1-T**	**B04B-XASS-1-A-T**	7.5	12.5	500
5	**B05B-XASS-1-T**	**B05B-XASS-1-A-T**	10.0	15.0	500
6	**B06B-XASS-1-T**	**B06B-XASS-1-A-T**	12.5	17.5	500
7	**B07B-XASS-1-T**	**B07B-XASS-1-A-T**	15.0	20.0	500
8	**B08B-XASS-1-T**	**B08B-XASS-1-A-T**	17.5	22.5	500

Material and Finish

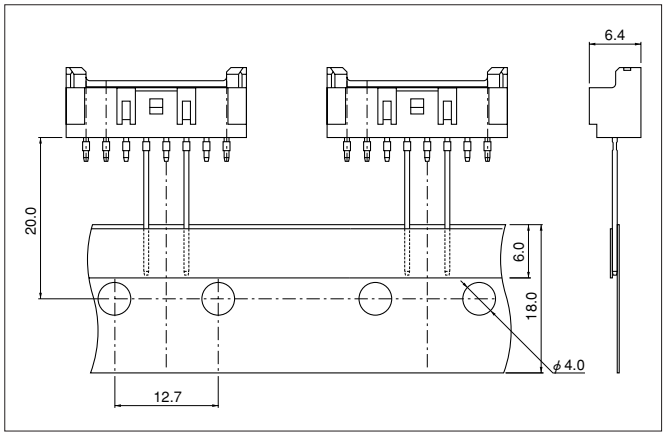
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B03B-XASS-1-A-T**
S…natural (ivory)
R…red E…blue M…green

Taping specifications

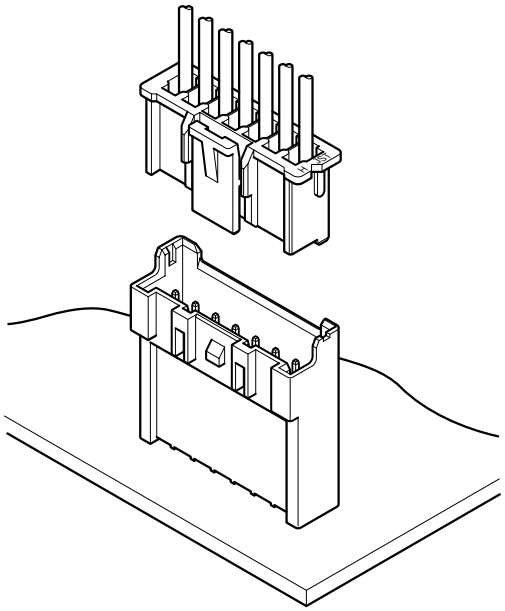


Note: Conforms to JIS C 0806.

XA CONNECTOR〈High box type〉

Radial Tape

2.5mm pitch/Disconnectable Crimp style connectors



XA connector high box type, with 19.5mm mounting height and with 6.9mm thickness.

- ***Header for 2.5mm pitch XA connector for use specifically with resin coated ("potted") PC boards***
- ***Interchangeability***

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

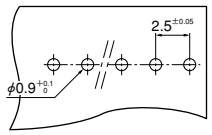
Recognized E60389

Certified LR20812

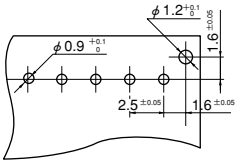
R9851220

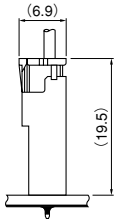
PC board layout (viewed from component side) and Assembly layout

Without a boss



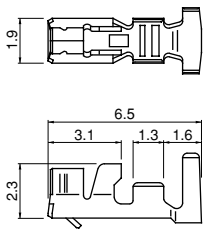
With a boss





Note:1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire			Q'ty / reel
	mm²	AWG#	Insulation O.D. (mm)	
SXA-001T-P0.6	0.08 ～ 0.33	28～22	1.2～1.9	8,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

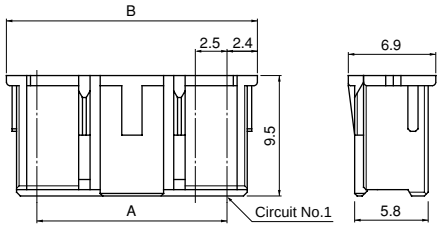
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06

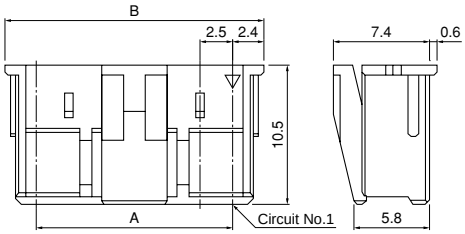
*Note: *Strip-crimp applicator*

Housing

Standard type



Retainer mountable type



Circuits	Model No.		Dimensions (mm)		Q'ty / bag	
	Standard type	Retainer mountable type	A	B	Standard type	Retainer mountable type
2	**XAP-02V-1**	**XARP-02V**	2.5	7.3	1,000	1,000
3	**XAP-03V-1**	**XARP-03V**	5.0	9.8	1,000	1,000
4	**XAP-04V-1**	**XARP-04V**	7.5	12.3	1,000	1,000
5	**XAP-05V-1**	**XARP-05V**	10.0	14.8	1,000	1,000
6	**XAP-06V-1**	**XARP-06V**	12.5	17.3	1,000	1,000
7	**XAP-07V-1**	**XARP-07V**	15.0	19.8	1,000	1,000
8	**XAP-08V-1**	**XARP-08V**	17.5	22.3	1,000	1,000
9	**XAP-09V-1**	**XARP-09V**	20.0	24.8	1,000	1,000
10	**XAP-10V-1**	**XARP-10V**	22.5	27.3	1,000	1,000
11	**XAP-11V-1**	**XARP-11V**	25.0	29.8	1,000	1,000
12	**XAP-12V-1**	**XARP-12V**	27.5	32.3	1,000	1,000
13	**XAP-13V-1**	**XARP-13V**	30.0	34.8	1,000	1,000
14	**XAP-14V-1**	**XARP-14V**	32.5	37.3	500	1,000
15	**XAP-15V-1**	**XARP-15V**	35.0	39.8	500	1,000

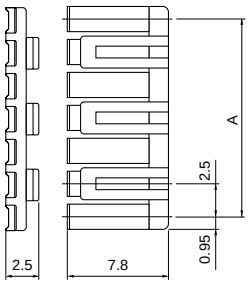
Material
PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **XAP-02V-1-oo**
(blank)…natural (white)
K…black R…red E…blue M…green Y…yellow

Retainer



Material
Glass-filled PA 66, UL94V-0, natural (ivory)

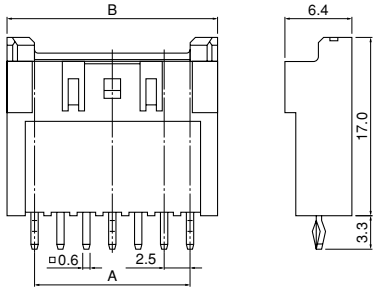
RoHS compliance

Circuits	Model No.	A	Q'ty / bag
2	**XMS-02V**	2.5	1,000
3	**XMS-03V**	5.0	1,000
4	**XMS-04V**	7.5	1,000
5	**XMS-05V**	10.0	1,000
6	**XMS-06V**	12.5	1,000
7	**XMS-07V**	15.0	1,000
8	**XMS-08V**	17.5	1,000
9	**XMS-09V**	20.0	1,000
10	**XMS-10V**	22.5	1,000
11	**XMS-11V**	25.0	1,000
12	**XMS-12V**	27.5	1,000
13	**XMS-13V**	30.0	1,000
14	**XMS-14V**	32.5	1,000
15	**XMS-15V**	35.0	1,000

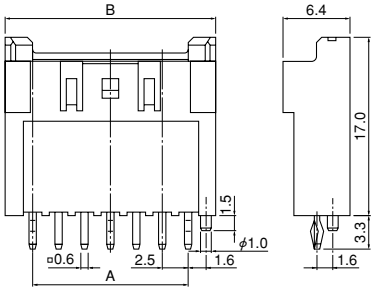
XA CONNECTOR〈High box type〉

Shrouded header

Without a boss



With a boss



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2	**BH02B-XASK-BN**	**BH02B-XASK**	2.5	7.5	400
3	**BH03B-XASK-BN**	**BH03B-XASK**	5.0	10.0	400
4	**BH04B-XASK-BN**	**BH04B-XASK**	7.5	12.5	300
5	**BH05B-XASK-BN**	**BH05B-XASK**	10.0	15.0	300
6	**BH06B-XASK-BN**	**BH06B-XASK**	12.5	17.5	200
7	**BH07B-XASK-BN**	**BH07B-XASK**	15.0	20.0	200
8	**BH08B-XASK-BN**	**BH08B-XASK**	17.5	22.5	200
9	**BH09B-XASK-BN**	**BH09B-XASK**	20.0	25.0	150
10	**BH10B-XASK-BN**	**BH10B-XASK**	22.5	27.5	150
11	**BH11B-XASK-BN**	**BH11B-XASK**	25.0	30.0	100
12	**BH12B-XASK-BN**	**BH12B-XASK**	27.5	32.5	100
13	**BH13B-XASK-BN**	**BH13B-XASK**	30.0	35.0	100
14	**BH14B-XASK-BN**	**BH14B-XASK**	32.5	37.5	100
15	**BH15B-XASK-BN**	**BH15B-XASK**	35.0	40.0	100

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

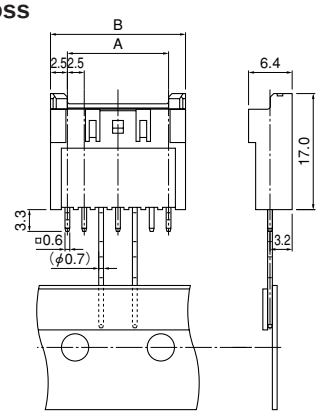
RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

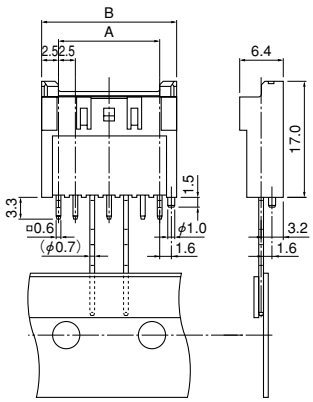
ex. **BH02B-XASK-BN**
S…natural (ivory)
K…black R…red M…green Y…yellow

Shrouded header on radial-tape

Without a boss



With a boss



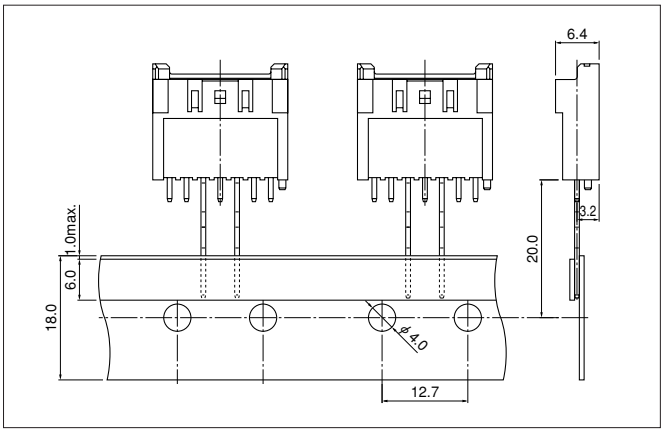
Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2	**BH02B-XASS-BN-T**	**BH02B-XASS-T**	2.5	7.5	1,000
3	**BH03B-XASS-BN-T**	**BH03B-XASS-T**	5.0	10.0	1,000
4	**BH04B-XASS-BN-T**	**BH04B-XASS-T**	7.5	12.5	500
5	**BH05B-XASS-BN-T**	**BH05B-XASS-T**	10.0	15.0	500
6	**BH06B-XASS-BN-T**	**BH06B-XASS-T**	12.5	17.5	500
7	**BH07B-XASS-BN-T**	**BH07B-XASS-T**	15.0	20.0	500
8	**BH08B-XASS-BN-T**	**BH08B-XASS-T**	17.5	22.5	500

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance *This product displays (LF)(SN) on a label.*

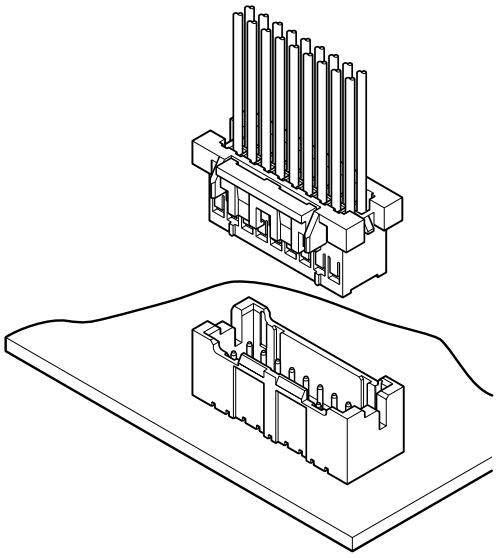
Taping specifications



Note: Conforms to JIS C 0806.

XAD CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors



Double-row construction connector with secure locking device.

- ***Secure locking device***
- ***Solder crack preventive material***
- ***Polarizing boss***
- ***Mis-insertion preventive design***

Specifications

- Current rating: 3A AC, DC (AWG #20)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #28 to #20
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

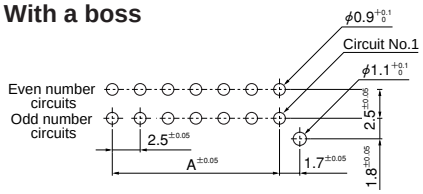
Certified LR20812

R9851219

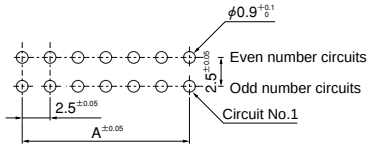
PC board layout (viewed from component side) and Assembly layout

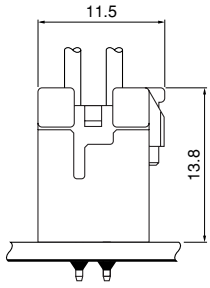
Top entry type

With a boss

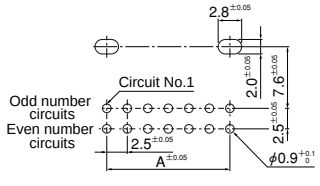


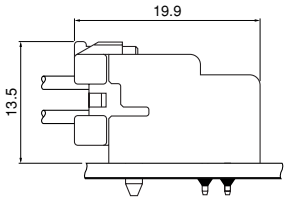
Without a boss





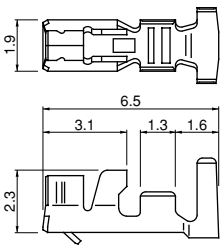
Side entry type





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SXA-01T-P0.6	0.22～0.5	24～20	1.5～1.9	8,000
SXA-001T-P0.6	0.08～0.33	28～22	1.2～1.9	8,000
SXA-001T-P0.6L	0.13～0.33	26～22	1.3～1.7	8,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: 1. SXA-001T-P0.6L is low-insertion force type contact, for easier insertion/withdrawal, which would be less resistant to the vibration. The crimp height is different from the standard contact.

2. Contact JST for gold-plated products.

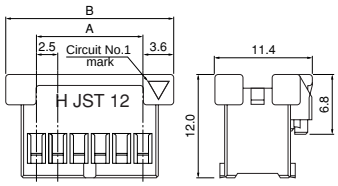
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06
SXA-001T-P0.6L		MKS-L	MK/SXA-001-06L	APLMK SXA001-06L
		*MKS-SC	SC/SXA-001-06L	APLSC SXA001-06L

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-01T-P0.6	AP-K2N	MKS-L	MK/SXA/M-01-06	APLMK SXA/M01-06
		*MKS-SC	SC/SXA/M-01-06	APLMC SXA/M01-06

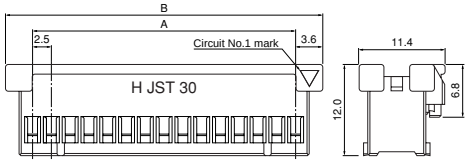
*Note:*Strip-crimp applicator*

Housing

(8 to 16 circuits)



(18 to 40 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
8	**XADRP-08V**	7.5	14.7	1,000
10	**XADRP-10V**	10.0	17.2	1,000
12	**XADRP-12V**	12.5	19.7	1,000
14	**XADRP-14V**	15.0	22.2	1,000
16	**XADRP-16V**	17.5	24.7	1,000
18	**XADRP-18V**	20.0	27.2	1,000
20	**XADRP-20V**	22.5	29.7	500
22	**XADRP-22V**	25.0	32.2	500
24	**XADRP-24V**	27.5	34.7	500
26	**XADRP-26V**	30.0	37.2	500
28	**XADRP-28V**	32.5	39.7	500
30	**XADRP-30V**	35.0	42.2	500
32	**XADRP-32V**	37.5	44.7	500
34	**XADRP-34V**	40.0	47.2	500
36	**XADRP-36V**	42.5	49.7	250
40	**XADRP-40V**	47.5	54.7	250

Material
PA 66, UL94V-0, natural (white)

RoHS compliance

Note: Contact JST if retainers are required.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **XADRP-08V-oo**

(blank)…natural (white)

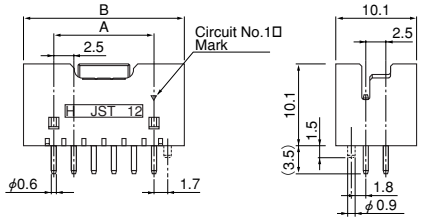
K…black R…red E…blue O…orange M…green

L…lemon yellow PK…pink

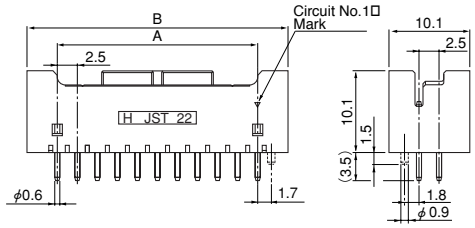
Shrouded header

Top entry type

(8 to 16 circuits)

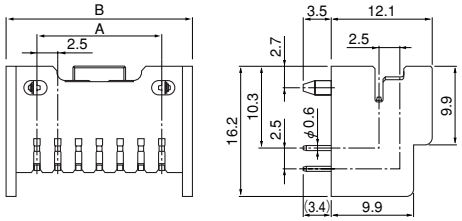


(18 to 40 circuits)

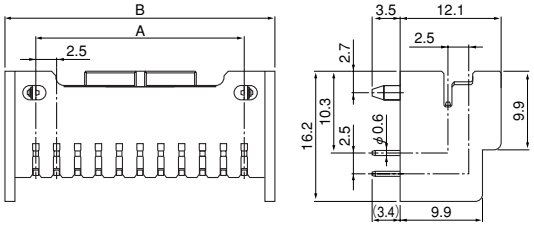


Side entry type

(8 to 16 circuits)



(18 to 26 circuits)



Circuits	Model No.			Dimensions (mm)		Q'ty / box	
	Top entry type		Side entry type	A	B	Top entry type	Side entry type
	Without a boss	With a boss					
8	B08B-XADSS-N	B08B-XADSS-N-A	S08B-XADSS-N	7.5	15.0	200	270
10	B10B-XADSS-N	B10B-XADSS-N-A	S10B-XADSS-N	10.0	17.5	200	234
12	B12B-XADSS-N	B12B-XADSS-N-A	S12B-XADSS-N	12.5	20.0	200	198
14	B14B-XADSS-N	B14B-XADSS-N-A	S14B-XADSS-N	15.0	22.5	150	180
16	B16B-XADSS-N	B16B-XADSS-N-A	S16B-XADSS-N	17.5	25.0	150	162
18	B18B-XADSS-N	B18B-XADSS-N-A	S18B-XADSS-N	20.0	27.5	150	144
20	B20B-XADSS-N	B20B-XADSS-N-A	S20B-XADSS-N	22.5	30.0	100	126
22	B22B-XADSS-N	B22B-XADSS-N-A	–	25.0	32.5	100	–
24	B24B-XADSS-N	B24B-XADSS-N-A	–	27.5	35.0	100	–
26	B26B-XADSS-N	B26B-XADSS-N-A	S26B-XADSS-N	30.0	37.5	100	108
28	B28B-XADSS-N	B28B-XADSS-N-A	–	32.5	40.0	100	–
30	B30B-XADSS-N	B30B-XADSS-N-A	–	35.0	42.5	50	–
32	B32B-XADSS-N	B32B-XADSS-N-A	–	37.5	45.0	50	–
34	B34B-XADSS-N	B34B-XADSS-N-A	–	40.0	47.5	50	–
36	B36B-XADSS-N	B36B-XADSS-N-A	–	42.5	50.0	50	–
40	B40B-XADSS-N	B40B-XADSS-N-A	–	47.5	55.0	50	–

Material and Finish
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Contact JST for the headers with gold-plated pins.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

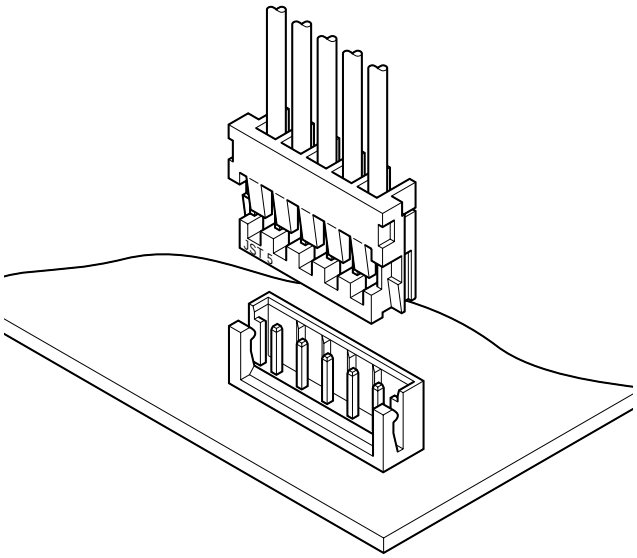
ex. **B08B-XADSS-N**

S…natural (white)
K…black R…red E…blue O…orange M…green
L…lemon yellow PK…pink

HR CONNECTOR

Radial Tape

2.5mm pitch/Disconnectable Crimp style connectors



- ***Thin design***
- ***High reliability***
- ***Interchangeability***

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #26 to #22
- Applicable PC board thickness: 0.8 to 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

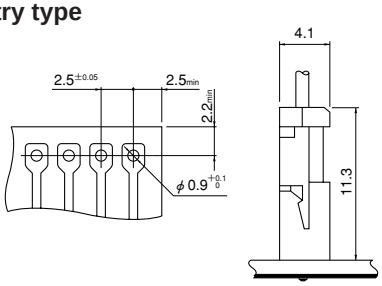
Standards

Recognized E60389

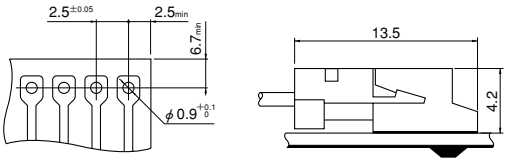
Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

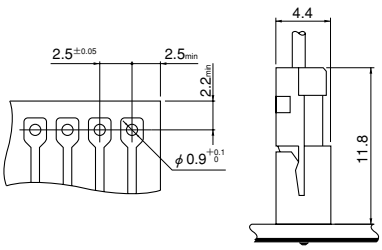
Top entry type



Side entry type

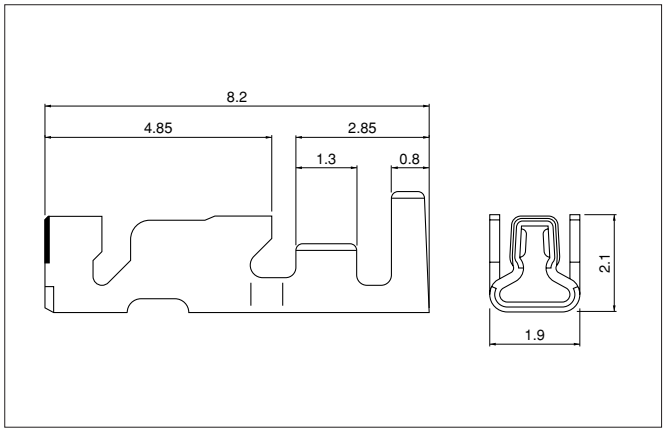


Top entry type on radial-tape



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimension differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SHR-001T-P0.6	0.13～0.33	26～22	1.3～1.7	9,000

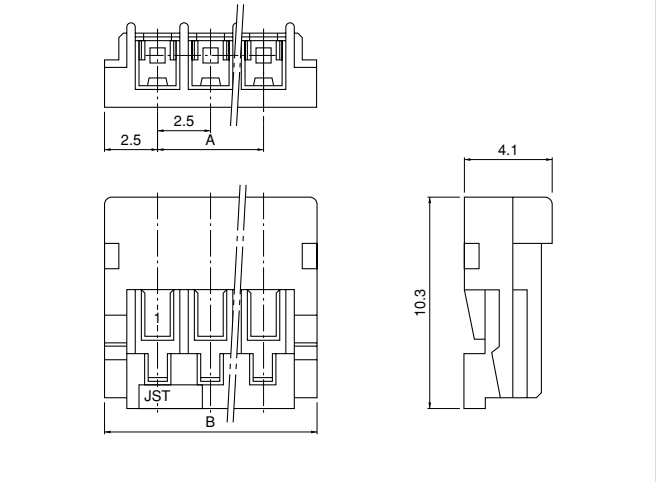
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SHR-001T-P0.6	AP-K2N	MKS-L	MK/SHR/MR-001-06	APLMK SHR/MR001-06
		*MKS-SC	SC/SHR/MR-001-06	APLSC SHR/MR001-06

*Note:*Strip-crimp applicator*

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	**HRP-02-S**	2.5	7.5	2,000
3	**HRP-03-S**	5.0	10.0	2,000
4	**HRP-04-S**	7.5	12.5	1,000
5	**HRP-05-S**	10.0	15.0	1,000
6	**HRP-06-S**	12.5	17.5	1,000
7	**HRP-07-S**	15.0	20.0	500
8	**HRP-08-S**	17.5	22.5	500
9	**HRP-09-S**	20.0	25.0	500
10	**HRP-10-S**	22.5	27.5	500
11	**HRP-11-S**	25.0	30.0	500
12	**HRP-12-S**	27.5	32.5	500
13	**HRP-13-S**	30.0	35.0	250

Material
PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **HRP-02-S**

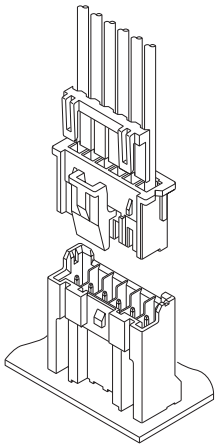
S…natural (white)
K…black R…red TR…tomato red E…blue
L…lemon yellow M…green N…brown O…orange P…purple
PK…pink LE…light blue Y…yellow FY…vivid yellow H…gray

Shrouded header

The shrouded headers are interchangeable with those of the EH crimp style and HR insulation displacement connectors.

PXA CONNECTOR

2.5mm pitch/Disconnectable Crimp style connectors



Secondary retainer mountable 2.5mm pitch high-box type, with 20.5mm mounting height.
Fully shrouded header has the walls between every circuit to consider as the structure against vibration or prying.

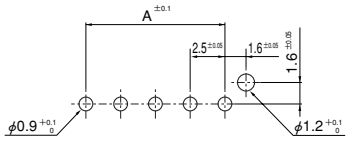
- ***Secure locking device***
- ***Fully shrouded header***
- ***Header for use specifically with resin coated ("potted") PC boards***
- ***PC board layout is exactly same as XA connector***
- ***Secondary retainer***

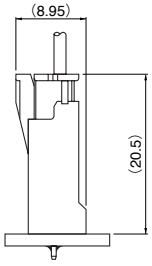
Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max. After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #26 to #22
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

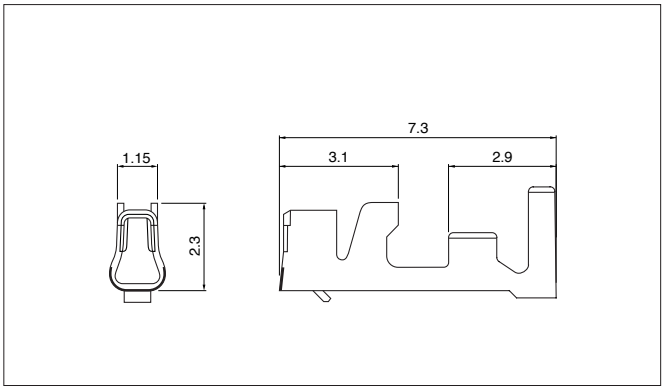
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimension differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Contact



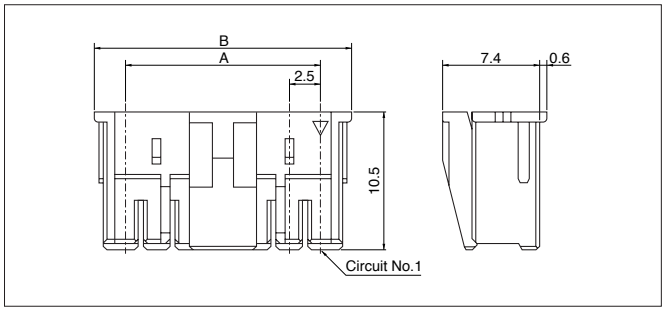
Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SPXA-001T-P0.6	0.13～0.33	26～22	1.2～1.9	7,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPXA-001T-P0.6	AP-K2N	MKS-L	MK/SPXA-001-06	APLMK SPXA001-06
		—	—	—

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty /bag
		A	B	
2	**PXARP-02V**	2.5	7.3	1,000
3	**PXARP-03V**	5.0	9.8	1,000
6	**PXARP-06V**	12.5	17.3	1,000

Material

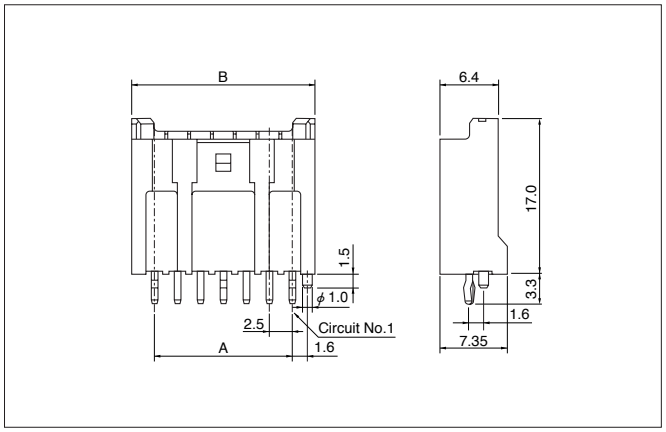
PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PXARP-02V-00**
(blank)…natural (white)
K…black R…red E…blue

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty /box
		A	B	
2	**BH02B-PXASK**	2.5	7.5	400
3	**BH03B-PXASK**	5.0	10.0	400
6	**BH06B-PXASK**	12.5	17.5	200

Material and Finish

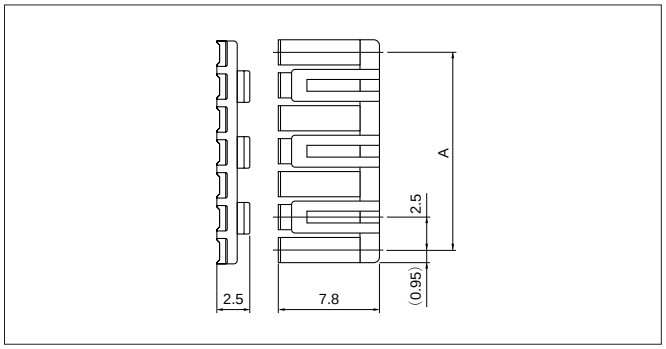
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **BH02B-PXASK**
S…natural (ivory)
K…black R…red E…blue

Retainer



Circuits	Model No.	A	Q'ty / bag
2	**XMS-02V**	2.5	1,000
3	**XMS-03V**	5.0	1,000
6	**XMS-06V**	12.5	1,000

Material

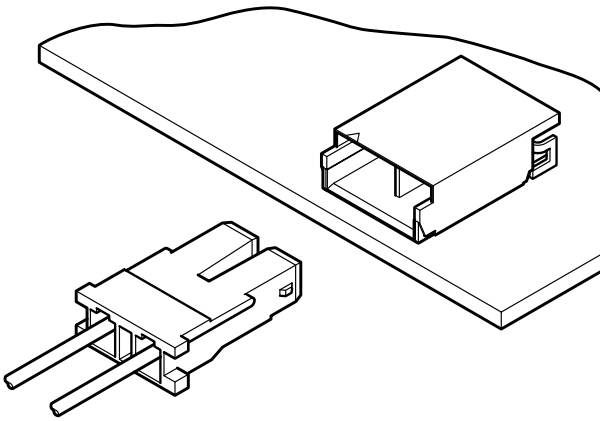
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

BHS CONNECTOR

Emboss Tape

3.5mm pitch/Disconnectable Crimp style connectors



- ***Low profile***
- ***SMT configuration***
- ***Applicable to special wires***
- ***Housing lock also serves as polarizing device***
- ***Adopt wide large for socket contact***

Specifications

- Current rating: 1.0A AC, DC (AWG #24)
- Voltage rating: 1,400V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 3,800V AC/minute
- Applicable wire: AWG #28 to #24
  Insulation O.D./0.9 to 1.7mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

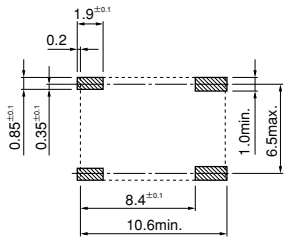
Standards

Recognized E60389

Certified LR20812

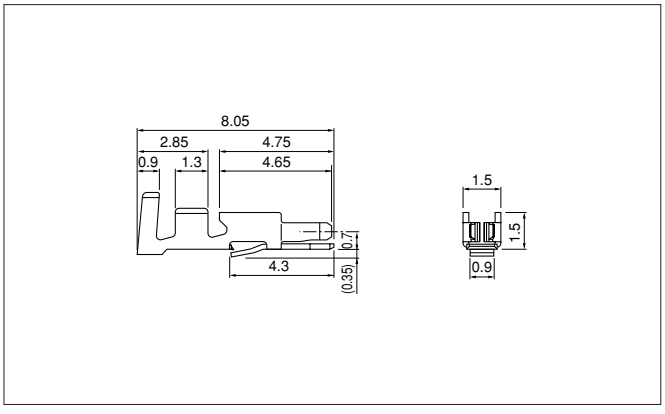
PC board layout (viewed from component side) and Assembly layout

Solder tabs Solder tails



Note: 1. Tolerances are non-cumulative: ±0.1mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



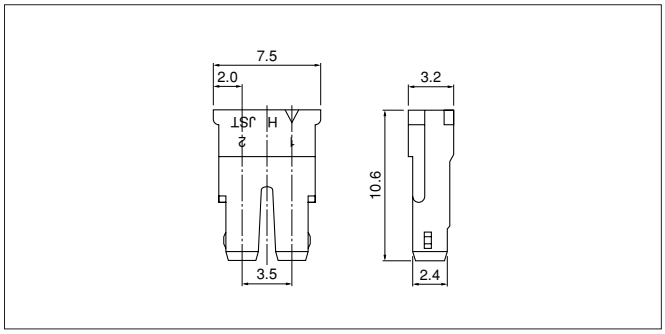
Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SBHS-002T-P0.5A	0.08～0.22	28～24	0.9～1.7	10,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: Contact JST for SBHS-002T-P0.5.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHS-002T-P0.5A	AP-K2N	MKS-L	MK/SBHS-002-05	APLMK SBHS002-05
		—	—	—

Housing

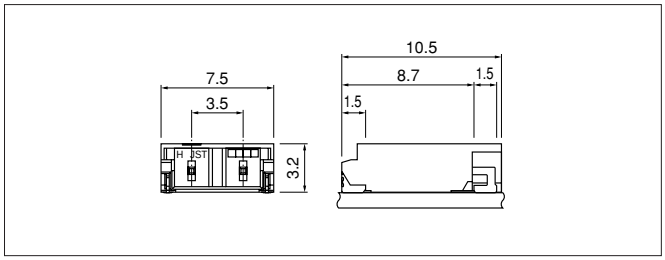


Circuits	Model No.	Q'ty / bag
2	**BHSR-02VS-1**（**N**）	1,000

Material
PA 66, UL94V-0, natural (white)

RoHS compliance
Note: Contact JST for BHSR-02VS-1.

Shrouded header



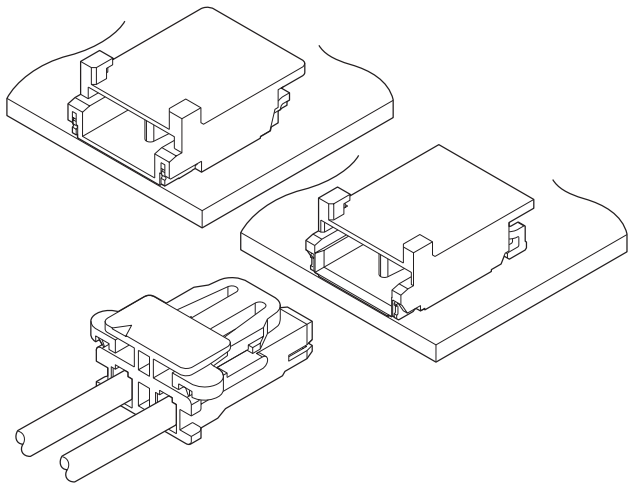
Circuits	Model No.	Q'ty / reel
2	**SM02B-BHSS-1-TB**	1,000

Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PPA, UL94V-0, natural (ivory) Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: The products listed above are supplied on embossed tape.

BD CONNECTOR (3.5mm)

3.5mm pitch/Disconnectable Crimp style connectors



Board-to-wire connector with high withstanding voltage, used for power supply of LCD (Liquid Crystal Display) back light.

- ***Secure locking mechanism***
- ***High withstand voltage design***
- ***Low profile***
- ***Compatibility***

Specifications

- Current rating: 1.0A AC, DC (AWG #24)
- Voltage rating: 1,400V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 3,800V AC/minute
- Applicable wire: AWG #28 to #24

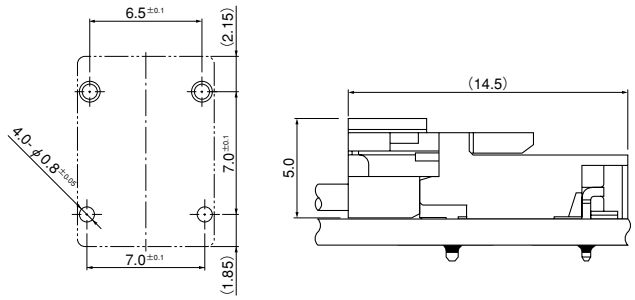
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

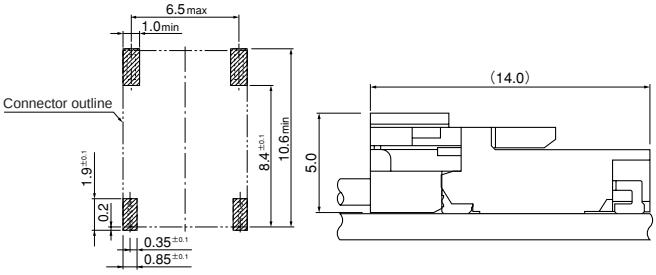
Recognized E60389

PC board layout (viewed from component side) and Assembly layout

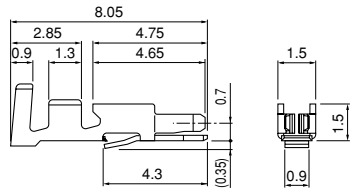
Through-hole type



SMT type



Contact



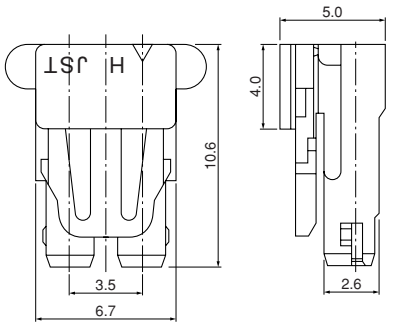
Model No.	Applicable wire		InsulationO.D. (mm)	Q'ty / reel
	mm²	AWG#		
SBHS-002T-P0.5A	0.08～0.22	28～24	0.9～1.7	10,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: Contact JST for SBHS-002T-P0.5.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHS-002T-P0.5A	AP-K2N	MKS-L	MK/SBHS-002-05	APLMK SBHS002-05
		—	—	—

Housing



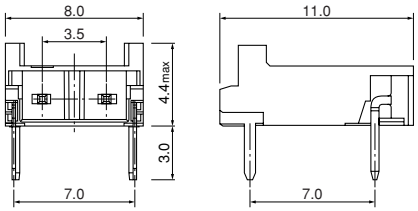
Circuits	Model No.	Q'ty / bag
2	**BDMR-02VS-2**	1,000

Material
PA 66, UL94V-0, natural (white)

RoHS compliance

Header

Through-hole type



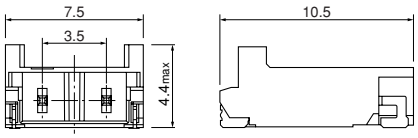
Through-hole type

Circuits	Model No.	Q'ty / box
2	**S02-BDS-3-B**	1,000

Material and Finish
Press pin: Brass, Copper-undercoated, tin-plated (reflow treatment) Wafer: Heat resisting resin, UL94V-0, natural (ivory) Solder tab: Brass, Copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

SMT type

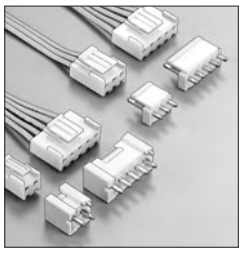


SMT type

Circuits	Model No.	Q'ty / reel
2	**SM02-BDS-3-TB**	1,000

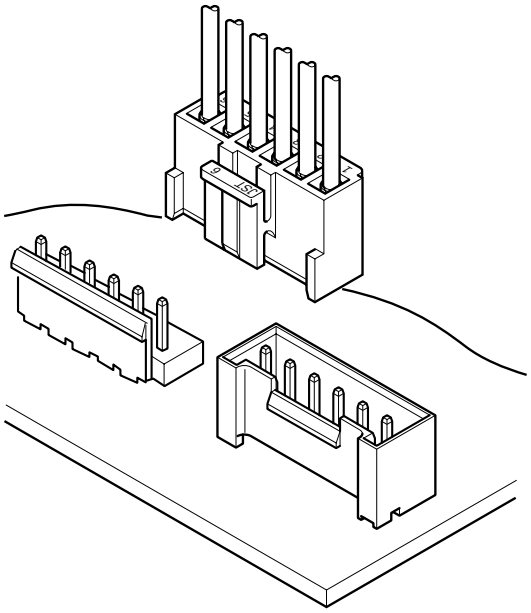
Material and Finish
Post: Brass, Copper-undercoated, tin-plated (reflow treatment) Wafer: Heat resisting resin, UL94V-0, natural (ivory) Solder tab: Brass, Copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: The product listed above is supplied on embossed tape.



VH CONNECTOR

3.96mm pitch/Disconnectable Crimp style connectors



This small, field-proven connector for printed circuit boards is reliable and has a large current carrying capacity. It can be used with a wide variety of signal, power supply, and output circuits that appear in consumer electronic products.

- ***Proven box contact***
- ***Compact connector with a large capacity***
- ***Secure contact and mounting***

Specifications

- Current rating: 10A AC, DC (AWG #16)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #16
- Applicable PC board thickness: 1.6mm

Note:
Do not branch in parallel current which exceeds the rated current. If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, be sure to use contacts made of phosphor bronze. Design the circuits without causing imbalance and provide an extra margin for each circuit.

* RoHS compliant products are published.
* Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105˚C.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

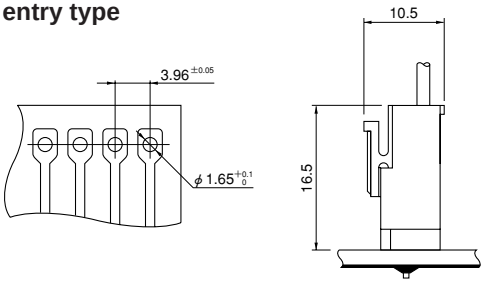
Recognized E60389

Certified LR20812

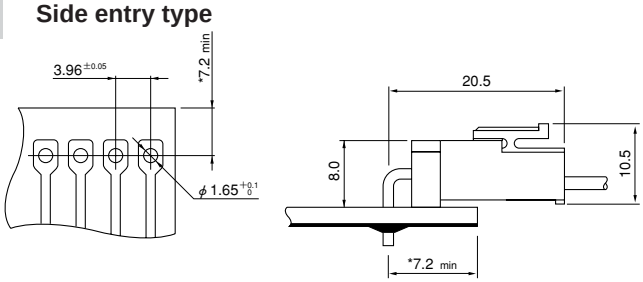
R75122

PC board layout (viewed from soldering side) and Assembly layout

Locking header
Top entry type

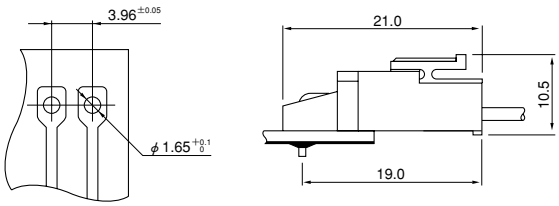


Locking header
Side entry type

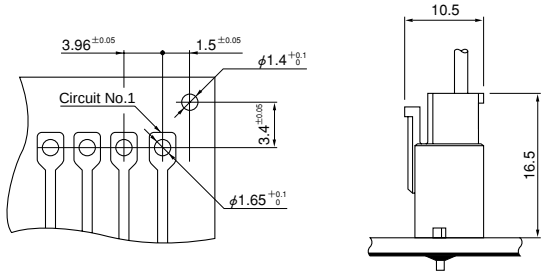


**11.0 max. when used with the VR connector receptacle.*

Locking header
Side entry type with PCB stabilizer

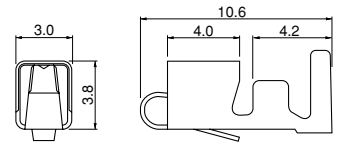


Shrouded header



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Please consider the pattern layout design in case of applying the large current.
3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SVH-21T-P1.1	0.33～0.83	22～18	1.7～3.0	4,500
SVH-41T-P1.1	0.5 ～1.25	20～16	1.7～3.0	3,500

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: 1. Contact JST for brass products.
2. When using retainer mountable type housing, applicable wire's insulation O. D. shall be 1.7 to 2.2mm.

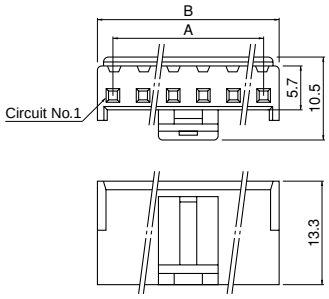
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVH-21T-P1.1	AP-K2N	MKS-L	MK/SVH-21-11	APLMK SVH21-11
		*MKS-SC	SC/SVH-21-11	APLSC SVH21-11

*Note: *Strip-crimp applicator*

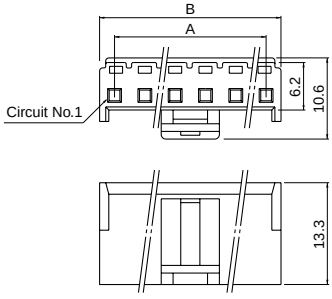
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVH-41T-P1.1	AP-K2N	MKS-L	MK/SVH-41-11	APLMK SVH41-11
		—	—	—

Housing

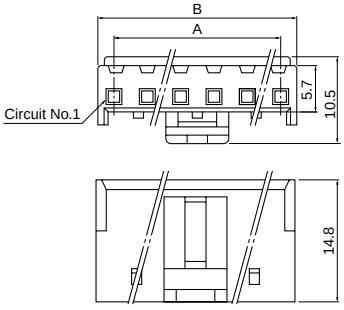
N type



M type



Retainer mountable type



Cir-cuits	Model No.			Dimensions (mm)		Q'ty / bag
	N type	M type	Retaine mountable type	A	B	
2	**VHR-2N**	**VHR-2M**	***VHRR-2N**	3.96	7.86	1,000
3	**VHR-3N**	**VHR-3M**	***VHRR-3N**	7.92	11.82	1,000
4	**VHR-4N**	**VHR-4M**	—	11.88	15.78	1,000
5	**VHR-5N**	**VHR-5M**	***VHRR-5N**	15.84	19.74	1,000
6	**VHR-6N**	**VHR-6M**	—	19.80	23.70	500
7	**VHR-7N**	**VHR-7M**	***VHRR-7N**	23.76	27.66	500
8	**VHR-8N**	—	***VHRR-8N**	27.72	31.62	500
9	**VHR-9N**	**VHR-9M**	***VHRR-9N**	31.68	35.58	500
10	**VHR-10N**	—	—	35.64	39.54	500
11	***VHR-11N**	—	—	39.60	43.50	500

Material
PA 6, UL94V-0, natural (white)

RoHS compliance

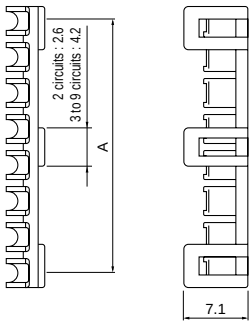
Note: 1. Models identified as VHR-( ) M incorporate measures to prevent electric shock and are thus safer in regard to high voltages.
2. The applicable housing for 2 circuits shrouded header is "VHR-2N" only. "VHRR-2N" is not applicable.
*3. *Marked products are not TÜV approved.*

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **VHR-2N-oo**

(blank)…natural (white)
BK…black R…red BL…blue M…green D…orange Y…yellow PK…pink H…gray

Retainer



Circuits	Model No.	A	Q'ty / bag
2	**VHS-2V**	3.70	1,000
3	**VHS-3V**	7.52	1,000
5	**VHS-5V**	15.44	1,000
7	**VHS-7V**	23.36	1,000
8	**VHS-8V**	27.32	1,000
9	**VHS-9V**	31.28	1,000

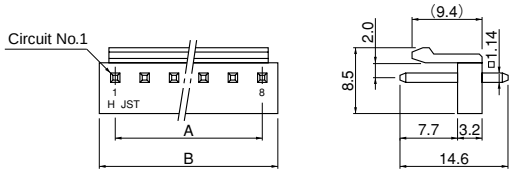
Material
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

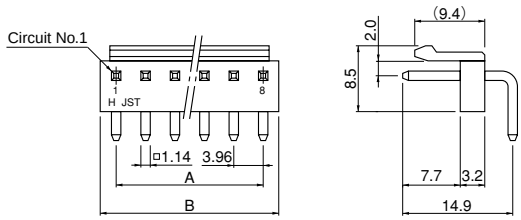
Note: Not TÜV approved.

Locking header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	**B2P-VH**	**B2PS-VH**	3.96	7.86	1,000	1,000
3	**B3P-VH**	**B3PS-VH**	7.92	11.82	1,000	500
4	**B4P-VH**	**B4PS-VH**	11.88	15.78	500	500
5	**B5P-VH**	**B5PS-VH**	15.84	19.74	500	250
6	**B6P-VH**	**B6PS-VH**	19.80	23.70	250	250
7	**B7P-VH**	**B7PS-VH**	23.76	27.66	250	250
8	**B8P-VH**	**B8PS-VH**	27.72	31.62	200	200
9	**B9P-VH**	**B9PS-VH**	31.68	35.58	200	200
10	**B10P-VH**	**B10PS-VH**	35.64	39.54	200	100

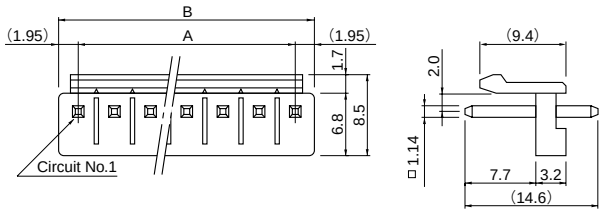
Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66 UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Headers with a reduced number of posts are also available.
Contact JST for details.

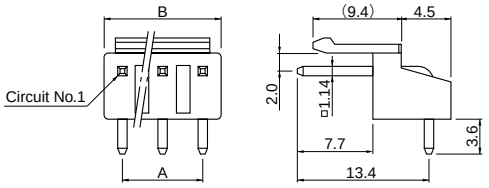
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2P(S)-VH-oo**
(blank)…natural (white)
BK…black R…red TR…tomato red BL…blue M…green
O…orange Y…yellow PK…pink H…gray

Top entry type of PBT



Side entry type with PCB stabilizer



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type of PBT	Side entry type with PCB stabilizer	A	B	Top entry type	Side entry type
2	**B2P-VH-B**	**S2P-VH**	3.96	7.86	1,000	1,000
3	**B3P-VH-B**	**S3P-VH**	7.92	11.82	1,000	500
4	**B4P-VH-B**	**S4P-VH**	11.88	15.78	500	500
5	**B5P-VH-B**	**S5P-VH**	15.84	19.74	500	250
6	**B6P-VH-B**	**S6P-VH**	19.80	23.70	250	250
7	**B7P-VH-B**	**S7P-VH**	23.76	27.66	250	250
8	**B8P-VH-B**	—	27.72	31.62	200	—
9	**B9P-VH-B**	—	31.68	35.58	200	—
10	**B10P-VH-B**	—	35.64	39.54	200	—
11	***B11P-VH-B**	—	39.60	43.50	200	—

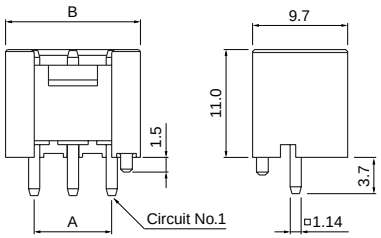
Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: Top entry type of PBT: Glass-filled PBT, UL94V-0, natural (ivory) Side entry type with PCB stabilizer: PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*
*Note: *Marked product is not TÜV approved.*

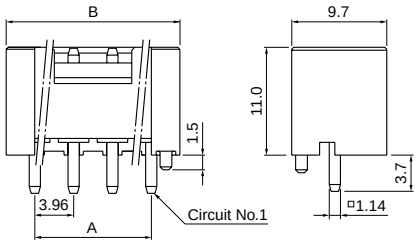
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
<Top entry type of PBT>
ex. **B2P-VH-B-oo**
(blank)…natural (ivory)
C…black R…red E…blue M…green Y…yellow
<Side entry type with PCB stabilizer>
ex. **S2P-VH-oo**
(blank)…natural (white)
BK…black R…red BL…blue Y…yellow M…green

Shrouded header

(2 , 3 circuits)



(4 to 10 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	**B2P-VH-FB-B**	3.96	9.80	250
3	**B3P-VH-FB-B**	7.92	13.76	200
4	**B4P-VH-FB-B**	11.88	17.72	150
5	**B5P-VH-FB-B**	15.84	21.68	200
6	**B6P-VH-FB-B**	19.80	25.64	200
7	**B7P-VH-FB-B**	23.76	29.60	100
8	**B8P-VH-FB-B**	27.72	33.56	100
9	**B9P-VH-FB-B**	31.68	37.52	100
10	**B10P-VH-FB-B**	35.64	41.48	125

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*

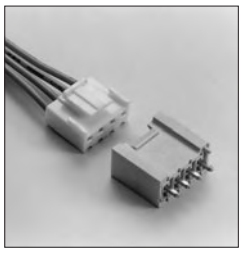
Note: The applicable housing for 2 circuits shrouded header is "VHR-2N" only. "VHRR-2N" is not applicable.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B2P-VH-FB-B-oo**

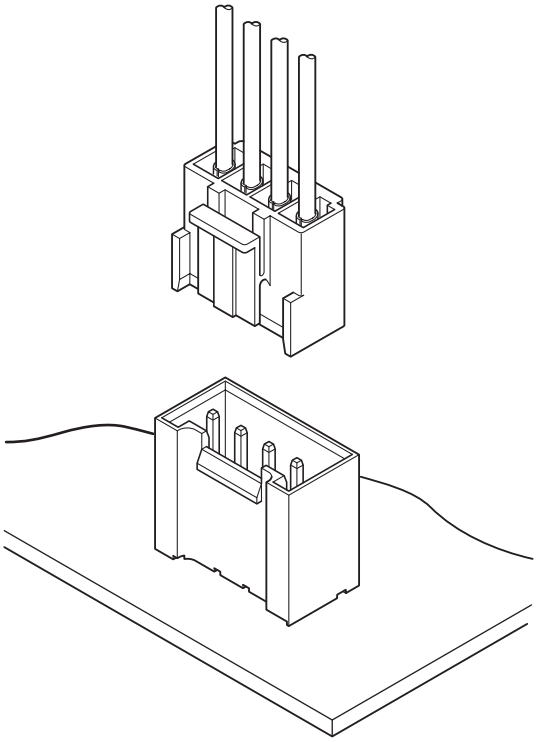
(blank)…natural (white)

R…red C…black E…blue M…green Y…yellow O…orange H…gray PK…pink



VH CONNECTOR 〈High box type〉

3.96mm pitch/Disconnectable Crimp style connectors



Header for 3.96mm pitch VH connector for use specifically with resin coated ("potted") PC boards.

• Interchangeability

Specifications

- Current rating: 7A AC, DC (AWG #18)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
- Applicable PC board thickness: 1.6mm

Note: Do not branch in parallel current which exceeds the rated current. If branched in parallel,current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, be sure to use contacts made of phosphor bronze. Design the circuits without causing imbalance and provide an extra margin for each circuit.

* RoHS compliant products are published.
* Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105˚C.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

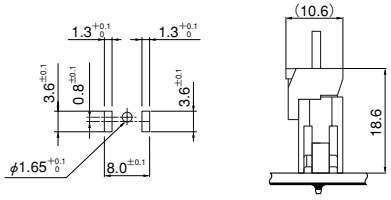
Recognized E60389

Certified LR20812

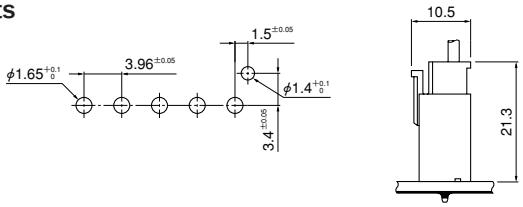
R75122

PC board layout (viewed from soldering side) and Assembly layout

1 circuit

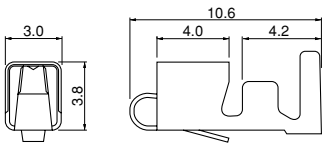


2 to 8 circuits



Note: 1.Tolerances are non-cumulative: ±0.05mm for all centers.
2.Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guide line. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SVH-21T-P1.1	0.33～0.83	22～18	1.7～3.0	4,500

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

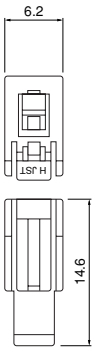
RoHS compliance
Note: Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVH-21T-P1.1	AP-K2N	MKS-L	MK/SVH-21-11	APLMK SVH21-11
		*MKS-SC	SC/SVH-21-11	APLSC SVH21-11

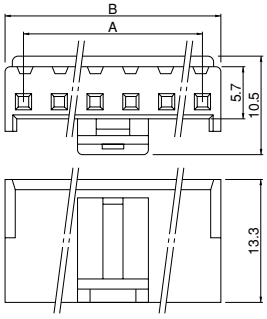
*Note: *Strip-crimp applicator*

Housing

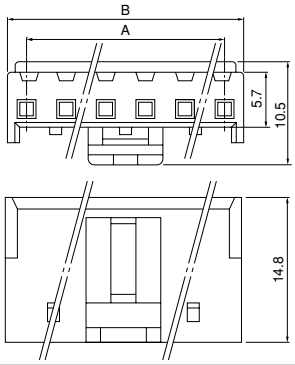
1 circuit
N Type



2 to 8 circuits
N Type



Retainer mountable type

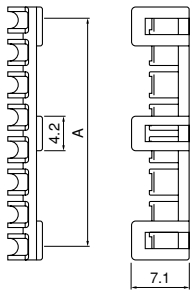


Circuits	Model No.		Dimensions (mm)		Q'ty / bag
	N type	Retainer mountable type	A	B	
1	*VHR-1N	—	—	—	1,000
2	VHR-2N	—	3.96	7.86	1,000
3	VHR-3N	*VHRR-3N	7.92	11.82	1,000
4	VHR-4N	—	11.88	15.78	1,000
5	VHR-5N	*VHRR-5N	15.84	19.74	1,000
6	VHR-6N	—	19.80	23.70	500
7	VHR-7N	*VHRR-7N	23.76	27.66	500
8	VHR-8N	*VHRR-8N	27.72	31.62	500

Material
PA 6, UL94V-0, natural (white)

RoHS compliance
*Note: *Marked products are not TÜV approved.*
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex. **VHR-2N-oo**
(blank)…natural (white)
BK…black R…red BL…blue M…green

Retainer



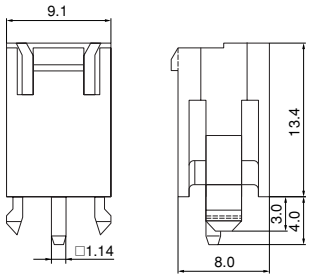
Circuits	Model No.	A	Q'ty / bag
2	VHS-2V	3.70	1,000
3	VHS-3V	7.52	1,000
5	VHS-5V	15.44	1,000
7	VHS-7V	23.36	1,000
8	VHS-8V	27.32	1,000
9	VHS-9V	31.28	1,000

Material
Glass-filled PA 66, UL94V-0, natural (ivory)

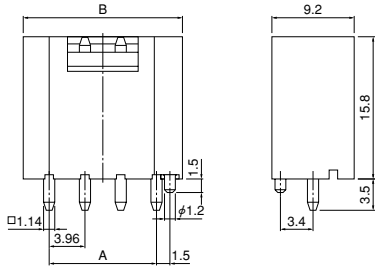
RoHS compliance
Note: Not TÜV approved.

Shrouded header

With a boss
1 circuit



With a boss
2 to 8 circuits



Circuits	Model No.	Q'ty / box
	With a boss	
1	BH1P-VH-1	500

Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL-94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Not TÜV approved.

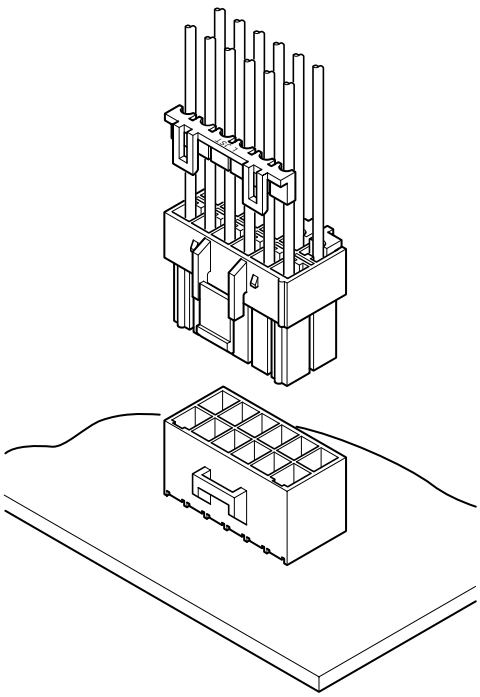
Circuits	Model No.	Dimensions (mm)		Q'ty / box
	With a boss	A	B	
2	BH2P-VH-1	3.96	9.80	250
3	BH3P-VH-1	7.92	13.76	200
4	BH4P-VH-1	11.88	17.72	150
5	BH5P-VH-1	15.84	21.68	100
6	BH6P-VH-1	19.80	25.64	100
7	BH7P-VH-1	23.76	29.60	100
8	BH8P-VH-1	27.72	33.56	100

Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL-94V-0, natural (ivory)

RoHS compliance *This product displays (LF)(SN) on a label.*
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.
ex. **BH2P-VH-1-oo**
(blank)…natural (ivory) BK…black R…red BL…blue M…green

HL CONNECTOR

3.96mm pitch Disconnectable Crimp style connectors



- ***Housing lances for contact retention***
- ***Inner-housing lock***
- ***Secondary retainer***
- ***Low insertion force contact***

Specifications

- Current rating: 7A AC, DC (Refer to the table below.)
- Voltage rating: 300V AC, DC
- Temperature range: -25˚C to +90˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
  After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
- Applicable PC board thickness: 1.5 to 2.2mm

Note:
The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit:A

Circuits	Wire size(AWG)		
	#18	#20	#22
4□	7□	5□	4□
8□	6□	4□	3□
12	5	3	3

Note:
Do not branch in parallel current which exceeds the rated current (eg. more than 7A in the case of 4 circuits with AWG #18). If branched in parallel, current imbalance or other problems may develop.

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

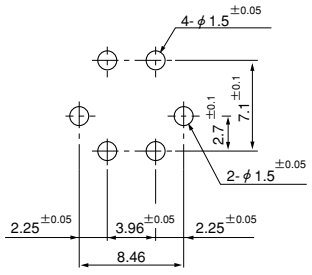
Recognized E60389

Certified LR20812

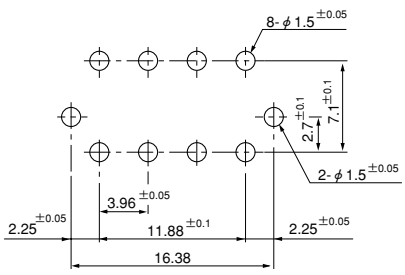
R9551072

PC board layout (viewed from component side)

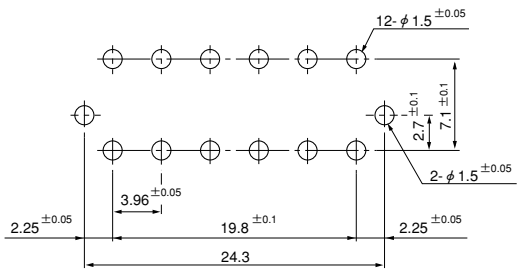
(4 circuits)



(8 circuits)

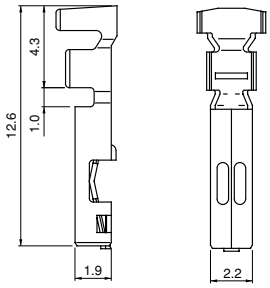


(12 circuits)



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SSF-21T-P1.4	0.3～0.75	22～18	1.5～2.2	6,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

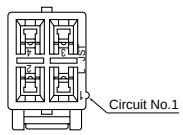
RoHS compliance

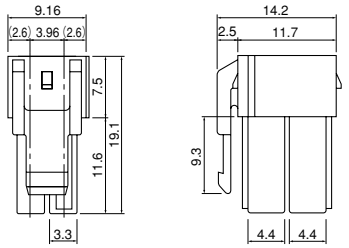
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSF-21T-P1.4	AP-K2N	MKS-L	MK/SSF/M-21-14	APLMK SSF/M21-14
		*MKS-SC	SC/SSF/M-21-14	APLSC SSF/M21-14

*Note: *Strip-crimp applicator*

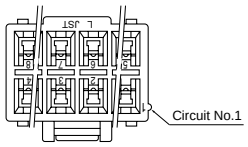
Housing

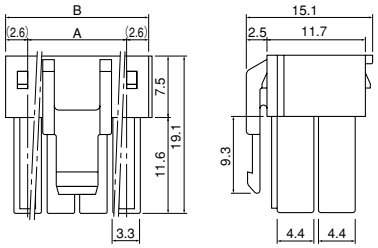
(4 circuits)





(8, 12 circuits)





Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
4	**HLP-04V**	—	—	500
8	**HLP-08V**	11.88	17.08	500
12	**HLP-12V**	19.8	25.0	500

Material
PA 66, UL94V-0, natural (white)

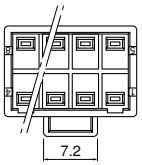
RoHS compliance

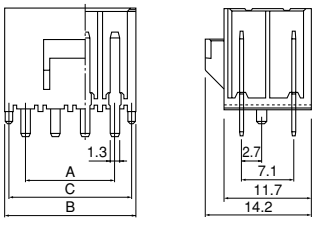
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **HLP-04V-oo**
(blank)…natural (white)
E…blue

Locking header

(4 to 12 circuits)





Cir-cuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
4	**B04P-HL-A**	3.96	9.56	8.46	200
8	**B08P-HL-A**	11.88	17.48	16.38	100
12	**B12P-HL-A**	19.80	25.40	24.30	50

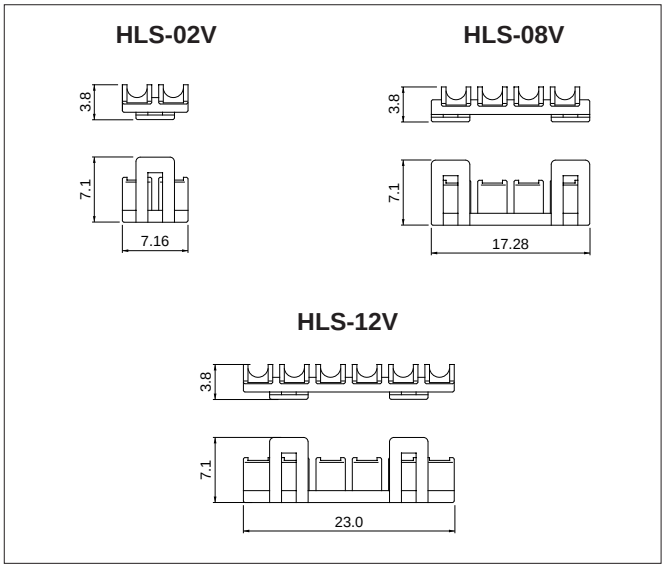
Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B04P-HL-A-oo**
(blank)…natural (white)
E…blue

Retainer

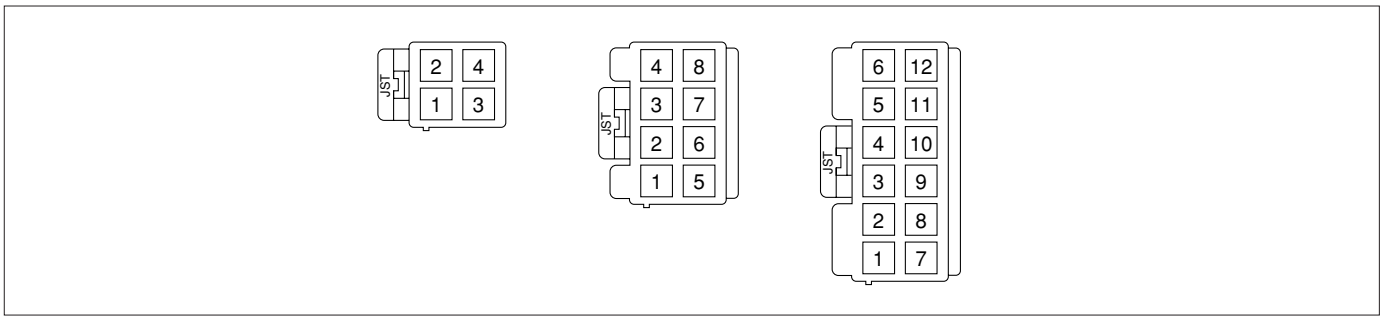


Applicable Housing Model No.	Retainer Model No.	Q'ty / bag
HLP-04V	**HLS-02V**	1,000
HLP-08V	**HLS-08V**	1,000
HLP-12V	**HLS-12V**	1,000

Material
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

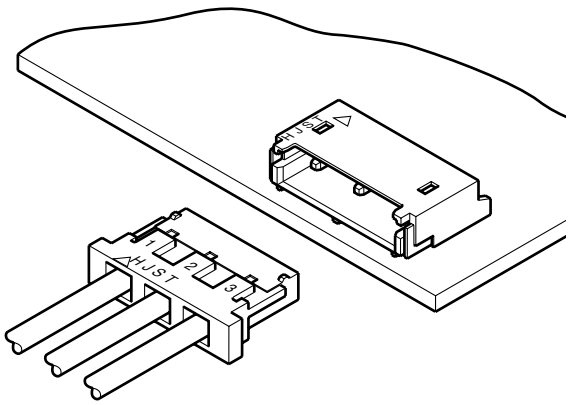
Contact position location numbers



BH CONNECTOR

Emboss Tape

4.0/8.0/12.0mm pitch/Disconnectable Crimp style connectors



Low profile connectors with high withstanding voltage, designed for connecting liquid crystal display back light lamps to their starters.

- ***Low profile***
- ***SMT configuration***
- ***Applicable to special wires***
- ***Headers with locating bosses***
- ***Housing lock also serves as polarizing device***

Specifications

- Current rating: 1.0A AC, DC (AWG #22)
- Voltage rating: 600V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,800V AC/minute
- Applicable wire: AWG #28 to #22

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

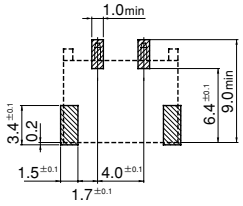
Recognized E60389

Certified LR20812

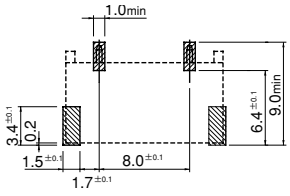
PC board layout (viewed from component side)

SMT type

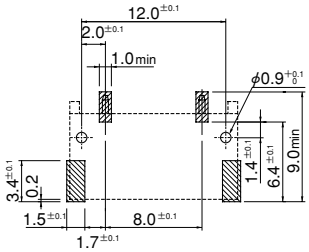
(2 circuits 4.0mm pitch)



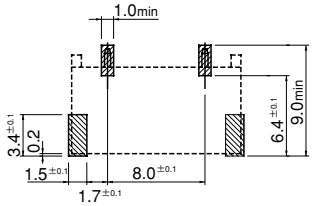
(2 circuits 8.0mm pitch)



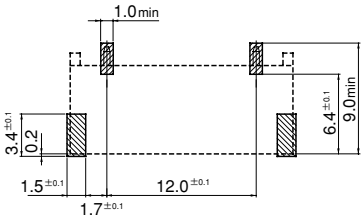
(2 circuits 8.0mm pitch with bosses)



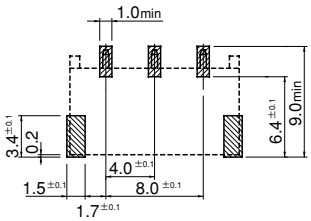
(2 circuits 8.0mm pitch plugged up)



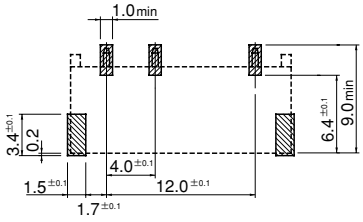
(2 circuits 12.0mm pitch)



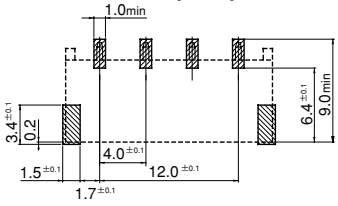
(3 circuits 4.0mm pitch)



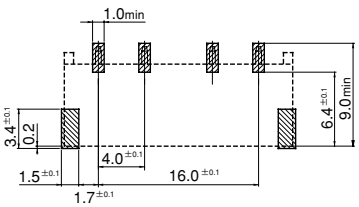
(3 circuits 4.0mm pitch plugged up)



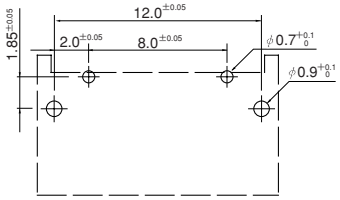
(4 circuits 4.0mm pitch)



(4 circuits 4.0mm pitch with post removed)

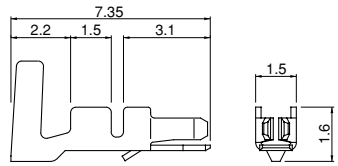


Through-hole type



Note: 1. Tolerances are for pattern non-cumulative: ±0.05mm for all centers. Tolerance for hole size is ±0.1.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SBH-001T-P0.5	0.08～0.33	28～22	1.6 ～2.4	4,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

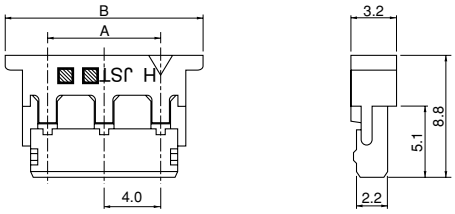
RoHS compliance
Note: Wire conductors should be tin-plated annealed copper strands.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBH-001T-P0.5	AP-K2N	MKS-L	MK/SBH/M-001-05	APLMK SBH/M001-05
		*MKS-SC1-1	SC/SBH/M-001-05	APLSC SBH/M001-05

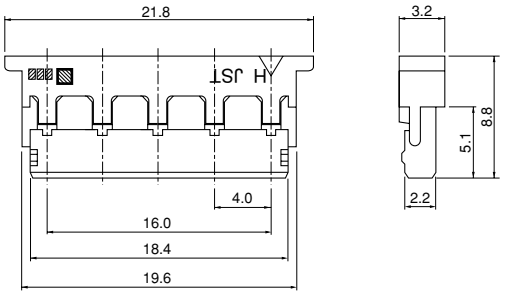
*Note: *Strip-crimp applicator*

Housing

2 to 4 circuits



5 circuits

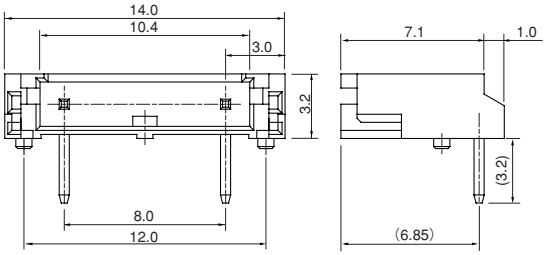


Circuits	Pitch (mm)	Model No.	Dimensions (mm)		Q'ty / bag
			A	B	
2	4	**BHR-02VS-1**	4.0	9.8	1,000
	8	**BHR-03VS-1**	8.0	13.8	1,000
	Note1) 8	**BHR-02(8.0)VS-1N**	8.0	13.8	1,000
	12	**BHR-04VS-1**	12.0	17.8	1,000
3	4	**BHR-03VS-1**	8.0	13.8	1,000
	Note2) 4	**BHR-03(4-3)VS-1N**	12.0	17.8	1,000
4	4	**BHR-04VS-1**	12.0	17.8	1,000
5	4	**BHR-05VS-1**	16.0	21.8	1,000

Material
PA 66, UL94V-0, natural (white)

RoHS compliance
Note: 1. BHR-02(8.0)VS-1N: 2 circuits 8.0mm pitch plugged up.
2. BHR-03(4-3)VS-1N: 4 circuits 4.0mm pitch header with circuit No.3 plugged up.

Through-hole type shrouded header



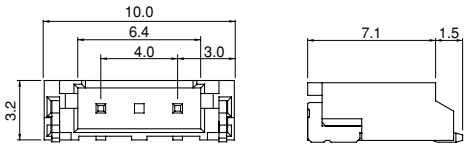
Circuits	Pitch (mm)	Model No.	Q'ty / tray
2	8	**S02(8.0)B-BHS**	1,000

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: PA, UL94V-0, natural (ivory)

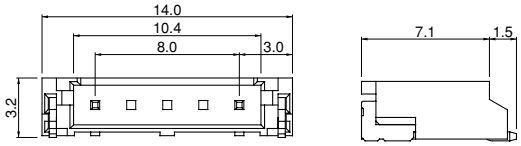
RoHS compliance *This product displays (LF)(SN) on a label.*
Note: The applicable housing is "BHR-02(8.0)VS-1N" only.

SMT type shrouded header

(2 circuits 4.0mm pitch)

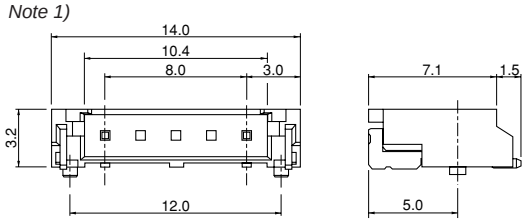


(2 circuits 8.0mm pitch)



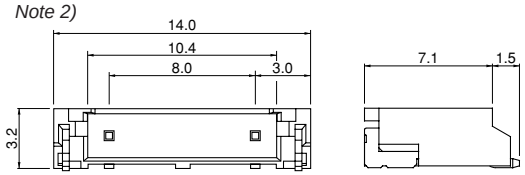
(2 circuits 8.0mm pitch with bosses)

Note 1)



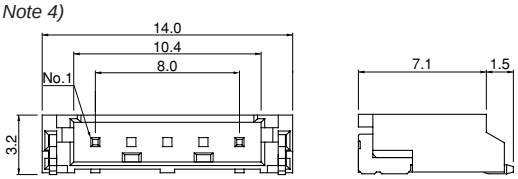
(2 circuits 8.0mm pitch plugged up)

Note 2)

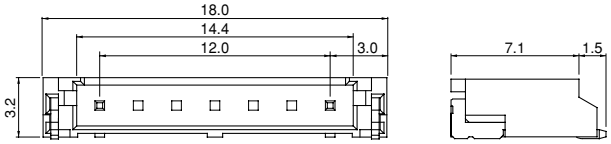


(2 circuits 8.0mm pitch with ribs against prying)

Note 4)

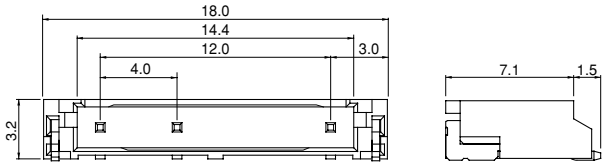


(2 circuits 12.0mm pitch)

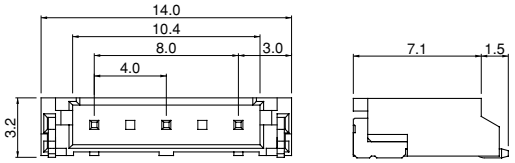


(3 circuits 4.0mm pitch plugged up)

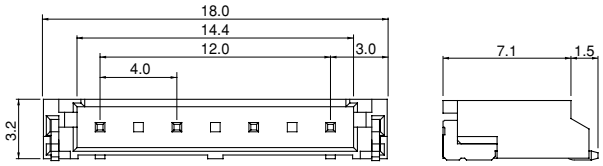
Note 3)



(3 circuits 4.0mm pitch)



(4 circuits 4.0mm pitch)

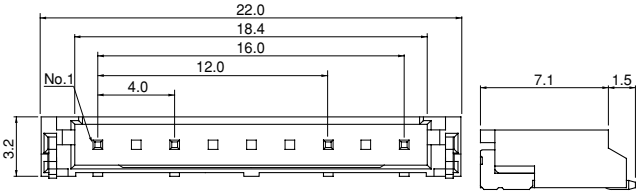


Circuits	Pitch(mm)	Model No.	Q'ty / reel
2	4	**SM02(4.0)B-BHS-1-TB**	1,000
	8	**SM02(8.0)B-BHS-1-TB**	1,000
	Note1) 8	**SM02(8.0)B-BHS-TB**	1,000
	Note2) 8	**SM02(8.0)B-BHS-1N-TB**	1,000
	Note4) 8	**SM02(8.0)B-BHS-1R-TB**	1,000
	12	**SM02(12)B-BHS-1-TB**	1,000
3	4	**SM03(4.0)B-BHS-1-TB**	1,000
	Note3) 4	**SM03(7-D1)B-BHS-1N-TB**	1,000
4	4	**SM04(4.0)B-BHS-1-TB**	1,000
5	Note5) 4	**SM04(9-E2)B-BHS-1-TB**	1,000

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: PA, UL94V-0, natural (ivory) Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

(4 circuits 4.0mm pitch with post removed)

Note 5)

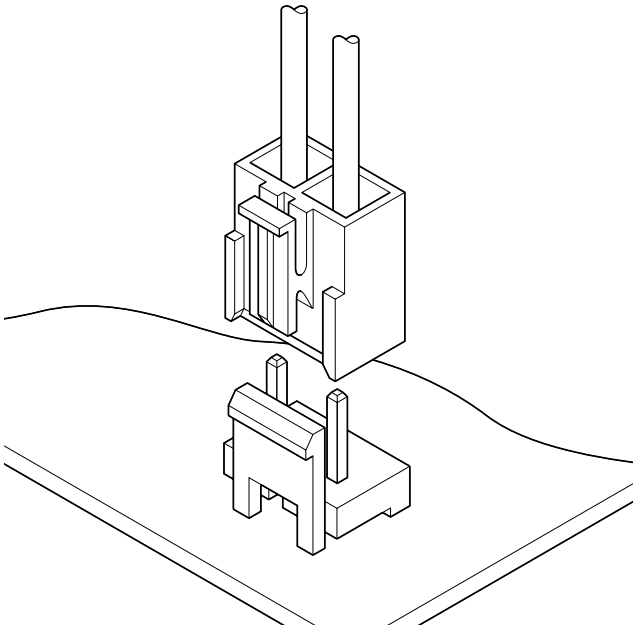


RoHS compliance *This product displays (LF)(SN) on a label.*

Note: 1. Header with bosses. Contact JST for other circuits headers with bosses.
2. 2 circuits 8.0mm pitch plugged up.
3. 4 circuits 4.0mm pitch header with circuit No.3 plugged up.
4. Header with ribs against prying. Contact JST for other circuits headers with ribs against prying.
5. 5 circuits 4.0mm pitch header with circuit No.3 post removed.
6. The products listed above are supplied on embossed tape.
7. Products with bosses supplied in loose piece are also available. Contact JST for details.

NV CONNECTOR

5.0mm pitch/Disconnectable Crimp style connectors



- ***Side stackable***
- ***Box contact***
- ***Compact connector with a large capacity***
- ***Secure contact and mounting***

Specifications

- Current rating: 10A AC, DC (AWG #16)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #16
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

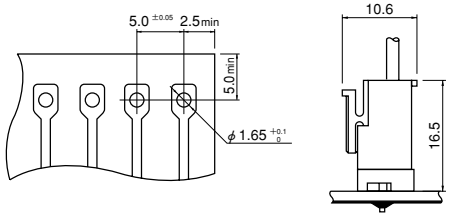
Standards

Recognized E60389

Certified LR20812

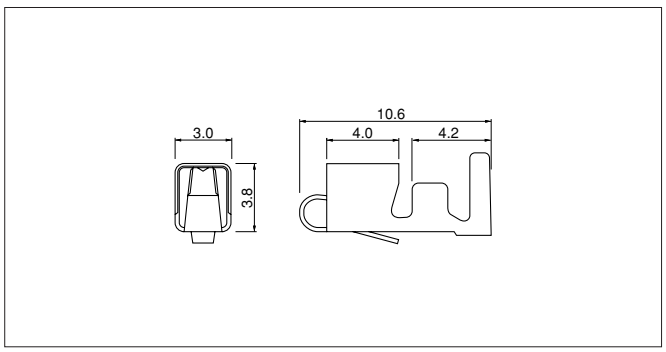
R9251676

PC board layout (viewed from soldering side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SVH-21T-P1.1	0.33～0.83	22～18	1.7～3.0	4,500
SVH-41T-P1.1	0.5 ～1.25	20～16	1.7～3.0	3,500

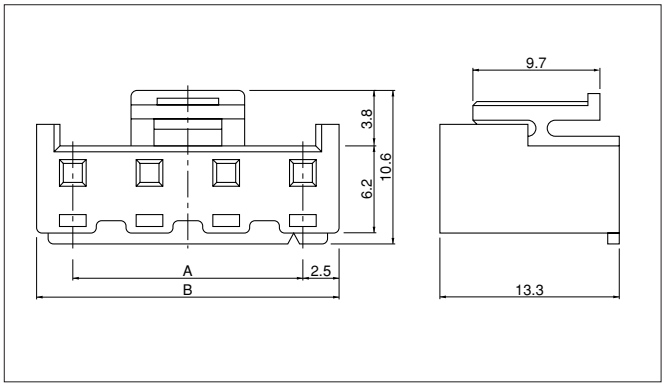
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVH-21T-P1.1	AP-K2N	MKS-L	MK/SVH-21-11	APLMK SVH21-11
		*MKS-SC	SC/SVH-21-11	APLSC SVH21-11
SVH-41T-P1.1		MKS-L	MK/SVH-41-11	APLMK SVH41-11
		—	—	—

*Note: *Strip-crimp applicator*

Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	**NVR-02**	5.0	10.0	1,000
3	**NVR-03**	10.0	15.0	500
4	**NVR-04**	15.0	20.0	1,000

Material

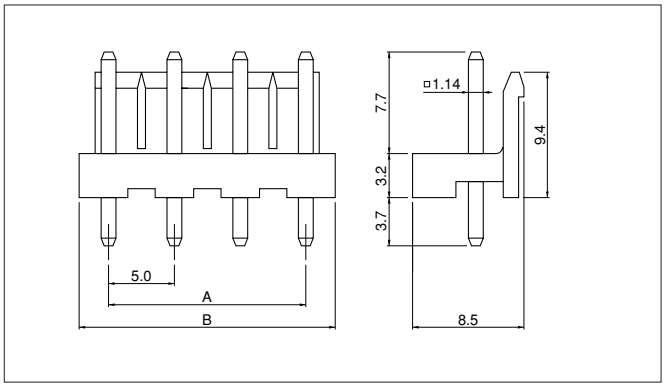
PA 6, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **NVR-02-oo**
(blank)…natural (white)
E…blue

Locking header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	**B02P-NV**	5.0	10.0	1,000
3	**B03P-NV**	10.0	15.0	700
4	**B04P-NV**	15.0	20.0	500

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: B02P-NV...PA 66,UL94V-0, natural (white)
B03P-NV & B04P-NV...Glass-filled PBT, UL94V-0, natural (white)

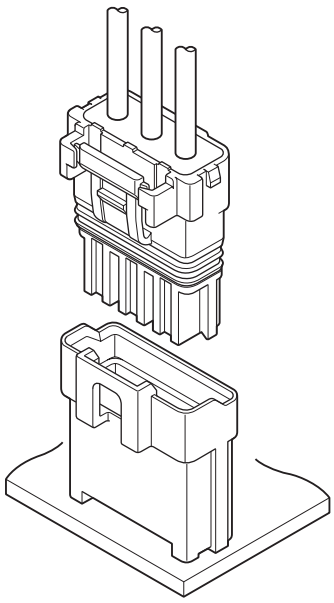
RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02P-NV-oo**
(blank)…natural (white)
BL…blue

WPJ CONNECTOR

5.0mm pitch/Disconnectable Crimp style connectors



Compact, Water Resist and Durable. This connector for electrical connection can be used on both waterproof and non-waterproof conditions, depending on the usage. Just by placing a rubber part will change it into a water resistant connector. Both conditions are using the same header.

- ***Waterproof Performance [Grade 7 ingress protection of JIS C 0920 (IEC 60529 IPX7)]***
- ***Control Key System***
- ***Contacting part of contact is hardly deformed***
- ***Inner-housing lock***
- ***Compact Design***

Specifications

- Current rating: 7A AC, DC (AWG #18)
- Voltage rating: 300V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: Conductor size/AWG #22 to #18
  Insulation O.D./2.32 to 2.83mm
  1.52 to 2.03mm
- Waterproof grade: Grade 7 ingress protection of JIS C 0920(IEC 60529 IPX7)

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

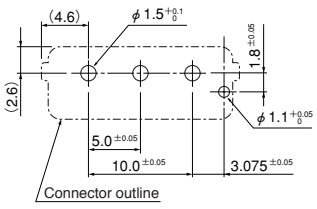
Standards

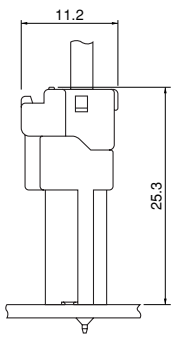
Recognized E60389

Certified LR20812

File No.R50073100

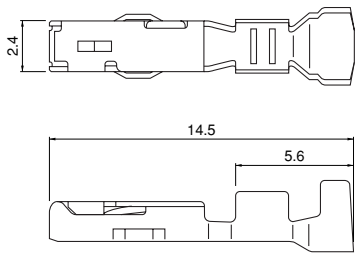
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Contact



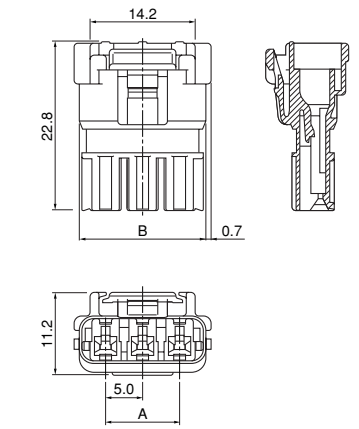
Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SWPJR-21T-M0.5	0.33～0.83	22～18	2.32～2.83	4,500
***SWPJR-21T-M0.5A**	0.33～0.83	22～18	1.52～2.03	4,500

Material and Finish
Copper alloy, tin-plated (reflow treatment)

RoHS compliance
*Note: *Marked product is not UL/CSA/TÜV approved.*

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPJR-21T-M0.5	AP-K2N	MKS-L	MK/SWPJR/T-21-05	APLMK SWPJR/T21-05
		—	—	—
SWPJR-21T-M0.5A		MKS-L	MK/SWPJR/T-21-05A	APLMK SWPJR/T21-05A
		—	—	—

Housing



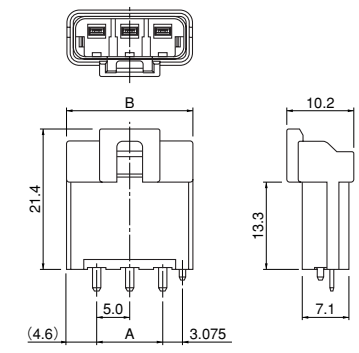
Receptacle housing

Circuits	Model No.	A	B	Q'ty / bag
2	**WPJR-02V-1-S**	—	12.1	1,000
3	**WPJR-03V-1-S**	10.0	17.1	1,000

Material
Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance
<For reference> Polarizing key pattern
Key pattern No.1(Color: Natural): **WPJR-02V-1-S**
Key pattern No.2(Color: Red): **WPJR-02V-2-R**
Key pattern No.3(Color: Blue): **WPJR-02V-3-E**
For availability, delivery and minimum order quantity, contact JST.

Header



Circuits	Model No.	A	B	Q'ty / bag
2	**B02B-WPJSS-1**	—	14.2	400
3	**B03B-WPJSS-1**	10.0	19.2	300

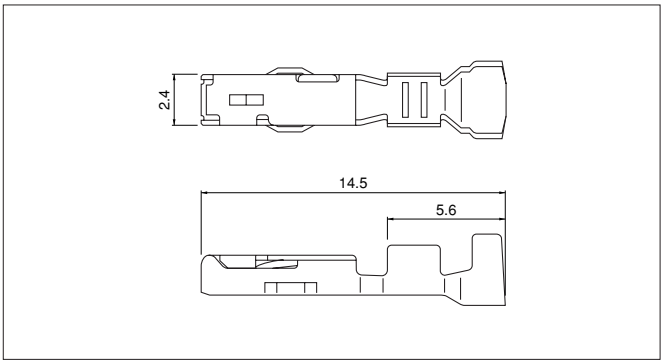
Material and Finish
Wafer: Glass-filled PBT, UL94V-0 Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*
<For reference> Polarizing key pattern
Key pattern No.1(Color: Natural): **B02B-WPJSS-1**
Key pattern No.2(Color: Red): **B02B-WPJRS-2**
Key pattern No.3(Color: Blue): **B02B-WPJES-3**
For availability, delivery and minimum order quantity, contact JST.

WPJ CONNECTOR

(Waterproof type)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SWPJR-21T-M0.5	0.33～0.83	22～18	2.32～2.83	4,500

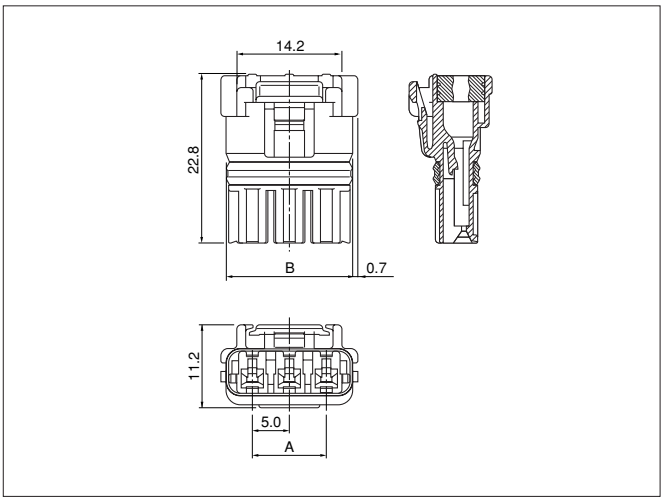
Material and Finish

Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPJR-21T-M0.5	AP-K2N	MKS-L	MK/SWPJR/T-21-05	APLMK SWPJR/T21-05
		—	—	—

Housing



Receptacle housing assembly

Circuits	Model No.	A	B	Q'ty / box
2	**02R-WPJV-1-SMM**	–	12.1	240
3	**03R-WPJV-1-SMM**	10.0	17.1	192

Material

Receptacle housing: Glass-filled PBT, UL94V-0, natural (white)
Seal ring: Silicon, green
Seal rubber plate: Silicon, green

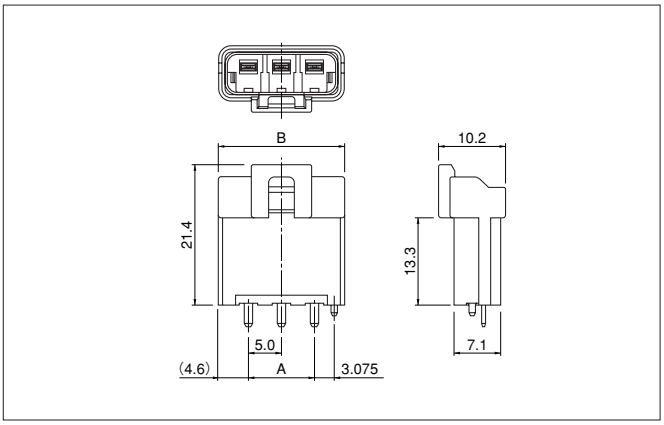
RoHS compliance

<For reference> Polarizing key pattern

Key pattern No.1(Color: Natural): **02R-WPJV-1-SMM**
Key pattern No.2(Color: Red): **02R-WPJV-2-RMM**
Key pattern No.3(Color: Blue): **02R-WPJV-3-EMM**

For availability, delivery and minimum order quantity, contact JST.

Header



Circuits	Model No.	A	B	Q'ty / bag
2	**B02B-WPJSS-1**	–	14.2	400
3	**B03B-WPJSS-1**	10.0	19.2	300

Material and Finish

Wafer: Glass-filled PBT, UL94V-0
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

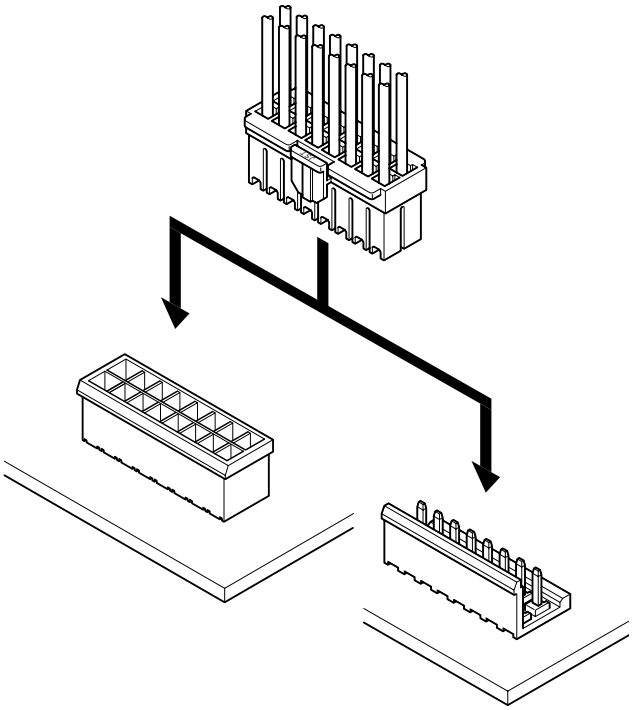
<For reference> Polarizing key pattern

Key pattern No.1(Color: Natural): **B02B-WPJSS-1**
Key pattern No.2(Color: Red): **B02B-WPJRS-2**
Key pattern No.3(Color: Blue): **B02B-WPJES-3**

For availability, delivery and minimum order quantity, contact JST.

XL CONNECTOR

5.0mm pitch/Disconnectable Crimp style connectors



The reliable XL connectors have been developed by utilizing the technology of JST's field proven VH and SM connectors. The XL connectors are being used in electric appliances, vending machines, and office automation equipment.

- ***Reliable housing construction***
- ***Easy contact insertion***
- ***Box-shaped contact***
- ***Two kinds of connections***

Specifications

- Current rating: 10A AC, DC (Refer to the table below.)
- Voltage rating: 150V AC, DC
- Temperature range: -25˚C to +90˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
  After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Note:
The rated current varies depending on the number of circuits and the size of the wire to be connected by crimping.

Current unit:A

Circuits	Wire size(AWG)					
	#16	#18	#20	#22	#24	#26
2	10	6	5	4	3	3
3	9	5	4	3	3	2
4	9	5	4	3	3	2
8	6	4	3	3	2	2
12	6	4	3	3	2	2
16	5	3	2	2	1	1

Note:
Do not branch in parallel current which exceeds the rated current per circuit listed below. (Example: more than 10A in the case of a 2-circuit connector using AWG #16 wires.) If branched in parallel, current imbalance or other problems may develop.

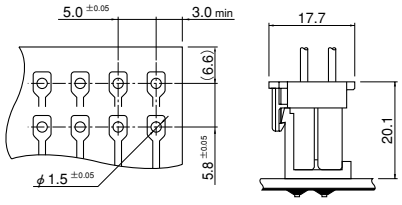
Standards

Recognized E60389

Certified LR20812

R75150

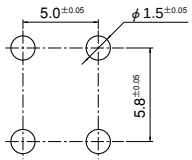
Locking header PC board layout (viewed from soldering side) and Assembly layout



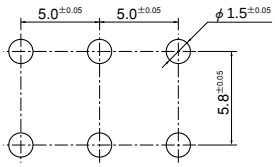
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Shrouded header PC board layout (viewed from component side)

[HDS type]
Top entry type



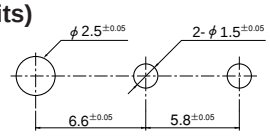
[HDS type]
Side entry type



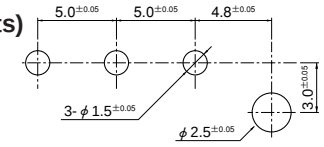
Shrouded header PC board layout (viewed from component side)

[HDB type] Top entry type

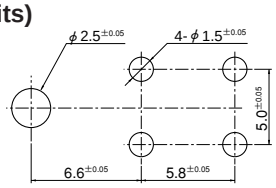
(2 circuits)



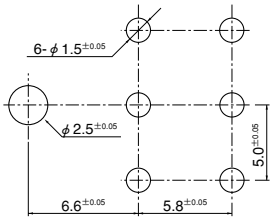
(3 circuits)



(4 circuits)

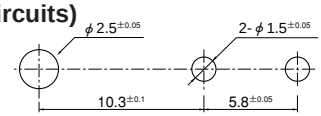


(6 circuits)

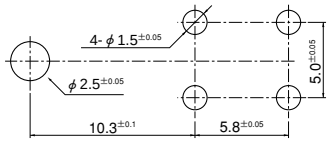


[HDB type] Side entry type

(2 circuits)

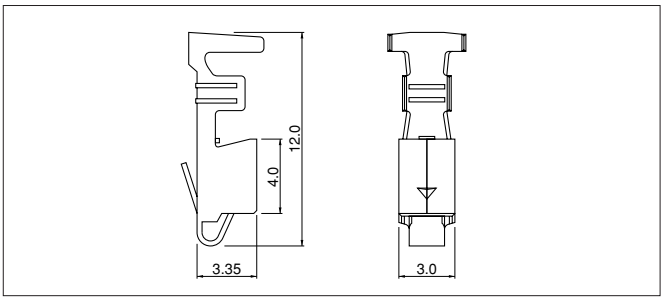


(4 circuits)



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SXF-01T-P0.7	0.13～0.5	26～20	1.3～2.7	3,000
SXF-41T-P0.7	0.5 ～1.25	20～16	1.9～3.1	
	0.3×2 ～ 0.5×2	22×2 ～ 20×2	1.7×2 ～ 2.0×2	

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

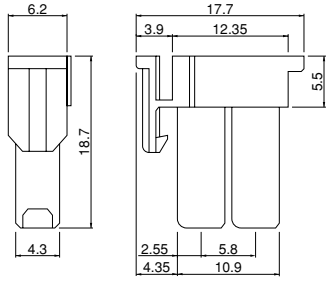
RoHS compliance
Note: Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXF-01T-P0.7	AP-K2N	MKS-L	MK/SXF-01-07	APLMK SXF01-07
		—	—	—

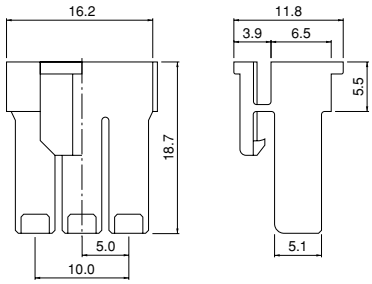
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXF-41T-P0.7	AP-K2N	MKS-L	MK/SXF-41-07	APLMK SXF41-07
		—	—	—

Housing

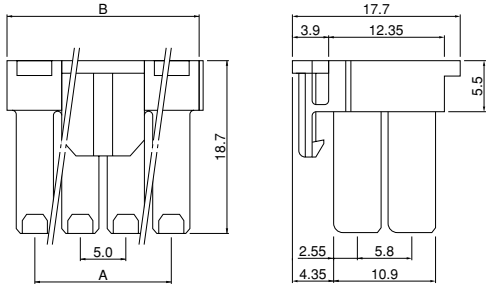
(2 circuits)



(3 circuits)



(4 to 16 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	**XLP-02V**	—	—	500
3	**XLP-03V**	—	—	500
4	**XLP-04V**	5.0	11.2	500
8	**XLP-08V**	15.0	21.2	500
12	**XLP-12V**	25.0	31.2	200
16	**XLP-16V**	35.0	41.2	200

Material

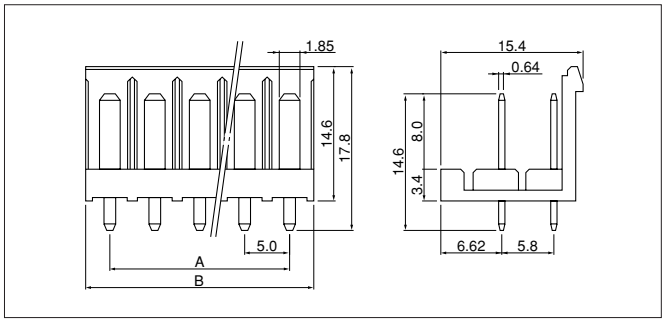
PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **XLP-02V-oo**
(blank)…natural (white)
K…black R…red E…blue Y…yellow

Locking header



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	**B02P-XL**	—	5.0	250
4	**B04P-XL**	5.0	10.0	200
8	**B08P-XL**	15.0	20.0	100
12	**B12P-XL**	25.0	30.0	50
16	**B16P-XL**	35.0	40.0	50

Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*

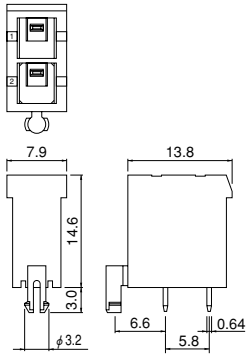
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02P-XL-oo**
(blank)…natural (white) K…black R…red E…blue Y…yellow

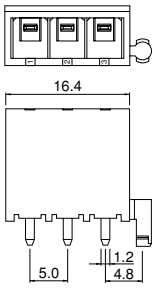
Shrouded header <HDB type>

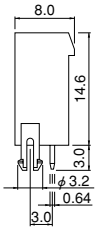
Top entry type

(2 circuits)

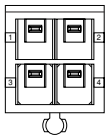


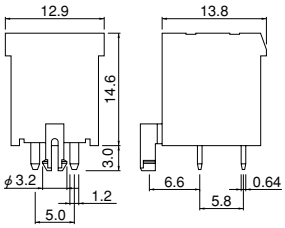
(3 circuits)



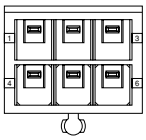


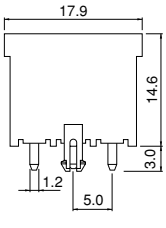
(4 circuits)

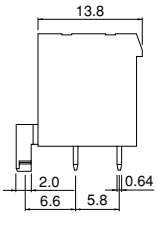




(6 circuits)







Circuits	Model No.		Q'ty / box	
	Top entry type	Side entry type	Top entry type	Side entry type
2	**B02P-XL-HDB**	**S02P-XL-HDB**	200	100
3	**B03P-XL-HDB**	—	200	—
4	**B04P-XL-HDB**	**S04P-XL-HDB**	200	100
6	**B06P-XL-HDB**	—	100	—

Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

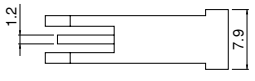
RoHS compliance *This product displays (LF)(SN) on a label.*

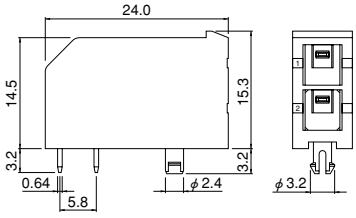
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02P-XL-HDB-oo , S02P-XL-HDB-oo**
(blank)…natural (white)
K…black R…red E…blue Y…yellow
M…green H…gray N…brown D…orange
L…lemon yellow

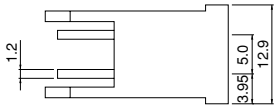
Side entry type

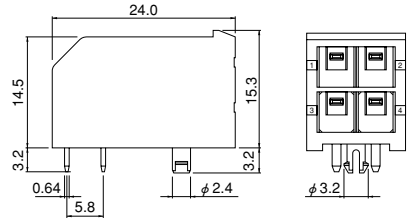
(2 circuits)





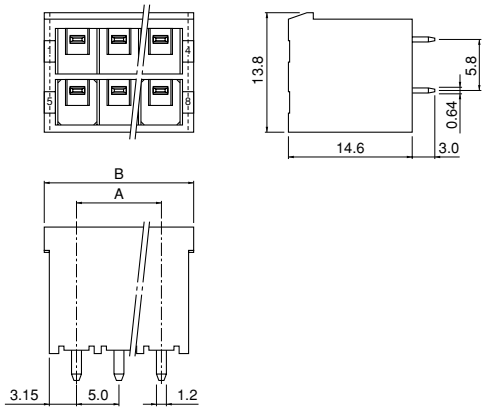
(4 circuits)



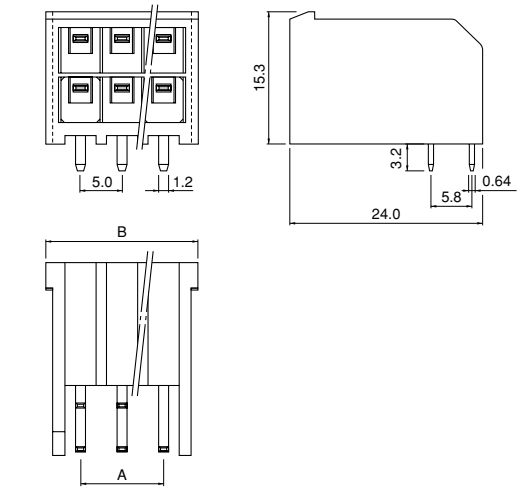


Shrouded header <HDS type>

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty	
	Top entry type	Side entry type	A	B	Top/bag	Side/box
2	**B02P-XL-HDS**	—	—	7.9	200	—
4	**B04P-XL-HDS**	—	5.0	12.9	200	—
8	**B08P-XL-HDS**	**S08P-XL-HDS**	15.0	22.9	100	40
12	**B12P-XL-HDS**	**S12P-XL-HDS**	25.0	32.9	50	30
16	**B16P-XL-HDS**	**S16P-XL-HDS**	35.0	42.9	40	20

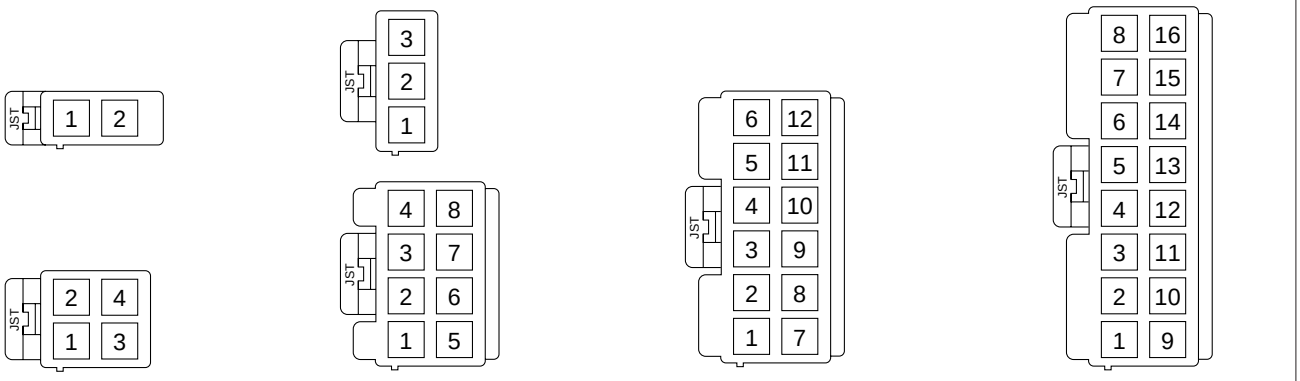
Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

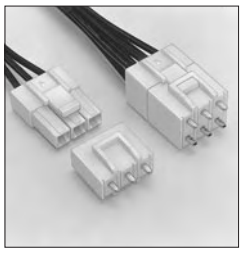
RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B08P-XL-HDS-oo , S08P-XL-HDS-oo**
(blank)…natural (white)
K…black R…red E…blue Y…yellow

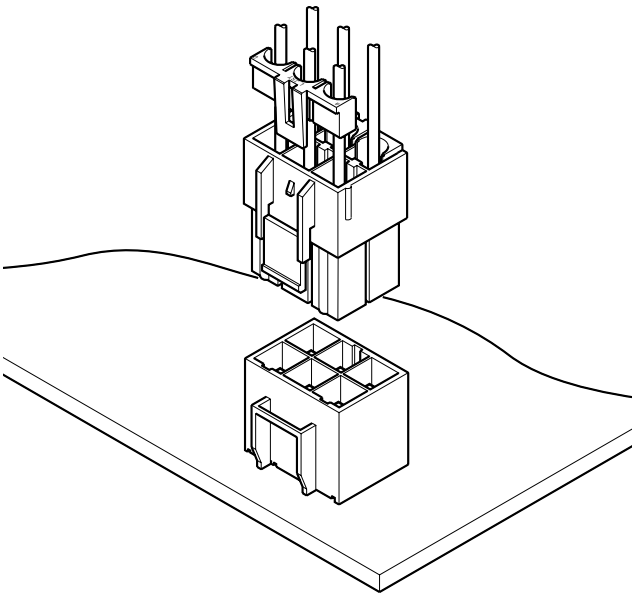
Contact position location numbers





VL CONNECTOR

6.2mm pitch/Disconnectable Crimp style connectors



This VL connector is designed for wire-to-wire and wire-to-board 6.2mm pitch connector corresponding to large current. Secondary retainer, which prevents from insufficient insertion of contact and coming off contact, may use and large current circuit can be connected certainly and safety.

- ***Housing lances for contact retention***
- ***Secondary retainer***
- ***Suited for large current***
- ***Two kinds of connections***

Specifications

- Current rating: 20A AC, DC (Refer to the table below.)
- Voltage rating: 600V AC, DC
- Temperature range: -25˚C to +90˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max. After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 2,000V AC/minute
- Applicable wire: AWG #22 to #12
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.

* Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105˚C.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Note: The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit:A

Circuits	Wire size(AWG)					
	#12	#14	#16	#18	#20	#22
2	20	15	10	8	6	4
3	17	14	9	8	6	4
4	16	13	9	7	6	4
6	15	12	8	7	5	3
8	14	11	7	6	5	3
12	13	10	7	6	4	3

Note: Do not branch in parallel current which exceeds the rated current (eg. more than 17A in the case of 3 circuits with AWG #12). If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, design the circuits without causing any imbalance and provide an extra margin for each circuit.

Standards

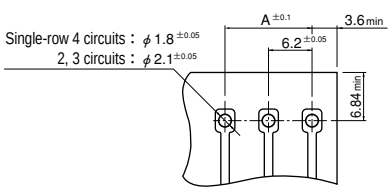
Recognized E60389

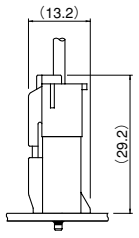
Certified LR20812

R9351103

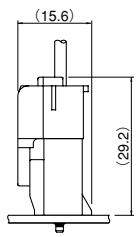
PC board layout (viewed from soldering side) and Assembly layout

(2, 3, Single-row 4 circuits)



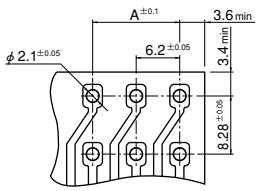


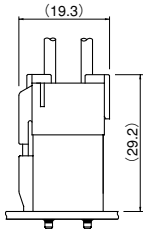
<Inner-housing lock>



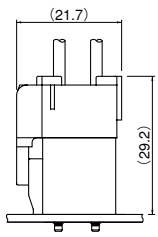
<Outer-housing lock>

(4, 6, 8, 12 circuits)





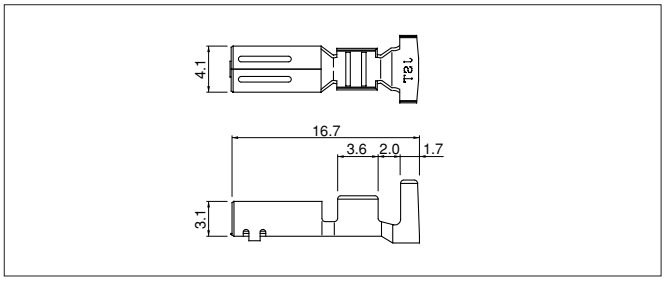
<Inner-housing lock>



<Outer-housing lock>

Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D.(mm)	Q'ty / reel
	mm²	AWG #		
***SVF-42T-P2.0**	0.3 ～1.25	22～16	1.7 ～3.2	2,000
SVF-61T-P2.0	0.5 ～2.0	20～14	1.9 ～3.4	2,000
SVF-81T-P2.0	3.5	12	4.1	2,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

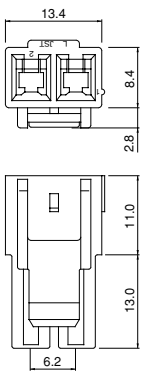
RoHS compliance
*Note: *Marked product is not TÜV approved.*

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVF-42T-P2.0	AP-K2N	MKS-L	MK/SVF/M-42-20	APLMK SVF/M42-20
		—	—	—
SVF-61T-P2.0		MKS-L	MK/SVF/M-61-20	APLMK SVF/M61-20
		—	—	—

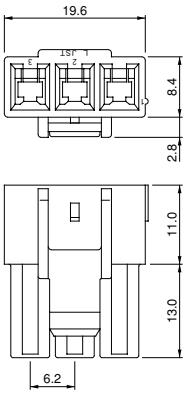
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVF-81T-P2.0	AP-K2N	MKS-L	MK/SVF/M-81-20	APLMK SVF/M81-20
		—	—	—

Housing (Inner-housing lock)

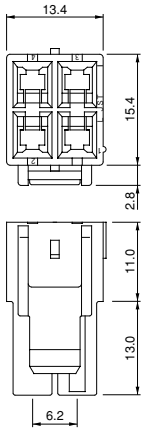
(2 circuits)



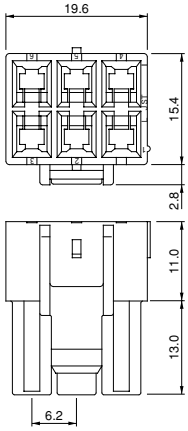
(3 circuits)



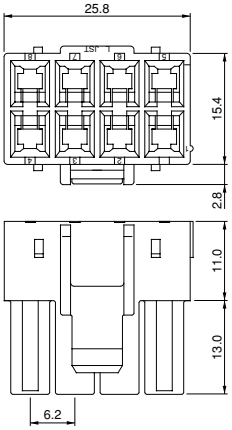
(4 circuits)



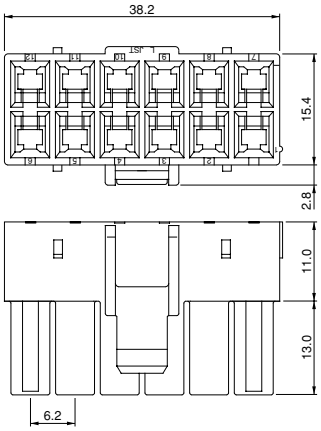
(6 circuits)



(8 circuits)



(12 circuits)



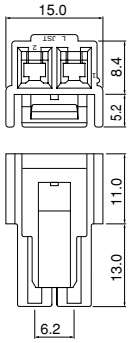
Circuits	Model No.	Q'ty / bag
2	**VLP-02V**	500
3	**VLP-03V**	500
4	**VLP-04V**	500
6	**VLP-06V**	500
8	**VLP-08V**	200
12	**VLP-12V**	100

Material
PA 66, UL94V-0, natural (white)

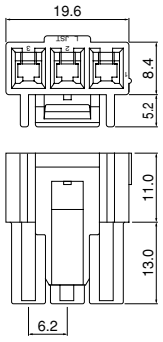
RoHS compliance

Housing (Outer-housing lock)

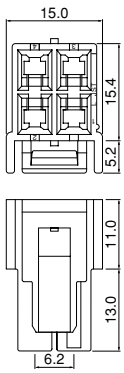
(2 circuits)



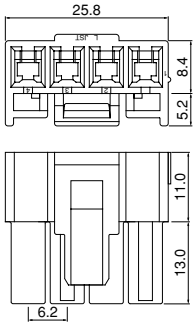
(3 circuits)



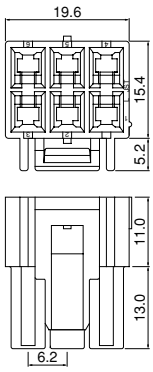
(4 circuits)



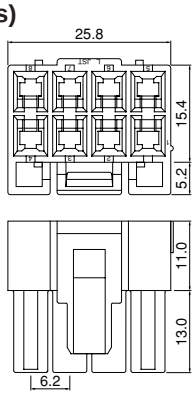
(Single-row 4 circuits)



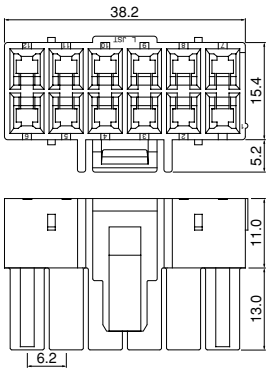
(6 circuits)



(8 circuits)



(12 circuits)



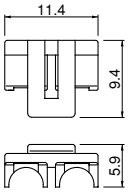
Circuits	Model No.	Q'ty / bag
2	**VLP-02V-1**	500
3	**VLP-03V-1**	500
4	**VLP-04V-1**	500
4(single-row)	**VLP-04VN-1**	500
6	**VLP-06V-1**	500
8	**VLP-08V-1**	200
12	**VLP-12V-1**	100

Material
PA 66, UL94V-0, natural (white)

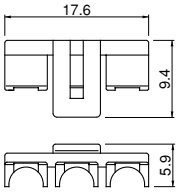
RoHS compliance

Retainer

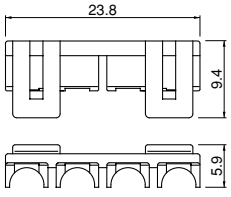
(2, 4 circuits)



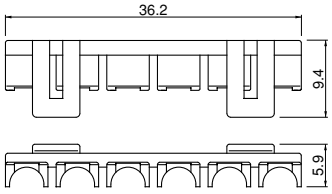
(3, 6 circuits)



(Single-row 4 circuits, 8 circuits)



(12 circuits)



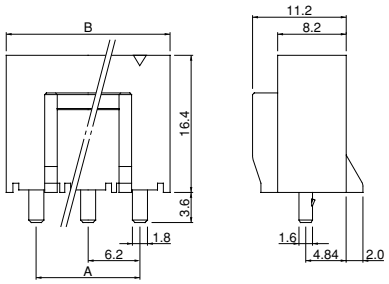
Cir-cuits	Model No.	Q'ty / bag
2, 4	**VLS-02V**	1,000
3, 6	**VLS-03V**	1,000
4(single-row),8	**VLS-08V**	1,000
12	**VLS-12V**	1,000

Material
Glass-filled PA 66, UL94V-0, natural (ivory)

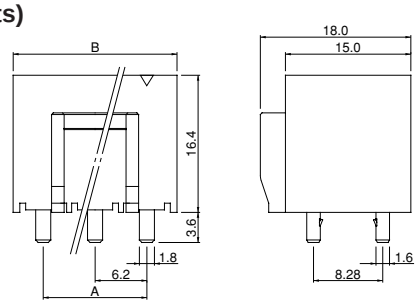
RoHS compliance

Shrouded header

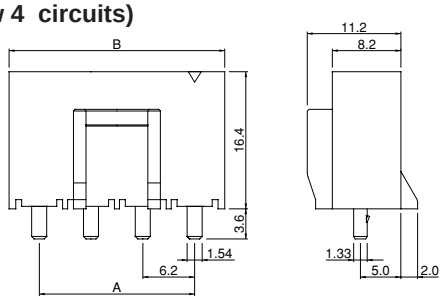
(2, 3 circuits)



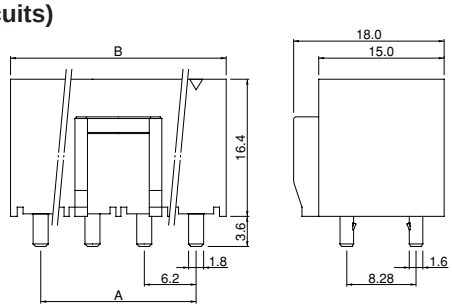
(4, 6 circuits)



(Single-row 4 circuits)



(8, 12 circuits)



Cir-cuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	**B02P-VL**	6.2	13.4	100
3	**B03P-VL**	12.4	19.6	100
4	**B04P-VL**	6.2	13.4	100
4(single-row)	**B04P-VL-VN-1.8**	18.6	26.2	100
6	**B06P-VL**	12.4	19.6	50
8	**B08P-VL**	18.6	26.2	50
12	**B12P-VL**	31.0	38.6	40

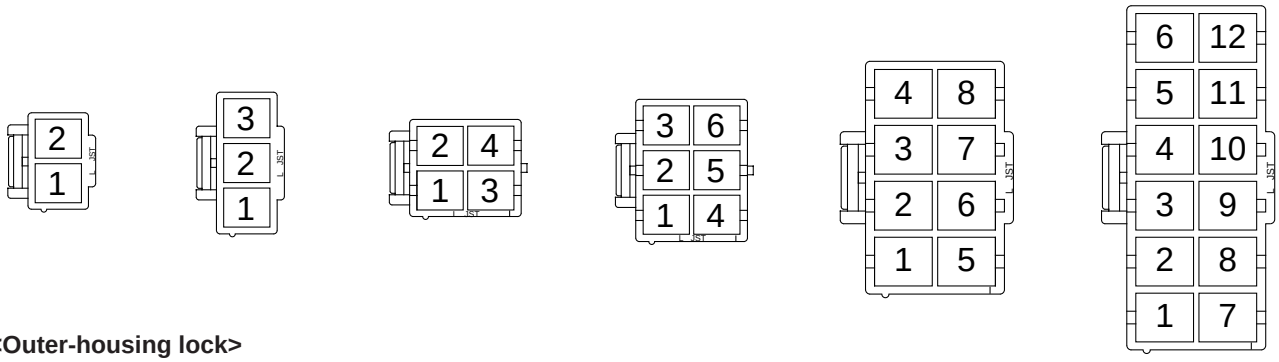
Material and Finish
Post: Copper-alloy, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance

Contact position location numbers

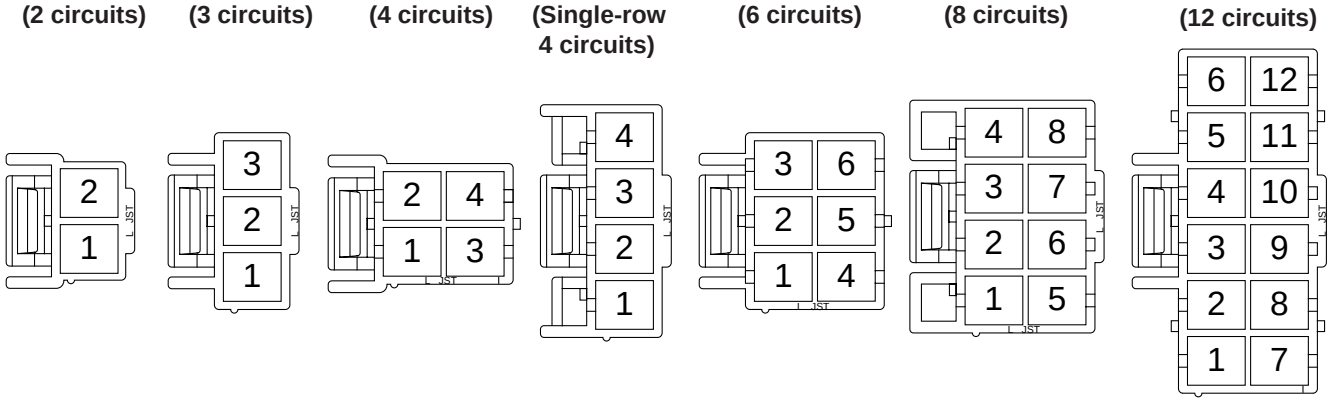
<Inner-housing lock>

(2 circuits) **(3 circuits)** **(4 circuits)** **(6 circuits)** **(8 circuits)** **(12 circuits)**



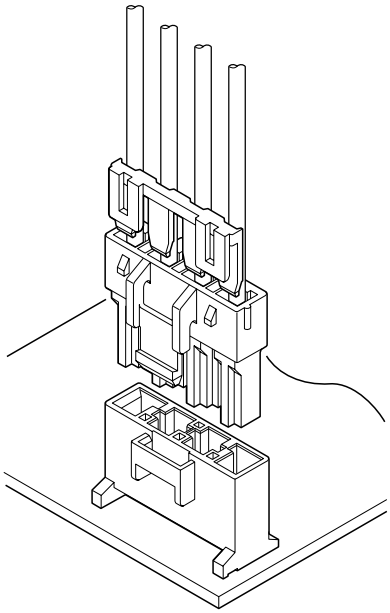
<Outer-housing lock>

(2 circuits) **(3 circuits)** **(4 circuits)** **(Single-row 4 circuits)** **(6 circuits)** **(8 circuits)** **(12 circuits)**



VYH CONNECTOR

6.5mm pitch/Disconnectable Crimp style connectors



This VYH connector is designed for wire-to-board 6.5mm pitch connector corresponding to large current. Secondary retainer, which prevents from insufficient insertion of contact and coming off contact, may use and large current circuit can be connected certainly and safely.

- ***Corresponding to large current***
- ***Misinsertion prevention***
- ***Housing lance for contact retention***
- ***Secondary retainer***

Specifications

- Current rating: 15A AC, DC (2 circuits/ AWG #14)
- Voltage rating: 300V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #14
- Applicable PC board thickness: 1.6mm

Note: The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit:A

Circuits	Wire size(AWG)						
	#14	#16	#18	#20	#22	#24	#26
2	15	10	7	5	4	3	2
3	14	9	6	4	4	3	2
4	13	9	6	4	4	3	2
6	12	8	5	3	3	2	2

Note: Do not branch in parallel current which exceeds the rated current (eg. more than 15A in the case of 2 circuits with AWG #14). If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, design the circuits without causing any imbalance and provide an extra margin for each circuit.

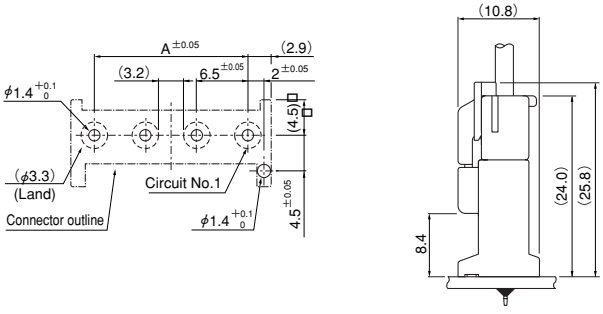
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

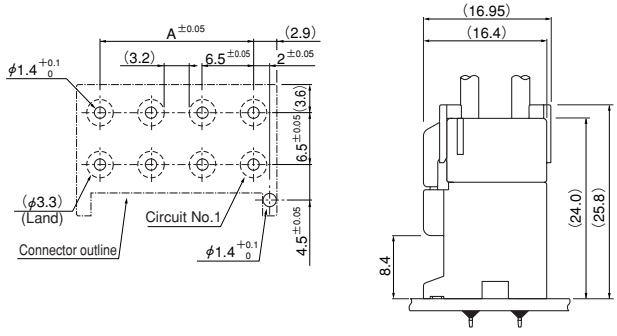
Recognized E60389
R50036139

PC board layout (viewed from component side) and Assembly layout

Single-row type



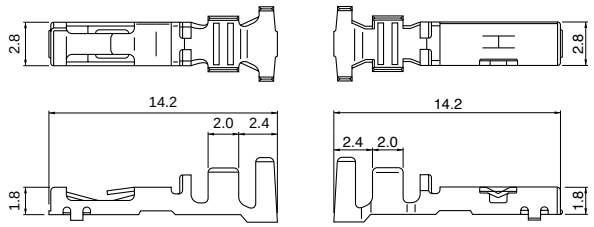
Double-row type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact

SVYF type



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SYF-01T-P0.5A	0.13～0.5	26～20	1.3～2.5	4,000
SYF-41T-P0.5A	0.5 ～1.25	20～16	2.0～3.4	4,000
SYF-61T-P0.5A	0.75～2.0	18～14	2.1～3.4	2,000
***SVYF-41T-P0.5A-13.5**	0.5 ～1.25	20～16	2.0～3.4	4,000
***SVYF-61T-P0.5A**	0.75～2.0	18～14	2.1～3.6	2,000

Material and Finish
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Note: 1. SVYF type contact was developed only for VYH connector in order to improve the prevention of prying.
2. Retainer cannot be used when using 41 type contact AWG#16 and 61 type contact.
*3. *Marked products are not TÜV approved.*

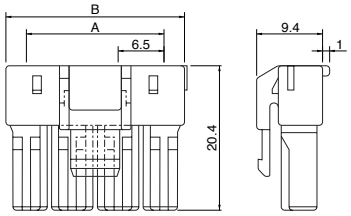
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYF-01T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-01-05	APLMK SYF/M01-05
		*MKS-SC-YL	SC/SYF/M-01-05	APLSC SYF/M01-05
SYF-61T-P0.5A		MKS-L	MK/SYF/M-61-05	APLMK SYF/M61-05
		—	—	—
SVYF-61T-P0.5A		MKS-L	MK/SYF/M-61-05	APLMK SYF/M61-05
		—	—	—

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYF-41T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-41-05	APLMK SYF/M41-05
		*MKS-SC-YL	SC/SYF/M-41-05	APLSC SYF/M41-05
SVYF-41T-P0.5A-13.5		MKS-L	MK/SVYF-41-05-13.5	APLMK SVYF41-05-13.5
		—	—	—

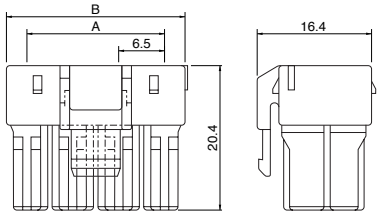
*Note: *Strip-crimp applicator*

Housing

Single-row type



Double-row type



Type	Cir-cuits	Model No.	Dimensions (mm)		Q'ty / bag
			A	B	
Single-row type	2	**VYHP-02V**	6.5	12.3	400
	3	**VYHP-03V**	13.0	18.8	300
	4	**VYHP-04V**	19.5	25.3	200
Double-row type	4	**VYHP-04VD**	6.5	12.3	200
	6	**VYHP-06VD**	13.0	18.8	150

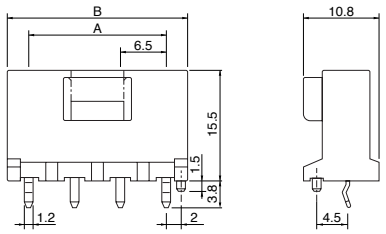
Material
PA 66, UL94V-0, natural (white)

RoHS compliance

VYH CONNECTOR

Shrouded header

Single-row type

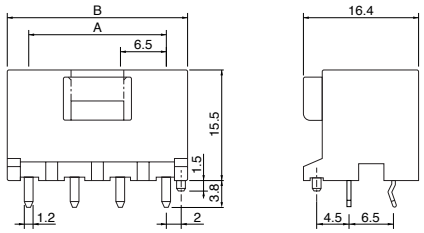


Type	Circuits	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
Single-row type	2	**B02B-VYHSK-1**	6.5	12.3	400
	3	**B03B-VYHSK-1**	13.0	18.8	300
	4	**B04B-VYHSK-1**	19.5	25.3	200
Double-row type	4	**B04B-VYHSK-D-1**	6.5	12.3	200
	6	**B06B-VYHSK-D-1**	13.0	18.8	150

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*

Double-row type

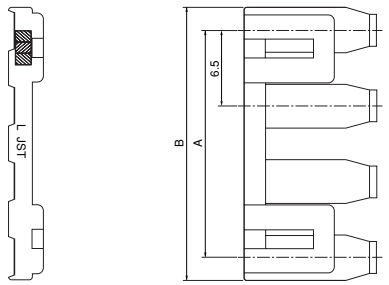


Type	Circuits	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
Single-row type	2	**B02B-VYHSK-M-1**	6.5	12.3	400
	3	**B03B-VYHSK-M-1**	13.0	18.8	300
	4	**B04B-VYHSK-M-1**	19.5	25.3	200
Double-row type	4	**B04B-VYHSK-DM-1**	6.5	12.3	200
	6	**B06B-VYHSK-DM-1**	13.0	18.8	150

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PA66, UL94V-0, natural (ivory)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Not UL/TÜV approved.

Retainer



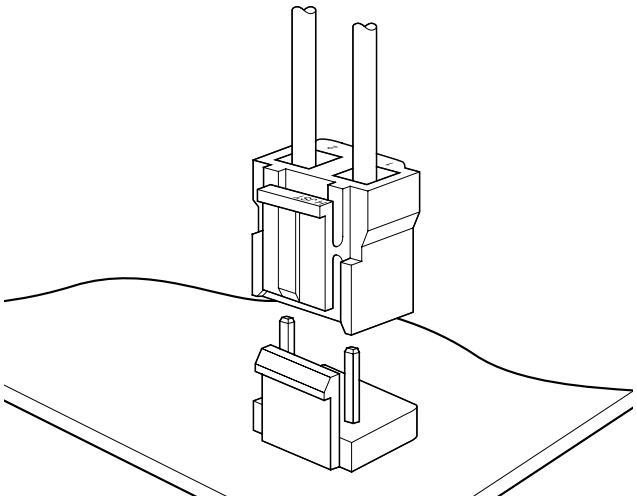
Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	**VYHS-02V-S**	6.5	10.3	4,000
3	**VYHS-03V-S**	13.0	16.8	3,000
4	**VYHS-04V-S**	19.5	23.3	2,000

Material
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance
Note: Not TÜV approved.

VA CONNECTOR

7.92mm pitch/Disconnectable Crimp style connectors



This 7.92mm pitch large current carrying capacity connector is used with primary power supply circuits and various other circuits requiring large currents. It features an anti-misinsertion construction and a reliable locking mechanism to ensure maximum safety.

- ***Box contact***
- ***Secure contact and mounting***
- ***Compact connector with a large capacity***

Specifications

- Current rating: 7A AC, DC (AWG #18)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,200V AC/minute
- Applicable wire: AWG #20 to #18
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

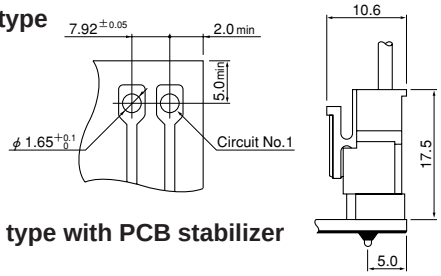
Recognized E60389

Certified LR20812

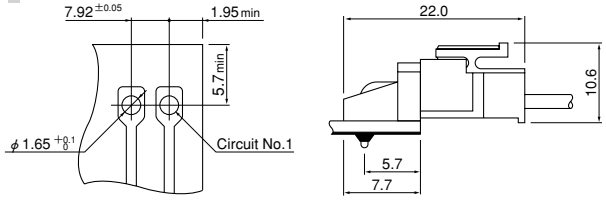
R75122

PC board layout (viewed from soldering side) and Assembly layout

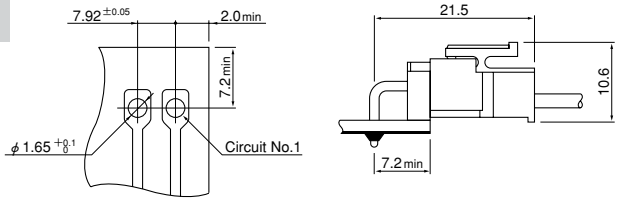
Top entry type



Side entry type with PCB stabilizer

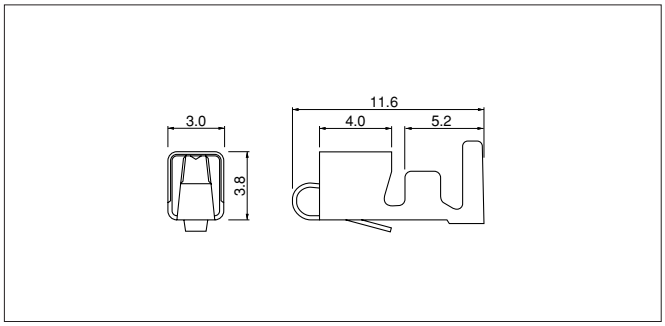


Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SVA-41T-P1.1	0.5～0.83	20～18	1.9～3.7	3,500

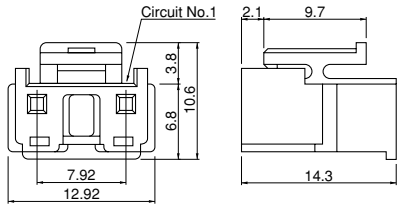
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVA-41T-P1.1	AP-K2N	MKS-L	MK/SVA-41-11	APLMK SVA41-11
		—	—	—

VA CONNECTOR

Housing



Circuits	Model No.	Q'ty / bag
2	**VAR-2**	1,000

Material
PA 6, UL94V-0, natural (white)

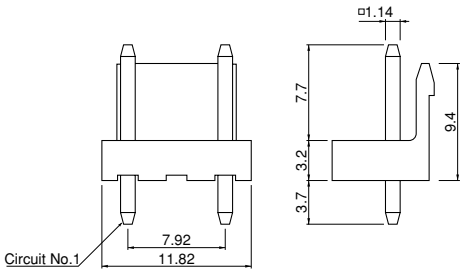
RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

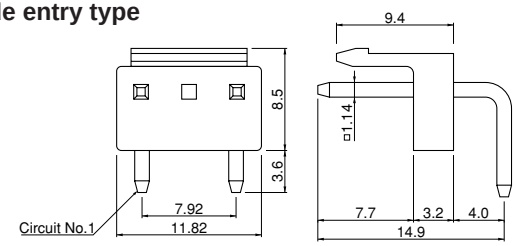
ex. **VAR-2-oo**
(blank)…natural (white)
K…black R…red E…blue Y…yellow M…green N…brown

Locking header

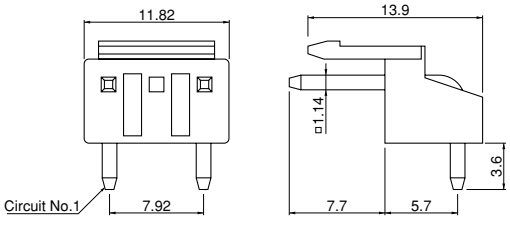
Top entry type



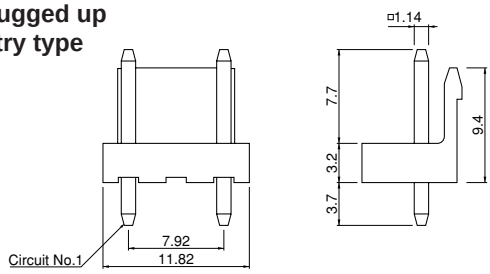
Side entry type



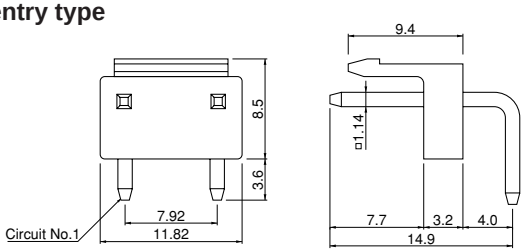
Side entry type with PCB stabilizer



With plugged up Top entry type



Side entry type



	Circuits	Model No.	Q'ty / box
Top entry type	2	**B2P3-VH**	1,000
Side entry type	2	**B2P3S-VH**	500
Side entry type with PCB stabilizer	2	**S2P3-VH**	500

With plugged up

	Circuits	Model No.	Q'ty / box
Top entry type	2	***B2P-VA**	1,000
Side entry type	2	***B2PS-VA**	500

Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*
*Note: *Marked products are not CSA/TÜV approved.*

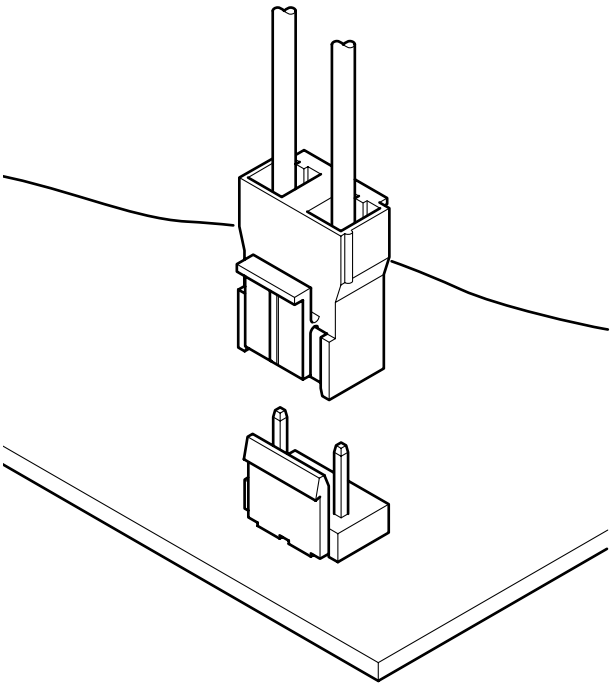
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2P3(S)-VH-oo**
(blank)…natural (white)
BK…black R…red BL…blue Y…yellow M…green N…brown
O…orange PK…pink P…purple H…gray

ex. **S2P3-VH-oo**
(blank)…natural (white)
BK…black R…red Y…yellow M…green

NVA CONNECTOR

7.92mm pitch/Disconnectable Crimp style connectors



7.92mm pitch crimp style, large current carrying capacity connector, that is best suited for various kinds of power supply circuits. Box-shaped contacts offer reliable connection.

- ***Housing lances***
- ***Box contact***
- ***Secure contact and mounting***
- ***Applicable up to 10A***

Specifications

- Current rating: 10A AC, DC (AWG #16)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #20 to #16
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.

* Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105˚C.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

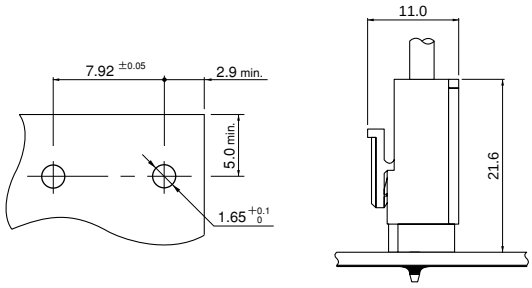
Standards

Recognized E60389

Certified LR20812

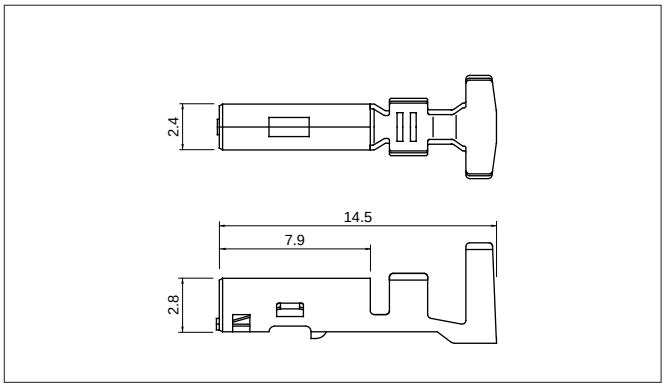
R9251675

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Contact



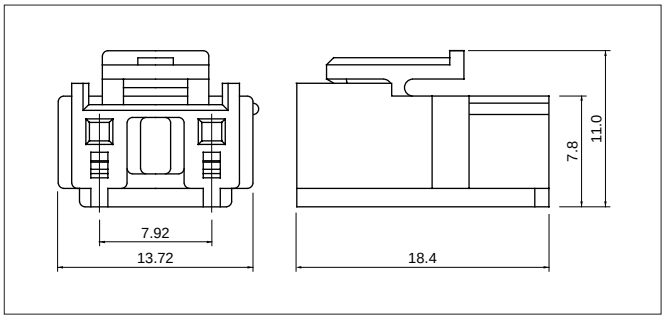
Model No.	AWG #	Insulation O.D.(mm)	Q'ty / reel
SVT-41T-P1.1	20 ～16	3.9～2.7	2,500

Material and Finish
Alloy (phosphor bronze system), tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVT-41T-P1.1	AP-K2N	MKS-L	MK/SVT-41-11	APLMK SVT41-11
		—	—	—

Housing

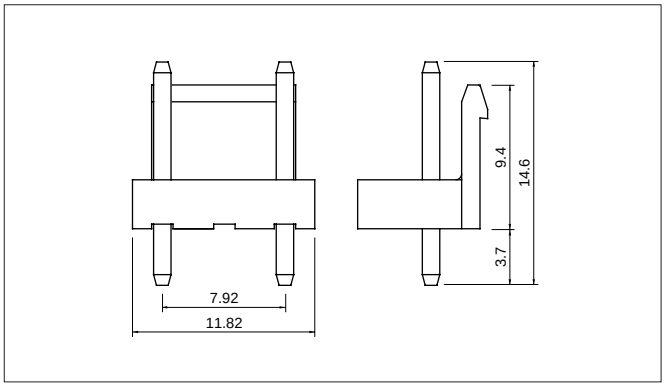


Circuit	Model No.	Q'ty / bag
2	**NVAR-02VS**	1,000

Material
PA 66, UL94V-0, natural (white)

RoHS compliance

Locking header



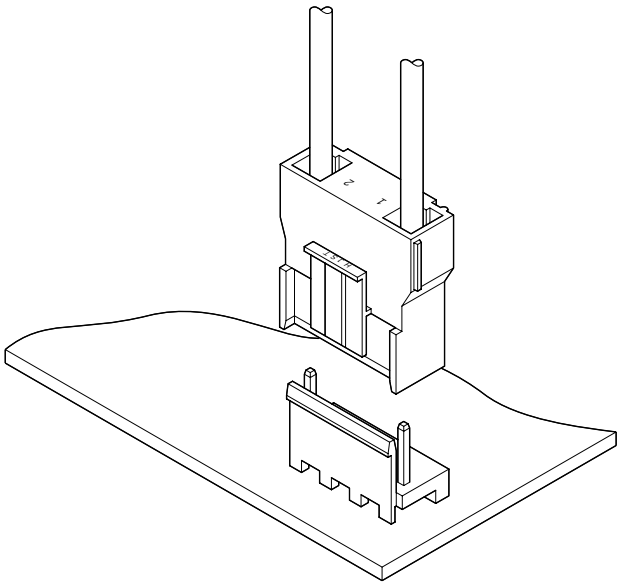
Circuit	Model No.	Q'ty / box
2	**B2P3-VH**	1,000

Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*

VT CONNECTOR

11.88mm pitch/Disconnectable Crimp style connectors



The VT connector is a 11.88mm pitch disconnectable crimp style connector with current rating of 12A. It has features such as the PC board locking device, misinsertion preventive construction and arm-lock mechanism. Its header is applicable to reinforced PC boards with eyelets.

- ***Connectable to vinyl insulated flat cables***
- ***Use of PC board locking device***
- ***Correct and secure mating***
- ***Applicable to reinforced PC boards with eyelets***

Specifications

- Current rating: 12A AC, DC (AWG #16)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #20 to #16
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

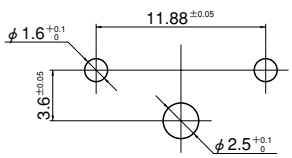
Standards

Recognized E60389

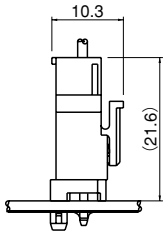
Certified LR20812

R9151561

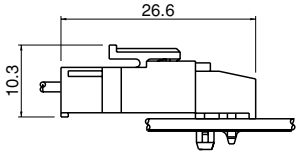
PC board layout (viewed from component side) and Assembly layout



Top entry type



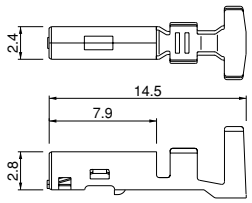
Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

VT CONNECTOR

Contact



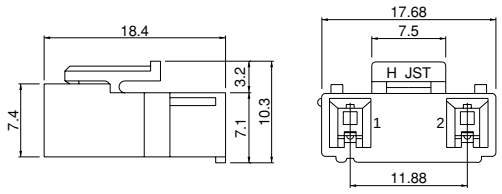
Model No.	Applicable wire		Q'ty / reel
	AWG #	Insulation O.D. (mm)	
SVT-41T-P1.1	20～16	2.7 ～3.9	2,500

Material and Finish
Alloy (phosphor bronze system), tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVT-41T-P1.1	AP-K2N	MKS-L	MK/SVT-41-11	APLMK SVT41-11
		——	——	——

Housing



Circuits	Model No.	Q'ty / bag
2	**VTR-02**	500

Material
PA 66, UL94V-0, natural (white)

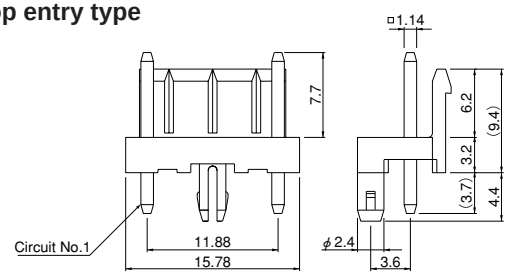
RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

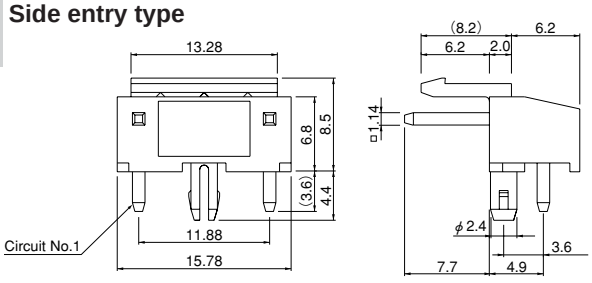
ex. **VTR-02-oo**
(blank)…natural (white)
Z…ivory

Locking header

Top entry type



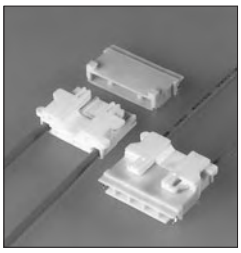
Side entry type



Circuits	Model No.		Q'ty / box	
	Top entry type	Side entry type	Top entry type	Side entry type
2	**B02B-VT**	**S02B-VT**	500	250

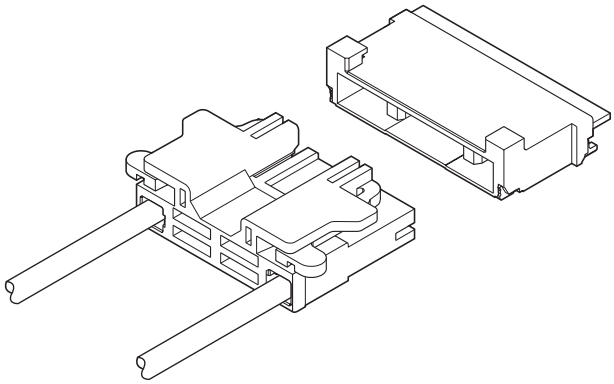
Material and Finish
Post: Copper, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance *This product displays (LF)(SN) on a label.*



BD CONNECTOR (13mm)

13.0mm pitch/Disconnectable Crimp style connectors



Board-to-wire crimping type connector with high withstanding voltage, used for power supply of large LCD (Liquid Crystal Display or Liquid Crystal Television) back light. Secure locking mechanism prevents from coming off housing when handling the wire harness.

- ***Secure locking mechanism***
- ***Space saving***
- ***High withstand voltage design***
- ***Crimping special wire***

Specifications

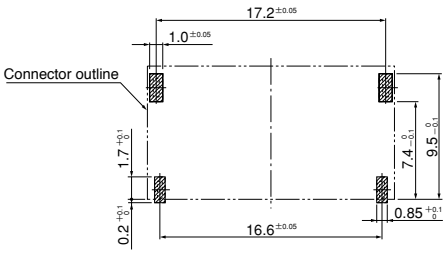
- Current rating: 1.0A AC, DC (AWG #24)
- Voltage rating: 3,000V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 5,000V AC/minute
- Applicable wire: AWG #28 to #24

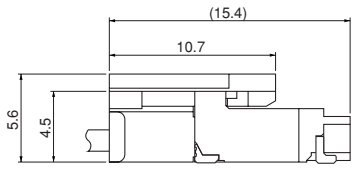
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

PC board layout (viewed from component side) and Assembly layout

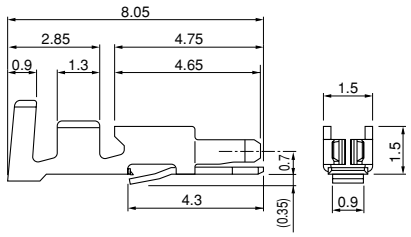




Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

BD CONNECTOR (13mm)

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG#		
SBHS-002T-P0.5A	0.08～0.22	28～24	0.9～1.7	10,000

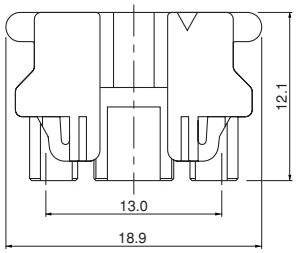
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: Contact JST for SBHS-002T-P0.5.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHS-002T-P0.5A	AP-K2N	MKS-L	MK/SBHS-002-05-BDA	APLMK SBHS002-05-BDA
		—	—	—

Note: When using this housing, standard applicator and dies for SBHS contact can not be applied.
Contact JST for applicable wires in case that it is not usable due to wire size.

Housing

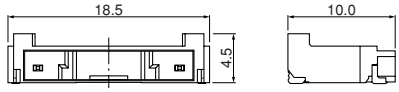


Circuits	Model No.	Q'ty / bag
2	**BDAMR-02VAS-3**	1,000

Material
PBT・UL94V-0, natural (white)

RoHS compliance

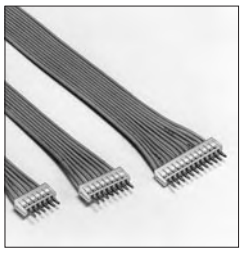
Shrouded header



Circuits	Model No.	Q'ty / reel
2	**SM02-BDAS-3-TB**	1,500

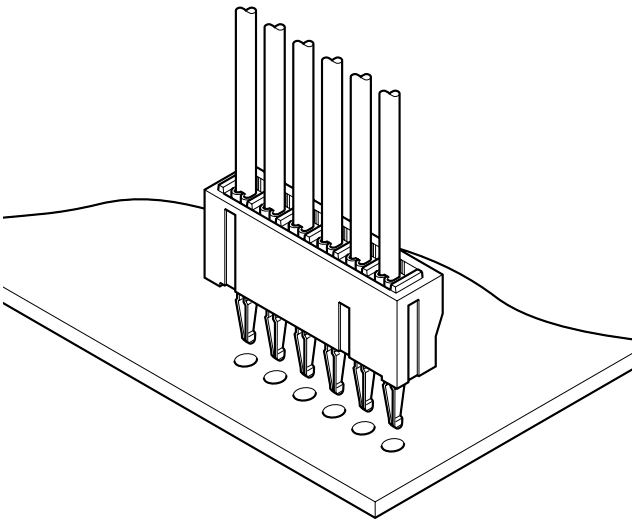
Material and Finish
Press post: Copper alloy, nickel-undercoated, tin/copper alloy-plated Wafer: PPA, UL94V-0, natural (ivory) Solder tab: Copper alloy, nickel-undercoated, tin/copper alloy-plated

RoHS compliance *This product displays (LF) on a label.*
Note: The product listed above is supplied on embossed tape.



SZN CONNECTOR

1.5mm pitch/Board-in crimp style connectors



This low-profile, board-in connector, with a mounting height of only 4.25mm and a thickness of 2.4mm, is soldered directly onto printed circuit boards. The solder tail of the contact is resilient for easy assembly. The housing lances facilitate insertion of contacts.

- ***Slim, low-profile design***
- ***Housing lances***
- ***Easy mounting onto printed circuit boards***
- ***Rugged contact construction***

Specifications

- Current rating: 0.7A AC, DC (AWG #26)
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: AWG #30 to #26
- Applicable PC board thickness: 0.6 to 1.2mm

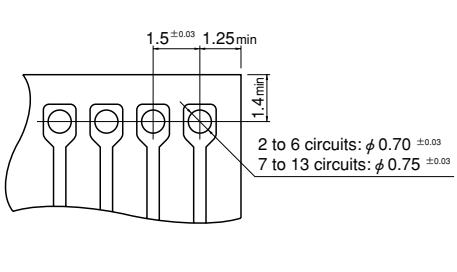
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

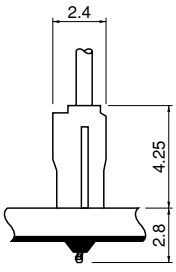
Standards

Recognized E60389

Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

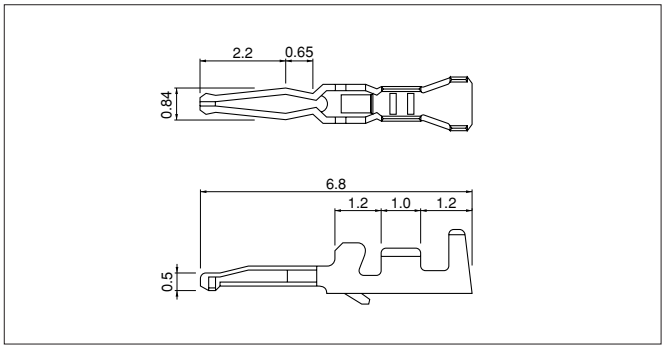




Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

SZN CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/reel
	mm²	AWG#		
SZN-002T-P0.7K	0.08～0.13	28～26	0.8～1.1	14,000
SZN-003T-P0.7K	0.05～0.08	30～28	0.7～0.9	15,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

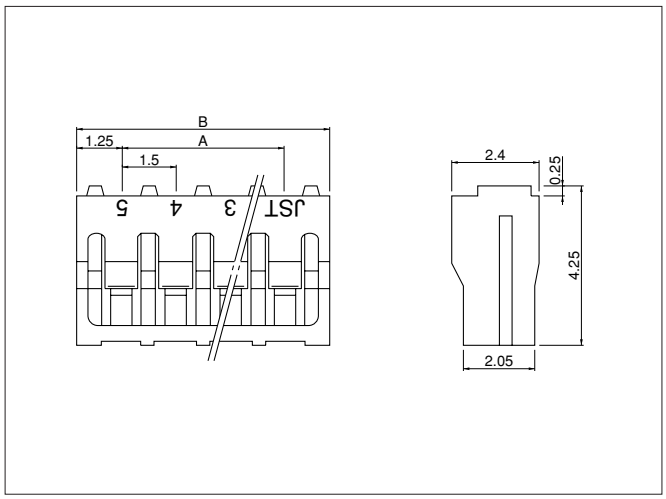
RoHS compliance
Note: Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZN-002T-P0.7K	AP-K2N	MKS-L	MK/SZN-002-07	APLMK SZN002-07
		——	——	——

*Note: *Strip-crimp applicator*

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZN-003T-P0.7K	AP-K2N	MKS-L	MK/SZN-003-07	APLMK SZN003-07
		*MKS-SC	SC/SZN-003-07	APLSC SZN003-07

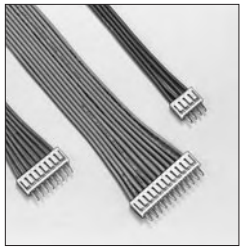
Housing



Circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
2	**2P-SZN**	1.5	4.0	1,000
3	**3P-SZN**	3.0	5.5	1,000
4	**4P-SZN**	4.5	7.0	1,000
5	**5P-SZN**	6.0	8.5	1,000
6	**6P-SZN**	7.5	10.0	1,000
7	**7P-SZN**	9.0	11.5	1,000
8	**8P-SZN**	10.5	13.0	1,000
9	**9P-SZN**	12.0	14.5	1,000
10	**10P-SZN**	13.5	16.0	1,000
11	**11P-SZN**	15.0	17.5	1,000
12	**12P-SZN**	16.5	19.0	1,000
13	**13P-SZN**	18.0	20.5	1,000

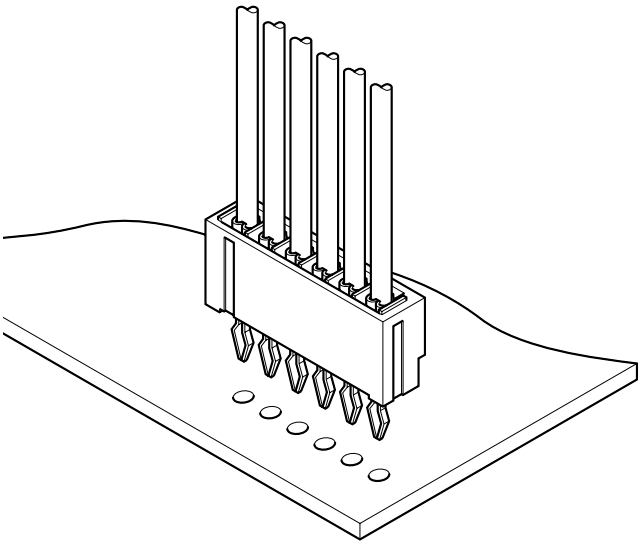
Material
PA 66, UL94V-0, natural (white)

RoHS compliance



SAN CONNECTOR

2.0mm pitch/Board-in Crimp style connectors



Measuring 2.0mm in pitch, 6.0mm in mounting height, and 3.25mm in thickness, this board-in connector meets the needs for high-density mounting on printed circuit boards efficiently and economically. The connector is ideal for VCRs, car stereo systems, audio products and many other consumer oriented electronic products.

- ***Compact***
- ***Housing lances***
- ***Easy mounting onto printed circuit boards***
- ***Two types of contacts***

Specifications

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #30 to #24
- Applicable PC board thickness:
  Type A contact: 1.2mm,1.6mm
  Type B contact: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

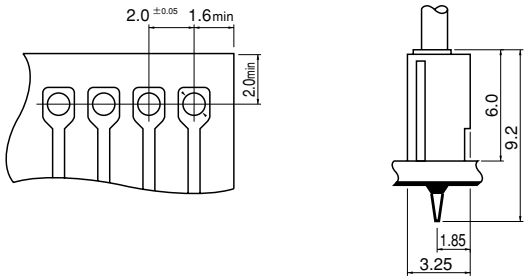
Standards

Recognized E60389

Certified LR20812

R9251673

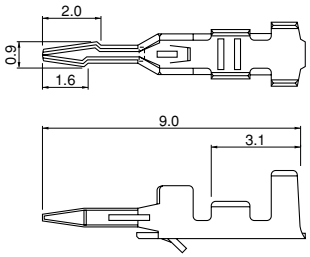
PC board layout (viewed from soldering side) and Assembly layout



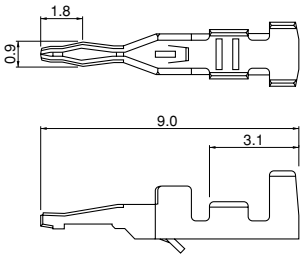
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
**Type A 0.8 +0.1 -0.05 dia.*
**Type B 2 to 7 circuits: 0.75 ±0.05 dia.*
8 to 15 circuits: 0.85 ±0.05 dia.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

Contact

Type A



Type B



Model No.	Type	Applicable wire		Insulation O.D.(mm)	Q'ty/ reel
		mm²	AWG #		
SAN-002T-0.8A	A	0.05～0.22	30～24	0.9～1.3	14,000
SAN-002T-0.8K	B				

Material and Finish
Brass, tin-plated (reflow treatment)

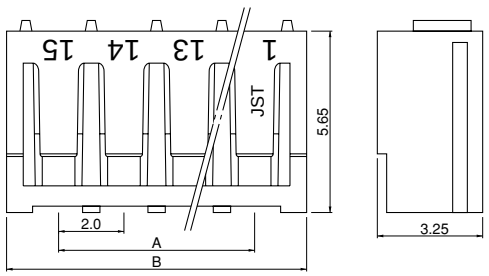
RoHS compliance

Note: Contact JST if you require shielded wires, thin wires or other special wires.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SAN-002T-0.8A	AP-K2N	MKS-LS・MKS-L	MK/SAN-002-08	APLMK SAN002-08
SAN-002T-0.8K		*MKS-SC	SC/SAN-002-08	APLSC SAN002-08

*Note: *Strip-crimp applicator*

Housing



Cir-cuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	**2P-SAN**	2.0	5.2	1,000
3	**3P-SAN**	4.0	7.2	1,000
4	**4P-SAN**	6.0	9.2	1,000
5	**5P-SAN**	8.0	11.2	1,000
6	**6P-SAN**	10.0	13.2	1,000
7	**7P-SAN**	12.0	15.2	1,000
8	**8P-SAN**	14.0	17.2	1,000
9	**9P-SAN**	16.0	19.2	1,000
10	**10P-SAN**	18.0	21.2	1,000
11	**11P-SAN**	20.0	23.2	1,000
12	**12P-SAN**	22.0	25.2	1,000
13	**13P-SAN**	24.0	27.2	1,000
14	**14P-SAN**	26.0	29.2	1,000
15	**15P-SAN**	28.0	31.2	1,000

Material
PA 66, UL94V-0, yellow

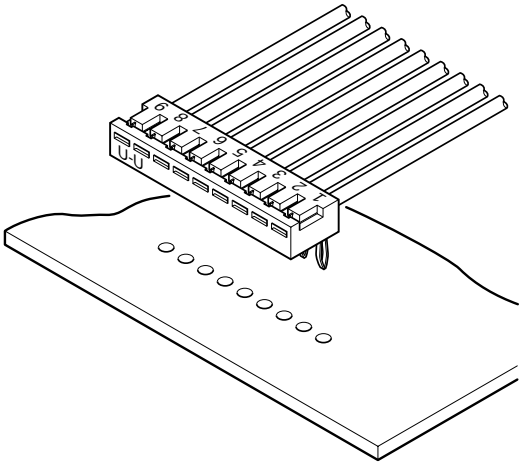
RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **2P-SAN-o**
(blank)…yellow K…black W…white R…red

SJN CONNECTOR

2.0mm pitch/Board-in Crimp style connectors



Side entry type board-in connector, with a mounting height of only 2.8mm and a thickness of 4.9mm.

- ***Housing lances***
- ***Easy mounting onto printed circuit boards***

Specifications

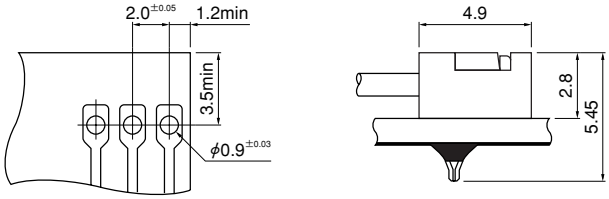
- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.2 to 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

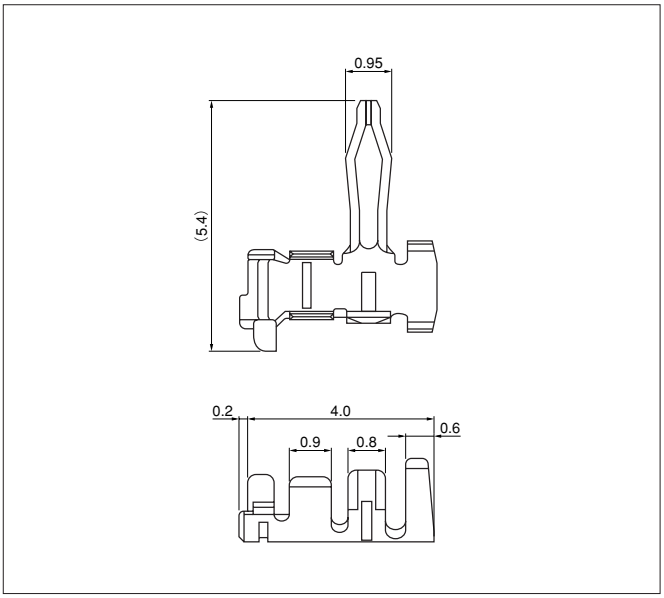
PC board layout (viewed from soldering side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

SJN CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D.(mm)	Q'ty/ reel
	mm²	AWG #		
SJN-001PT-0.9	0.20～0.33	24～22	1.1～1.4	15,000
SJN-002PT-0.9	0.08～0.22	28～24	0.9～1.4	18,000

Material and Finish
Brass, tin-plated (reflow treatment)

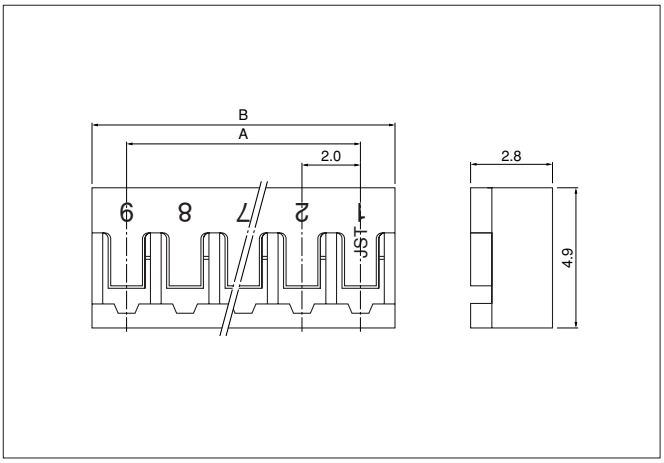
RoHS compliance

Note:

Contact JST if you require shielded wires, thin wires or other special wires.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SJN-001PT-0.9	AP-K2N	MKS-L	MK/SJN-001-09	APLMK SJN001-09
		—	—	—
SJN-002PT-0.9		MKS-L	MK/SJN-002-09	APLMK SJN002-09
		—	—	—

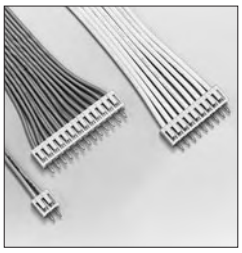
Housing



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	**02P-SJN**	2.0	4.4	2,000
3	**03P-SJN**	4.0	6.4	1,000
4	**04P-SJN**	6.0	8.4	1,000
6	**06P-SJN**	10.0	12.4	1,000
7	**07P-SJN**	12.0	14.4	1,000
8	**08P-SJN**	14.0	16.4	1,000
9	**09P-SJN**	16.0	18.4	1,000
10	**10P-SJN**	18.0	20.4	1,000

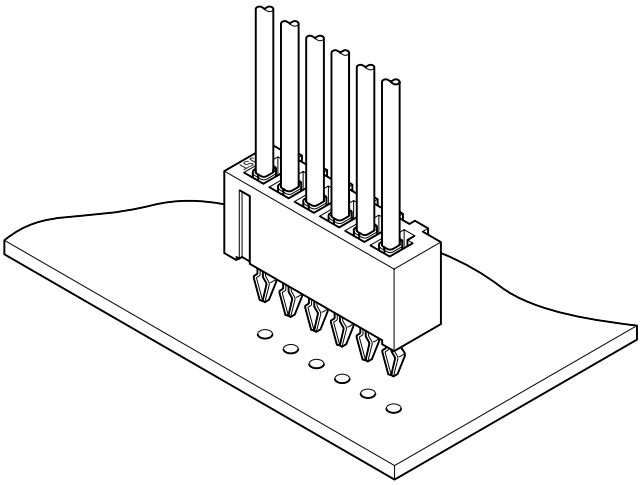
Material
PA 66, UL94V-0, natural (white)

RoHS compliance



SCN CONNECTOR

2.5mm pitch/Board-in Crimp style connectors



This 2.5mm pitch multi-circuit board-in connector meets the needs for high-density mounting on printed circuit boards efficiently and economically. The connector can be used for VCRs, car stereo systems, audio products, and many other consumer-oriented electronic products.

- ***Housing lances***
- ***Secure mounting on printed circuit boards***
- ***Two types of contacts***

Specifications

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.2mm, 1.6mm

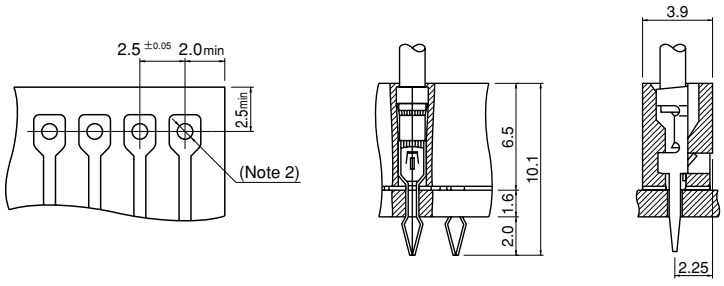
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

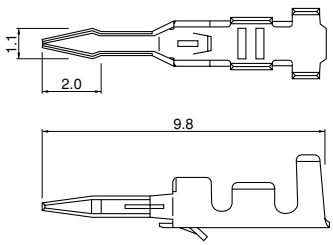


Note: 1. Applicable PC board thickness: Type A 1.6mm
Type B 1.6mm and 1.2mm.
2. Tolerances are non-cumulative: ±0.05mm
Type A: 1.0±0.05mm dia.
Type B: 2 to 6 circuits/1.0±0.05mm dia.
7 circuits and more/Hole dimensions differ from the above values. Contact JST for details.
3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

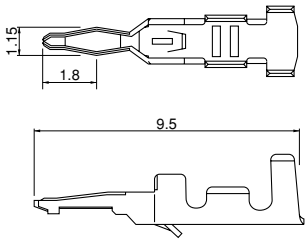
SCN CONNECTOR

Contact

Type A



Type B



Model No.	Type	Applicable wire		Insulation O.D. (mm)	Material	Q'ty / reel
		mm²	AWG #			
SCN-001T-P1.0	A	0.08～0.33	28～22	0.9～1.7	Phosphor bronze	11,000
SCN-001T-1.0K	B				Brass	

Finish
Tin-plated (reflow treatment)

RoHS compliance

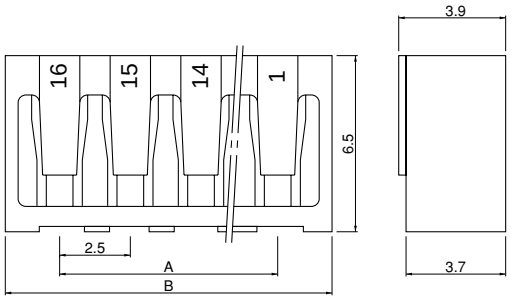
Note: 1. Contact JST if you require shielded wires, thin wires or other special wires.

2. Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCN-001T-P1.0	AP-K2N	MKS-LS・MKS-L	MK/SCN-001-10	APLMK SCN001-10
SCN-001T-1.0K		*MKS-SC	SC/SCN-001-10	APLSC SCN001-10

*Note: *Strip-crimp applicator*

Housing



Cir-cuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	**2P-SCN**	2.5	6.5	1,000
3	**3P-SCN**	5.0	9.0	1,000
4	**4P-SCN**	7.5	11.5	1,000
5	**5P-SCN**	10.0	14.0	1,000
6	**6P-SCN**	12.5	16.5	1,000
7	**7P-SCN**	15.0	19.0	1,000
8	**8P-SCN**	17.5	21.5	1,000
9	**9P-SCN**	20.0	24.0	1,000
10	**10P-SCN**	22.5	26.5	1,000
11	**11P-SCN**	25.0	29.0	1,000
12	**12P-SCN**	27.5	31.5	1,000
13	**13P-SCN**	30.0	34.0	1,000
14	**14P-SCN**	32.5	36.5	1,000
15	**15P-SCN**	35.0	39.0	1,000
16	**16P-SCN**	37.5	41.5	1,000

Material
PA 66, UL94V-0, ivory

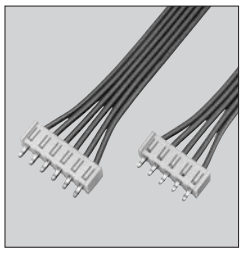
RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **2P-SCN-oo**

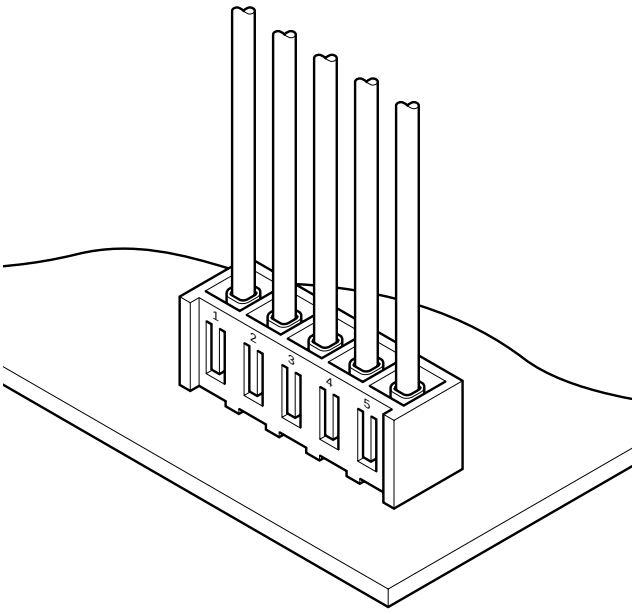
(blank)…ivory

K…black R…red Y…yellow



SDN CONNECTOR

3.96mm pitch/Board-in Crimp style connectors



The SDN connector is a 3.96mm pitch board-in crimp style connector capable of connecting a wide variety of circuits including signal and power supply circuits. The connector features a slim, low-profile design. In addition, it has an exclusive lance construction to reduce insertion force, thus substantially improving the working efficiency in mounting the contact.

- ***Slim, low-profile design***
- ***Easy and secure contact mounting***
- ***Improved solderability***
- ***Polarizing boss***

Specifications

- Current rating: 7A AC, DC (AWG #18)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.

* Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105˚C.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

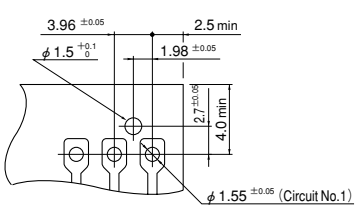
Standards

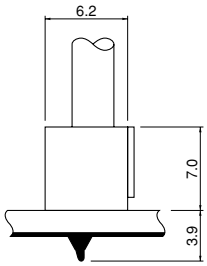
Recognized E60389

Certified LR20812

R50100763

PC board layout (viewed from soldering side) and Assembly layout

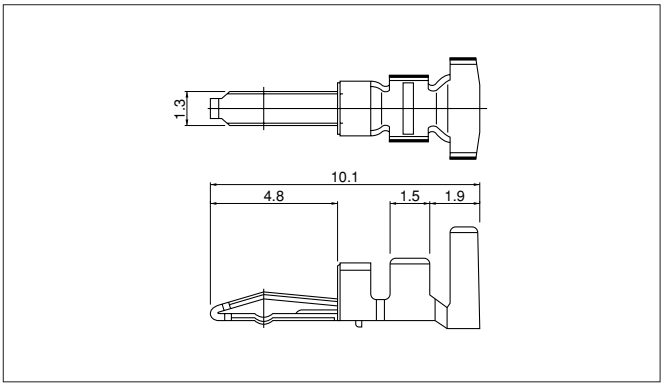




Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers. For connectors with 5 or more circuits the hole dimensions will differ from the above values. Contact JST for details.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.

SDN CONNECTOR

Contact



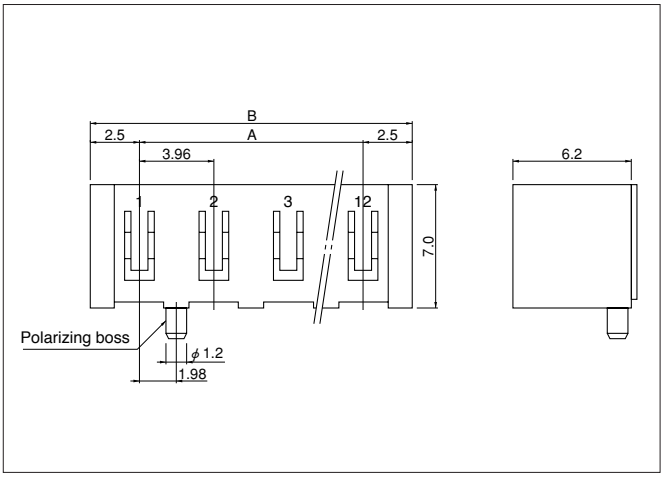
Model No.	Applicable wire		Insulation O.D.(mm)	Q'ty / reel
	mm²	AWG #		
SDN-21T-P1.5	0.33～0.83	22～18	1.6～3.0	5,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SDN-21T-P1.5	AP-K2N	MKS-L	MK/SDN-21-15	APLMK SDN21-15
		—	—	—

Housing



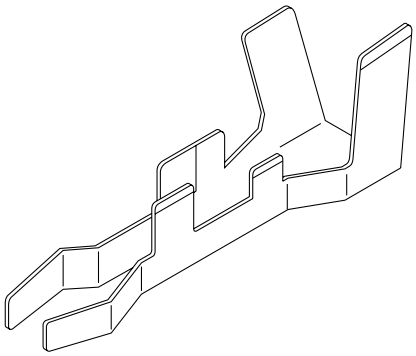
Cir-cuits	Model No.		Dimensions (mm)		Q'ty / bag
	With polarizing boss	Without polarizing boss	A	B	
2	**2P-SDN**	**2P-SDN-A**	3.96	8.96	1,000
3	**3P-SDN**	**3P-SDN-A**	7.92	12.92	1,000
4	**4P-SDN**	**4P-SDN-A**	11.88	16.88	1,000
5	**5P-SDN**	**5P-SDN-A**	15.84	20.84	1,000
6	**6P-SDN**	**6P-SDN-A**	19.80	24.80	500
7	**7P-SDN**	**7P-SDN-A**	23.76	28.76	500
8	**8P-SDN**	**8P-SDN-A**	27.72	32.72	500
9	**9P-SDN**	**9P-SDN-A**	31.68	36.68	500
10	**10P-SDN**	**10P-SDN-A**	35.64	40.64	500
11	**11P-SDN**	**11P-SDN-A**	39.60	44.60	500
12	**12P-SDN**	**12P-SDN-A**	43.56	48.56	500

Material
PA 66, UL94V-0, natural (white)

RoHS compliance

SIN TERMINAL

Single-circuit/Board-in Crimp style terminals



It is time consuming to directly solder the many wires that are required on densely packed printed circuit boards.
The SIN terminal is crimped to a wire, inserted into a hole in a printed circuit board, then soldered. Solderability is enhanced because solder does not enter the wire, thus ensuring a safe and secure connection.
This terminal is ideal for permanent connection of jumper wires onto a printed circuit board or for connection to external circuits.

Specifications

- Current rating: Depends on applicable wires
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Applicable wire: AWG #30 to #12

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

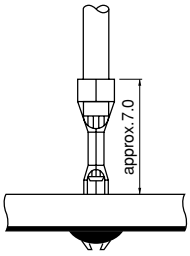
Standards

Recognized E60389

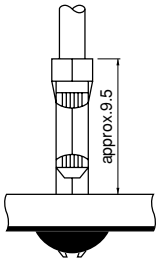
Certified LR20812

Assembly layout

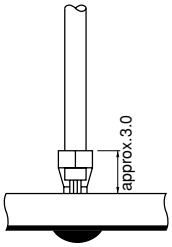
SIN-001T-1.2B



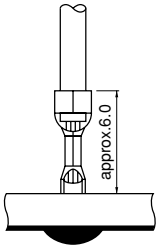
SIN-21T-1.8



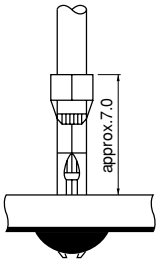
SIN-002T-1.0
SIN-002T-1.2N



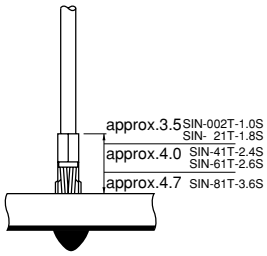
SIN-001T-1.2
SIN- 01T-1.2



SIN-01T-1.8
SIN-01T-1.8N

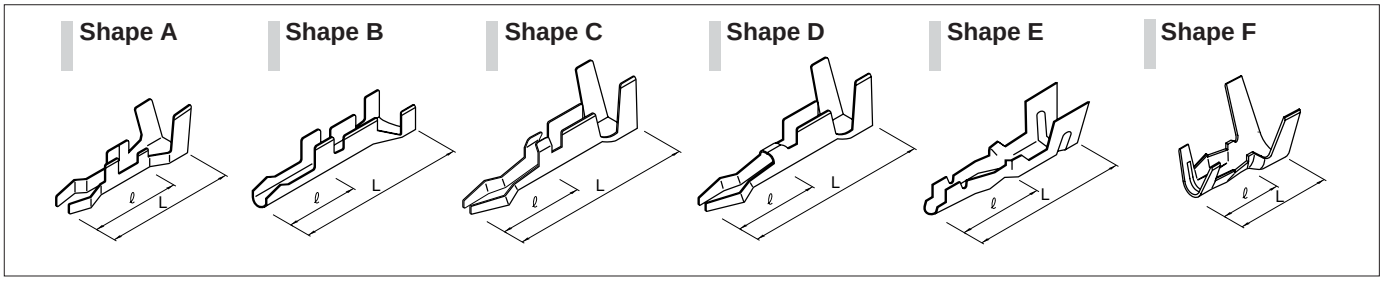


SIN-002T-1.0S SIN41T-2.4S
SIN- 21T-1.8S SIN-61T-2.6S
SIN-81T-3.6S



SIN TERMINAL

Terminal



Model No.	Shape	Applicable wire		Insulation O.D. (mm)	L(mm)	ℓ(mm)	Applicable PCB		Q'ty / reel
		mm²	AWG #				Thickness(mm)	Hole diameter(mm)	
SIN-002T-1.0	A	0.08～0.13	28～26	0.8～1.3	5.8	3.1	1.6	$1.0^{\pm0.05}$	9,000
SIN-002T-1.2N		0.08～0.13	28～26	0.9～1.4	6.0	3.3		$1.2^{\pm0.05}$	9,000
SIN-01T-1.8	C	0.13～0.5	26～20	1.2～2.5	10.0	3.55		$1.8^{+0.1}_{0}$	7,000
SIN-001T-1.2B	D	0.05～0.22	30～24	0.9～1.5	10.0	3.5		$1.2^{\pm0.05}$	11,000
SIN-21T-1.8		0.30～0.83	22～18	1.7～3.8	12.6	3.6		$1.8^{+0.1}_{0}$	3,000
SIN-002T-1.0S	E	0.08～0.13	28～26	0.8～1.3	7.0	3.5	1.2～1.6	$1.0^{\pm0.05}$	13,000
***SIN-21T-1.8S**	F	0.30～0.83	22～18	1.5～3.0	7.6	4.1	1.6	$1.8^{+0.1}_{0}$	4,500
***SIN-41T-2.4S**		0.83～1.31	18,16	2.8～3.4	8.3	4.3		$2.4^{\pm0.05}$	3,000
***SIN-61T-2.6S**		2.0	14	3.4～3.8	8.3	4.3		$2.5^{+0.1}_{0}$	3,000
***SIN-81T-3.6S**		3.3	12	4.0～4.2	9.2	4.5		$3.55^{\pm0.05}$	2,000

Material and Finish

Brass, tin-plated (reflow treatment)

Model No.	Shape	Applicable wire		Insulation O.D. (mm)	L(mm)	ℓ(mm)	Applicable PCB		Q'ty / reel
		mm²	AWG #				Thickness(mm)	Hole diameter(mm)	
SIN-001T-1.2	B	0.05～0.15	30～26	0.8～1.4	9.1	3.05	1.2	(1.20)	7,500
SIN-01T-1.2		0.2 ～0.5	24～20	1.5～2.3	9.1	3.05			5,000
SIN-01T-1.8N	C	0.13～0.5	26～20	1.2～2.5	10.0	3.55	1.6	$1.8^{+0.1}_{0}$	7,000

Material and Finish

Brass, copper-undercoated, tin-plated

RoHS compliance

Note: 1. The SIN-01T-1.8N terminal requires less force for insertion into a PC board.

*2. *marked terminals are for the use of larger wires (Wire conductors are to be soldered). Contact JST for the details of regarding specifications.*

3. Hole dimensions may differ according to the kind of PC board and piercing method.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SIN-002T-1.0	AP-K2N	MKS-L	MK/SIN-002-10	APLMK SIN002-10
		*MKS-SC	SC/SIN-002-10	APLSC SIN002-10
SIN-001T-1.2		MKS-L	MK/SIN-001-12	APLMK SIN001-12
		*MKS-SC	SC/SIN-001-12	APLSC SIN001-12
SIN-01T-1.2		MKS-L	MK/SIN-01-12	APLMK SIN01-12
		*MKS-SC	SC/SIN-01-12	APLSC SIN01-12
SIN-01T-1.8(N)		MKS-L	MK/SIN-01-18	APLMK SIN01-18
		*MKS-SC	SC/SIN-01-18	APLSC SIN01-18
SIN-001T-1.2B		MKS-L	MK/SIN-001-12B	APLMK SIN001-12B
		*MKS-SC	SC/SIN-001-12B	APLSC SIN001-12B
SIN-002T-1.2N		MKS-L	MK/SIN-002-12N	APLMK SIN002-12N
		*MKS-SC	SC/SIN-002-12N	APLSC SIN002-12N

*Note: *Strip-crimp applicator*

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SIN-21T-1.8	AP-K2N	MKS-L	MK/SIN-21-18	APLMK SIN21-18
		—	—	—
SIN-002T-1.0S		MKS-L-IN	MK/SIN-002-10S	APLMK SIN002-10S
		—	—	—
SIN-21T-1.8S		MKS-L-SIN	MK/SIN-21-18S	APLMK SIN21-18S
		*MKS-SC	SC/SIN-21-18S	APLSC SIN21-18S
SIN-41T-2.4S		MKS-L-SIN	MK/SIN-41-24S	APLMK SIN41-24S
		—	—	—
SIN-61T-2.6S		MKS-L-SIN	MK/SIN-61-26S	APLMK SIN61-26S
		—	—	—
SIN-81T-3.6S		MKS-L-SIN3	MK/SIN-81-36S	APLMK SIN81-36S
		—	—	—

1-B

Wire to Board Insulation Displacement Connectors

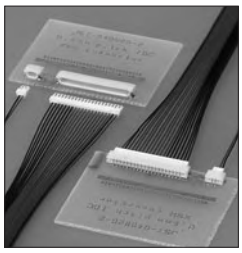
TABLE OF CONTENTS

<Disconnectable>

• 0.6mm pitch	XSR CONNECTOR	114
• 0.8mm pitch	SUR CONNECTOR	116
• 1.0mm pitch	SR CONNECTOR	118
	SSR CONNECTOR	120
	ASR CONNECTOR	122
• 1.5mm pitch	ZR CONNECTOR	124
• 2.0mm pitch	KR CONNECTOR	126
	CK CONNECTOR	128
	KRD CONNECTOR	130
• 2.5mm pitch	HR CONNECTOR	132

<Board-in>

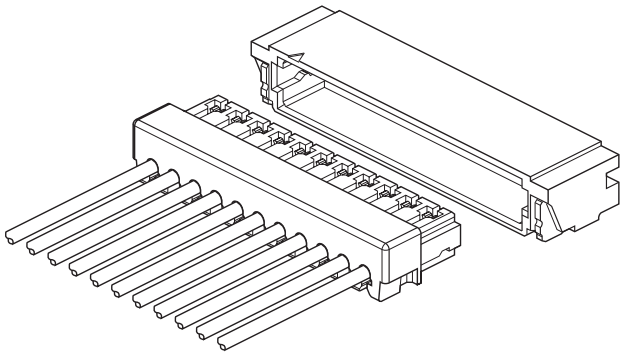
• 1.5mm pitch	ZA CONNECTOR	134
• 2.0mm pitch	DA CONNECTOR	136
	DD/DS CONNECTOR	138



XSR CONNECTOR

Emboss Tape

0.6mm pitch/Disconnectable Insulation displacement connectors



This is the world's smallest 0.6mm pitch ID connector for discrete wires.
This Wire to Board miniaturized connector has a mounting height of 1.45mm and depth of 3.0mm.

- ***Space saving***
- ***Twin U-slot insulation displacement section***
- ***New strain relief structure***
- ***Suitable for fine wires***
- ***Applicable to automatic ID machines***

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
  After environmental testing/50m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable wire: Conductor size/AWG #36
  Conductor/7 strands,
  tin-coated copper alloy
  Insulation O.D./0.29mm

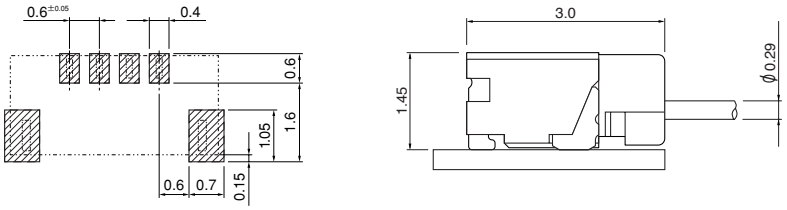
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

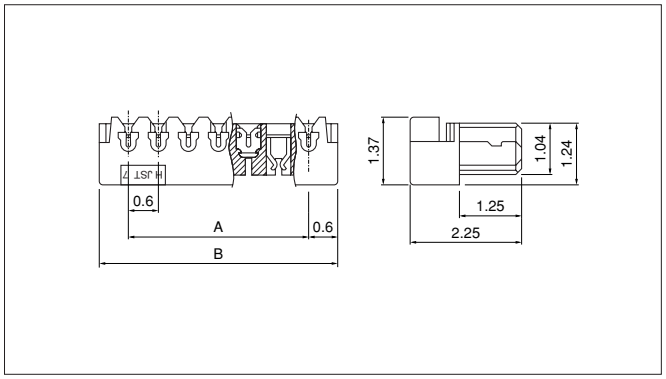
Certified LR20812

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Socket



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	**02XSR-36S**	0.6	1.8	4,000
4	**04XSR-36S**	1.8	3.0	4,000
6	**06XSR-36S**	3.0	4.2	4,000
10	**10XSR-36S**	5.4	6.6	4,000
16	**16XSR-36S**	9.0	10.2	4,000
20	**20XSR-36S**	11.4	12.6	4,000
22	***22XSR-36S**	12.6	13.8	4,000

Material and Finish
Contact: Copper alloy, tin-plated (reflow treatment)
Housing: PA, UL94V-0, natural

RoHS compliance

*Note: *Marked products are not UL/CSA approved.*

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

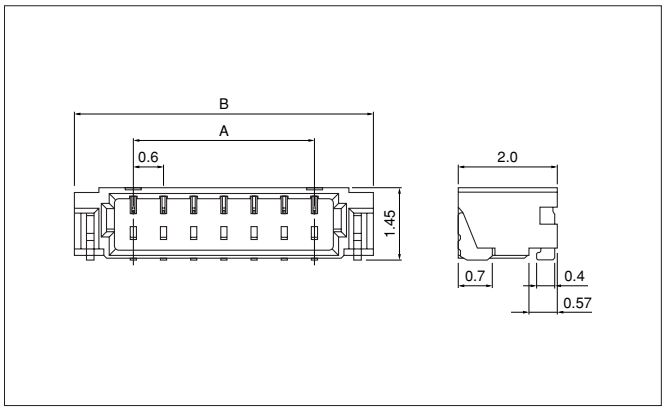
ex. **02XSR-36S**

S…natural (standard color)

LG…light green LP…light purple L…lemon yellow

PK…pink LE…light blue O…orange

Header



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
2	**SM02B-XSRS-ETB**	0.6	3.0	3,500
4	**SM04B-XSRS-ETB**	1.8	4.2	3,500
6	**SM06B-XSRS-ETB**	3.0	5.4	3,500
10	**SM10B-XSRS-ETB**	5.4	7.8	3,500
16	**SM16B-XSRS-ETB**	9.0	11.4	3,500
20	**SM20B-XSRS-ETB**	11.4	13.8	3,500
22	***SM22B-XSRS-ETB**	12.6	15.0	3,500

Material and Finish
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA, UL94V-0, natural
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Note: 1.This products listed above are supplied on embossed-tape.

*2.*Marked products are not UL/CSA approved.*

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **SM02B-XSRS-TB**

S…natural (standard color)

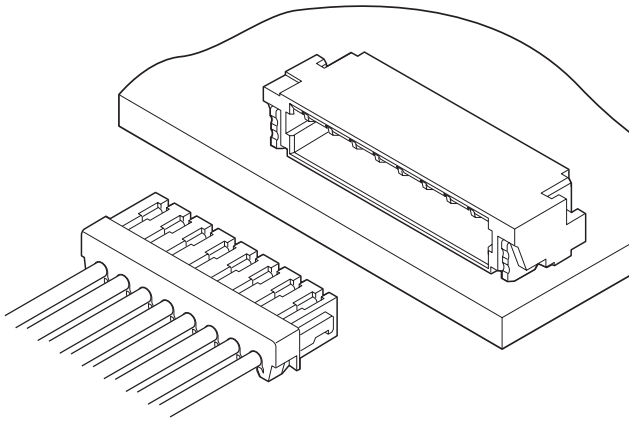
LG…light green LP…light purple L…lemon yellow

PK…pink LE…light blue O…orange

SUR CONNECTOR

Emboss Tape

0.8mm pitch/Disconnectable Insulation displacement connectors



The world's first 0.8mm pitch wire-to-board insulation displacement connector. Side entry type is only 3.9mm depth and 1.75mm height after mounting on the PC board, and top entry type is only 2.2mm depth and 3.9mm height.
Compared to the conventional 1.0mm pitch SSR connector, occupation space on the board is reduced by 34% (side entry type).

- ***3-point grip construction***
- ***Super fine wires are applicable***
- ***Shrouded header***
- ***Twin U-slot insulation displacement section***

Specifications

- Current rating: 0.5A AC, DC (AWG #32)
  0.2A AC, DC (AWG #36)
- Voltage rating: 30V DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
  After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable wire: Conductor size/AWG #32, #36
  Conductor/7 strands,
  tin-coated copper alloy
  Insulation O.D./0.39mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

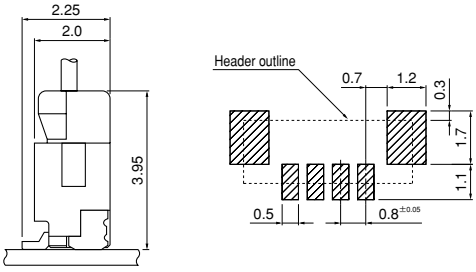
Standards

Recognized E60389

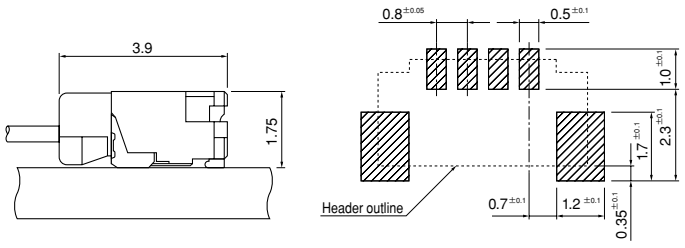
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Top entry type

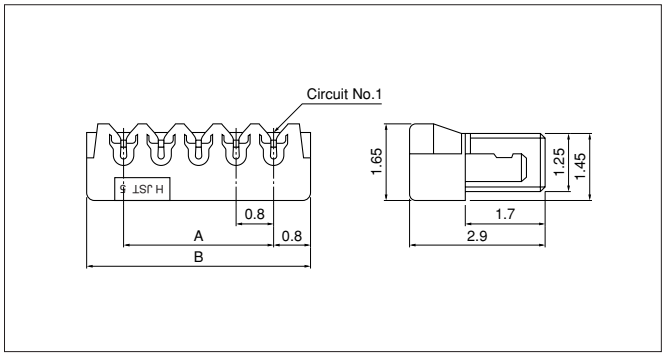


Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Dimensions above should serve as a guideline. Contact JST for details.

Receptacle



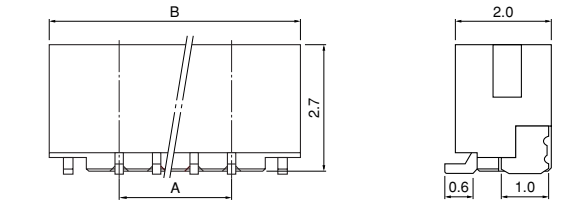
Cir-cuits	Model No.		Dimensions (mm)		Q'ty/ box
	#32(Natural)	#36(Lemon yellow)	A	B	
2	**02SUR-32S**	**02SUR-36L**	0.8	2.4	2,000
3	**03SUR-32S**	**03SUR-36L**	1.6	3.2	2,000
4	**04SUR-32S**	**04SUR-36L**	2.4	4.0	2,000
5	**05SUR-32S**	**05SUR-36L**	3.2	4.8	2,000
6	**06SUR-32S**	**06SUR-36L**	4.0	5.6	2,000
8	**08SUR-32S**	**08SUR-36L**	5.6	7.2	2,000
10	**10SUR-32S**	**10SUR-36L**	7.2	8.8	2,000
12	**12SUR-32S**	**12SUR-36L**	8.8	10.4	2,000
14	**14SUR-32S**	**14SUR-36L**	10.4	12.0	2,000
15	**15SUR-32S**	**15SUR-36L**	11.2	12.8	2,000
16	**16SUR-32S**	**16SUR-36L**	12.0	13.6	2,000
17	**17SUR-32S**	**17SUR-36L**	12.8	14.4	2,000
20	**20SUR-32S**	**20SUR-36L**	15.2	16.8	2,000
22	**22SUR-32S**	**22SUR-36L**	16.8	18.4	2,000

Material and Finish
Contact: Copper alloy, tin-plated (reflow treatment) Housing: PA, UL94V-0

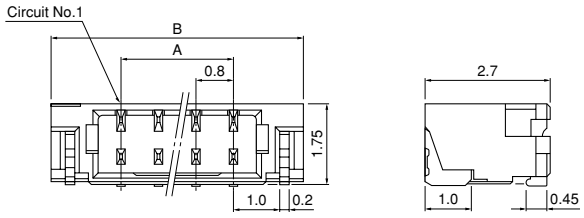
RoHS compliance

Shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty/ reel	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	**BM02B-SURS-TF**	**SM02B-SURS-TF**	0.8	3.8	2,500	3,500
3	**BM03B-SURS-TF**	**SM03B-SURS-TF**	1.6	4.6	2,500	3,500
4	**BM04B-SURS-TF**	**SM04B-SURS-TF**	2.4	5.4	2,500	3,500
5	—	**SM05B-SURS-TF**	3.2	6.2	—	3,500
6	—	**SM06B-SURS-TF**	4.0	7.0	—	3,500
8	**BM08B-SURS-TF**	**SM08B-SURS-TF**	5.6	8.6	2,500	3,500
10	**BM10B-SURS-TF**	**SM10B-SURS-TF**	7.2	10.2	2,500	3,500
12	**BM12B-SURS-TF**	**SM12B-SURS-TF**	8.8	11.8	2,500	3,500
14	—	**SM14B-SURS-TF**	10.4	13.4	—	3,500
15	**BM15B-SURS-TF**	**SM15B-SURS-TF**	11.2	14.2	2,500	3,500
16	—	**SM16B-SURS-TF**	12.0	15.0	—	3,500
17	—	**SM17B-SURS-TF**	12.8	15.8	—	3,500
20	**BM20B-SURS-TF**	**SM20B-SURS-TF**	15.2	18.2	2,500	3,500
22	—	**SM22B-SURS-TF**	16.8	19.8	—	3,500

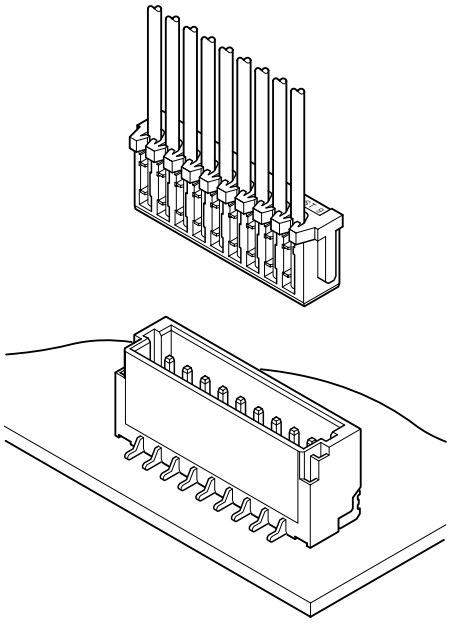
Material and Finish
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: PA, UL94V-0, natural Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: The products listed above are supplied on embossed-tape.

SR CONNECTOR

Emboss Tape

1.0mm pitch/Disconnectable Insulation displacement connectors



- ***Compact insulation displacement connector***
- ***Header designed for vacuum pick and place robotics***
- ***Twin U-slot insulation displacement section***
- ***3-point grip construction***

Specifications

- Current rating: 0.7A DC
- Voltage rating: 50V DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
  After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #30
  Conductor/7 strands,
  tin-coated annealed copper
  Insulation O.D./0.54 to 0.58mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

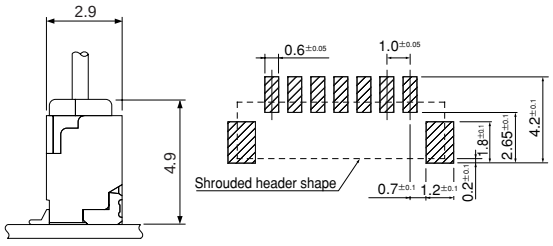
Standards

Recognized E60389

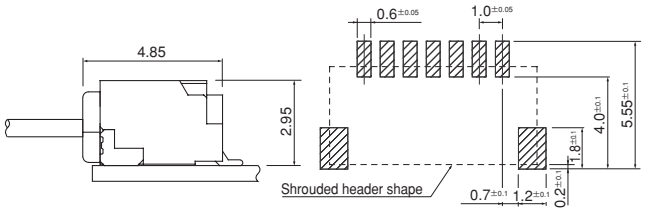
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Top entry type

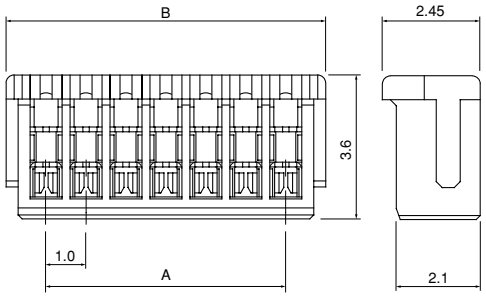


Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Dimensions above should serve as a guideline. Contact JST for details.

Receptacle



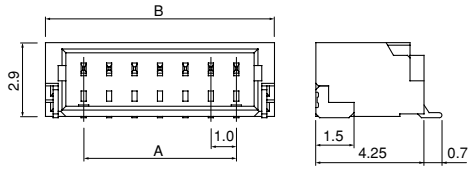
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	**02SR-3S**	1.0	3.0	2,000
3	**03SR-3S**	2.0	4.0	2,000
4	**04SR-3S**	3.0	5.0	2,000
5	**05SR-3S**	4.0	6.0	2,000
6	**06SR-3S**	5.0	7.0	2,000
7	**07SR-3S**	6.0	8.0	2,000
8	**08SR-3S**	7.0	9.0	2,000
9	**09SR-3S**	8.0	10.0	2,000
10	**10SR-3S**	9.0	11.0	2,000
11	**11SR-3S**	10.0	12.0	2,000
12	**12SR-3S**	11.0	13.0	2,000
13	**13SR-3S**	12.0	14.0	2,000
14	**14SR-3S**	13.0	15.0	2,000

Material and Finish
Contact: Phosphor bronze, tin-plated (reflow treatment) Housing: PA, UL94V-0, natural

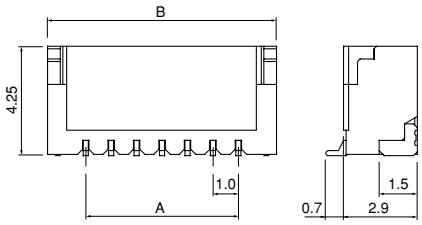
RoHS compliance

Shrouded header

Side entry type



Top entry type



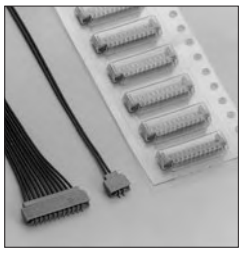
Circuits	Top entry type	Side entry type	Dimensions (mm)		Q'ty / reel	
			A	B	Top entry type	Side entry type
2	**BM02B-SRSS-TB**	**SM02B-SRSS-TB**	1.0	4.0	1,500	3,000
3	**BM03B-SRSS-TB**	**SM03B-SRSS-TB**	2.0	5.0	1,500	3,000
4	**BM04B-SRSS-TB**	**SM04B-SRSS-TB**	3.0	6.0	1,500	3,000
5	**BM05B-SRSS-TB**	**SM05B-SRSS-TB**	4.0	7.0	1,500	3,000
6	**BM06B-SRSS-TB**	**SM06B-SRSS-TB**	5.0	8.0	1,500	3,000
7	**BM07B-SRSS-TB**	**SM07B-SRSS-TB**	6.0	9.0	1,500	3,000
8	**BM08B-SRSS-TB**	**SM08B-SRSS-TB**	7.0	10.0	1,500	3,000
9	**BM09B-SRSS-TB**	**SM09B-SRSS-TB**	8.0	11.0	1,500	3,000
10	**BM10B-SRSS-TB**	**SM10B-SRSS-TB**	9.0	12.0	1,500	3,000
11	**BM11B-SRSS-TB**	**SM11B-SRSS-TB**	10.0	13.0	1,500	3,000
12	**BM12B-SRSS-TB**	**SM12B-SRSS-TB**	11.0	14.0	1,500	3,000
13	**BM13B-SRSS-TB**	**SM13B-SRSS-TB**	12.0	15.0	1,500	3,000
14	**BM14B-SRSS-TB**	**SM14B-SRSS-TB**	13.0	16.0	1,500	3,000

Material and Finish
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: PA, UL94V-0, natural Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Note: 1. The products listed above are supplied on embossed-tape.

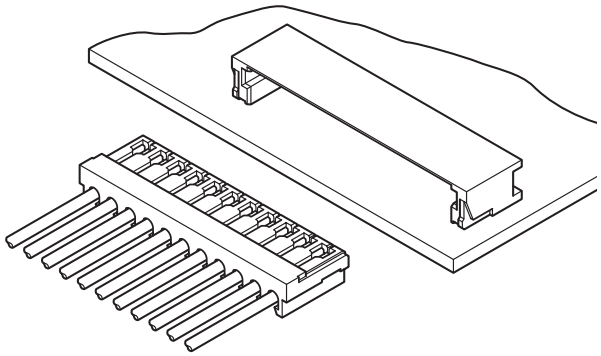
2. Contact JST for the top entry type headers with suction cap.



SSR CONNECTOR

Emboss Tape

1.0mm pitch/Disconnectable Insulation displacement connectors



- ***Compact***
- ***Twin U-slot insulation displacement section***
- ***3-point grip construction***
- ***Header designed for vacuum pick and place robotics***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
  After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #32
  Conductor/7 strands,
  tin-coated annealed copper
  Insulation O.D./0.52 to 0.56mm

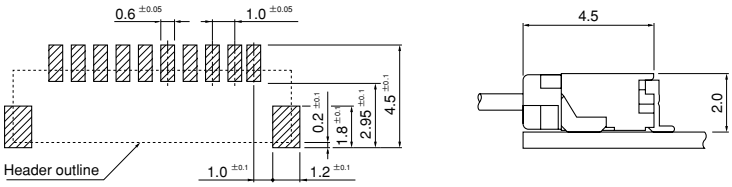
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

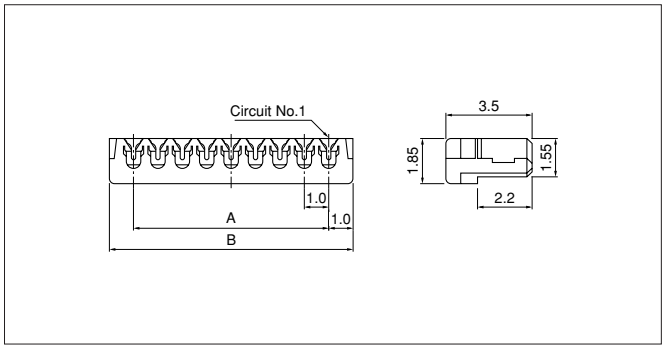
Certified LR20812

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle

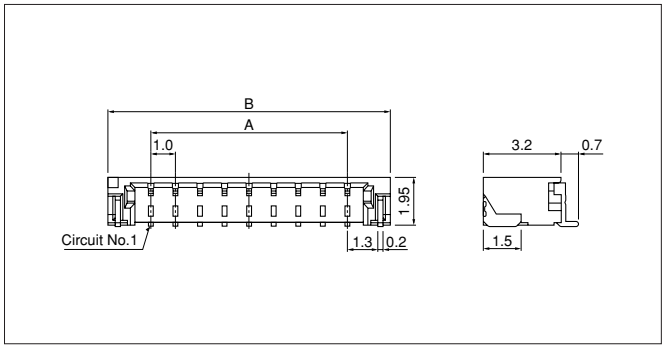


Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	**02SSR-32H**	1.0	3.0	2,000
3	**03SSR-32H**	2.0	4.0	2,000
4	**04SSR-32H**	3.0	5.0	2,000
5	**05SSR-32H**	4.0	6.0	2,000
6	**06SSR-32H**	5.0	7.0	2,000
8	**08SSR-32H**	7.0	9.0	2,000
9	**09SSR-32H**	8.0	10.0	2,000
10	**10SSR-32H**	9.0	11.0	2,000
11	**11SSR-32H**	10.0	12.0	2,000
12	**12SSR-32H**	11.0	13.0	2,000
13	**13SSR-32H**	12.0	14.0	2,000
14	**14SSR-32H**	13.0	15.0	2,000

Material and Finish
Contact: Phosphor bronze, tin-plated (reflow treatment) Housing: PA 46, UL94V-0, gray

RoHS compliance

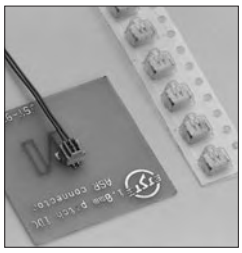
Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
2	**SM02B-SSR-H-TB**	1.0	4.6	4,500
3	**SM03B-SSR-H-TB**	2.0	5.6	4,500
4	**SM04B-SSR-H-TB**	3.0	6.6	4,500
5	**SM05B-SSR-H-TB**	4.0	7.6	4,500
6	**SM06B-SSR-H-TB**	5.0	8.6	4,500
8	**SM08B-SSR-H-TB**	7.0	10.6	4,500
9	**SM09B-SSR-H-TB**	8.0	11.6	4,500
10	**SM10B-SSR-H-TB**	9.0	12.6	4,500
11	**SM11B-SSR-H-TB**	10.0	13.6	4,500
12	**SM12B-SSR-H-TB**	11.0	14.6	4,500
13	**SM13B-SSR-H-TB**	12.0	15.6	4,500
14	**SM14B-SSR-H-TB**	13.0	16.6	4,500

Material and Finish
Contact: Copper-alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: PA, UL94V-0, gray Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

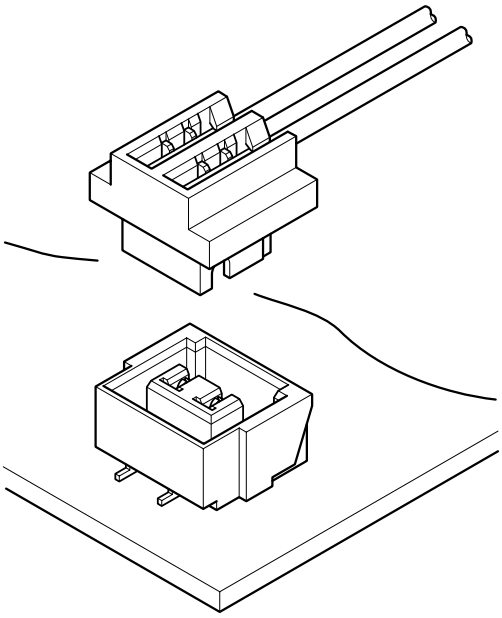
RoHS compliance *This product displays (LF)(SN) on a label.*
Note: The products listed above are supplied on embossed-tape.



ASR CONNECTOR

Emboss Tape

1.0mm pitch/Disconnectable Insulation displacement connectors



- ***Compact***
- ***Twin U-slot insulation displacement section***
- ***3-point grip construction***
- ***Header designed for vacuum pick and place robotics***

Specifications

- Current rating: 0.7A DC
- Voltage rating: 50V DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
  After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: Conductor size/AWG #30
  Conductor/7 strands,
  tin-coated annealed copper
  Insulation O.D./0.54 to 0.58mm

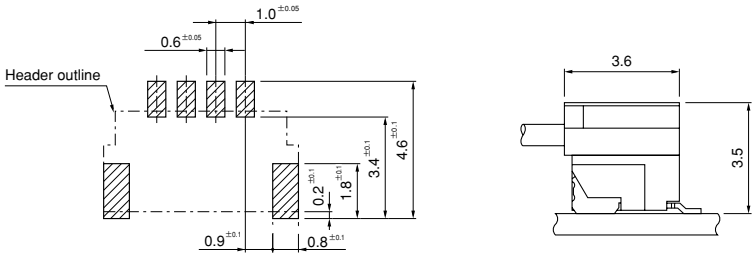
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

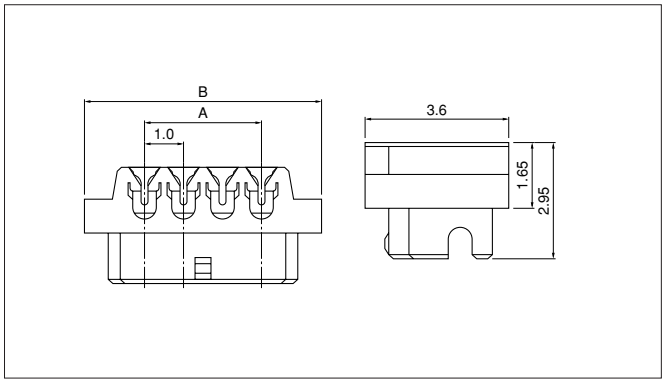
Certified LR20812

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle



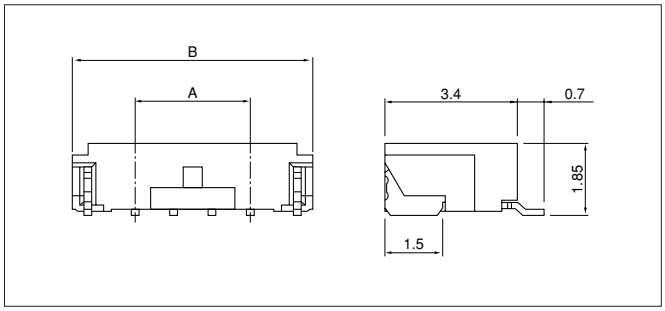
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	**02ASR-30S**	1.0	4.0	3,000
3	**03ASR-30S**	2.0	5.0	3,000
4	**04ASR-30S**	3.0	6.0	3,000

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0, natural

RoHS compliance

Shrouded header

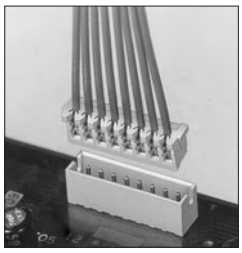


Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
2	**BM02B-ASRS-TF**	1.0	4.4	3,500
3	**BM03B-ASRS-TF**	2.0	5.4	3,500
4	**BM04B-ASRS-TF**	3.0	6.4	3,500

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 6T, UL94V-0, natural
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

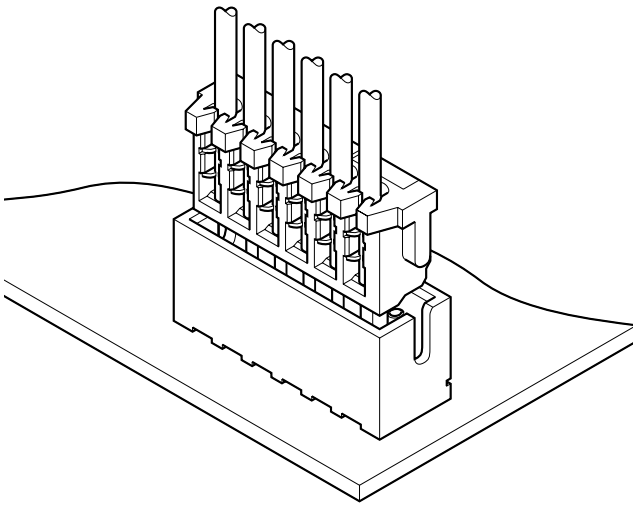
RoHS compliance *This product displays (LF)(SN) on a label.*
Note: The products listed above are supplied on embossed-tape.



ZR CONNECTOR

Emboss Tape

1.5mm pitch/Disconnectable Insulation displacement connectors



The twin U-slots (IDC slots), the 3-point insulation grip, and the distortion resistant disconnectable construction ensure a reliable connection even during severe environmental conditions.

- ***Compact***
- ***Twin U-slot insulation displacement section***
- ***3-point grip construction***
- ***Distortion resistant construction***
- ***Compatible with the ZH crimp style connector***

Specifications

- Current rating: 0.7A AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
  After environmental testing/30m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: UL1571(Contact JST for details regarding other UL styles.)
  AWG #30, #28
  Conductor/7 strands, tin-coated
  Insulation O.D./0.7 to 0.8mm
  (Contact JST for diameters greater than 0.8mm.)
- Applicable PC board thickness: 0.6 to 1.2mm,1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

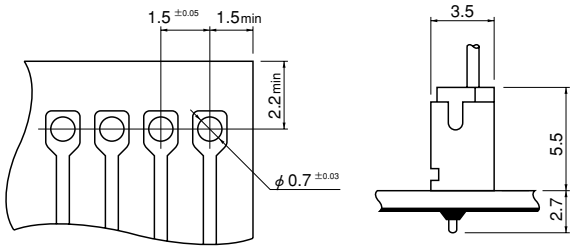
Recognized E60389

Certified LR20812

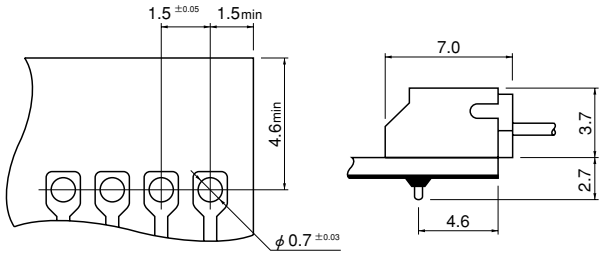
R9351092

Through-hole type PC board layout (viewed from soldering side) and Assembly layout

Top entry type

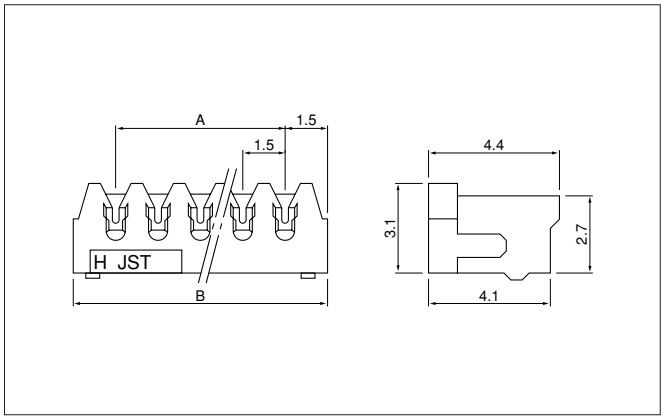


Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.
3. As for the PC board layout for the SMT type shrouded headers, refer to that of the ZH connector.

Receptacle



Cir-cuits	Model No.		Dimensions (mm)		Q'ty / box
	AWG #30(natural/gray)	AWG #28(green)	A	B	
2	**02ZR-3H-P**	**02ZR-8M-P**	1.5	4.5	2,000
3	**03ZR-3H-P**	**03ZR-8M-P**	3.0	6.0	2,000
4	**04ZR-3H-P**	**04ZR-8M-P**	4.5	7.5	2,000
5	**05ZR-3H-P**	**05ZR-8M-P**	6.0	9.0	2,000
6	**06ZR-3H-P**	**06ZR-8M-P**	7.5	10.5	2,000
7	**07ZR-3H-P**	**07ZR-8M-P**	9.0	12.0	2,000
8	**08ZR-3H-P**	**08ZR-8M-P**	10.5	13.5	2,000
9	**09ZR-3H-P**	**09ZR-8M-P**	12.0	15.0	2,000
10	**10ZR-3H-P**	**10ZR-8M-P**	13.5	16.5	2,000
11	**11ZR-3H-P**	**11ZR-8M-P**	15.0	18.0	2,000
12	**12ZR-3H-P**	**12ZR-8M-P**	16.5	19.5	2,000
13	**13ZR-3H-P**	**13ZR-8M-P**	18.0	21.0	2,000

Material and Finish
Contact: Phosphor bronze, tin-plated (reflow treatment) Housing: Glass-filled PA 66, UL94V-0

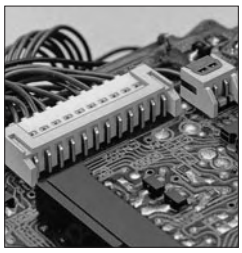
RoHS compliance
Note: Not TÜV approved.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02ZR-3H-P**
standard color AWG#30: H…gray
AWG#28: M…green
K…black R…red E…blue

Shrouded header

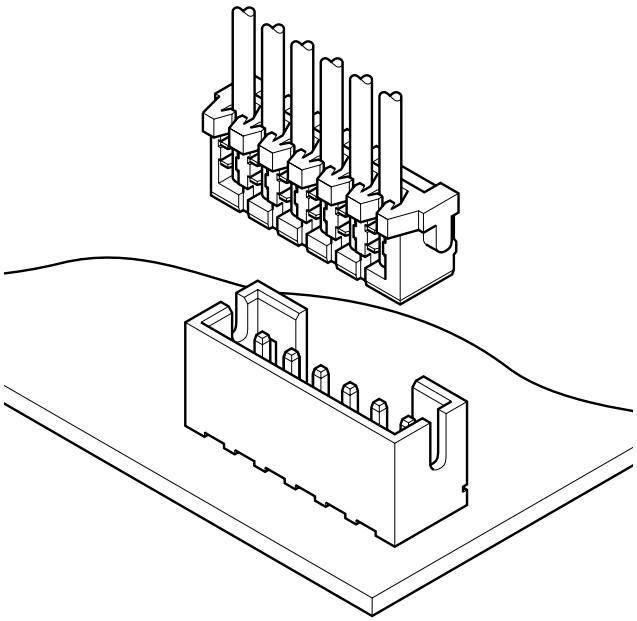
The shrouded headers are interchangeable with those of the ZH crimp style connectors.



KR CONNECTOR

Emboss Tape

2.0mm pitch/Disconnectable Insulation displacement connectors



The KR connector features a mounting height as low as 6.9mm and a thickness as thin as 4.8mm (for top entry type). It is suitable for interconnection of a wide range of electronic equipment such as VCRs, video cameras, car stereo systems and communication equipment.

- ***Folded beam double-leaf contact construction***
- ***Twin U-slot insulation displacement section***
- ***Strain relief***
- ***Compatible with the PH crimp style connector***
- ***Surface mount model (SMT)***

Specifications

- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1571, 1061 (Contact JST for details regarding other UL styles.)
  AWG #28 to #26
  Conductor/7 strands, tin-coated
  Insulation O.D./0.9 to 1.0mm
  (The standard applicable wire for connectors having 13 circuits or more is UL 1061.)
- Applicable panel thickness: 0.8 to 1.6mm

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Standards

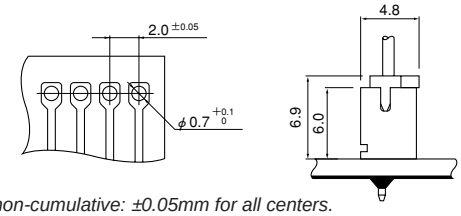
Recognized E60389

Certified LR20812

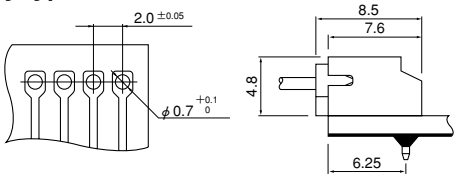
R75088

Through-hole type PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type

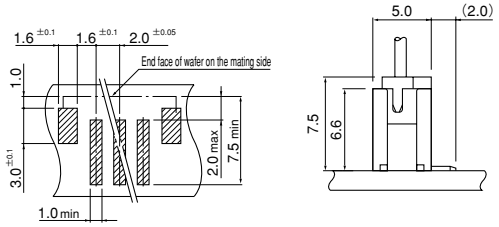


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. If PC board made of hard material are used, the hole dimensions should be larger. The hole dimensions above should serve as a guideline. Contact JST for details.

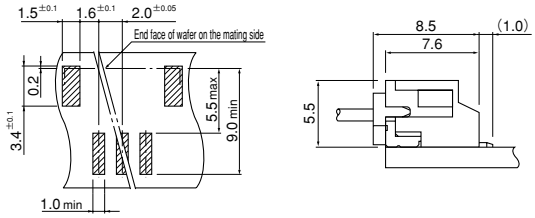
SMT type PC board layout (viewed from component side) and Assembly layout

<SM4 type>

Top entry type



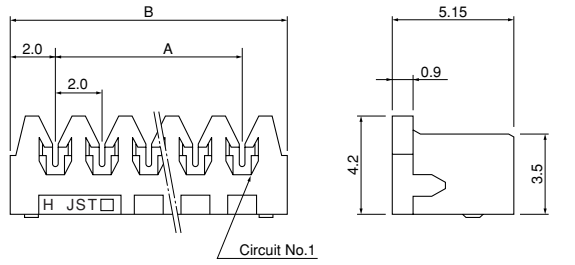
Side entry type



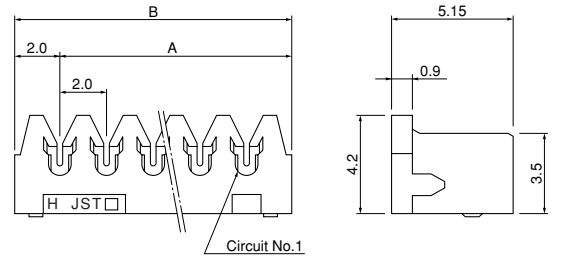
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle

(2 to 12 circuits)



(13 to 16 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / box
	Normal type	A	B	
2	**02KR-6H-P**	2.0	6.0	2,000
3	**03KR-6H-P**	4.0	8.0	2,000
4	**04KR-6H-P**	6.0	10.0	2,000
5	**05KR-6H-P**	8.0	12.0	2,000
6	**06KR-6H-P**	10.0	14.0	2,000
7	**07KR-6H-P**	12.0	16.0	1,000
8	**08KR-6H-P**	14.0	18.0	1,000
9	**09KR-6H-P**	16.0	20.0	1,000
10	**10KR-6H-P**	18.0	22.0	1,000
11	**11KR-6H-P**	20.0	24.0	1,000
12	**12KR-6H-P**	22.0	26.0	1,000
13	**13KR-6H-P**	24.0	28.0	500
14	**14KR-6H-P**	26.0	30.0	500
15	**15KR-6H-P**	28.0	32.0	500
16	**16KR-6H-P**	30.0	34.0	500

Material and Finish
Contact: Phosphor bronze, tin-plated (reflow treatment) Housing: 2 to 12 circuits/PA 66, UL94V-0,gray 13 to 16 circuits/Glass-filled PA 66, UL94V-0, gray

RoHS compliance

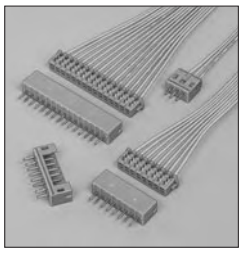
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **02KR-6H-P**

H…gray K…black E…blue R…red

Shrouded header

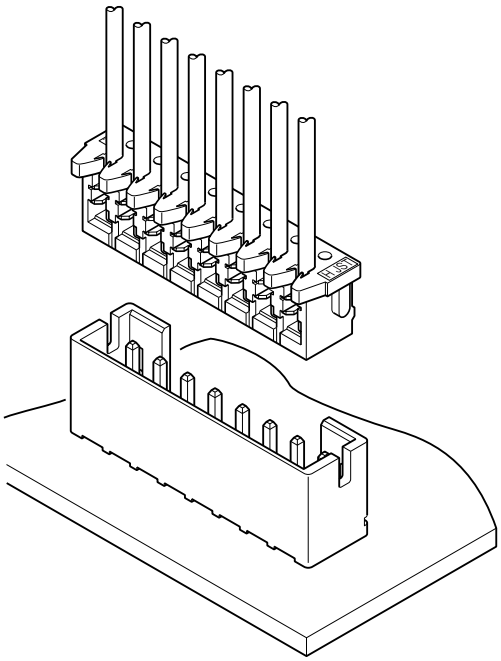
The shrouded headers are interchangeable with those of the PH crimp style connectors and CR and KRD insulation displacement connectors.



CK CONNECTOR

Emboss Tape

2.0mm pitch/Disconnectable Insulation displacement connectors



Multi-harness of CK connector (2.0mm) and CZ connector (1.5mm) combination has been realized. The in-line type IDC features low profile design with 6.9mm mounting height and 4.8mm thickness (top entry type).

- ***UL10272 wire is applicable***
- ***Folded beam double-leaf contact construction***
- ***Twin U-slot insulation displacement section***
- ***Strain relief***

Specifications

- Current rating: 2A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1061, UL10272(Contact JST for details regarding other UL styles.)
  AWG #28, #26
  Conductor/tin-plated annealed copper strands
  Insulation O.D./0.75 to 1.05mm
- Applicable PC board thickness: 0.8 to 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

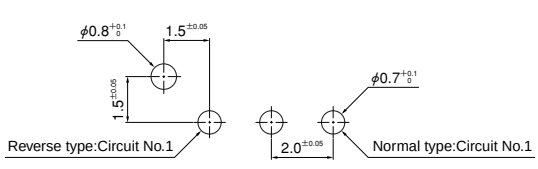
Standards

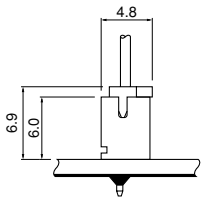
Recognized E60389

Certified LR20812

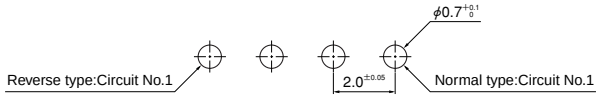
PC board layout (viewed from component side) and Assembly layout

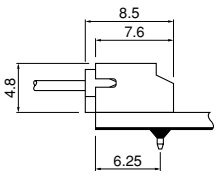
Top entry type





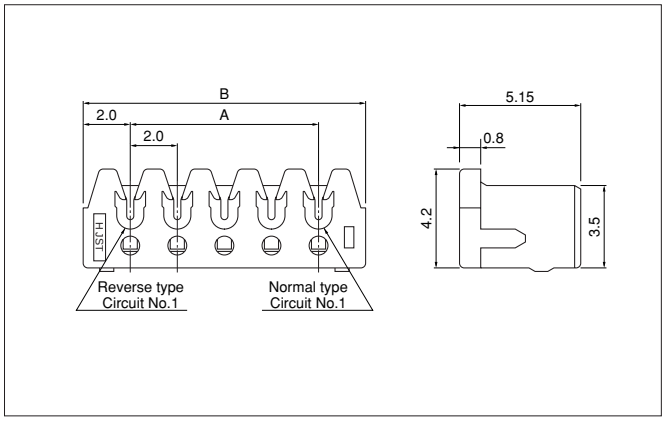
Side entry type





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Normal type	Reverse type	A	B	
2	**02CK-6H-P**	**02CK-6H-PC**	2.0	6.0	2,000
3	**03CK-6H-P**	**03CK-6H-PC**	4.0	8.0	2,000
4	**04CK-6H-P**	**04CK-6H-PC**	6.0	10.0	2,000
5	**05CK-6H-P**	**05CK-6H-PC**	8.0	12.0	2,000
6	**06CK-6H-P**	**06CK-6H-PC**	10.0	14.0	2,000
7	**07CK-6H-P**	**07CK-6H-PC**	12.0	16.0	1,000
8	**08CK-6H-P**	**08CK-6H-PC**	14.0	18.0	1,000
9	**09CK-6H-P**	**09CK-6H-PC**	16.0	20.0	1,000
10	**10CK-6H-P**	**10CK-6H-PC**	18.0	22.0	1,000
11	**11CK-6H-P**	**11CK-6H-PC**	20.0	24.0	1,000
12	**12CK-6H-P**	**12CK-6H-PC**	22.0	26.0	1,000
13	**13CK-6H-P**	**13CK-6H-PC**	24.0	28.0	500
14	**14CK-6H-P**	**14CK-6H-PC**	26.0	30.0	500
15	**15CK-6H-P**	**15CK-6H-PC**	28.0	32.0	500

Material and Finish

Contact: Copper alloy, tin-plated (reflow treatment)
Housing: Glass-filled PA 66

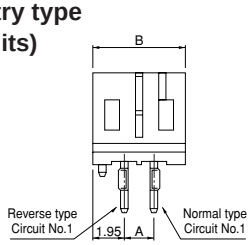
RoHS compliance

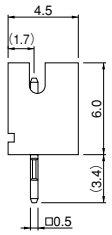
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02CK-6H-P**
H…gray Y…yellow R…red N…brown

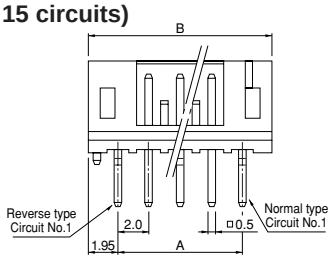
Single-row shrouded header (Through-hole type)

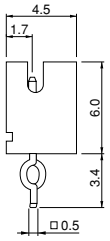
Top entry type (2 circuits)



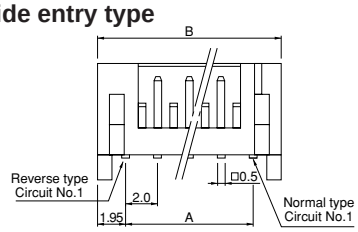


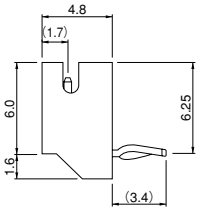
(3 to 15 circuits)





Side entry type





Circuits	Model No.				Dimensions (mm)		Q'ty / box	
	Normal type		Reverse type					
	Top entry type (with a boss)	Side entry type	Top entry type (with a boss)	Side entry type	A	B	Top entry type	Side entry type
2	**B2B-PH-KBL-H**	**S2B-PH-KL**	**B2B-PH-KBLC-H**	**S2B-PH-KLC-H**	2.0	5.9	1,000	1,000
3	**B3B-PH-KBL-H**	**S3B-PH-KL**	**B3B-PH-KBLC-H**	**S3B-PH-KLC-H**	4.0	7.9	1,000	1,000
4	**B4B-PH-KBL-H**	**S4B-PH-KL**	**B4B-PH-KBLC-H**	**S4B-PH-KLC-H**	6.0	9.9	1,000	500
5	**B5B-PH-KBL-H**	**S5B-PH-KL**	**B5B-PH-KBLC-H**	**S5B-PH-KLC-H**	8.0	11.9	1,000	500
6	**B6B-PH-KBL-H**	**S6B-PH-KL**	**B6B-PH-KBLC-H**	**S6B-PH-KLC-H**	10.0	13.9	1,000	500
7	**B7B-PH-KBL-H**	**S7B-PH-KL**	**B7B-PH-KBLC-H**	**S7B-PH-KLC-H**	12.0	15.9	500	500
8	**B8B-PH-KBL-H**	**S8B-PH-KL**	**B8B-PH-KBLC-H**	**S8B-PH-KLC-H**	14.0	17.9	500	250
9	**B9B-PH-KBL-H**	**S9B-PH-KL**	**B9B-PH-KBLC-H**	**S9B-PH-KLC-H**	16.0	19.9	500	250
10	**B10B-PH-KBL-H**	**S10B-PH-KL**	**B10B-PH-KBLC-H**	**S10B-PH-KLC-H**	18.0	21.9	500	250
11	**B11B-PH-KBL-H**	**S11B-PH-KL**	**B11B-PH-KBLC-H**	**S11B-PH-KLC-H**	20.0	23.9	500	250
12	**B12B-PH-KBL-H**	**S12B-PH-KL**	**B12B-PH-KBLC-H**	**S12B-PH-KLC-H**	22.0	25.9	500	250
13	**B13B-PH-KBL-H**	**S13B-PH-KL**	**B13B-PH-KBLC-H**	**S13B-PH-KLC-H**	24.0	27.9	250	250
14	**B14B-PH-KBL-H**	**S14B-PH-KL**	**B14B-PH-KBLC-H**	**S14B-PH-KLC-H**	26.0	29.9	250	200
15	**B15B-PH-KBL-H**	**S15B-PH-KL**	**B15B-PH-KBLC-H**	**S15B-PH-KLC-H**	28.0	31.9	250	200

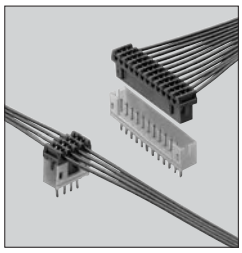
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, gray

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Top entry type headers without bosses are also available.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

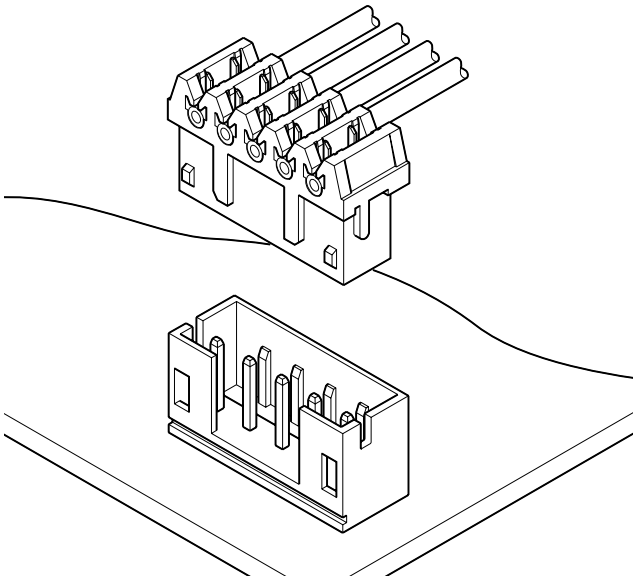
ex. **B2B- PH- KBLC-H**
H…gray Y…yellow R…red N…brown
(blank)…gray (normal side entry type only)



KRD CONNECTOR

Emboss Tape

2.0mm pitch/Disconnectable Insulation displacement connectors



This 2.0mm pitch insulation displacement connector is another version of the NRD connector for printed circuit boards. The KRD connector allows daisy chaining and is very useful in simplifying connection systems in electronic equipment.

- ***Daisy chain connection***
- ***Twin slot insulation displacement section***
- ***Distortion resistant construction***
- ***Interchangeability***
- ***Low profile design - a mere 9.0mm high from the PC board surface***

Specifications

- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1571, UL1061 (Contact JST for details regarding other UL styles.)
  AWG #28, #26
  Conductor/7 strands, tin-coated
  Insulation O.D./0.9 to 1.0mm
- Applicable PC board thickness: 0.8 to 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

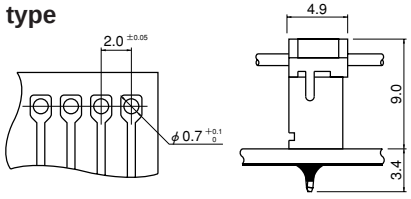
Standards

Recognized E60389

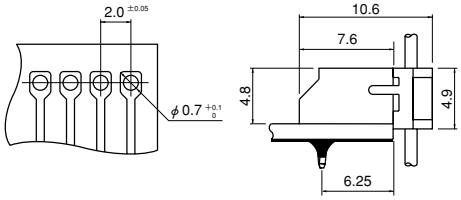
Certified LR20812

Through-hole type PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type

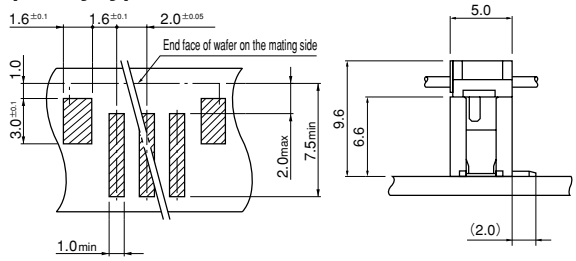


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC boards and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

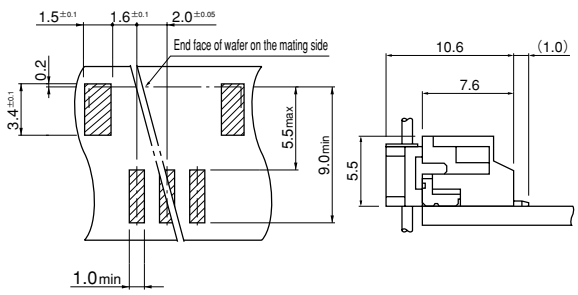
SMT type PC board layout (viewed from component side) and Assembly layout

<SM4 type>

Top entry type

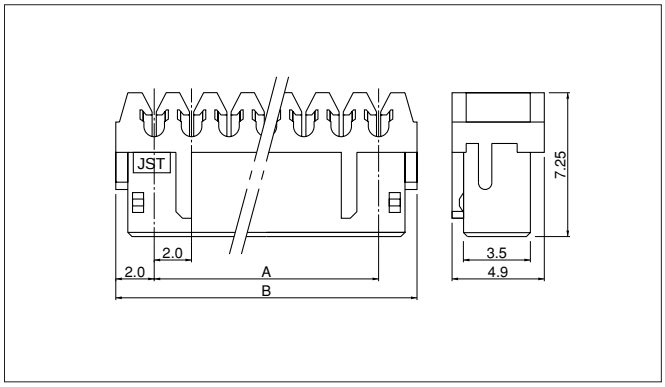


Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	AWG #28(green)	AWG #26(natural/white)	A	B	
2	**02KR-D8M-P**	**02KR-D6S-P**	2.0	6.0	2,000
3	**03KR-D8M-P**	**03KR-D6S-P**	4.0	8.0	2,000
4	**04KR-D8M-P**	**04KR-D6S-P**	6.0	10.0	2,000
5	**05KR-D8M-P**	**05KR-D6S-P**	8.0	12.0	1,000
6	**06KR-D8M-P**	**06KR-D6S-P**	10.0	14.0	1,000
7	**07KR-D8M-P**	**07KR-D6S-P**	12.0	16.0	1,000
8	**08KR-D8M-P**	**08KR-D6S-P**	14.0	18.0	1,000
9	**09KR-D8M-P**	**09KR-D6S-P**	16.0	20.0	500
10	**10KR-D8M-P**	**10KR-D6S-P**	18.0	22.0	500
11	**11KR-D8M-P**	**11KR-D6S-P**	20.0	24.0	500
12	**12KR-D8M-P**	**12KR-D6S-P**	22.0	26.0	500
13	**13KR-D8M-P**	**13KR-D6S-P**	24.0	28.0	500
14	**14KR-D8M-P**	**14KR-D6S-P**	26.0	30.0	500
15	**15KR-D8M-P**	**15KR-D6S-P**	28.0	32.0	500
16	**16KR-D8M-P**	**16KR-D6S-P**	30.0	34.0	500

Material and Finish
Contact: Phosphor bronze, tin-plated (reflow treatment) Housing: PA 66, UL94V-0

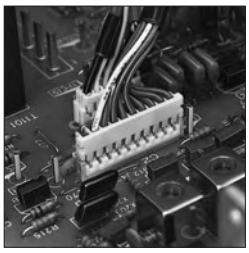
RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02KR-D6S-P**
S…natural (white) [standard color for AWG#26]
M…green [standard color for AWG#28]

Shrouded header

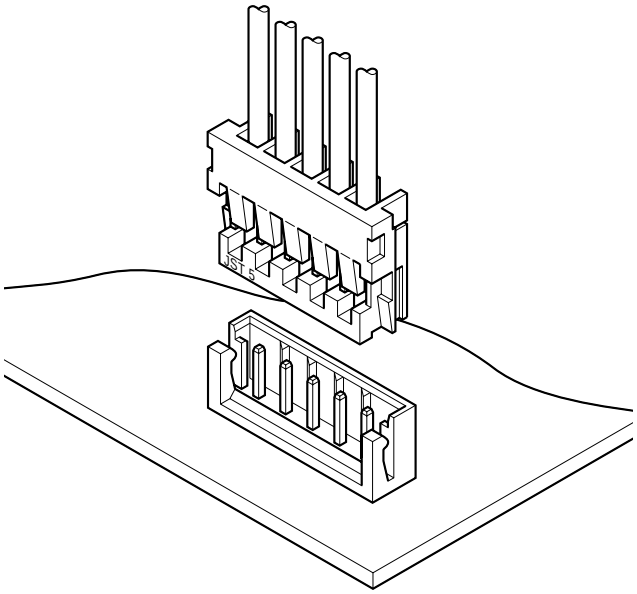
The shrouded headers are interchangeable with the PH crimp style connectors and with CR and KR insulation displacement connectors.



HR CONNECTOR

Radial Tape

2.5mm pitch/Disconnectable Insulation displacement connectors



This 2.5mm pitch connector for printed circuit boards has a thin construction. The in-line method provides high-density capability to the end user.

- ***Twin U-slot insulation displacement section***
- ***Thin design***
- ***High reliability***
- ***Strain relief***
- ***Interchangeability***

Specifications

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: UL1007(Contact JST for details regarding other UL styles.)
  AWG #28, #26, #24
  Conductor/7 strands, tin-coated
  Insulation O.D./1.0 to 1.5mm
- Applicable PC board thickness: 0.8 to 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

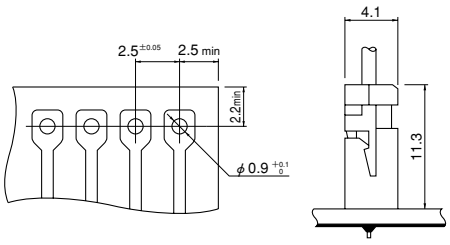
Recognized E60389

Certified LR20812

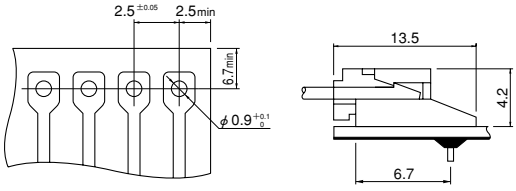
R50082349

PC board layout (viewed from soldering side) and Assembly layout

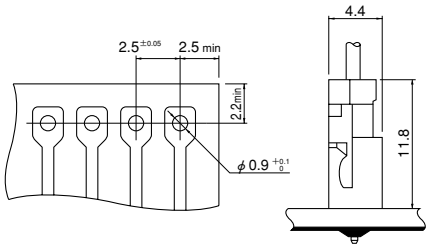
Top entry type



Side entry type

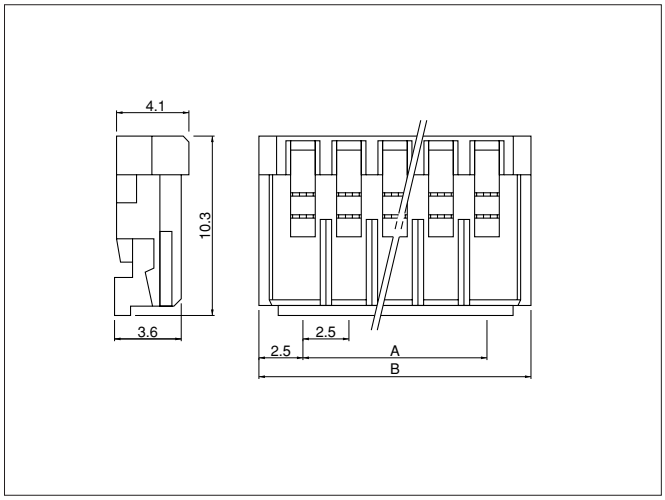


Top entry type on radial-tape



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. If PC boards made of hard material are used, the hole dimensions should be larger. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle



Cir-cuits	Model No.			Dimensions (mm)		Q'ty / box
	AWG #28 (green)	AWG #26 (natural/white)	AWG #24 (black)	A	B	
2	**02HR-8M-P-N**	**02HR-6S-P-N**	**02HR-4K-P-N**	2.5	7.5	1,000
3	**03HR-8M-P-N**	**03HR-6S-P-N**	**03HR-4K-P-N**	5.0	10.0	1,000
4	**04HR-8M-P-N**	**04HR-6S-P-N**	**04HR-4K-P-N**	7.5	12.5	1,000
5	**05HR-8M-P-N**	**05HR-6S-P-N**	**05HR-4K-P-N**	10.0	15.0	1,000
6	**06HR-8M-P-N**	**06HR-6S-P-N**	**06HR-4K-P-N**	12.5	17.5	1,000
7	**07HR-8M-P-N**	**07HR-6S-P-N**	**07HR-4K-P-N**	15.0	20.0	500
8	**08HR-8M-P-N**	**08HR-6S-P-N**	**08HR-4K-P-N**	17.5	22.5	500
9	**09HR-8M-P-N**	**09HR-6S-P-N**	**09HR-4K-P-N**	20.0	25.0	500
10	**10HR-8M-P-N**	**10HR-6S-P-N**	**10HR-4K-P-N**	22.5	27.5	500
11	**11HR-8M-P-N**	**11HR-6S-P-N**	**11HR-4K-P-N**	25.0	30.0	500
12	**12HR-8M-P-N**	**12HR-6S-P-N**	**12HR-4K-P-N**	27.5	32.5	500
13	**13HR-8M-P-N**	**13HR-6S-P-N**	**13HR-4K-P-N**	30.0	35.0	250
15	—	**15HR-6S-P-N**	**15HR-4K-P-N**	35.0	40.0	250

Material and Finish
Contact: coppe alloy, tin-plated (reflow treatment) Housing: PA 66, UL94V-0

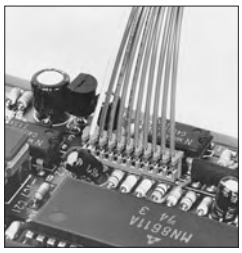
Note: 1. Not TÜV approved.
2. 15HR-6S-P-N and 15HR-4K-P-N are not also UL/CSA approved.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02HR-4K-P-N**
standard color AWG#28: M…green, AWG#26: S…natural (white)
AWG#24: K…black
R…red TR…tomato red Y…yellow L…lemon yellow
N…brown E…blue O…orange

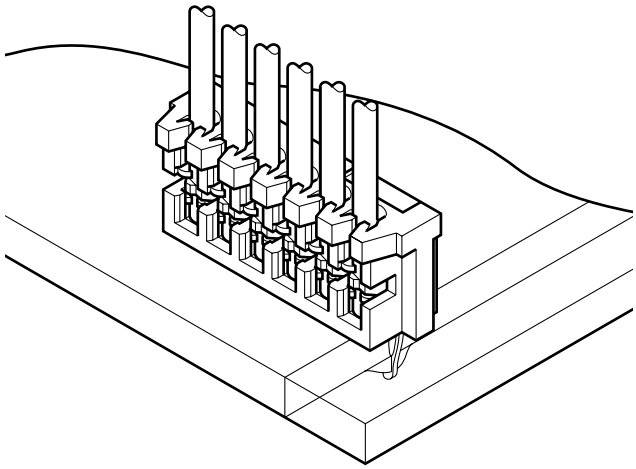
Shrouded header

The shrouded headers are interchangeable with those of the EH and HR crimp style connectors.



ZA CONNECTOR

1.5mm pitch/Board-in Insulation displacement connectors



This newly designed insulation displacement board-in connector features twin slots provided at the insulation displacement section. This is the most important section of the insulation displacement connector contact, and has an insulation barrel located between the twin slots. The insulation barrel firmly grips and secures the wire during insulation displacement connection to protect the insulation displacement section from possible damage. Due to significant increases in connection reliability, insulation displacement connection has become possible with this 1.5mm pitch board-in connector.

- ***Compact, direct mounting 1.5mm pitch insulation displacement board-in connector***
- ***Twin-slot insulation displacement section***
- ***Insulation barrel construction***
- ***3-point grip construction***

Specifications

- Current rating: 0.7A AC, DC (AWG #28)
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: UL1571(Contact JST for details regarding other UL styles.)
  AWG #30, #28
  (Contact JST if AWG #30 wire is to be used.)
  Conductor/7 strands, tin-coated
  Insulation O.D./0.7 to 0.8mm
  (Contact JST for diameters greater than 0.8mm)
- Applicable PC board thickness: 0.6 to 1.2mm

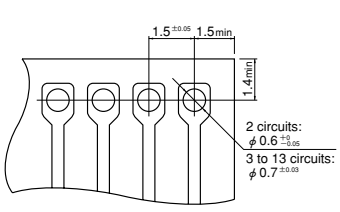
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

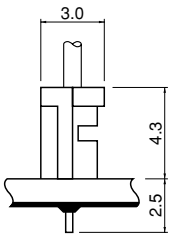
Standards

Recognized E60389

Certified LR20812

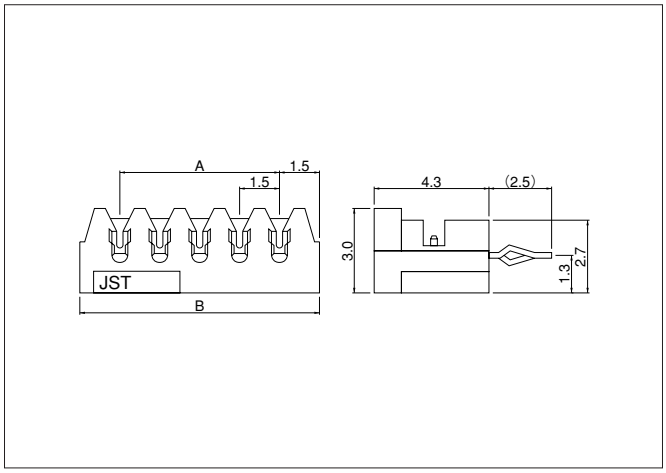
PC board layout (viewed from soldering side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.
3. Pulling or otherwise putting a strain on the harness attached to the connector before the solder has completely cooled can dislodge the connector or cause its misalignment.
4. Do not reuse connectors that were previously soldered and then removed from a PC board.

Connector



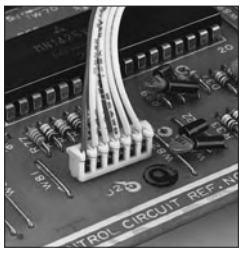
Circuits	Model No.		Dimensions (mm)		Q'ty / box
	AWG #30(natural/gray)	AWG #28(green)	A	B	
2	**02ZA-3H**	**02ZA-8M**	1.5	4.5	2,000
3	**03ZA-3H**	**03ZA-8M**	3.0	6.0	2,000
4	**04ZA-3H**	**04ZA-8M**	4.5	7.5	2,000
5	**05ZA-3H**	**05ZA-8M**	6.0	9.0	2,000
6	**06ZA-3H**	**06ZA-8M**	7.5	10.5	2,000
7	**07ZA-3H**	**07ZA-8M**	9.0	12.0	1,000
8	**08ZA-3H**	**08ZA-8M**	10.5	13.5	1,000
9	**09ZA-3H**	**09ZA-8M**	12.0	15.0	1,000
10	**10ZA-3H**	**10ZA-8M**	13.5	16.5	1,000
11	**11ZA-3H**	**11ZA-8M**	15.0	18.0	1,000
12	**12ZA-3H**	**12ZA-8M**	16.5	19.5	1,000
13	**13ZA-3H**	**13ZA-8M**	18.0	21.0	500

Material and Finish
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) Housing: Glass-filled PA 66, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Contact JST if AWG #30 wire is to be used.

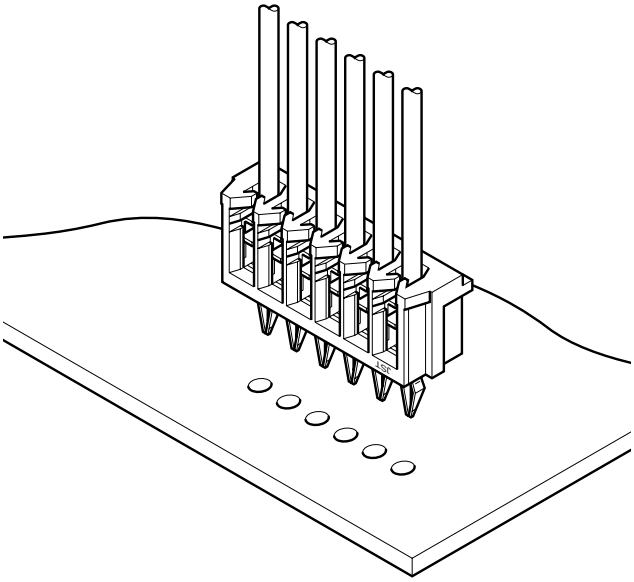
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02ZA-3H**
H…gray [standard color for AWG#30]
M…green [standard color for AWG#28]



DA CONNECTOR

2.0mm pitch/Board-in Insulation displacement connectors



Measuring 2.0mm in pitch, 5.0mm in mounting height, and 4.0mm in thickness, this board-in connector is useful in miniaturizing the connections of small electronic products, such as VCRs, cameras, stereo systems, and car radios. This connector can be used by itself or in combination with the DR connector.

- ***Compact and low profile***
- ***Twin U-slot insulation displacement section***
- ***Easy mounting onto printed circuit boards***
- ***Strain relief***
- ***Interchangeability***

Specifications

- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1571, 1061(Contact JST for details regarding other UL styles.)
  AWG #28, #26
  Conductor/7 strands, tin-coated
  Insulation O.D./ 0.9 to 1.0mm
- Applicable PC board thickness: 1.2, 1.6mm

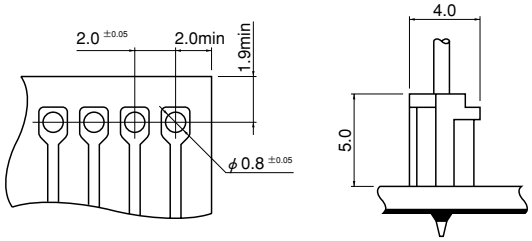
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

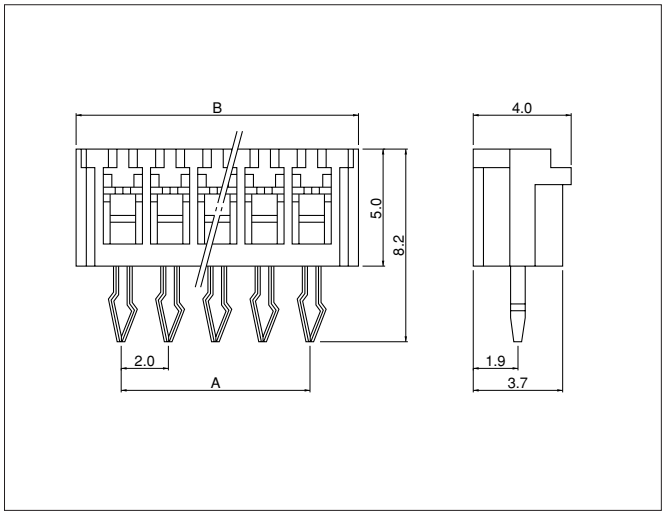
Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.
3. Pulling or otherwise putting a strain on the harness attached to the connector before the solder has completely cooled can dislodge the connector or cause its misalignment.
4. Do not reuse any connectors that were previously soldered and then removed from a PC board.

Connector



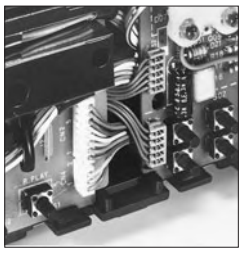
Cir-cuits	Model No.		Dimensions (mm)		Q'ty / box
	AWG #28(green)	AWG #26(natural/white)	A	B	
2	**02DA-8M**	**02DA-6S**	2.0	5.9	2,000
3	**03DA-8M**	**03DA-6S**	4.0	7.9	2,000
4	**04DA-8M**	**04DA-6S**	6.0	9.9	1,000
5	**05DA-8M**	**05DA-6S**	8.0	11.9	1,000
6	**06DA-8M**	**06DA-6S**	10.0	13.9	1,000
7	**07DA-8M**	**07DA-6S**	12.0	15.9	1,000
8	**08DA-8M**	**08DA-6S**	14.0	17.9	1,000
9	**09DA-8M**	**09DA-6S**	16.0	19.9	500
10	**10DA-8M**	**10DA-6S**	18.0	21.9	500
11	**11DA-8M**	**11DA-6S**	20.0	23.9	500
12	**12DA-8M**	**12DA-6S**	22.0	25.9	500
13	**13DA-8M**	**13DA-6S**	24.0	27.9	500
14	**14DA-8M**	**14DA-6S**	26.0	29.9	500
15	**15DA-8M**	**15DA-6S**	28.0	31.9	250

Material and Finish
Contact: Phosphor bronze, nickel-undercoated, tin-plated Housing: PA 66, UL94V-0

RoHS compliance *This product displays (LF) on a label.*

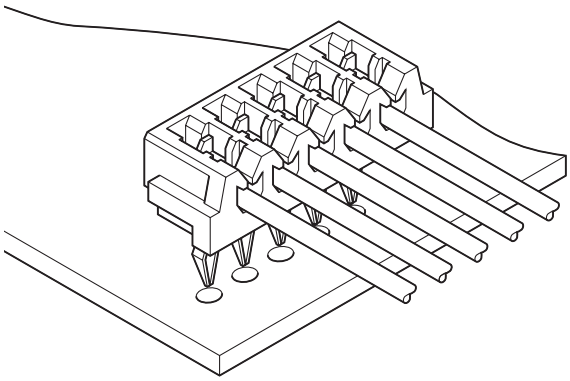
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02DA-8M**
S…natural (white) [standerd color for AWG#26]
M…green [standerd color for AWG#28]



DD/DS CONNECTOR

2.0mm pitch/Board-in Insulation displacement connectors



The DD and DS right angle board-in insulation displacement connectors measure just 3.5mm in mounting height and 4.3mm in width.
Since these right angle connectors are connected to wires running parallel to the printed circuit board, electronic equipment can have a lower profile. These connectors are suited for the high density wiring of electronic products.

- ***Compact and low profile***
- ***Twin U-slot insulation displacement section***
- ***Compliant locking solder tails***
- ***Strain relief***

Specifications

- Current rating: 0.7A AC, DC
- Voltage rating: 100V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1571, 1061(Contact JST for diameters regarding other UL styles.)
  AWG #28
  Conductor/7 strands, tin-coated
  Insulation O.D./0.9mm
- Applicable PC board thickness:
  DD connector: 0.8, 1.0mm
  DS connector: 1.2, 1.6mm

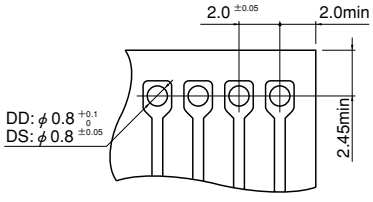
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

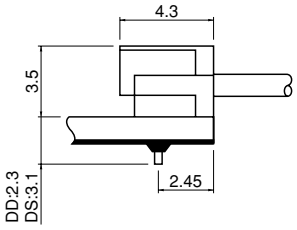
Standards

Recognized E60389

Certified LR20812

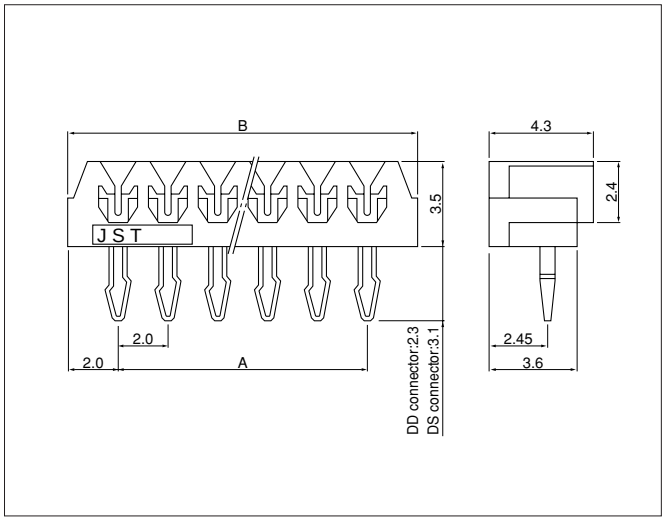
PC board layout (viewed from soldering side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.
3. Pulling or otherwise putting a strain on the harness attached to the connector before the solder has completely cooled can dislodge the connector or cause its misalignment.
4. Do not reuse any connectors that were previously soldered to and then removed from a PC board.

Connector



Cir-cuits	Model No.		Dimensions (mm)		Q'ty / box
	DD connector AWG #28(green)	DS connector AWG #28(blue)	A	B	
2	**02DD-8M**	**02DS-8E**	2.0	6.0	2,000
3	**03DD-8M**	**03DS-8E**	4.0	8.0	2,000
4	**04DD-8M**	**04DS-8E**	6.0	10.0	1,000
5	**05DD-8M**	**05DS-8E**	8.0	12.0	1,000
6	**06DD-8M**	**06DS-8E**	10.0	14.0	1,000
7	**07DD-8M**	**07DS-8E**	12.0	16.0	1,000
8	**08DD-8M**	**08DS-8E**	14.0	18.0	500
9	**09DD-8M**	**09DS-8E**	16.0	20.0	500
10	**10DD-8M**	**10DS-8E**	18.0	22.0	500
11	**11DD-8M**	**11DS-8E**	20.0	24.0	500
12	**12DD-8M**	**12DS-8E**	22.0	26.0	500
13	**13DD-8M**	**13DS-8E**	24.0	28.0	500
14	**14DD-8M**	**14DS-8E**	26.0	30.0	500
15	**15DD-8M**	**15DS-8E**	28.0	32.0	500

Material and Finish
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) Housing: 2 to 11 circuits/PA 66, UL94V-0 12 to 15 circuits/Glass-filled PA 66, UL94V-0

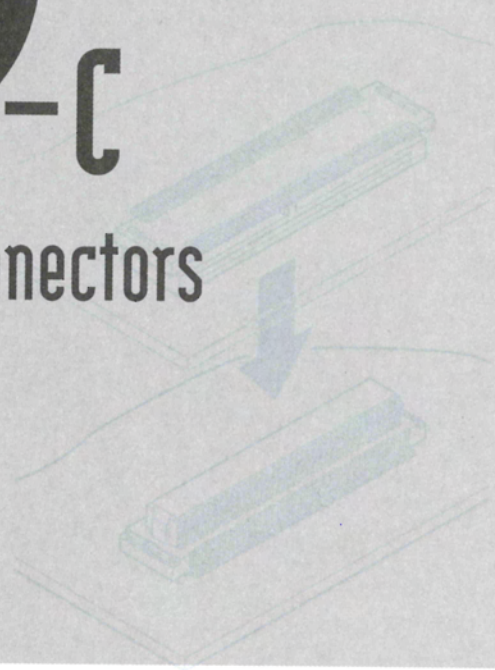
RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02DD-8M**
M…(DD connector) green
E…(DS connector) blue

1-C

Board to Board Connectors



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• 2.0mm pitch	FJ CONNECTOR	161
	MQ CONNECTOR	163
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	JL CONNECTOR	167
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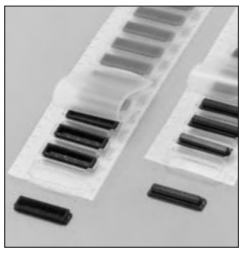
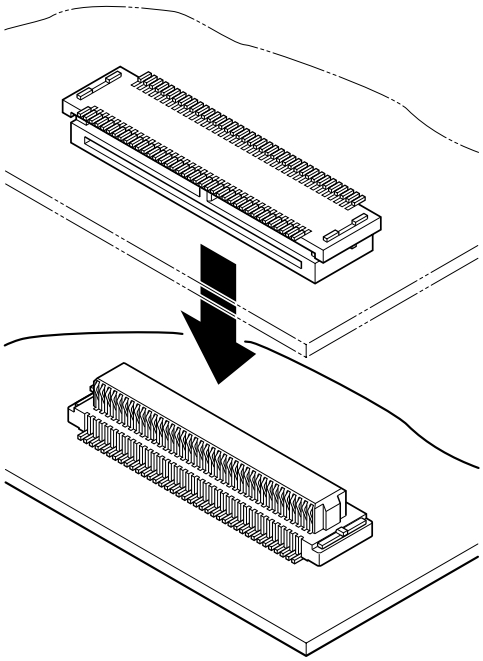


JAS CONNECTOR

0.4mm pitch/Board-to-board connectors

Emboss Tape



- ***The plug housing is constructed of two separate parts. This allows the connector to be put under greater torsion strain than similar connectors without any damage being done to the solder joints.***
- ***Both plug and receptacle have the double I type solder tabs, which reduces the stress by the distorted mating/unmating applied to the solder tails.***

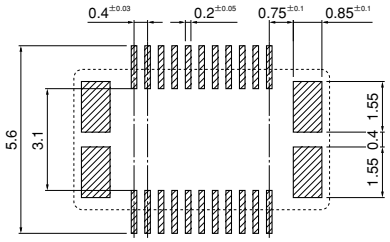
Specifications ––––––––––––––––––

- Current rating: 0.3A AC,DC
- Voltage rating: 30V AC,DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/70m Ω max.
  After environmental testing/140m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute

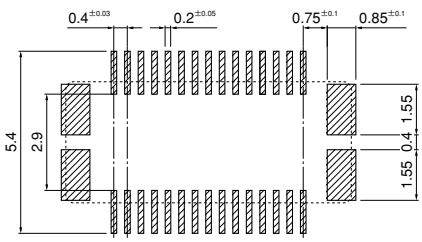
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

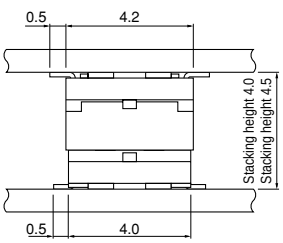
PC board layout (viewed from component side) and Assembly layout

Plug



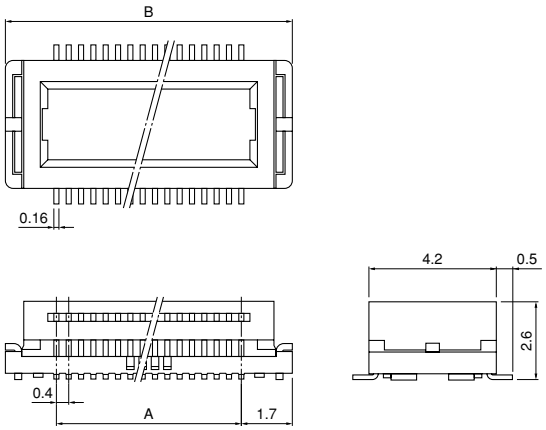
Receptacle





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Plug

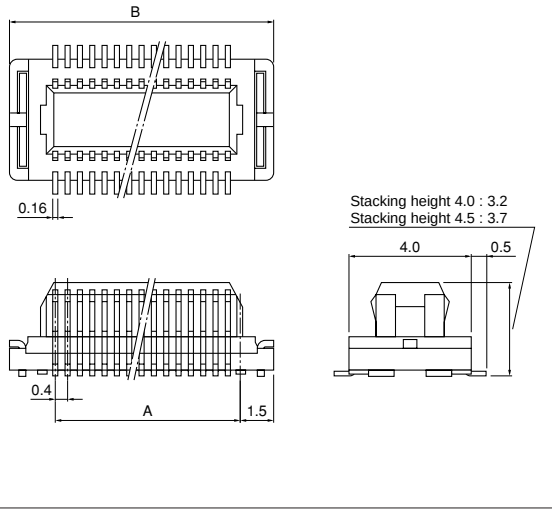


Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
80	**80P-JASKS-GE-TF**	15.6	19.0	2,500
100	**100P-JASKS-GE-TF**	19.6	23.0	2,500
120	**120P-JASKS-GE-TF2**	23.6	27.0	1,500

Material and Finish
Contact: Phosphor bronze, nickel-undercoated, gold-plated Housing: PPS, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: The products listed above are supplied on embossed-tape.

Receptacle



Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Stacking height		A	B	
	4.0mm	4.5mm			
80	**80R-JASKS-GWAN-TF**	—	15.6	18.6	2,500
100	**100R-JASKS-GWAN-TF**	**100R4.5-JASKS-GWAN-TF**	19.6	22.6	2,500
120	—	**120R4.5-JASKS-GWAN-TF2**	23.6	26.6	1,500

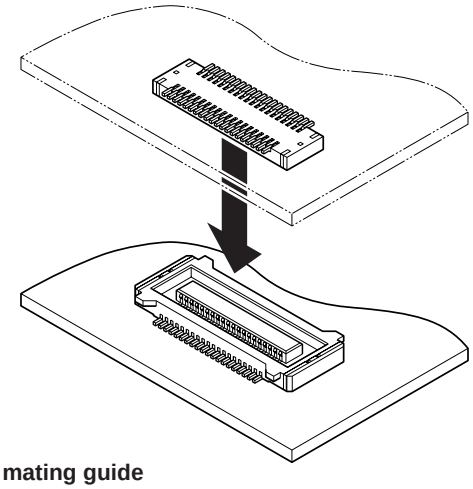
Material and Finish
Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe) Housing: LCP, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: The products listed above are supplied on embossed-tape.

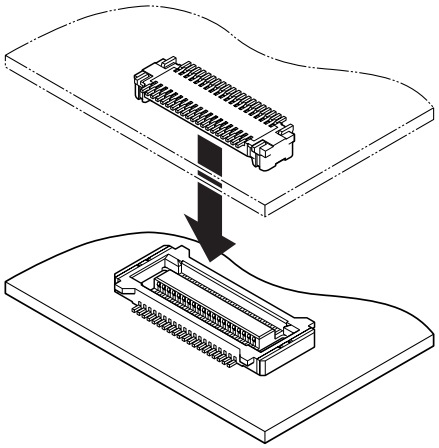
JAV CONNECTOR

0.4mm pitch/Board-to-board connectors

Emboss Tape



With mating guide



0.4mm pitch, SMT, low profile connector with parallel connection.

- ***Fine pitch and extremely low profile***
- ***Contact lock construction***
- ***Flat surface***
- ***Concentration contact structure with wiping action***
- ***Mating connector inside box shaped plug and receptacle***
- ***Solder going-up prevention***

JAV connector with mating guide

- ***Mating guide structure***

Specifications

- Current rating: 0.3A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/70m Ω max.
  After environmental testing/140m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

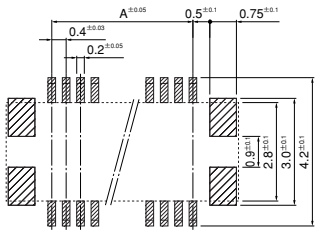
Standards

Recognized E60389

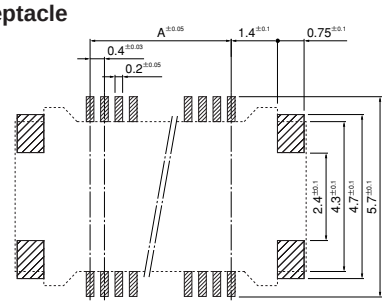
Certified LR20812

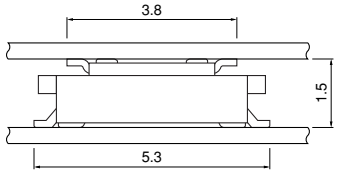
PC board layout (viewed from component side) and Assembly layout

Plug

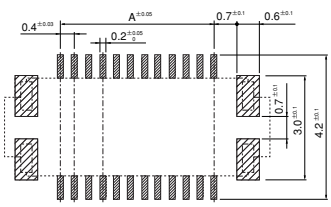


Receptacle

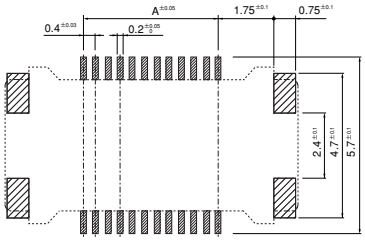


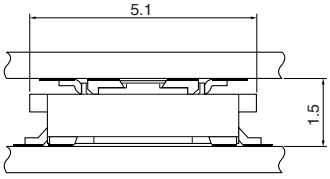


Plug/with mating guide



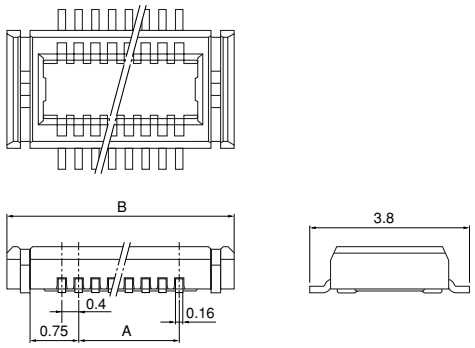
Receptacle/with mating guide



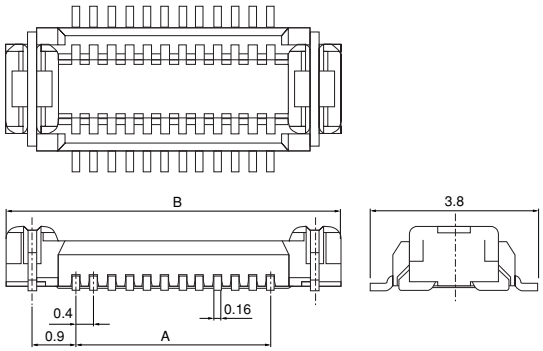


Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Plug



With mating guide



Circuits	Model No.	Dimensions (mm)		Q'ty/ reel
		A	B	
*20	**20PA-JAVK-GSAN-TF**	3.6	6.2	3,500
22	**22PA-JAVK-GSAN-TF**	4.0	6.6	3,500
26	**26PA-JAVK-GSAN-TF**	4.8	7.4	3,500
30	**30PA-JAVK-GSAN-TF**	5.6	8.2	3,500
40	**40PA-JAVK-GSAN-TF**	7.6	10.2	3,500
*70	**70PA-JAVK-GSAN-TF**	13.6	16.2	3,500

Material and Finish
Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe) Housing: LCP, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: 1. The products listed above are supplied on embossed-tape.
*2. *Marked products are not CSA approved.*

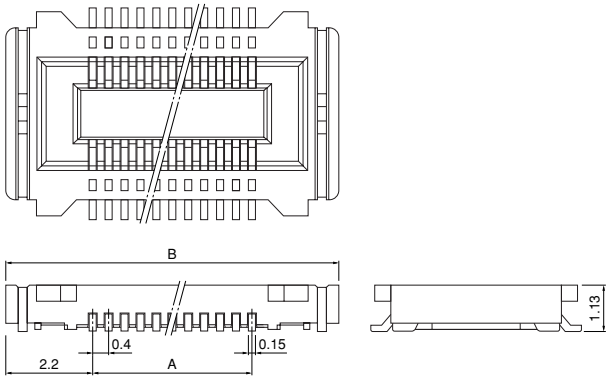
With mating guide

Circuits	Model No.	Dimensions (mm)		Q'ty/ reel
		A	B	
24	**24PA-JAVK-GSAN-1-TF**	4.4	7.6	3,000

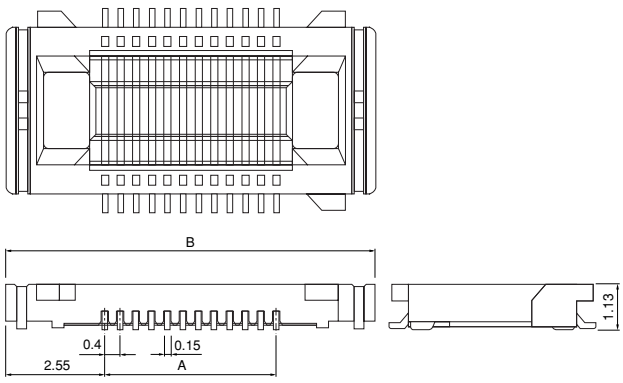
Material and Finish
Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe) Housing: LCP, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: The product listed above is supplied on embossed-tape.

Receptacle



With mating guide



Circuits	Model No.	Dimensions (mm)		Q'ty/ reel
		A	B	
*20	**20R-JAVK-GSAN-TF**	3.6	8.0	3,500
22	**22R-JAVK-GSAN-TF**	4.0	8.4	3,500
26	**26R-JAVK-GSAN-TF**	4.8	9.2	3,500
30	**30R-JAVK-GSAN-TF**	5.6	10.0	3,500
40	**40R-JAVK-GSAN-TF**	7.6	12.0	3,500
*70	**70R-JAVK-GSAN-TF**	13.6	18.0	3,500

Material and Finish
Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe) Housing: LCP, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

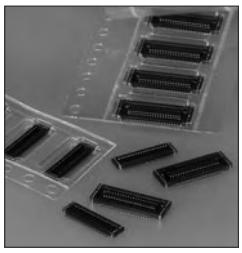
RoHS compliance *This product displays (LF)(SN) on a label.*
Note: 1. The products listed above are supplied on embossed-tape.
*2. *Marked products are not CSA approved.*

With mating guide

Circuits	Model No.	Dimensions (mm)		Q'ty/ reel
		A	B	
24	**24R-JAVK-GSAN-1-TF**	4.4	9.5	3,500

Material and Finish
Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe) Housing: LCP, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

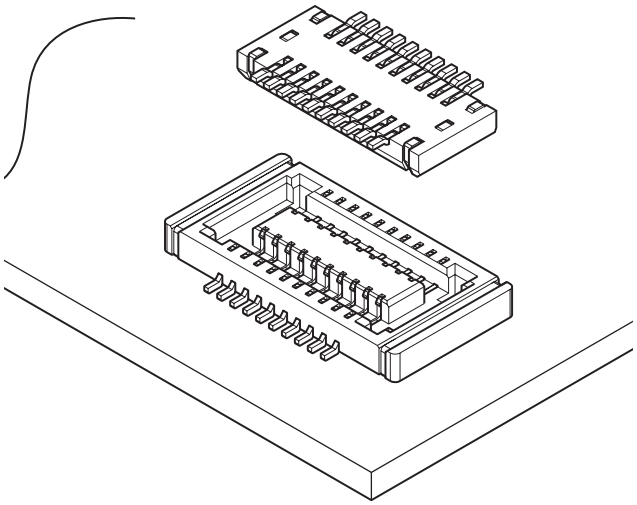
RoHS compliance *This product displays (LF)(SN) on a label.*
Note: The product listed above is supplied on embossed-tape.



JAN CONNECTOR

Emboss Tape

0.4mm pitch/Board-to-board connectors



This JAN connector is a board-to-board connector with stacking height 1.0mm and 0.4mm pitch, which is the lowest-profile connector in the [electro mechanical component] industry.
In consideration of operability at user side, although it is 1.0mm low profile, when mating receptacle with plug, the connector structure, where the large amount of guiding connector can be taken, is adopted, and differentiates JAN connector with added value.

- ***Locking mechanism of contact***
- ***Wiping contact structure***
- ***Reinforcement tabs***

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/70m Ω max.
  After environmental testing/140m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

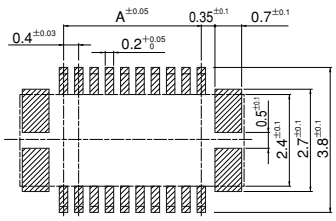
Standards

Recognized E60389

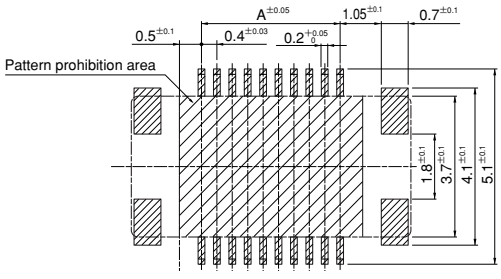
Certified LR20812

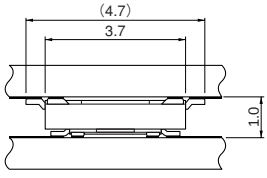
PC board layout (viewed from component side) and Assembly layout

Plug



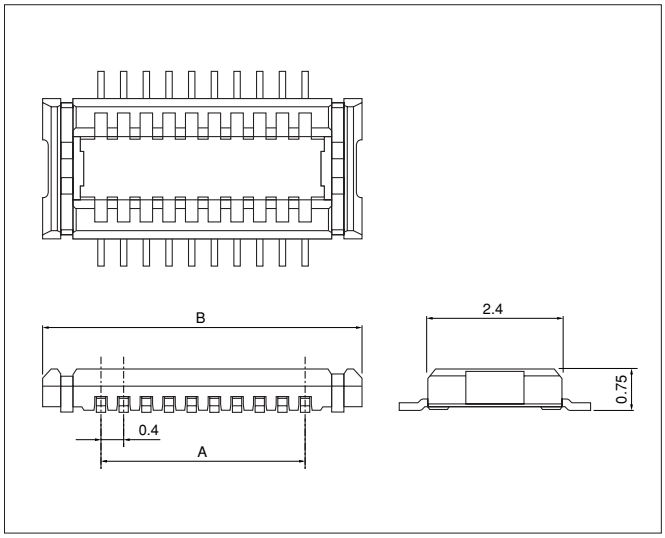
Receptacle





Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Plug

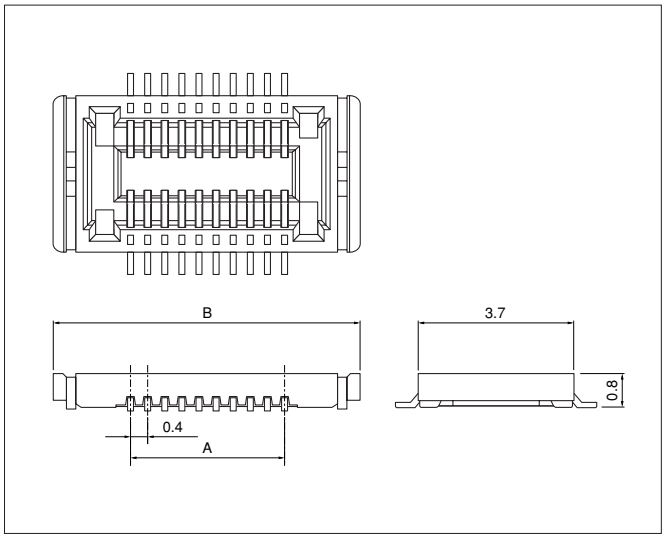


Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
20	**20P-JANK-GSAN-2-TF**	3.6	5.6	4,000
24	**24P-JANK-GSAN-2-TF**	4.4	6.4	4,000
34	**34P-JANK-GSAN-2-TF**	6.4	8.4	4,000
40	**40P-JANK-GSAN-2-TF**	7.6	9.6	4,000
60	**60P-JANK-GSAN-2-TF**	11.6	13.6	4,000

Material and Finish
Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe) Housing: LCP, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: The products listed above are supplied on embossed-tape.

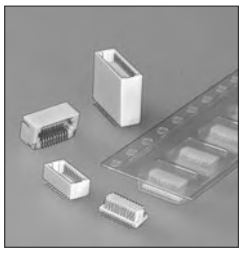
Receptacle



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
20	**20R-JANK-GSAN-TF**	3.6	7.2	4,000
24	**24R-JANK-GSAN-TF**	4.4	8.0	4,000
34	**34R-JANK-GSAN-TF**	6.4	10.0	4,000
40	**40R-JANK-GSAN-TF**	7.6	11.2	4,000
60	**60R-JANK-GSAN-TF**	11.6	15.2	4,000

Material and Finish
Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe) Housing: LCP, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

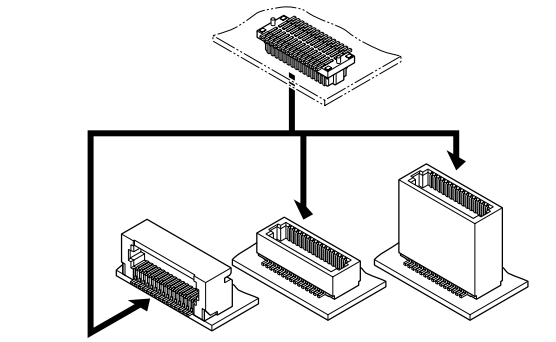
RoHS compliance *This product displays (LF)(SN) on a label.*
Note: The products listed above are supplied on embossed-tape.



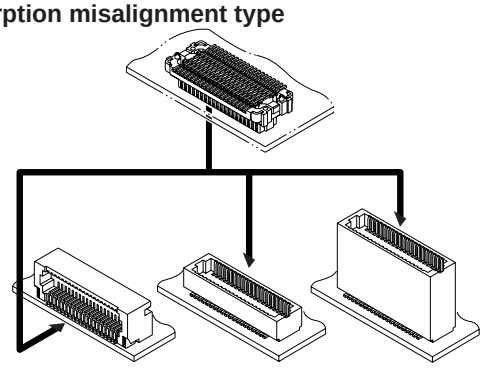
JMC CONNECTOR

Emboss Tape

0.5mm pitch/Board-to-board connectors



Absorption misalignment type



This JMC connector is 0.5mm pitch SMT type board to board connector with selection of boss existence. Comparing with conventional JMC connector, more small and space saving are realized.

- ***Secure mating***
- ***Distortion preventive construction***
- ***Versatile number of circuit and height***
- ***Absorbing misalignment when mating connector***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max. After environmental testing/100m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

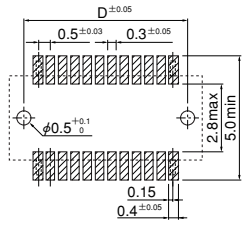
Standards

Recognized E60389

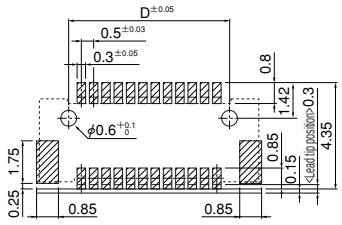
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

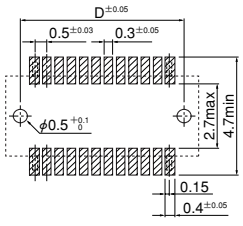
Plug: Top entry type



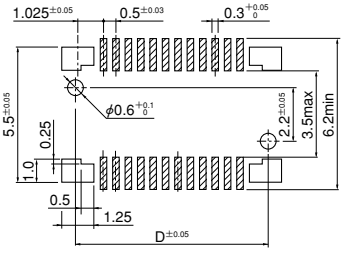
Plug: Side entry type



Receptacle



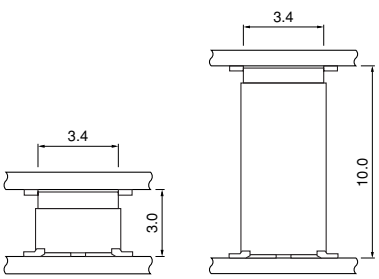
Absorption misalignment type



Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

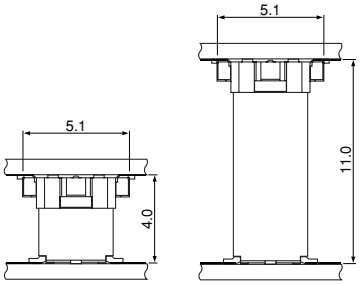
Top entry type

Stacking height: 3.0 to 10.0mm

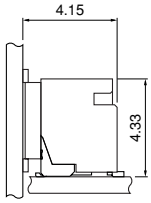


Absorption misalignment type

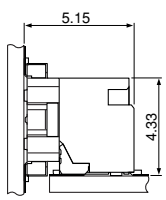
Stacking height: 4.0 to 11.0mm



Side entry type

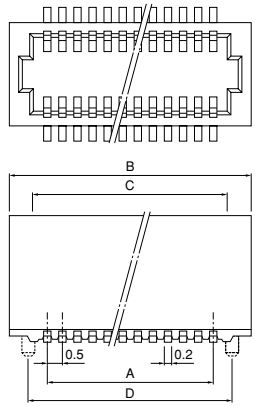


Absorption misalignment type

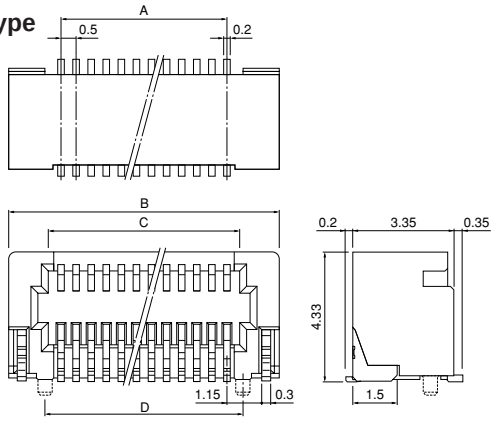


Plug

Top entry type



Side entry type



Top entry type

	Circuits	Model No. Stacking height (mm) 3.0	3.5	4.0	4.5	Dimensions (mm) A	B	C	D
Without bosses	18	**18P3.0-JMCS-G-TF**	—	—	—	4.0	6.4	4.9	—
	20	**20P3.0-JMCS-G-TF**	**20P3.5-JMCS-G-TF**	—	**20P4.5-JMCS-G-TF**	4.5	6.9	5.4	—
	24	—	**24P3.5-JMCS-G-TF**	—	—	5.5	7.9	6.4	—
	30	**30P3.0-JMCS-G-TF**	**30P3.5-JMCS-G-TF**	**30P4.0-JMCS-G-TF**	—	7.0	9.4	7.9	—
	40	**40P3.0-JMCS-G-TF**	**40P3.5-JMCS-G-TF**	**40P4.0-JMCS-G-TF**	—	9.5	11.9	10.4	—
	50	**50P3.0-JMCS-G-TF**	—	—	—	12.0	14.4	12.9	—
	60	**60P3.0-JMCS-G-TF**	—	—	—	14.5	16.9	15.4	—
With bosses	20	**20P3.0-JMCS-G-B-TF**	**20P3.5-JMCS-G-B-TF**	—	**20P4.5-JMCS-G-B-TF**	4.5	6.9	5.4	5.7
	24	—	—	**24P4.0-JMCS-G-B-TF**	—	5.5	7.9	6.4	6.7
	30	—	**30P3.5-JMCS-G-B-TF**	**30P4.0-JMCS-G-B-TF**	—	7.0	9.4	7.9	8.2
	40	**40P3.0-JMCS-G-B-TF**	**40P3.5-JMCS-G-B-TF**	**40P4.0-JMCS-G-B-TF**	—	9.5	11.9	10.4	10.7
	44	**44P3.0-JMCS-G-B-TF**	—	—	—	10.5	12.9	11.4	11.7
	50	**50P3.0-JMCS-G-B-TF**	—	**50P4.0-JMCS-G-B-TF**	—	12.0	14.4	12.9	13.2
	60	—	—	**60P4.0-JMCS-G-B-TF**	—	14.5	16.9	15.4	15.7
Q'ty / reel		2,500	2,000	2,000	1,500				

	Circuits	Model No. Stacking height (mm) 5.0	5.5	6.0	6.5	Dimensions (mm) A	B	C	D
Without bosses	14	**14P5.0-JMCS-G-TF**	—	—	—	3.0	5.4	3.9	—
	20	**20P5.0-JMCS-G-TF**	**20P5.5-JMCS-G-TF**	**20P6.0-JMCS-G-TF**	—	4.5	6.9	5.4	—
	30	—	—	—	**30P6.5-JMCS-G-TF**	7.0	9.4	7.9	—
	40	**40P5.0-JMCS-G-TF**	—	—	—	9.5	11.9	10.4	—
	50	**50P5.0-JMCS-G-TF**	—	—	—	12.0	14.4	12.9	—
	60	—	**60P5.5-JMCS-G-TF**	—	—	14.5	16.9	15.4	—
With bosses	14	**14P5.0-JMCS-G-B-TF**	—	—	—	3.0	5.4	3.9	4.2
	20	**20P5.0-JMCS-G-B-TF**	**20P5.5-JMCS-G-B-TF**	**20P6.0-JMCS-G-B-TF**	—	4.5	6.9	5.4	5.7
	30	—	—	—	**30P6.5-JMCS-G-B-TF**	7.0	9.4	7.9	8.2
	40	**40P5.0-JMCS-G-B-TF**	—	**40P6.0-JMCS-G-B-TF**	**40P6.5-JMCS-G-B-TF**	9.5	11.9	10.4	10.7
	60	**60P5.0-JMCS-G-B-TF**	—	**60P6.0-JMCS-G-B-TF**	—	14.5	16.9	15.4	15.7
Q'ty / reel		1,500	1,000	1,000	1,000				

	Circuits	Model No. Stacking height (mm) 7.0	7.5	8.0	8.5	Dimensions (mm) A	B	C	D
Without bosses	20	**20P7.0-JMCS-G-TF**	—	—	—	4.5	6.9	5.4	—
	50	**50P7.0-JMCS-G-TF**	—	—	—	12.0	14.4	12.9	—
With bosses	34	—	—	—	**34P8.5-JMCS-G-B-TF**	8.0	10.4	8.9	9.2
	50	**50P7.0-JMCS-G-B-TF**	**50P7.5-JMCS-G-B-TF**	**50P8.0-JMCS-G-B-TF**	—	12.0	14.4	12.9	13.2
	64	—	—	**64P8.0-JMCS-G-B-TF**	—	15.5	17.9	16.4	16.7
Q'ty / reel		1,000	600	600	500				

	Circuits	Model No. Stacking height (mm) 9.0	10.0	—	—	Dimensions (mm) A	B	C	D
Without bosses	20	—	**20P10.0-JMCS-G-TF**	—	—	4.5	6.9	5.4	—
	30	**30P9.0-JMCS-G-TF**	—	—	—	7.0	9.4	7.9	—
	50	**50P9.0-JMCS-G-TF**	—	—	—	12.0	14.4	12.9	—
With bosses	20	—	**20P10.0-JMCS-G-B-TF**	—	—	4.5	6.9	5.4	5.7
	30	**30P9.0-JMCS-G-B-TF**	—	—	—	7.0	9.4	7.9	8.2
	40	**40P9.0-JMCS-G-B-TF**	**40P10.0-JMCS-G-B-TF**	—	—	9.5	11.9	10.4	10.7
	50	**50P9.0-JMCS-G-B-TF**	—	—	—	12.0	14.4	12.9	13.2
	60	**60P9.0-JMCS-G-B-TF**	—	—	—	14.5	16.9	15.4	15.7
Q'ty / reel		500	500	—	—				

RoHS compliance

Note: 1. The stacking height of absorption misalignment type is 1.0mm higher than that of standard type.
2. Nickel-stripe product: "(N)" is suffixed to the model No.
3. The products listed above are supplied on embossed-tape.

Plug

Side entry type

	Circuits	Model No.	Dimensions (mm)				Q'ty/ reel
			A	B	C	D	
Without bosses	20	**20PS-JMCS-G-1-TF**	4.5	7.9	5.4	—	1,500
	24	**24PS-JMCS-G-1-TF**	5.5	8.9	6.4	—	1,500
	30	**30PS-JMCS-G-1-TF**	7.0	10.4	7.9	—	1,500
	34	**34PS-JMCS-G-1-TF**	8.0	11.4	8.9	—	1,500
	40	**40PS-JMCS-G-1-TF**	9.5	12.9	10.4	—	1,500
	50	**50PS-JMCS-G-1-TF**	12.0	15.4	12.9	—	1,500
	60	**60PS-JMCS-G-1-TF**	14.5	17.9	15.4	—	1,500
With bosses	20	**20PS-JMCS-G-1B-TF**	4.5	7.9	5.4	5.55	1,500
	24	**24PS-JMCS-G-1B-TF**	5.5	8.9	6.4	6.55	1,500
	30	**30PS-JMCS-G-1B-TF**	7.0	10.4	7.9	8.05	1,500
	34	**34PS-JMCS-G-1B-TF**	8.0	11.4	8.9	9.05	1,500
	40	**40PS-JMCS-G-1B-TF**	9.5	12.9	10.4	10.55	1,500
	46	**46PS-JMCS-G-1B-TF**	11.0	14.4	11.9	12.05	1,500
	50	**50PS-JMCS-G-1B-TF**	12.0	15.4	12.9	13.05	1,500
	60	**60PS-JMCS-G-1B-TF**	14.5	17.9	15.4	15.55	1,500

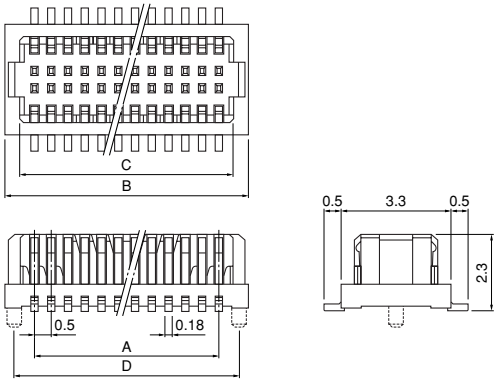
Material and Finish
Contact: Phosphor bronze, nickel-undercoated, gold-plated Housing: PA 6T, UL94V-0 Solder tab: Brass, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

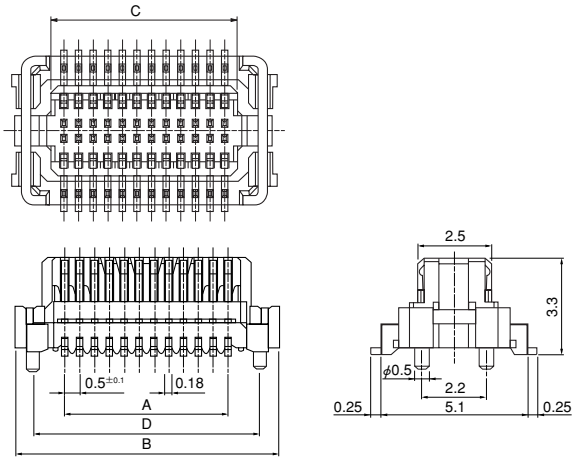
Note: 1. The products listed above are supplied on embossed-tape.

2. Nickel-stripe product: "(N)" is suffixed to the model No.

Receptacle



Absorption misalignment type



Circuits	Model No.		Dimensions (mm)				Q'ty / reel
	Without bosses	With bosses	A	B	C	D	
14	**14R-JMCS-G-TF(S)**	**14R-JMCS-G-B-TF(S)**	3.0	4.8	3.9	4.2	2,500
18	**18R-JMCS-G-TF(S)**	—	4.0	5.8	4.9	5.2	2,500
20	**20R-JMCS-G-TF(S)**	**20R-JMCS-G-B-TF(S)**	4.5	6.3	5.4	5.7	2,500
24	**24R-JMCS-G-TF(S)**	**24R-JMCS-G-B-TF(S)**	5.5	7.3	6.4	6.7	2,500
30	**30R-JMCS-G-TF(S)**	**30R-JMCS-G-B-TF(S)**	7.0	8.8	7.9	8.2	2,500
34	**34R-JMCS-G-TF(S)**	**34R-JMCS-G-B-TF(S)**	8.0	9.8	8.9	9.2	2,500
40	**40R-JMCS-G-TF(S)**	**40R-JMCS-G-B-TF(S)**	9.5	11.3	10.4	10.7	2,500
46	**46R-JMCS-G-TF(S)**	**46R-JMCS-G-B-TF(S)**	11.0	12.8	11.9	12.2	2,500
50	**50R-JMCS-G-TF(S)**	**50R-JMCS-G-B-TF(S)**	12.0	13.8	12.9	13.2	2,500
60	**60R-JMCS-G-TF(S)**	**60R-JMCS-G-B-TF(S)**	14.5	16.3	15.4	15.7	2,500

Material and Finish
Contact: Phosphor bronze, nickel-undercoated, gold-plated Housing: PA 6T, UL94V-0

RoHS compliance

Note: 1. The products listed above are supplied on embossed-tape.

2. Nickel-stripe product: "(NSA)" instead of "(S)" is suffixed to model No.

Absorption misalignment type

Circuits	Model No.		Dimensions (mm)				Q'ty / reel
	Without bosses	With bosses	A	B	C	D	
20	**20RF-JMCS-G-1-TF**	**20RF-JMCS-G-1B-TF**	4.5	8.0	5.4	6.75	1,000
30	**30RF-JMCS-G-1-TF**	**30RF-JMCS-G-1B-TF**	7.0	10.5	7.9	9.25	1,000
40	**40RF-JMCS-G-1-TF**	**40RF-JMCS-G-1B-TF**	9.5	13.0	10.4	11.75	1,000
44	—	***44RF-JMCS-G-1B-TF**	10.5	14.0	11.4	12.75	1,000
50	**50RF-JMCS-G-1-TF**	**50RF-JMCS-G-1B-TF**	12.0	15.5	12.9	14.25	1,000
60	**60RF-JMCS-G-1-TF**	**60RF-JMCS-G-1B-TF**	14.5	18.0	15.4	16.75	1,000
64	—	***64RF-JMCS-G-1B-TF**	15.5	19.0	16.4	17.75	1,000

Material and Finish
Contact: Phosphor bronze, nickel-undercoated, gold-plated Housing: PA 6T, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

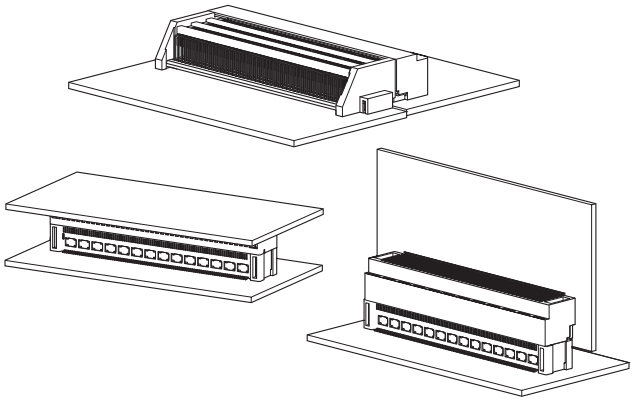
Note: 1.The products listed above are supplied on embossed-tape.

2. Nickel-stripe product: "(N)" is suffixed to model No.

*3. *Marked products are not CSA approved.*

JU CONNECTOR

0.6mm pitch/Board-to-board connectors



JU connector is developed upon recent market requirement, which demands higher density for digitized electronic equipment. Various mating combination can be chosen at your purpose vertically/horizontally, both plug and receptacle are available top and side entry. Box type wafer prevents from scattered flux equipped with polarized shape which guides correct mating. Longer mating stroke stabilize and secure mating and contact performance.

- ***Higher density contributes***
- ***Various combination***
- ***Lower insertion force***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/80m Ω max.
  After environmental testing/100m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

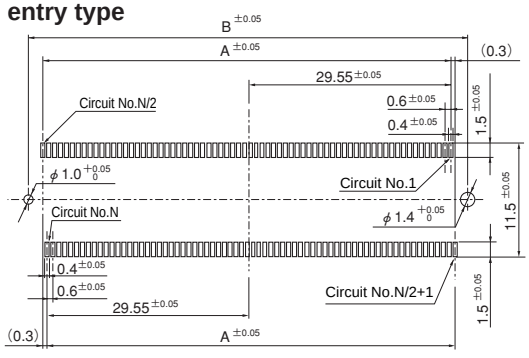
Standards

Recognized E60389

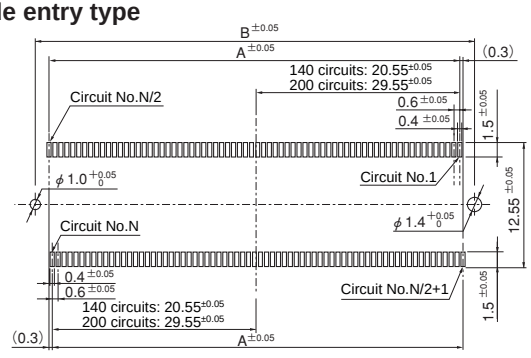
Certified LR20812

PC board layout (viewed from component side)

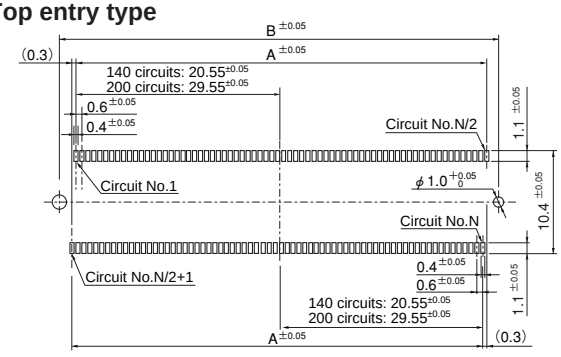
Plug
Top entry type



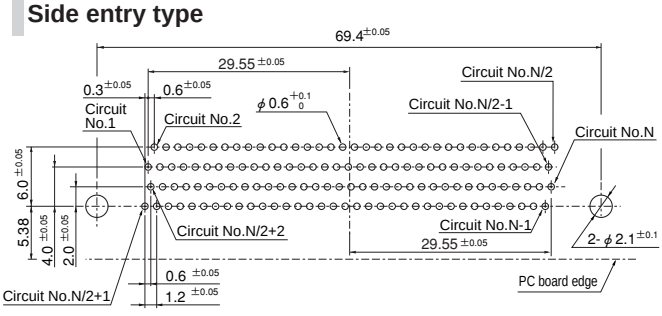
Plug
Side entry type



Receptacle
Top entry type



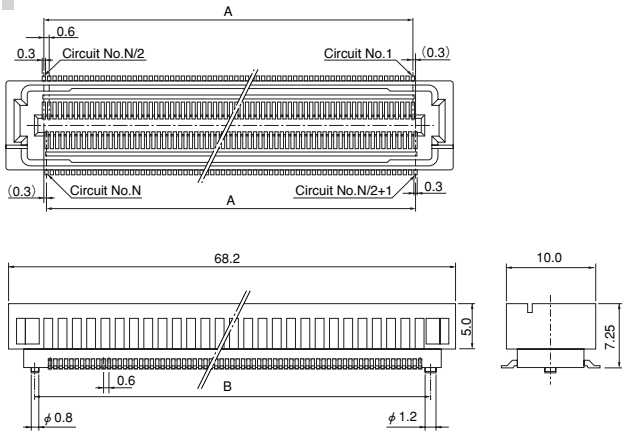
Receptacle
Side entry type



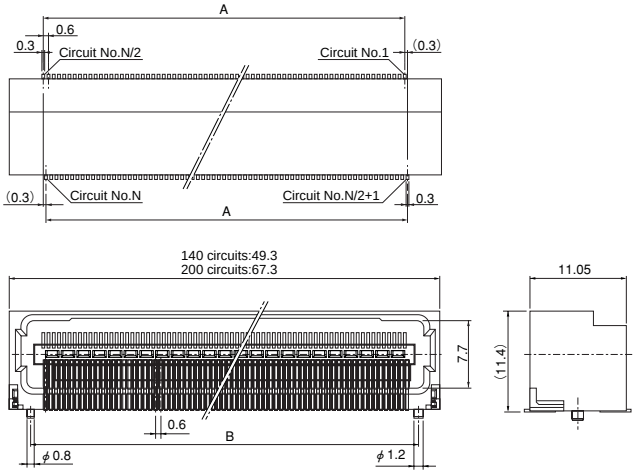
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Plug

Top entry type



Side entry type



Cir-cuits	Model No.		Dimensions(mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
140	—	**140PS-JUK-G-B(A)**	41.4	44.5	—	60
200	**200P-JUK-G-B**	**200PS-JUK-G-B(A)**	59.4	62.5	75	60

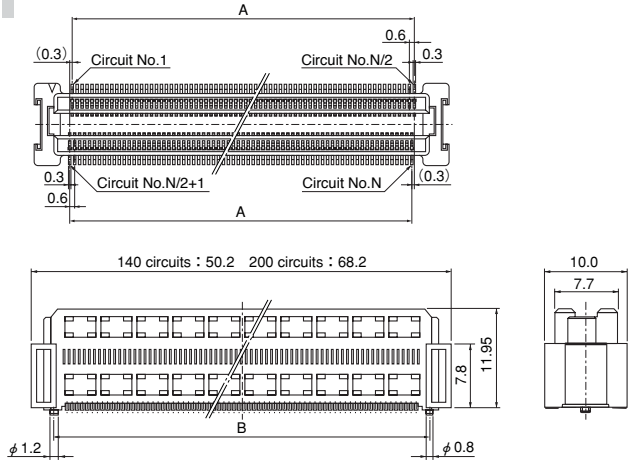
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: LCP, UL94V-0

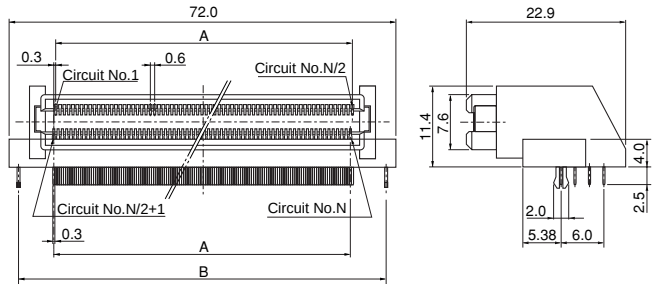
RoHS compliance

Receptacle

Top entry type



Side entry type



Top entry type

Cir-cuits	Model No.	Dimensions(mm)		Q'ty / box
		A	B	
140	**140R-JUK-G-B**	41.4	44.5	45
200	**200R-JUK-G-B**	59.4	62.5	45

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: LCP, UL94V-0

RoHS compliance

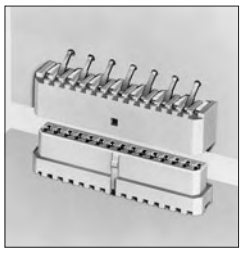
Side entry type

Cir-cuits	Model No.	Dimensions(mm)		Q'ty / box
		A	B	
200	**200RS-JUK-GB**	59.4	69.4	128

Material and Finish

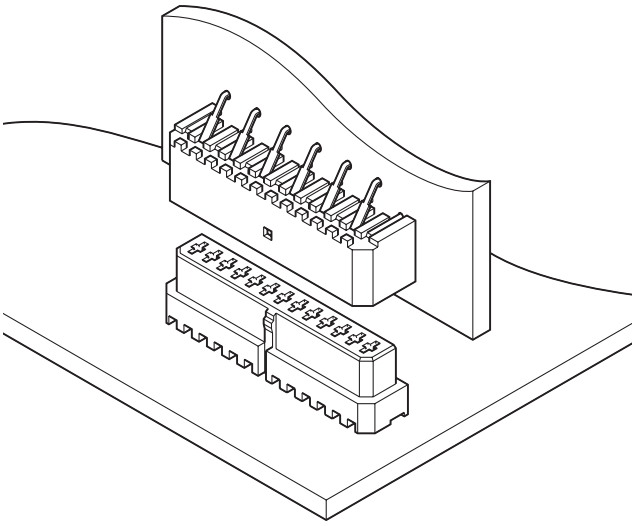
Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated
Solder tail; tin/copper alloy-plated
Housing: LCP, UL94V-0
Locator: Synthetic resin
Solder tab: Copper-alloy, tin-plated (reflow treatment)

RoHS compliance



JE CONNECTOR

1.25mm pitch/Board-to-board connectors



The JE connector is a compact, board-to-board connector only 6.8mm high and 3.6mm wide. Its mating part has a 1.25mm pitch, single row construction. High contact pressure dual beam fork contacts are combined with a housing lock mechanism to ensure a reliable connection.

- ***A compact design to meet today's needs***
- ***Secure locking and reliable connection***
- ***Box shaped housing***
- ***Easy mounting and no flux problems***

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
  After environmental testing/40m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

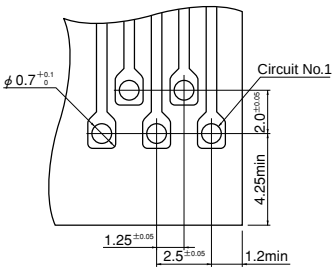
Standards

Recognized E60389

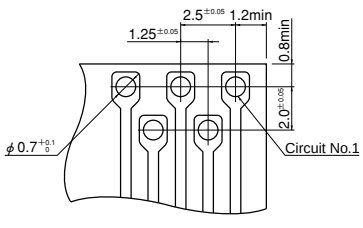
Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

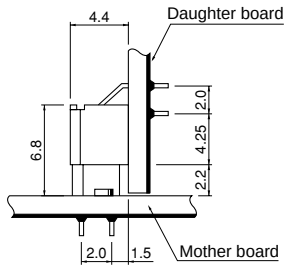
Plug



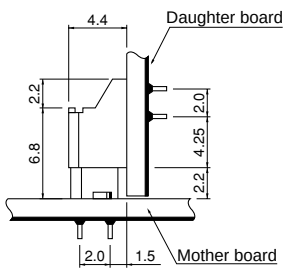
Receptacle



Without stopper



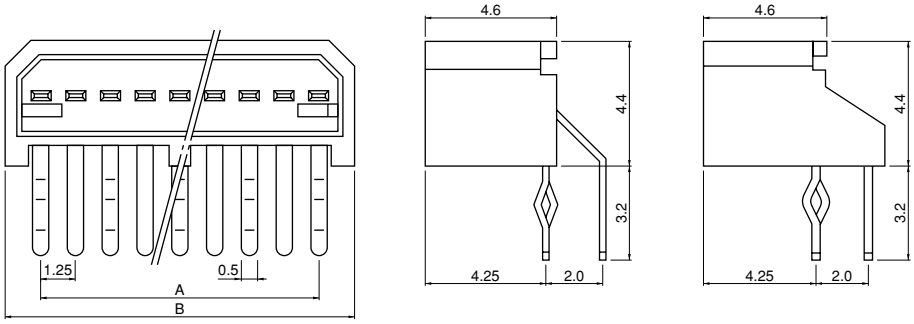
With stopper



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Note: The daughter board should be secured. For details of the securing method, contact JST.

Plug

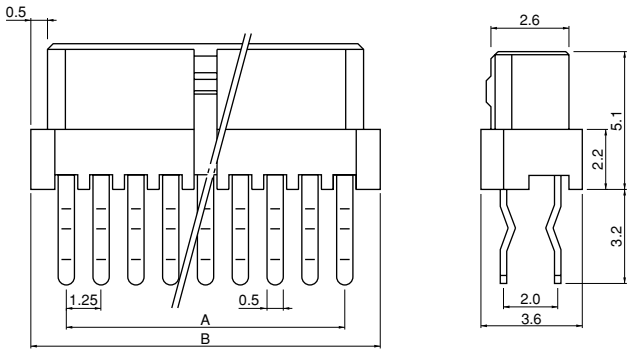


Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Without stopper	With stopper	A	B	
5	**05PS-JE**	**05PSL-JE**	5.0	7.4	1,400
7	**07PS-JE**	**07PSL-JE**	7.5	9.9	1,050
9	**09PS-JE**	**09PSL-JE**	10.0	12.4	800
11	**11PS-JE**	**11PSL-JE**	12.5	14.9	700
13	**13PS-JE**	**13PSL-JE**	15.0	17.4	600
15	**15PS-JE**	**15PSL-JE**	17.5	19.9	500
17	**17PS-JE**	**17PSL-JE**	20.0	22.4	450
19	**19PS-JE**	**19PSL-JE**	22.5	24.9	400

Material and Finish
Contact: Brass, tin-plated (reflow treatment) Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

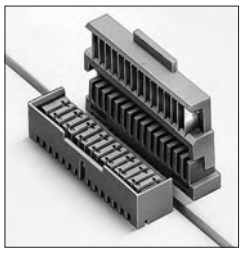
Receptacle



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
5	**05R-JE**	5.0	7.4	1,000
7	**07R-JE**	7.5	9.9	1,000
9	**09R-JE**	10.0	12.4	1,700
11	**11R-JE**	12.5	14.9	1,400
13	**13R-JE**	15.0	17.4	1,200
15	**15R-JE**	17.5	19.9	1,000
17	**17R-JE**	20.0	22.4	900
19	**19R-JE**	22.5	24.9	800

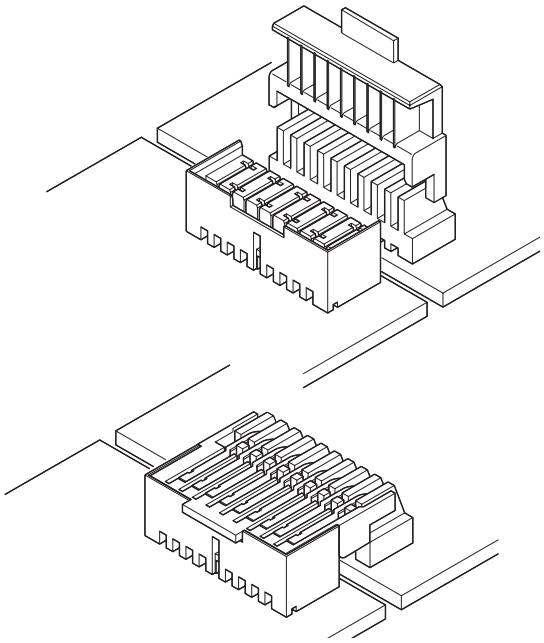
Material and Finish
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) Housing: Glass-filled PA 66, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*



1.25FJ CONNECTOR

1.25mm pitch/Board-to-board connectors



The 1.25FJ connector is a 1.25mm pitch board-to-board connector. Its plug consists of a unique flexible hinge that absorbs circuit board misalignment. Board-to-board connection requires less labor and is more reliable because the connection can be made without the use of harnesses after the printed circuit boards are installed in their enclosures.

- ***Low profile***
- ***Allows connection after mounting***
- ***Assures a reliable connection***

Specifications

- Current rating: 0.5A(1.0A :1.25FJ-N type) AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance:
  - Short type……Initial value/40m Ω max.
    After environmental testing/60m Ω max.
  - Long type……Initial value/70m Ω max.
    After environmental testing/90m Ω max.
  - 1.25FJ-N type… Initial value/50m Ω max.
    After environmental testing/100m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

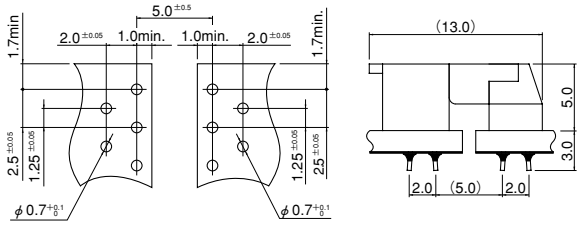
Standards

Recognized E60389

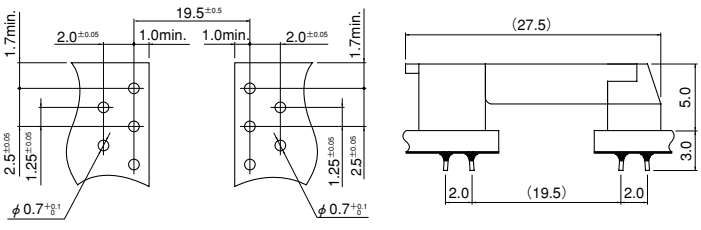
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

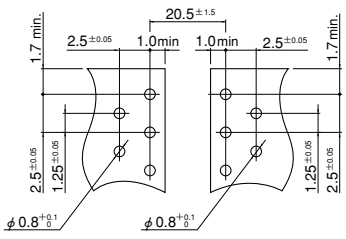
Short type



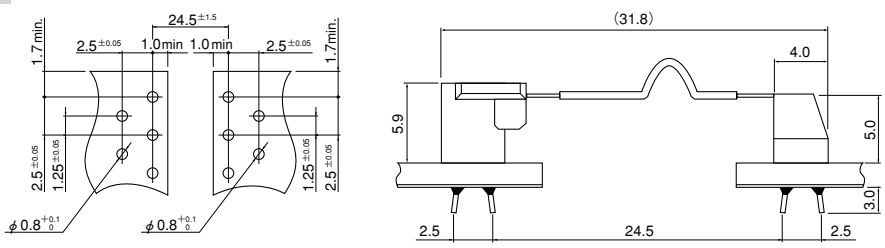
Long type



1.25FJ-N type(250)



1.25FJ-N type(280)

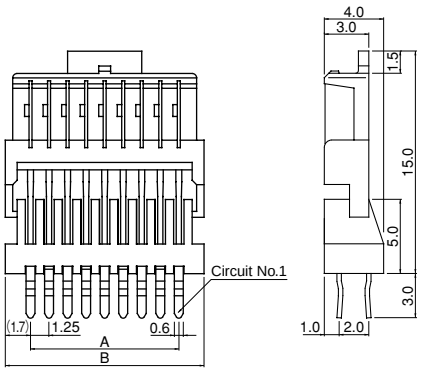


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

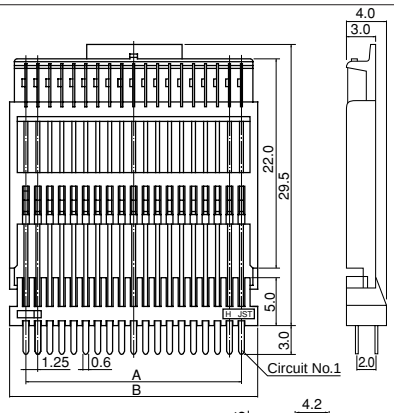
1.25FJ CONNECTOR

Plug

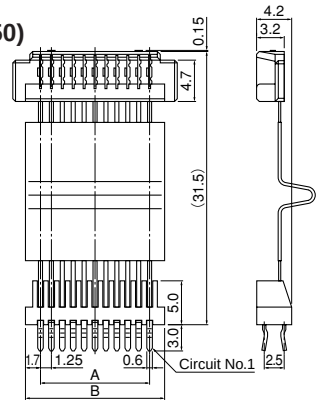
Short type



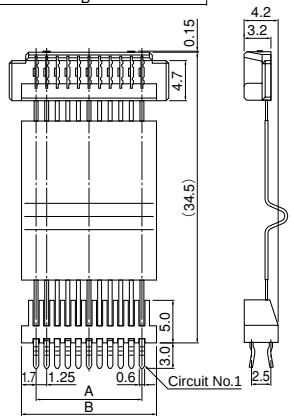
Long type



1.25FJ-N type (250)



1.25FJ-N type (280)



Circuits	Model No.				Dimensions (mm)		Q'ty / box			
	Short type	Long type	1.25FJ-N type		A	B	Short type	Long type	1.25FJ-N type	
			250 type	280 type					250 type	280 type
7	—	—	**07P250K-1.25FJNA**	**07P280K-1.25FJN**	7.5	10.9	—	—	400	400
9	**09P-1.25FJ**	—	—	—	10.0	13.4	120	—	—	—
11	**11P-1.25FJ**	—	**11P250K-1.25FJNA**	**11P280K-1.25FJN**	12.5	15.9	120	—	280	280
13	**13P-1.25FJ**	—	**13P250K-1.25FJNA**	**13P280K-1.25FJN**	15.0	18.4	120	—	280	280
15	**15P-1.25FJ**	—	—	—	17.5	20.9	120	—	—	—
19	**19P-1.25FJ**	**19P215S-1.25FJ**	**19P250K-1.25FJNA**	**19P280K-1.25FJN**	22.5	25.9	120	280	200	200
21	**21P-1.25FJ**	—	—	—	25.0	28.4	120	—	—	—

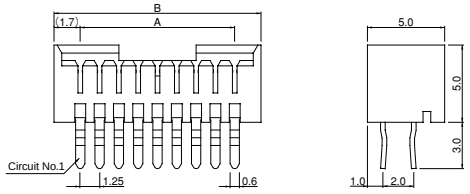
Material and Finish

Contact: Short type & Long type / Phosphor bronze, tin-plated (reflow treatment)
1.25FJ-N type / Copper-alloy, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

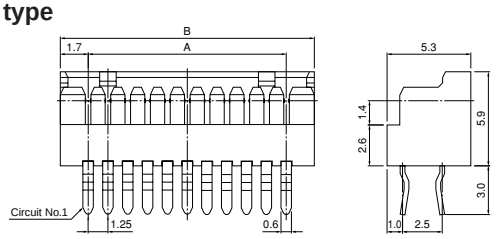
RoHS compliance

Receptacle

Short type & Long type



1.25FJ-N type

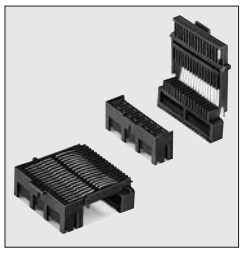


Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Short type & Long type	1.25FJ-N type	A	B	Short type & Long type	1.25FJ-N type
7	—	**07RK-1.25FJN**	7.5	10.9	—	1,710
9	**09R-1.25FJ**	—	10.0	13.4	500	—
11	**11R-1.25FJ**	**11RK-1.25FJN**	12.5	15.9	500	1,170
13	**13R-1.25FJ**	**13RK-1.25FJN**	15.0	18.4	500	990
15	**15R-1.25FJ**	—	17.5	20.9	500	—
19	**19R-1.25FJ**	**19RK-1.25FJN**	22.5	25.9	250	720
21	**21R-1.25FJ**	—	25.0	28.4	200	—

Material and Finish

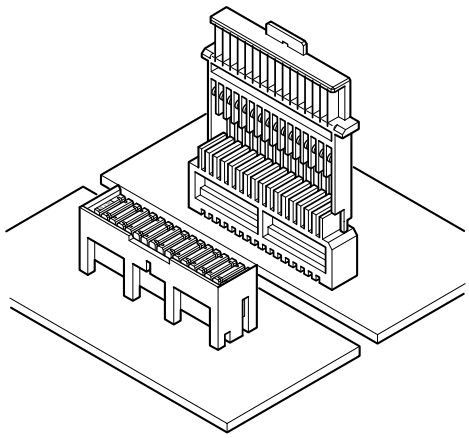
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

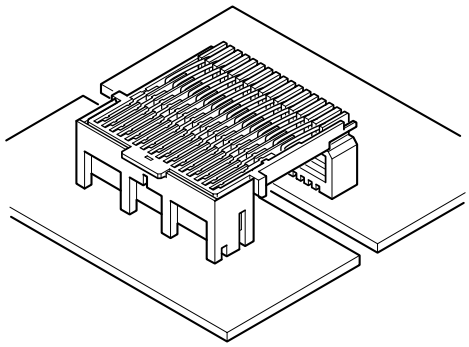
RoHS compliance *This product displays (LF)(SN) on a label.*



1.5FJ CONNECTOR

1.5mm pitch/Board-to-board connectors





The 1.5FJ connector is a 1.5mm pitch board-to-board connector. Its plug consists of a unique flexible hinge that absorbs circuit board misalignment. Board-to-board connection requires less labor and is more reliable because the connection can be made without the use of harnesses after the printed circuit boards are installed in their enclosures.

- ***Flexible connection absorbs circuit board misalignment***
- ***Provides a low profile mount and allows connection after mounting***
- ***Assures a reliable connection***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/80m Ω max. After environmental testing/100m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm

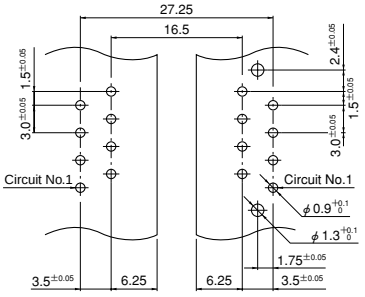
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

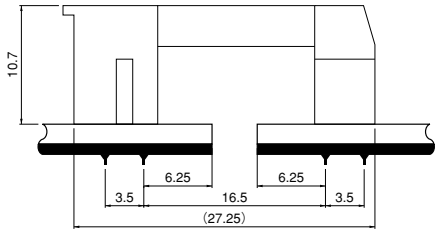
Standards

Recognized E60389

Certified LR20812

PC board layout (viewed from component side) and Assembly layout

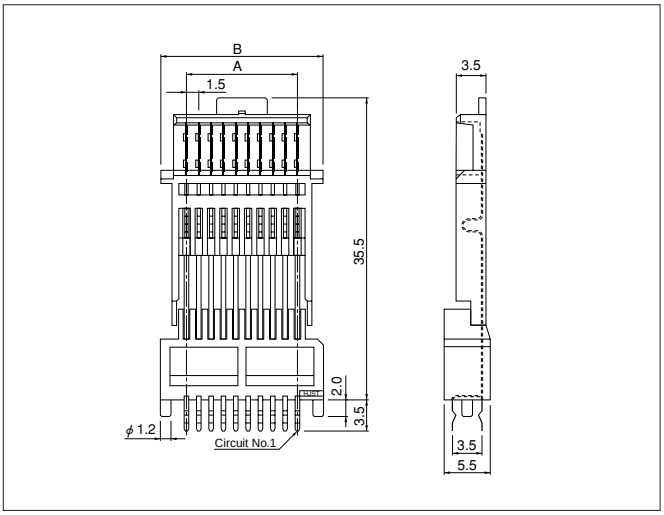




Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

1.5FJ CONNECTOR

Plug

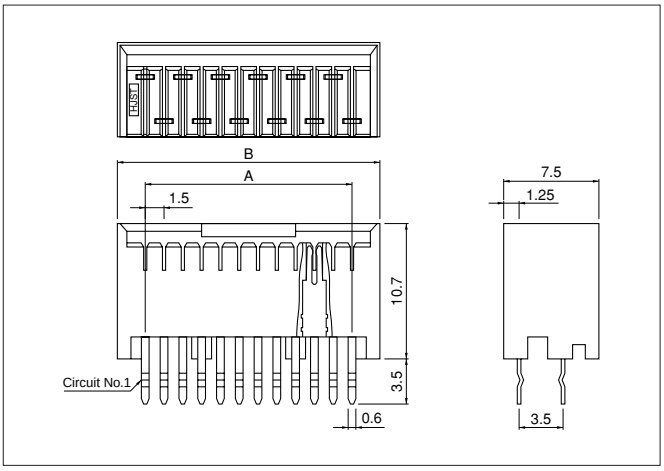


Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
8	**08P-1.5FJ**	10.5	16.5	245
16	**16P-1.5FJ**	22.5	28.5	140

Material and Finish
Contact: Phosphor bronze, tin-plated (reflow treatment) Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance

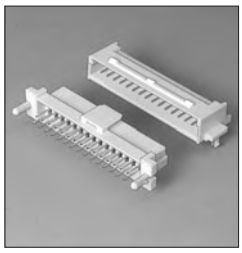
Receptacle



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
8	**08R-1.5FJ**	10.5	15.0	440
16	**16R-1.5FJ**	22.5	27.0	220

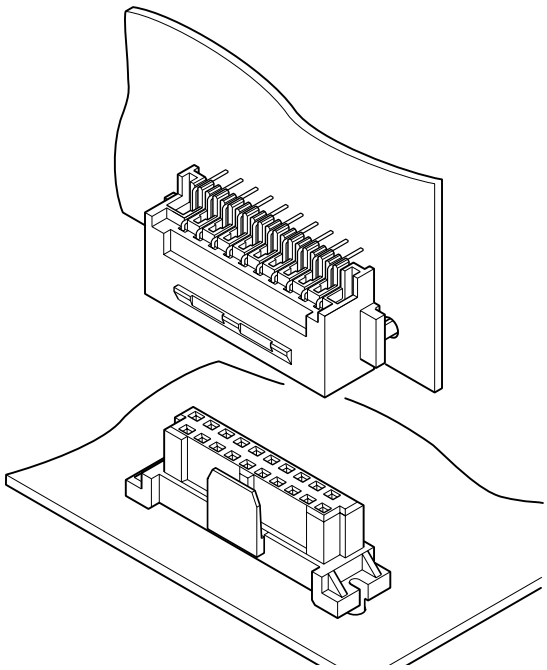
Material and Finish
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance *This product displays (LF)(SN) on a label.*



JDV CONNECTOR

1.5mm pitch/Hinge type Board-to-board Connectors



The JDV connector is designed for board-to-board connection with locking device, and highly resistant to equipment vibration and shock.

- ***Two type Locking device***
- ***Staggered Solder Tails***
- ***Positioning boss (projection)***

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
  After environmental testing/50m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 300V AC/minute
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

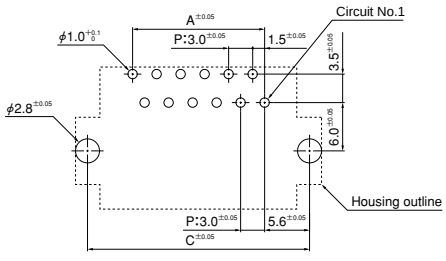
Standards

Recognized E60389

Certified LR20812

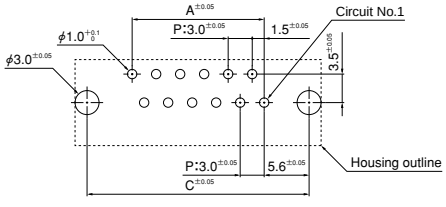
PC board layout (viewed from component side) and Assembly layout

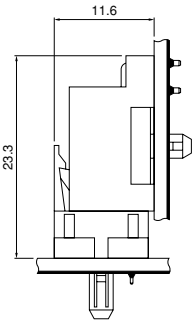
Plug



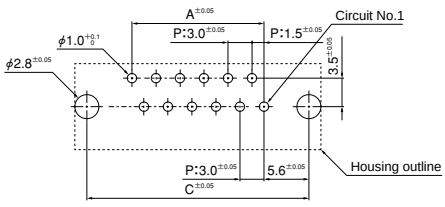
Receptacle

Resin hook type





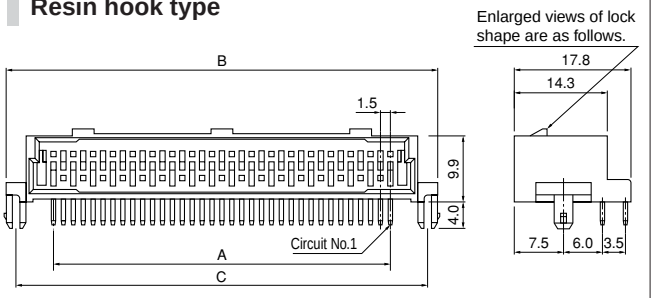
Metal hook type



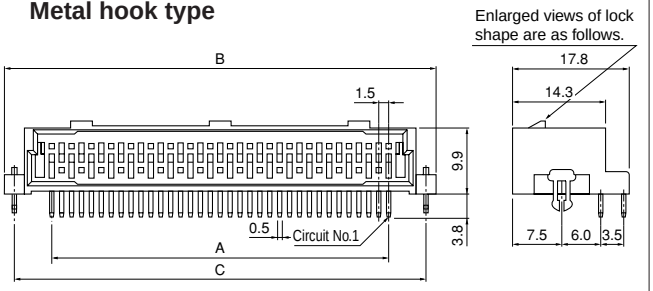
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

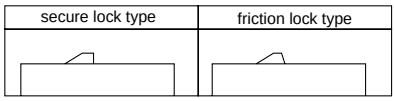
Plug

Retention lock type
Resin hook type



Metal hook type





Resin hook type

Circuits	Model No.		Dimensions (mm)			Q'ty / box
	secure lock type	friction lock type	A	B	C	
15	**JDV-PS15LB-10-1**	–	21.0	35.5	32.2	400
20	**JDV-PS20LB-10-1**	**JDV-PS20FLB-10-1**	28.5	43.0	39.7	320
25	**JDV-PS25LB-10-1**	**JDV-PS25FLB-10-1**	36.0	50.5	47.2	280
30	**JDV-PS30LB-10-1**	**JDV-PS30FLB-10-1**	43.5	58.0	54.7	240
35	**JDV-PS35LB-10-1**	**JDV-PS35FLB-10-1**	51.0	65.5	62.2	200
40	**JDV-PS40LB-10-1**	**JDV-PS40FLB-10-1**	58.5	73.0	69.7	160
50	**JDV-PS50LB-10-1**	**JDV-PS50FLB-10-1**	73.5	88.0	84.7	160

Material and Finish

Contact: Brass, nickel-undercoated, Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*

Metal hook type

Circuits	Model No.		Dimensions (mm)			Q'ty / box
	secure lock type	friction lock type	A	B	C	
20	**JDV-PS20LB-10A**	–	28.5	43.0	39.7	320
25	**JDV-PS25LB-10A**	–	36.0	50.5	47.2	280
30	**JDV-PS30LB-10A**	**JDV-PS30FLB-10A**	43.5	58.0	54.7	240
35	**JDV-PS35LB-10A**	**JDV-PS35FLB-10A**	51.0	65.5	62.2	200
40	**JDV-PS40LB-10A**	–	58.5	73.0	69.7	160
50	**JDV-PS50LB-10A**	**JDV-PS50FLB-10A**	73.5	88.0	84.7	160
65	–	**JDV-PS65FLB-10A**	96.0	110.5	107.2	120

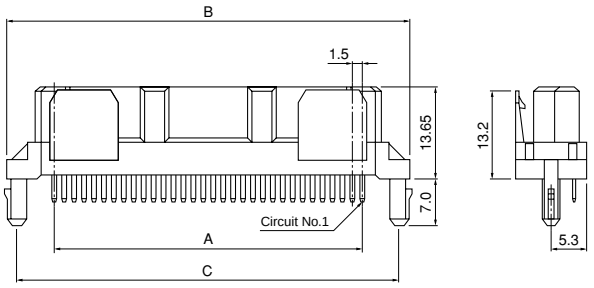
Material and Finish

Contact: Brass, nickel-undercoated, Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0
Reinforcing pin: Brass, copper-undercoated, tin-plated (reflow treatment)

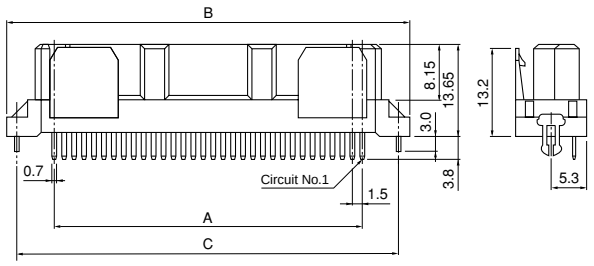
RoHS compliance *This product displays (LF)(SN) on a label.*

Receptacle

Retention lock type
Resin hook type



Metal hook type



Resin hook type

Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
15	**JDV-R15LB-10-1**	21.0	35.5	32.2	500
20	**JDV-R20LB-10-1**	28.5	43.0	39.7	400
25	**JDV-R25LB-10-1**	36.0	50.5	47.2	350
30	**JDV-R30LB-10-1**	43.5	58.0	54.7	300
35	**JDV-R35LB-10-1**	51.0	65.5	62.2	250
40	**JDV-R40LB-10-1**	58.5	73.0	69.7	200
50	**JDV-R50LB-10-1**	73.5	88.0	84.7	200

Material and Finish

Contact: Phosphor bronze, nickel-undercoated,
Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*

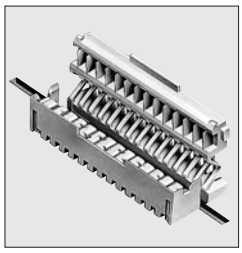
Metal hook type

Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
20	**JDV-R20LB-10A**	28.5	43.0	39.7	400
25	**JDV-R25LB-10A**	36.0	50.5	47.2	350
30	**JDV-R30LB-10A**	43.5	58.0	54.7	300
35	**JDV-R35LB-10A**	51.0	65.5	62.2	250
40	**JDV-R40LB-10A**	58.5	73.0	69.7	200
50	**JDV-R50LB-10A**	73.5	88.0	84.7	200
65	**JDV-R65LB-10A**	96.0	110.5	107.2	150

Material and Finish

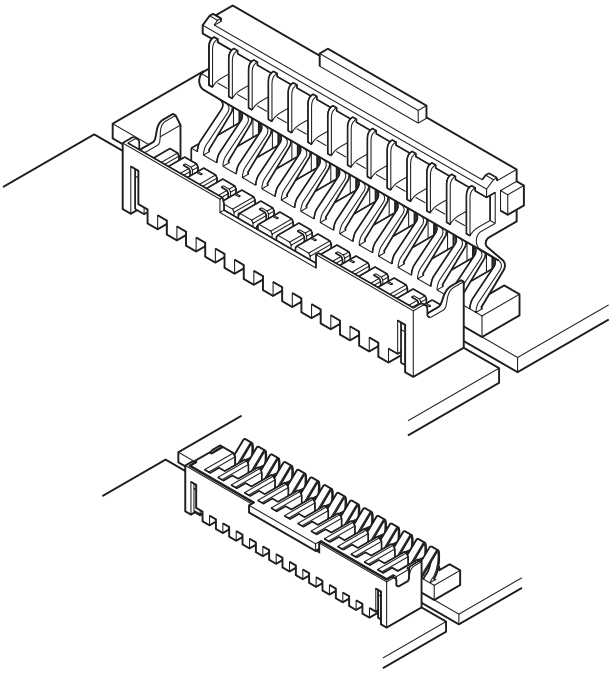
Contact: Phosphor bronze, nickel-undercoated,
Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0
Reinforcing pin: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*



FJ CONNECTOR

2.0mm pitch/Board-to-board connectors



The FJ board-to-board connector absorbs lateral and longitudinal alignment errors thanks to an innovative new design that provides flexible connection between closely spaced circuit boards. Added advantages are simplified and less stringent packaging specifications for board-to-board connections and a higher quality end product.

- ***Flexible connection absorbs circuit board misalignment***
- ***Provides a low profile mount and allows connection after mounting***
- ***Assures a reliable connection***

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
  After environmental testing/80m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

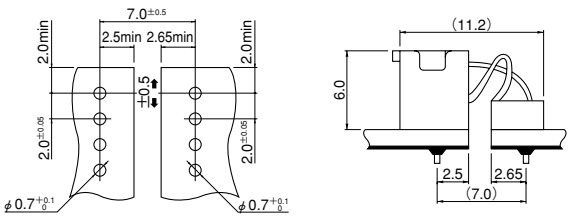
Recognized E60389

Certified LR20812

PC board layout (viewed from component side) and Assembly layout

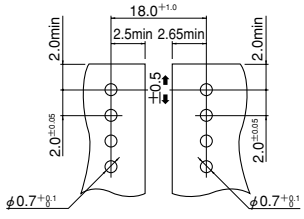
Short type

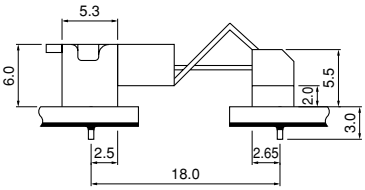
Receptacle side Plug side



FJ-V type

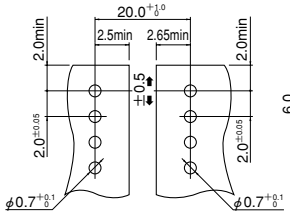
Receptacle side Plug side

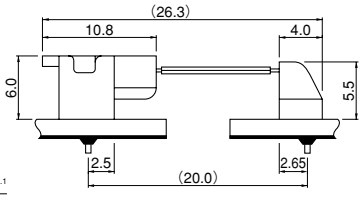




FJ-L type

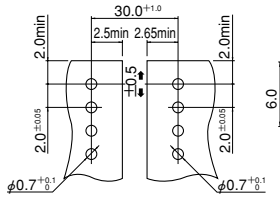
Receptacle side Plug side

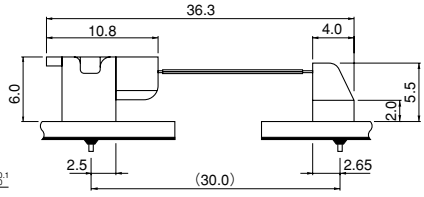




FJ-K type

Receptacle side Plug side

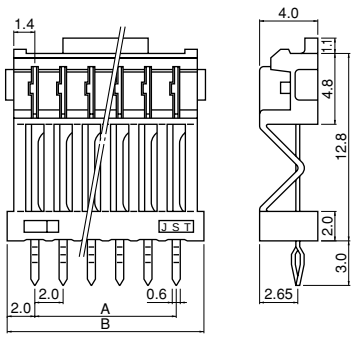




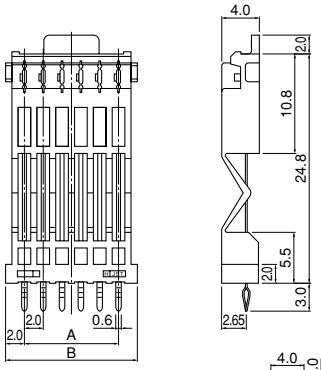
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Plug

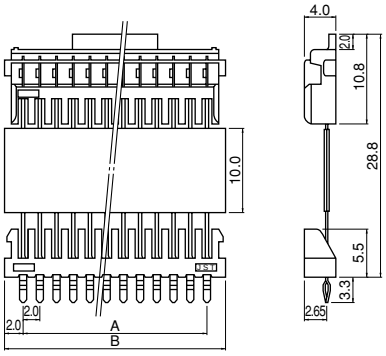
Short type



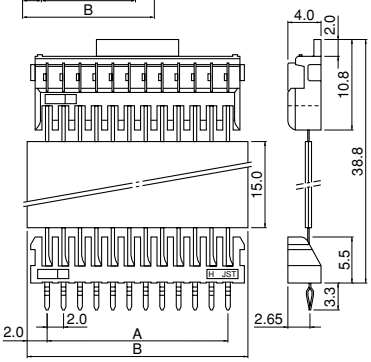
FJ-V type



FJ-L type



FJ-K type

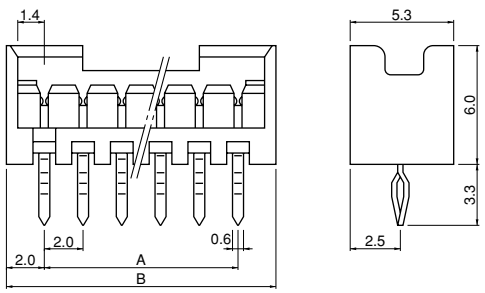


Circuits	Model No.				Dimensions (mm)		Q'ty / box			
	Short type	FJ-V type	FJ-L type	FJ-K type	A	B	Short type	FJ-V type	FJ-L type	FJ-K type
4	**04P-FJ**	—	—	—	6.0	10.0	500	—	—	—
5	—	—	**05PL-FJ**	**05PK-FJ**	8.0	12.0	—	—	250	150
6	**06P-FJ**	—	**06PL-FJ**	**06PK-FJ**	10.0	14.0	250	—	200	150
7	**07P-FJ**	—	**07PL-FJ**	**07PK-FJ**	12.0	16.0	250	—	200	100
8	**08P-FJ**	—	**08PL-FJ**	**08PK-FJ**	14.0	18.0	200	—	200	100
9	**09P-FJ**	—	—	—	16.0	20.0	200	—	—	—
10	**10P-FJ**	—	**10PL-FJ**	**10PK-FJ**	18.0	22.0	200	—	100	100
11	**11P-FJ**	**11PV-FJ**	—	—	20.0	24.0	200	168	—	—
12	**12P-FJ**	—	**12PL-FJ**	**12PK-FJ**	22.0	26.0	100	—	100	50
13	—	**13PV-FJ**	—	—	24.0	28.0	—	168	—	—
14	**14P-FJ**	—	**14PL-FJ**	**14PK-FJ**	26.0	30.0	100	—	100	50
15	—	**15PV-FJ**	—	—	28.0	32.0	—	168	—	—

Material and Finish
Contact: Phosphor bronze, tin-plated (reflow treatment) Housing: PA 66, UL94V-0, white Insulation tape: Acetate, UL510FR (FJ-L type) Polyester, UL94V-0 (FJ-K type)

RoHS compliance

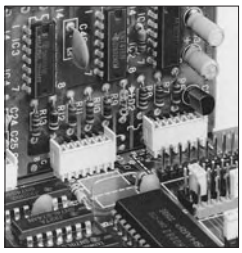
Receptacle



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
4	**04R-FJ**	6.0	10.0	500
5	**05R-FJ**	8.0	12.0	500
6	**06R-FJ**	10.0	14.0	500
7	**07R-FJ**	12.0	16.0	500
8	**08R-FJ**	14.0	18.0	250
9	**09R-FJ**	16.0	20.0	250
10	**10R-FJ**	18.0	22.0	250
11	**11R-FJ**	20.0	24.0	250
12	**12R-FJ**	22.0	26.0	200
13	**13R-FJ**	24.0	28.0	200
14	**14R-FJ**	26.0	30.0	200
15	**15R-FJ**	28.0	32.0	200

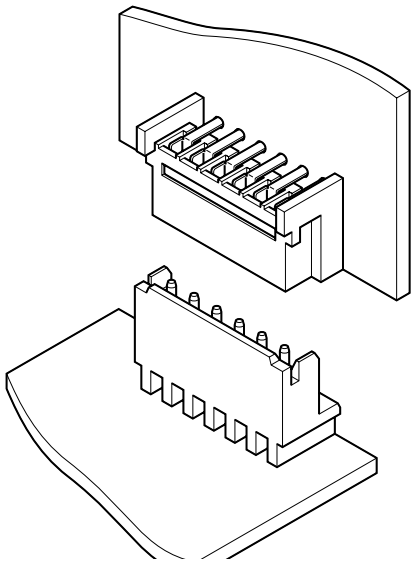
Material and Finish
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) Housing: PA 66, UL94V-0, white

RoHS compliance *This product displays (LF)(SN) on a label.*



MQ CONNECTOR

2.0mm pitch/Board-to-board connectors



Measuring 2.0mm in pitch, 9.2mm in mounting height and 5.5mm in thickness, this board-to-board connector makes high-density mounting of components in electronic products possible. It is ideal for small electronic products, such as portable VCRs and video cameras, which require high-density mounting and high reliability.

- ***Back-up support spring construction***
- ***Easy insertion***
- ***Board retention feature***

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: −25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable PC board thickness: 1.2 to 1.6mm

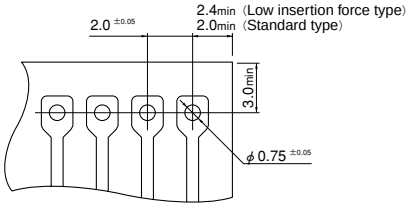
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

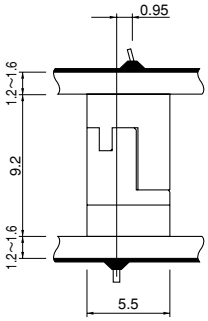
Standards

Recognized E60389
Certified LR20812
R9351042

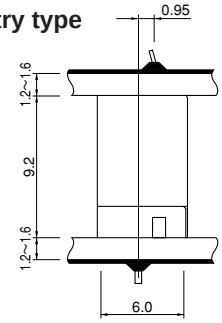
PC board layout (viewed from soldering side) and Assembly layout

Top entry type

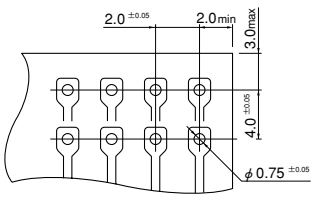


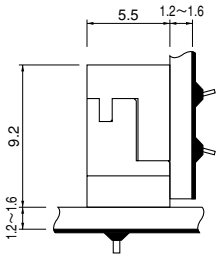


Low insertion force type
Top entry type

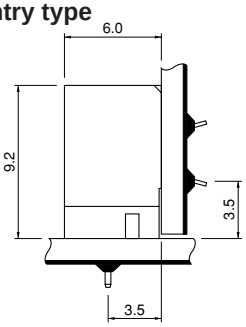


Side entry type





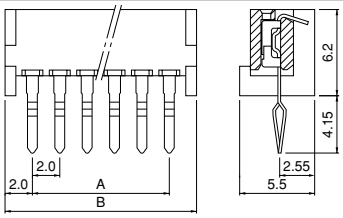
Low insertion force type
Side entry type



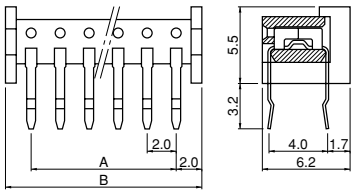
Note: 1. The PC board layout of the header is identical to that of the top entry receptacle.
2. Tolerances are non-cumulative: ±0.05mm for all centers.
3. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle

Top entry type



Side entry type



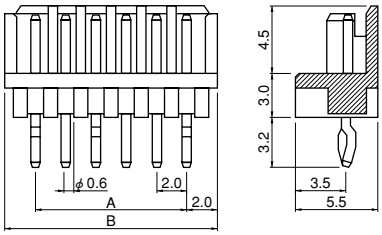
Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
5	**05MQ-BT**	**05MQ-ST**	8.0	12.0	500	500
6	**06MQ-BT**	**06MQ-ST**	10.0	14.0	500	500
7	**07MQ-BT**	**07MQ-ST**	12.0	16.0	500	500
8	**08MQ-BT**	**08MQ-ST**	14.0	18.0	500	250
9	**09MQ-BT**	**09MQ-ST**	16.0	20.0	500	250
10	**10MQ-BT**	**10MQ-ST**	18.0	22.0	250	250
12	**12MQ-BT**	**12MQ-ST**	22.0	26.0	250	250

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural

RoHS compliance

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
5	**B5P-MQ**	8.0	12.0	500
6	**B6P-MQ**	10.0	14.0	500
7	**B7P-MQ**	12.0	16.0	500
8	**B8P-MQ**	14.0	18.0	500
9	**B9P-MQ**	16.0	20.0	500
10	**B10P-MQ**	18.0	22.0	250
12	**B12P-MQ**	22.0	26.0	200

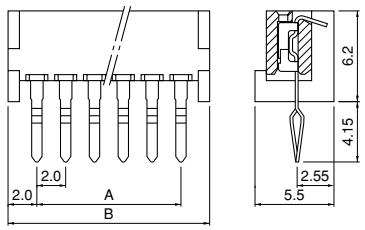
Material and Finish

Pin: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural

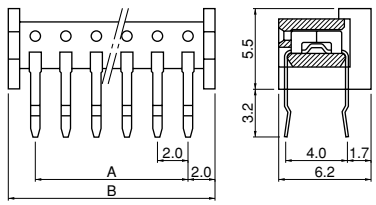
RoHS compliance *This product displays (LF)(SN) on a label.*

Low insertion force type Receptacle

Top entry type



Side entry type



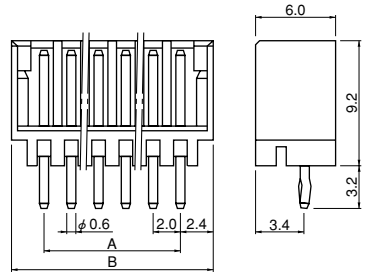
Circuits	Model No.		Dimensions (mm)		Q'ty/box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
4	**04MQ-BT-L**	**04MQ-ST-L**	6.0	10.0	500	500
5	**05MQ-BT-L**	**05MQ-ST-L**	8.0	12.0	500	500
6	**06MQ-BT-L**	**06MQ-ST-L**	10.0	14.0	500	500
7	**07MQ-BT-L**	**07MQ-ST-L**	12.0	16.0	500	500
8	**08MQ-BT-L**	**08MQ-ST-L**	14.0	18.0	500	250
9	**09MQ-BT-L**	**09MQ-ST-L**	16.0	20.0	500	250
10	**10MQ-BT-L**	**10MQ-ST-L**	18.0	22.0	250	250
12	**12MQ-BT-L**	**12MQ-ST-L**	22.0	26.0	250	250

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural

RoHS compliance

Low insertion force type Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
4	**B4P-MQ-C**	6.0	10.8	500
5	**B5P-MQ-C**	8.0	12.8	500
6	**B6P-MQ-C**	10.0	14.8	500
7	**B7P-MQ-C**	12.0	16.8	250
8	**B8P-MQ-C**	14.0	18.8	250
9	**B9P-MQ-C**	16.0	20.8	250
10	**B10P-MQ-C**	18.0	22.8	250
12	**B12P-MQ-C**	22.0	26.8	200

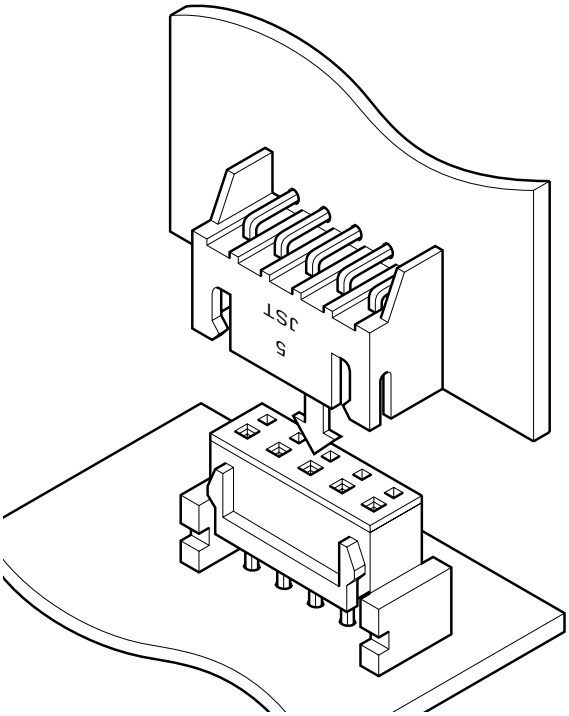
Material and Finish

Pin: Brass, copper-undercoated, tin-plated (reflow trreatment)
Wafer: PA 66, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*

JQ CONNECTOR

2.5mm pitch/Board-to-board connectors



This 2.5mm pitch connector is used to interconnect printed circuit boards. It easily resists distortion during mating, thus ensuring reliable contact, even under adverse conditions.

- ***High contact pressure***
- ***Box-shaped shroud***
- ***Secure locking on printed circuit boards***
- ***Vertical, horizontal and parallel mounting***
- ***Interchangeability***

Specifications

- Current rating: 3A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

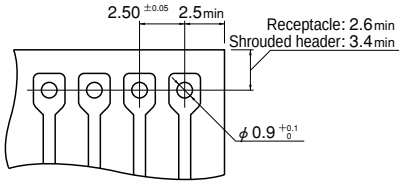
Recognized E60389

Certified LR20812

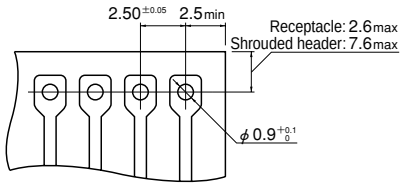
R75085

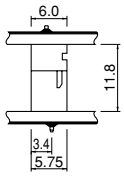
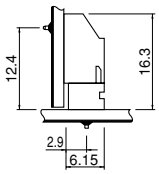
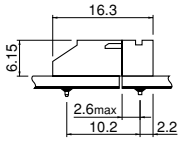
PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type

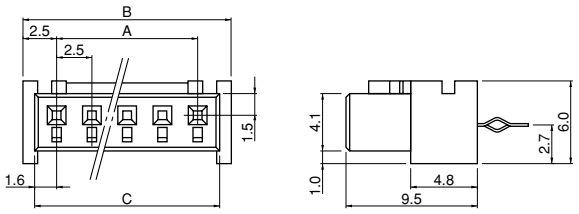


Combinations		Receptacle	
		Top entry type	Side entry type
Shrouded header	Top entry type B( )B-XH-A		—
	Side entry type S( )B-XH-A-1		

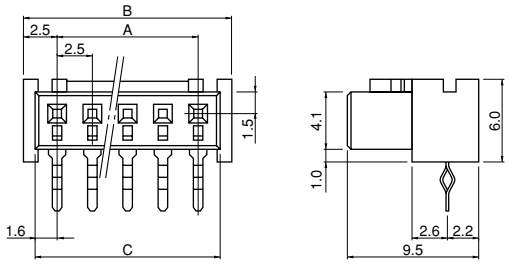
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle

Top entry type



Side entry type



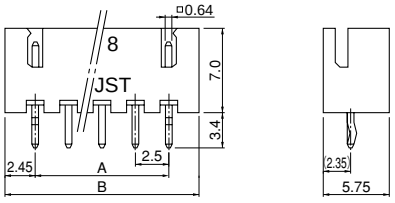
Circuits	Model No.		Dimensions (mm)			Q'ty / box	
	Top entry type	Side entry type	A	B	C	Top entry type	Side entry type
3	**03JQ-BT**	**03JQ-ST**	5.0	10.0	8.2	500	500
4	**04JQ-BT**	**04JQ-ST**	7.5	12.5	10.7	500	500
5	**05JQ-BT**	**05JQ-ST**	10.0	15.0	13.2	500	500
6	**06JQ-BT**	**06JQ-ST**	12.5	17.5	15.7	500	500
7	**07JQ-BT**	**07JQ-ST**	15.0	20.0	18.2	250	250
8	**08JQ-BT**	**08JQ-ST**	17.5	22.5	20.7	200	250
9	**09JQ-BT**	**09JQ-ST**	20.0	25.0	23.2	200	250
10	**10JQ-BT**	**10JQ-ST**	22.5	27.5	25.7	250	250
11	**11JQ-BT**	**11JQ-ST**	25.0	30.0	28.2	250	250
12	**12JQ-BT**	**12JQ-ST**	27.5	32.5	30.7	200	200
13	**13JQ-BT**	**13JQ-ST**	30.0	35.0	33.2	200	200
15	**15JQ-BT**	**15JQ-ST**	35.0	40.0	38.2	100	100

Material and Finish
Contact: Phosphor bronze, tin-plated (reflow treatment) Housing: PA 66, UL94V-0, natural

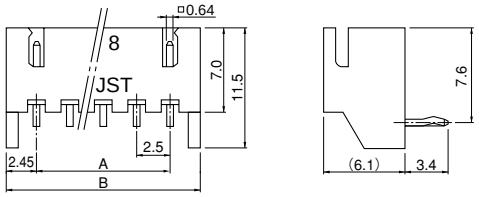
RoHS compliance

Shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
3	**B3B-XH-A**	**S3B-XH-A-1**	5.0	9.9	1,000	1,000
4	**B4B-XH-A**	**S4B-XH-A-1**	7.5	12.4	500	500
5	**B5B-XH-A**	**S5B-XH-A-1**	10.0	14.9	500	500
6	**B6B-XH-A**	**S6B-XH-A-1**	12.5	17.4	500	500
7	**B7B-XH-A**	**S7B-XH-A-1**	15.0	19.9	500	250
8	**B8B-XH-A**	**S8B-XH-A-1**	17.5	22.4	500	250
9	**B9B-XH-A**	**S9B-XH-A-1**	20.0	24.9	500	250
10	**B10B-XH-A**	**S10B-XH-A-1**	22.5	27.4	250	250
11	**B11B-XH-A**	**S11B-XH-A-1**	25.0	29.9	250	250
12	**B12B-XH-A**	**S12B-XH-A-1**	27.5	32.4	250	200
13	**B13B-XH-A**	**S13B-XH-A-1**	30.0	34.9	250	200
14	**B14B-XH-A**	**S14B-XH-A-1**	32.5	37.4	250	200
15	**B15B-XH-A**	**S15B-XH-A-1**	35.0	39.9	250	200

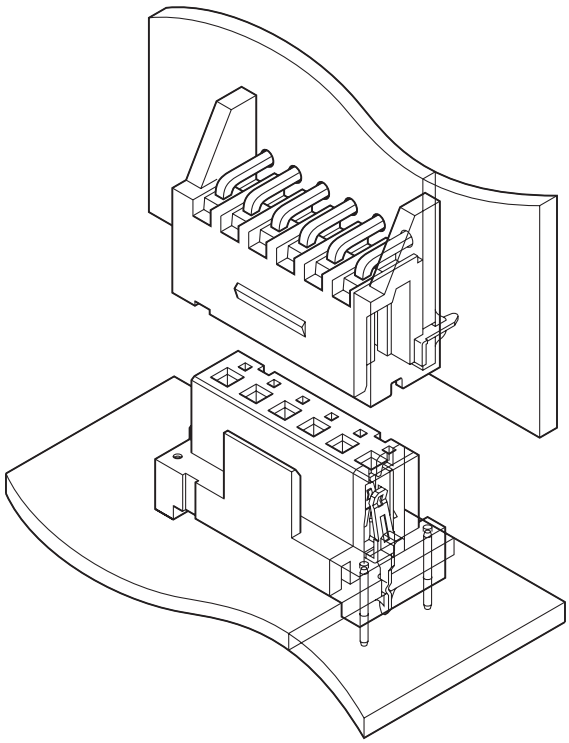
Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*

JL CONNECTOR

2.5mm pitch/Board-to-board connectors

Radial Tape



The JL connector is designed for board-to-board connection in electronic equipment requiring high-density mounting and unitization. This connector is highly resistant to equipment vibration and shock.

- ***High contact pressure***
- ***Housing lock assures good connection even after severe shock & vibration***
- ***Reinforcing pins increase PCB mounting durability***
- ***Polarized, fully shrouded header aligns the connector halves before their pins make contact***

Specifications

- Current rating: 3A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

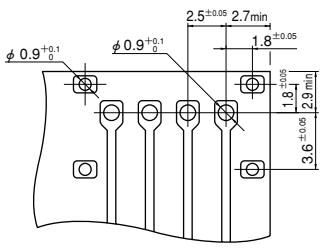
Standards

Recognized E60389

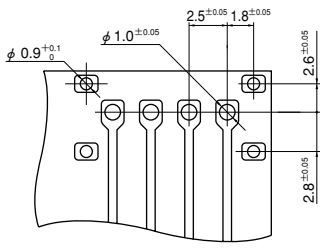
Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

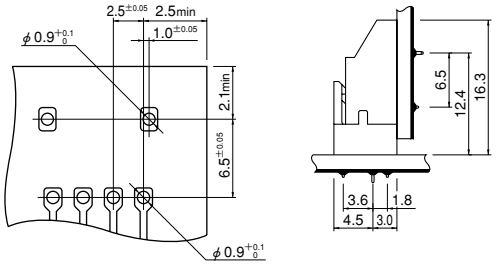
Receptacle



Receptacle on radial-tape

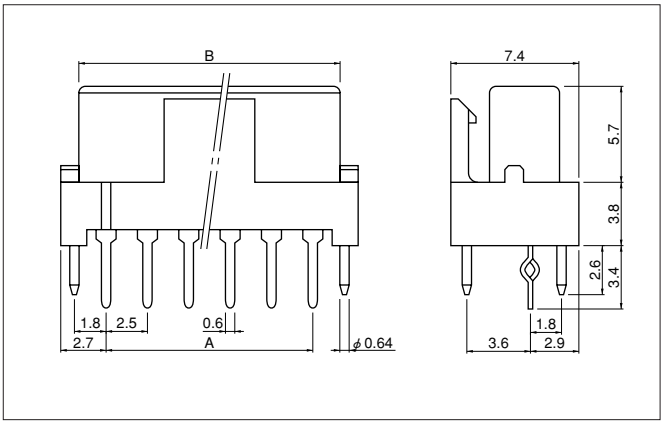


Shrouded header



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Receptacle



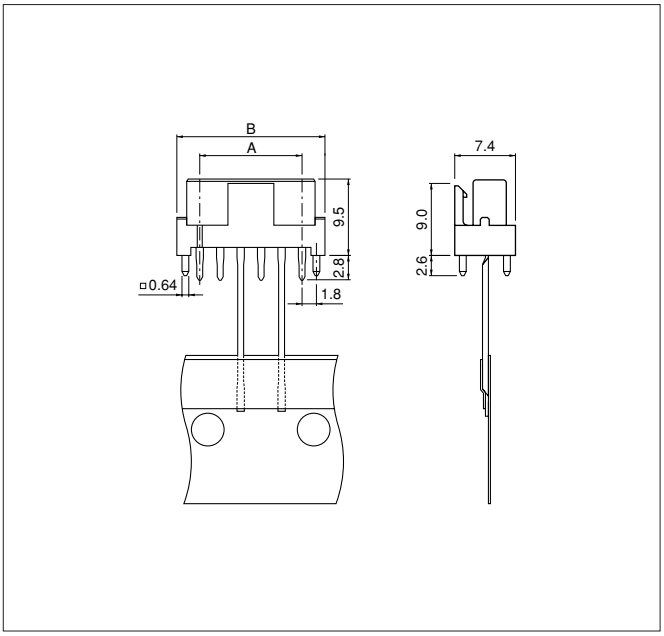
Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
3	**03JL-BT-E**	5.0	8.2	250
4	**04JL-BT-E**	7.5	10.7	200
5	**05JL-BT-E**	10.0	13.2	200
6	**06JL-BT-E**	12.5	15.7	200
7	**07JL-BT-E**	15.0	18.2	200
8	**08JL-BT-E**	17.5	20.7	100
9	**09JL-BT-E**	20.0	23.2	100
10	**10JL-BT-E**	22.5	25.7	100
11	**11JL-BT-E**	25.0	28.2	100
12	**12JL-BT-E**	27.5	30.7	100
13	**13JL-BT-E**	30.0	33.2	100
15	**15JL-BT-E**	35.0	38.2	50

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, blue
Reinforcing pins: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Receptacle on radial-tape



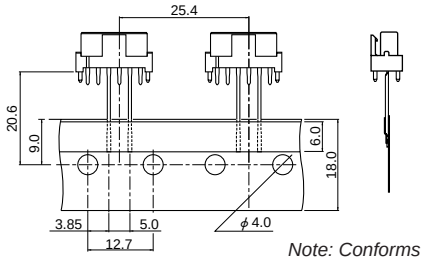
Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
5	**05JL-BT-M-T**	10.0	15.4	400
6	**06JL-BT-M-T**	12.5	17.9	400
7	**07JL-BT-M-T**	15.0	20.4	400
8	**08JL-BT-M-T**	17.5	22.9	400

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0
Reinforcing pins: Brass, copper-undercoated, tin-plated (reflow treatment)

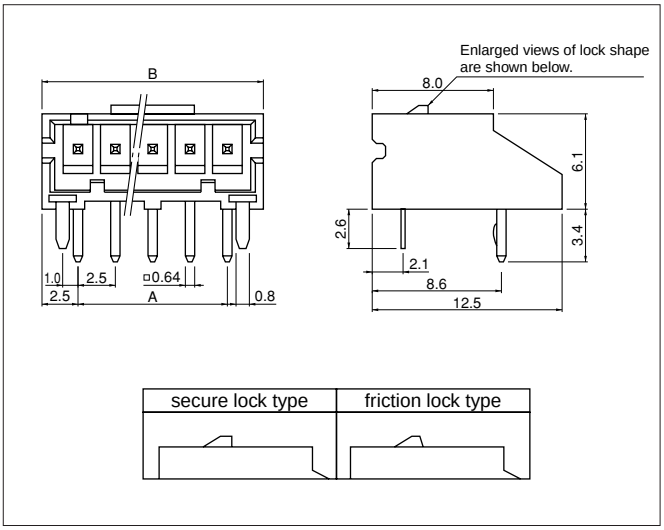
RoHS compliance *This product displays (LF)(SN) on a label.*

Taping Specifications



Note: Conforms to JIS C 0806.

Shrouded header

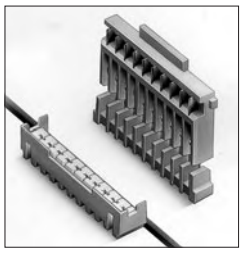


Circuits	Model No.		Dimensions (mm)		Q'ty/box
	secure lock type	friction lock type	A	B	
3	**S3B-JL-R**	**S3B-JL-F-E**	5.0	10.0	250
4	**S4B-JL-R**	**S4B-JL-F-E**	7.5	12.5	200
5	**S5B-JL-R**	**S5B-JL-F-E**	10.0	15.0	200
6	**S6B-JL-R**	**S6B-JL-F-E**	12.5	17.5	200
7	**S7B-JL-R**	**S7B-JL-F-E**	15.0	20.0	200
8	**S8B-JL-R**	**S8B-JL-F-E**	17.5	22.5	100
9	**S9B-JL-R**	**S9B-JL-F-E**	20.0	25.0	100
10	**S10B-JL-R**	**S10B-JL-F-E**	22.5	27.5	100
11	**S11B-JL-R**	**S11B-JL-F-E**	25.0	30.0	100
12	**S12B-JL-R**	**S12B-JL-F-E**	27.5	32.5	100
13	**S13B-JL-R**	**S13B-JL-F-E**	30.0	35.0	100
15	**S15B-JL-R**	**S15B-JL-F-E**	35.0	40.0	100

Material and Finish

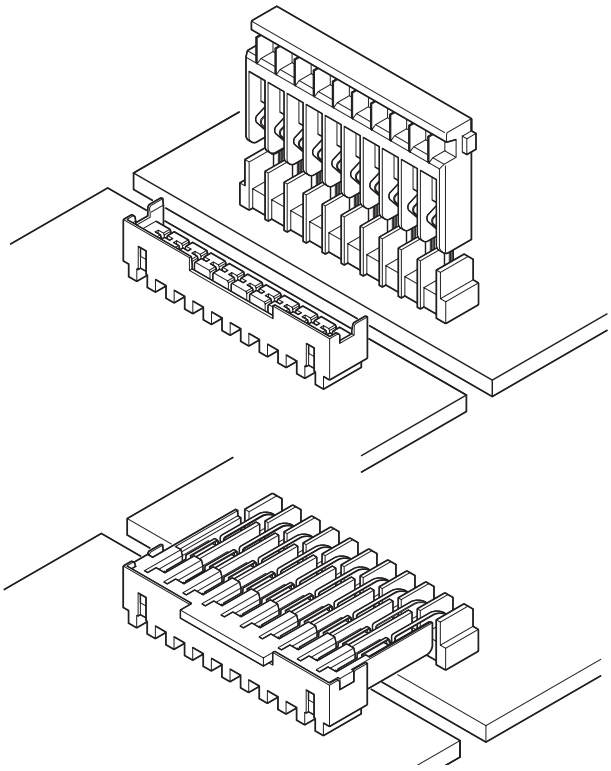
Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, red (secure lock type), blue (friction lock type)
Reinforcing pins: Brass, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*



2.5FJ CONNECTOR

2.5mm pitch/Board-to-board connectors



The 2.5FJ connector is a 2.5mm pitch board-to-board connector. The connector halves can be mated after the installation of the printed circuit boards in their enclosure.

- ***Flexible connection absorbs circuit board misalignment***
- ***Provides a low profile mount and allows connection after mounting***
- ***Assures a reliable connection***

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max. After environmental testing/80m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

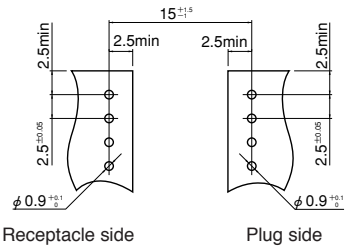
Standards

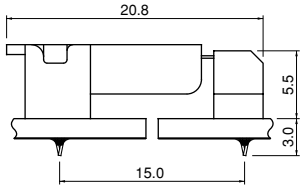
Recognized E60389

Certified LR20812

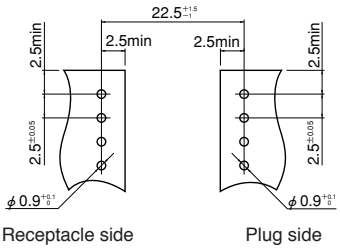
PC board layout (viewed from component side) and Assembly layout

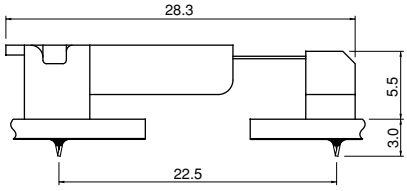
Short type





Long type



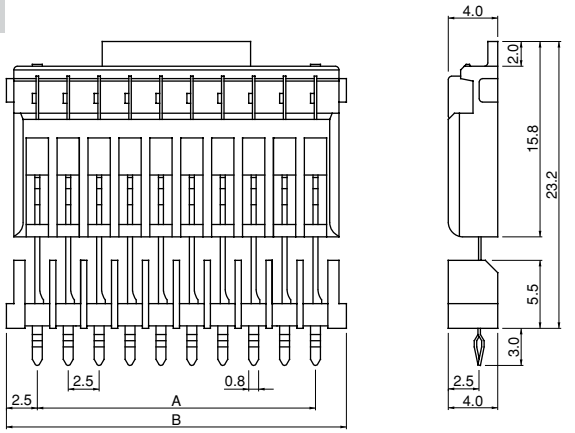


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

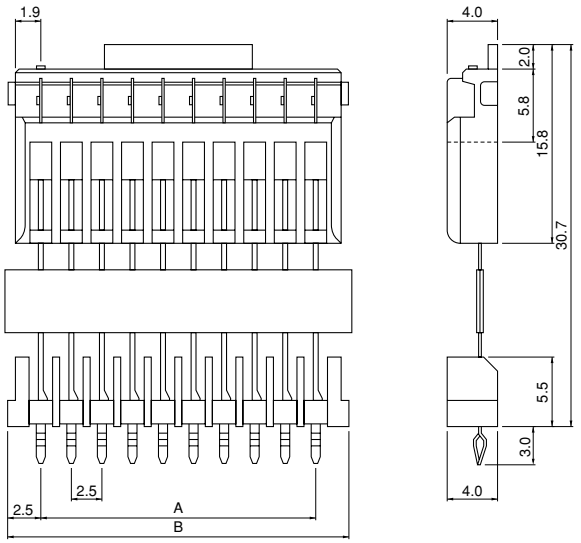
2.5FJ CONNECTOR

Plug

Short type



Long type

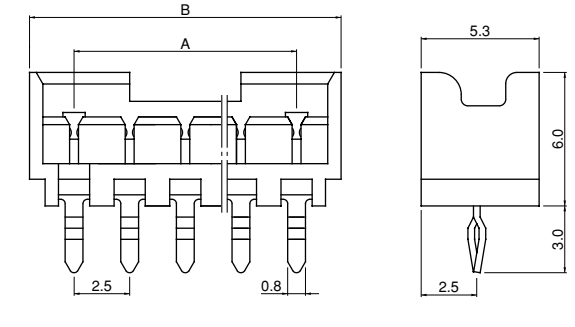


Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Short type	Long type	A	B	Short type	Long type
5	**05TM-2.5FJ**	—	10.0	15.0	200	—
10	**10TM-2.5FJ**	**10PN-2.5FJ**	22.5	27.5	100	100

Material and Finish
Contact: Phosphor bronze, tin-plated (reflow treatment) Housing: PA 66, UL94V-0, Short type —white (natural) Long type —white (natural)

RoHS compliance
Note: 10PN-2.5FJ is not UL/CSA approved.

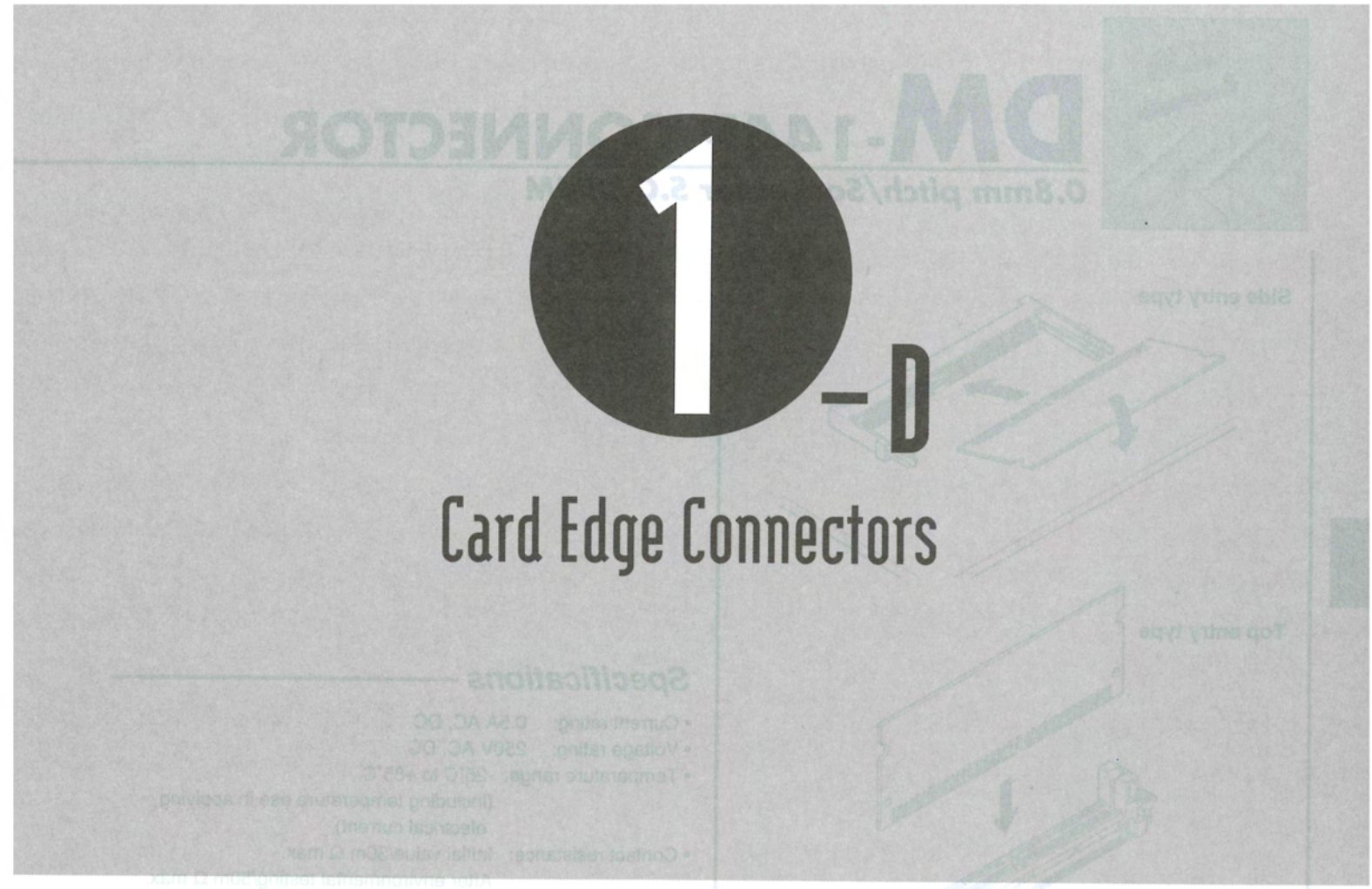
Receptacle



Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
5	**05R-2.5FJ**	10.0	15.0	200
10	**10R-2.5FJ**	22.5	27.5	200

Material and Finish
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) Housing: PA 66, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*



1-D

Card Edge Connectors

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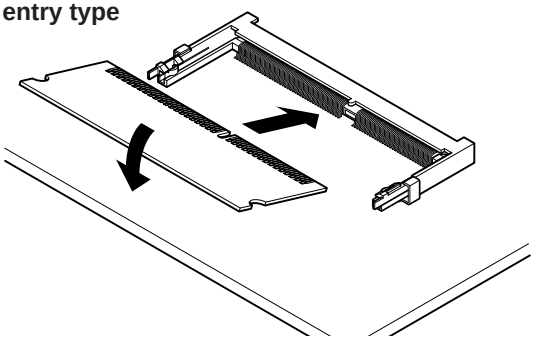
• 0.8mm pitch DM-144P CONNECTOR 172

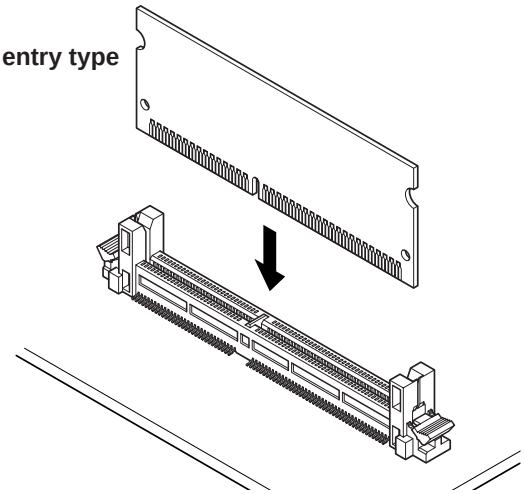
DM-144P CONNECTOR

0.8mm pitch/Socket for S.O.DIMM

Side entry type



Top entry type



Sockets for the 8Byte S.O.DIMM which is standardized by the JEDEC.

- ***Extremely small space for mounting on the board***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
  After environmental testing/50m Ω max.
- Insulation resistance: 250M Ω min.
- Withstanding voltage: 250V AC/minute

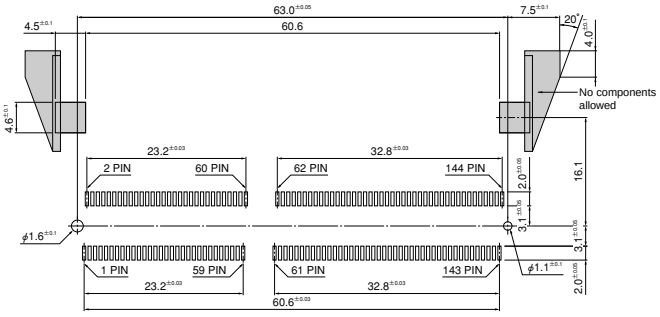
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

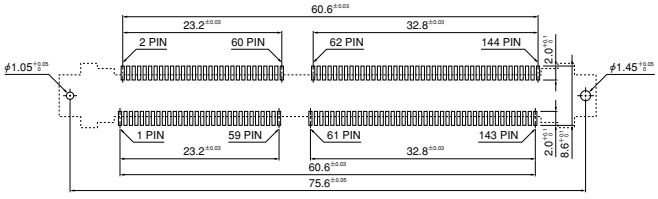
Recognized E60389

PC board layout (viewed from component side)

Side entry type



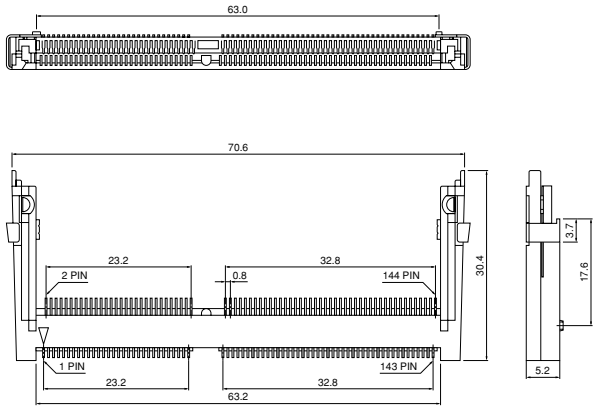
Top entry type



Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Side entry type



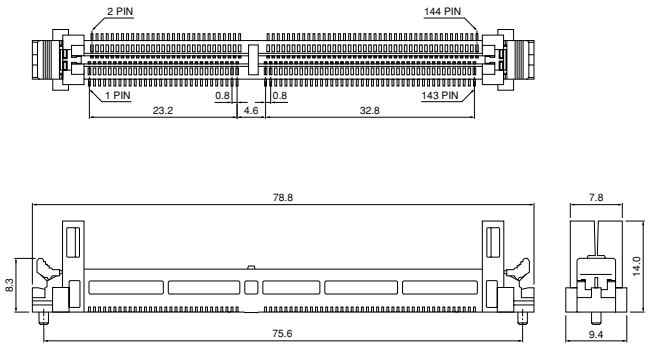
Model No.	Q'ty / box
DM-3B1-N1210	320

Material and Finish

Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Top entry type



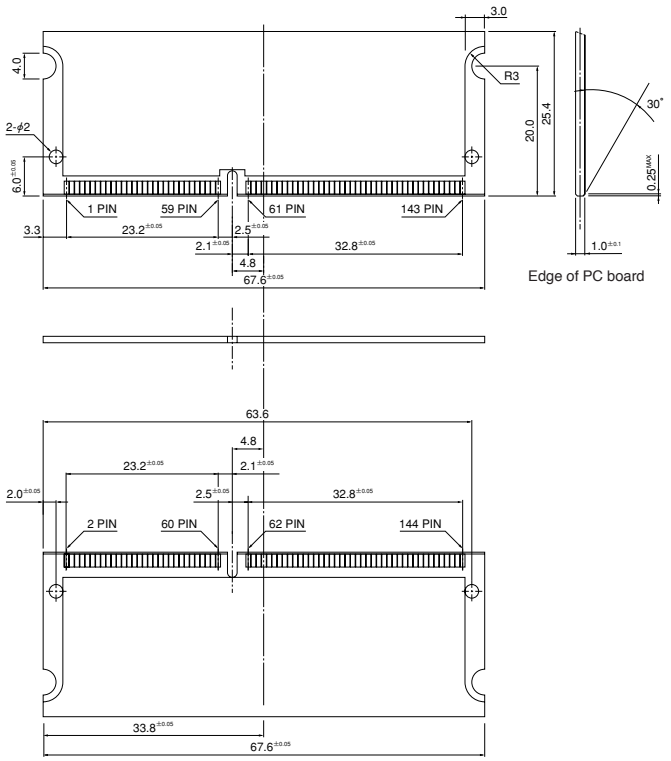
Model No.	Q'ty / box
DM-3D4-B3200	224

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Ejector: Heat resisting resin, UL94V-0

RoHS compliance

Applicable PC board layout (for reference)



1-E

FFC/FPC Connectors

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	FXW CONNECTOR	184
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	FXY CONNECTOR	188
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	FY CONNECTOR	220
	FLT CONNECTOR	222
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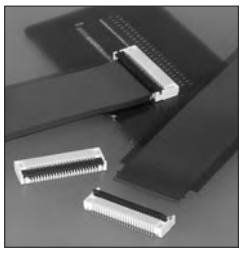
	FMZ CONNECTOR	227
• 1.25mm pitch	FE CONNECTOR	229
• 2.54mm pitch	FDZ CONNECTOR	231

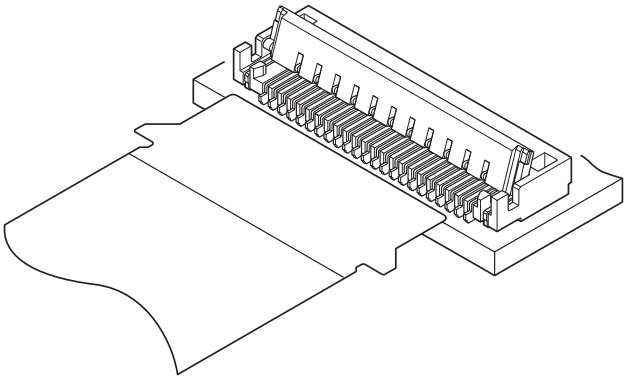


FVW CONNECTOR

Emboss Tape

ZIF TYPE

0.2mm pitch/Connectors for FPC



In addition to achieving space saving and low profile features demanded by the market, this connector also realizes smaller pitch (0.2mm pitch) up to an extreme situation and adopts double-sided FPC.

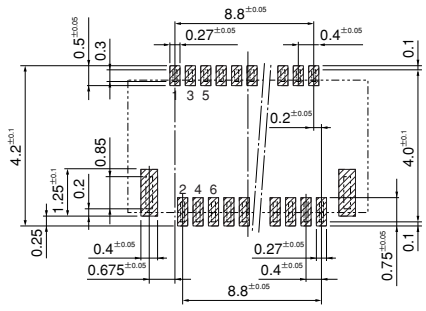
- ***Adoption of ZIF structure***
- ***Self-lock mechanism enables the cover to close by one-touch operation***
- ***Double-sided FPC***
- ***FPC with protrusions***

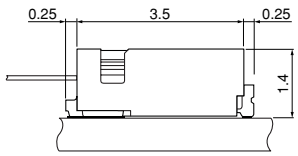
Specifications ––––––––––––––––––

- Current rating: 0.3A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max. After environmental testing/50m Ω max. (variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute

* RoHS compliant products are published.
* Contact JST for thickness of applicable Double-sided FPC.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

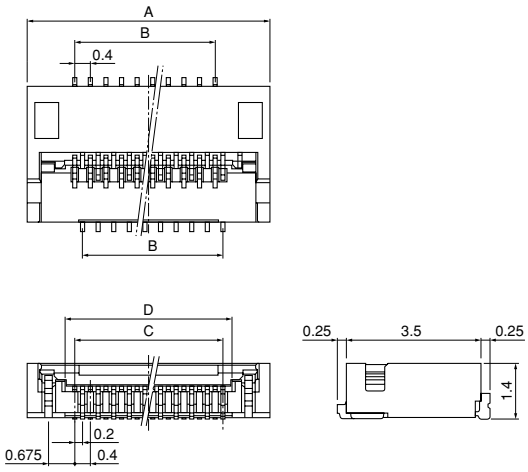
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



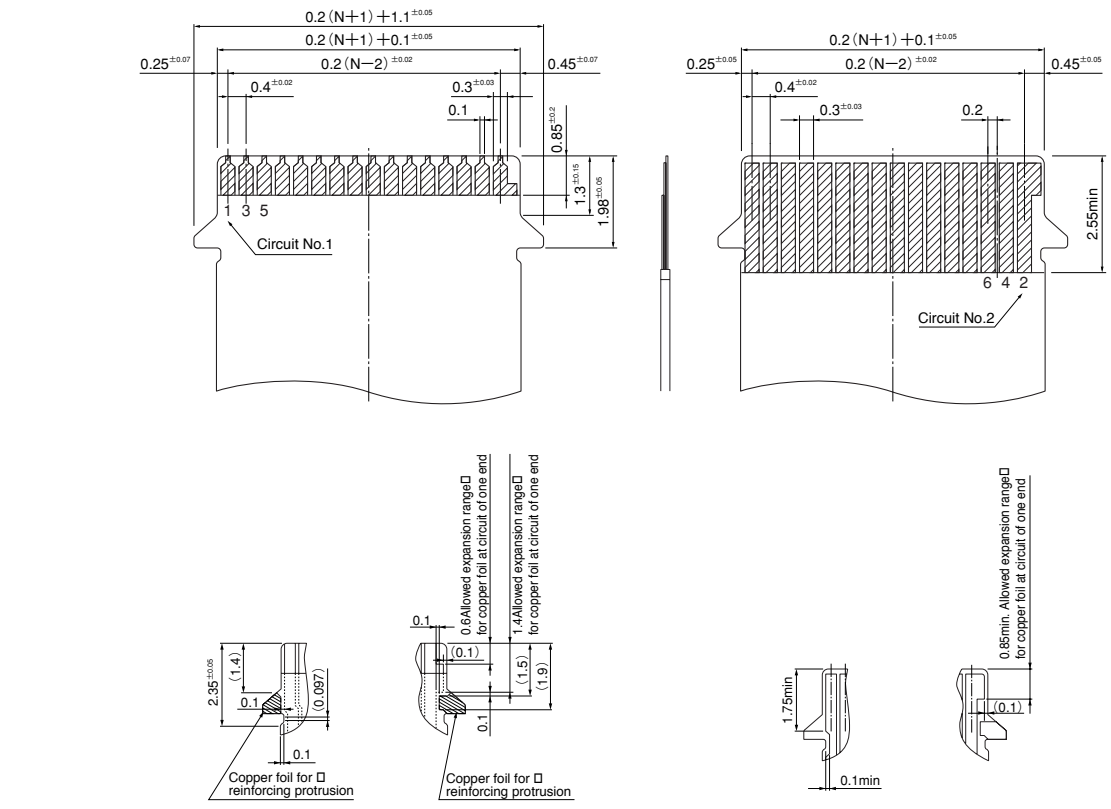
Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
46	**46FVW-SM1-GAN-TF**	11.45	8.8	9.0	9.5	2,500

Material and Finish
Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover: PPS, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*
This products listed above are supplied on embossed-tape.

Lead section dimensions of FPC

(Upper side) **(Lower side)**



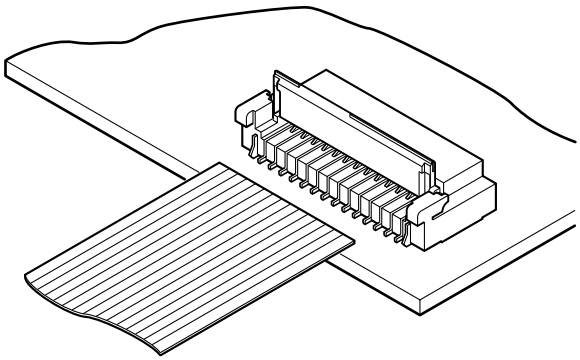
Note: N --- Number of circuits

FX CONNECTOR

0.3mm pitch/Connectors for FPC

Emboss Tape

NON-ZIF TYPE



Non-ZIF type connector for FPC's, with only 2.25mm height when mounted on the PC board. Temporary retention mechanism and flip-lock device provide good operational efficiency.

- ***Good for high density mounting***
- ***Heat resisting design suitable for surface mounting***
- ***Easy mounting operation***
- ***Embossed taping for automatic mounting***

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
  After environmental testing/50m Ω max.
  (variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
  <0.6mm pitch staggered>
  Conductor width/0.3mm
  Mating part thickness/0.2±0.03mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

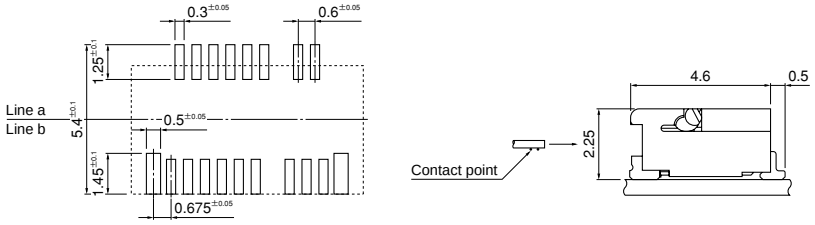
* Contact JST for details.

Standards

Recognized E60389

Certified LR20812

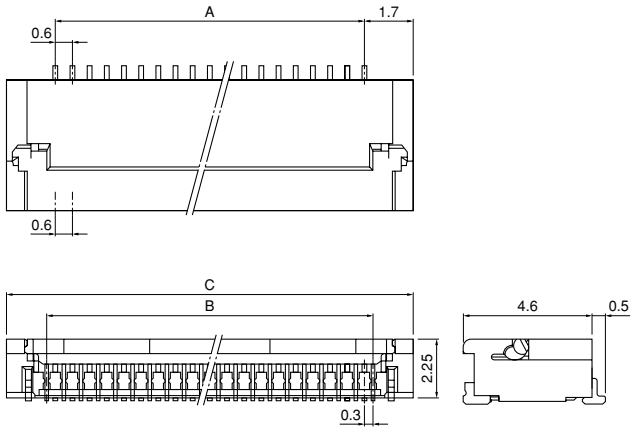
PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Reverse type

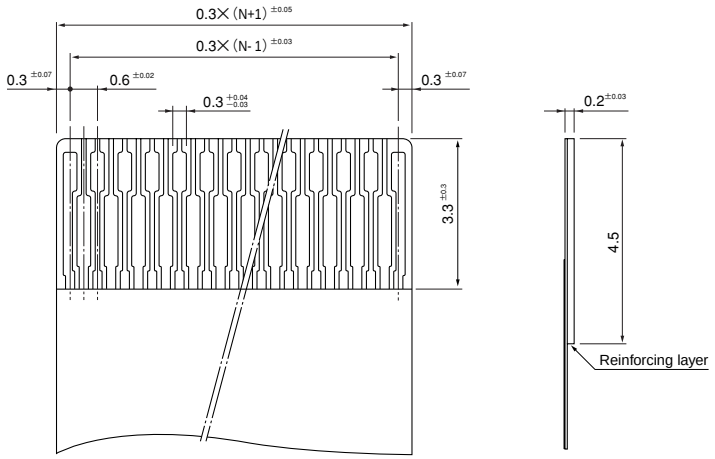


Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
15	**15FX-RSM1-S-TB**	3.6	4.2	7.0	3,000
21	**21FX-RSM1-S-TB**	5.4	6.0	8.8	3,000
23	**23FX-RSM1-S-TB**	6.0	6.6	9.4	3,000
25	**25FX-RSM1-S-TB**	6.6	7.2	10.0	3,000
27	**27FX-RSM1-S-TB**	7.2	7.8	10.6	3,000
33	**33FX-RSM1-S-TB**	9.0	9.6	12.4	3,000
39	**39FX-RSM1-S-TB**	10.8	11.4	14.2	3,000
45	**45FX-RSM1-S-TB(12)**	12.6	13.2	16.0	2,500
51	**51FX-RSM1-S-TB**	14.4	15.0	17.8	3,000
57	**57FX-RSM1-S-TB**	16.2	16.8	19.6	3,000

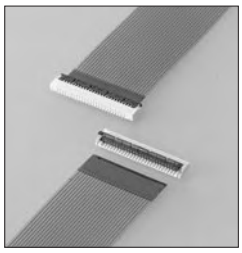
Material and Finish
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Housing: LCP, UL94V-0 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Cover: Heat-resisting polyamide, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Contact JST for gold-plated products.

Lead section dimensions of FPC



Note: N---Number of circuits

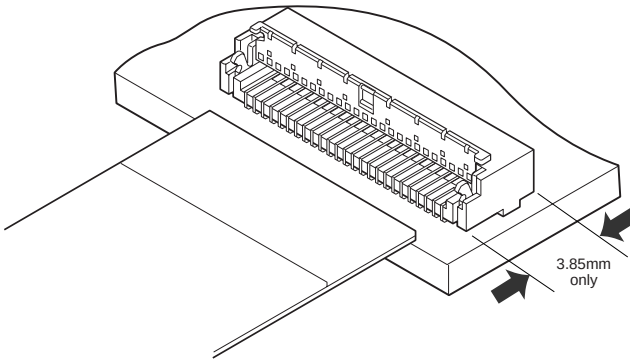


FXS CONNECTOR

Emboss Tape

ZIF TYPE

0.3mm pitch/Connectors for FPC



Space saving flip lock type connector, with 1.8mm height and 3.85mm depth.

- ***Space saving design***
- ***Rotating cover structure***
- ***Locking structure***

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
  After environmental testing/50m Ω max.
  (variation from initial value)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
  <0.6mm pitch staggered>
  Conductor width/0.3mm
  Mating part thickness/0.2±0.03mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

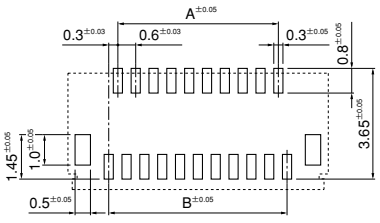
* Contact JST for details.

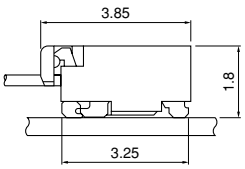
Standards

Recognized E60389

Certified LR20812

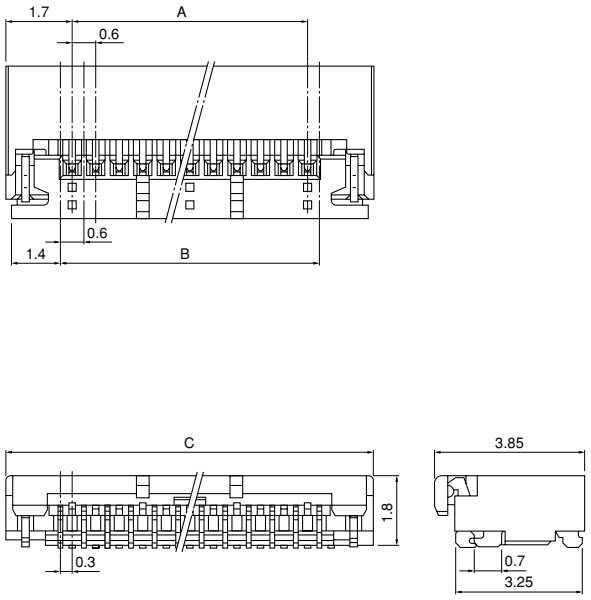
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



Gold-plated

Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
15	**15FXS-RSM1-G-TF (B)**	3.6	4.2	7.0	2,500
19	**19FXS-RSM1-G-TF (B)**	4.8	5.4	8.2	2,500
21	**21FXS-RSM1-G-TF (B)**	5.4	6.0	8.8	2,500
25	**25FXS-RSM1-G-TF (B)**	6.6	7.2	10.0	2,500
33	**33FXS-RSM1-G-TF (B)**	9.0	9.6	12.4	2,500
45	**45FXS-RSM1-G-TF (B)**	12.6	13.2	16.0	2,500
51	**51FXS-RSM1-G-TF (B)**	14.4	15.0	17.8	2,500

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover: Heat resisting resin, UL94V-0
Reinforcing pin: KOVAR
Rotary pin: KOVAR

RoHS compliance *This product displays (LF)(SN) on a label.*

Tin-plated

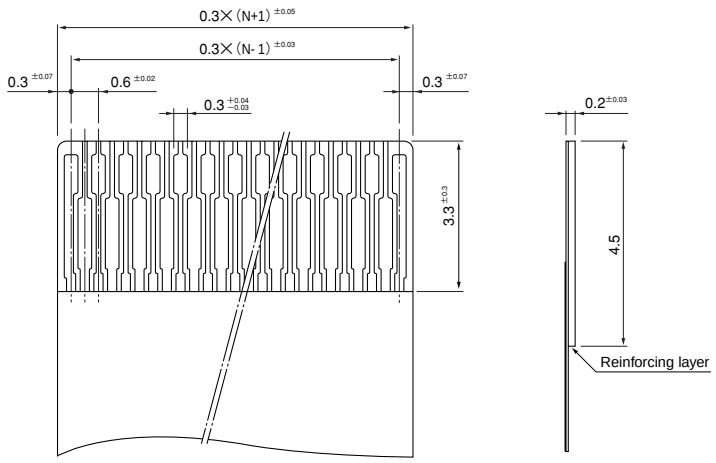
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
15	**15FXS-RSM1-TF (B)**	3.6	4.2	7.0	2,500
19	**19FXS-RSM1-TF (B)**	4.8	5.4	8.2	2,500
21	**21FXS-RSM1-TF (B)**	5.4	6.0	8.8	2,500
25	**25FXS-RSM1-TF (B)**	6.6	7.2	10.0	2,500
33	**33FXS-RSM1-TF (B)**	9.0	9.6	12.4	2,500
45	**45FXS-RSM1-TF (B)**	12.6	13.2	16.0	2,500
51	**51FXS-RSM1-TF (B)**	14.4	15.0	17.8	2,500

Material and Finish

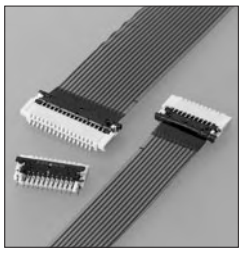
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover: Heat resisting resin, UL94V-0
Reinforcing pin: KOVAR
Rotary pin: KOVAR

RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FPC



Note: N---Number of circuits

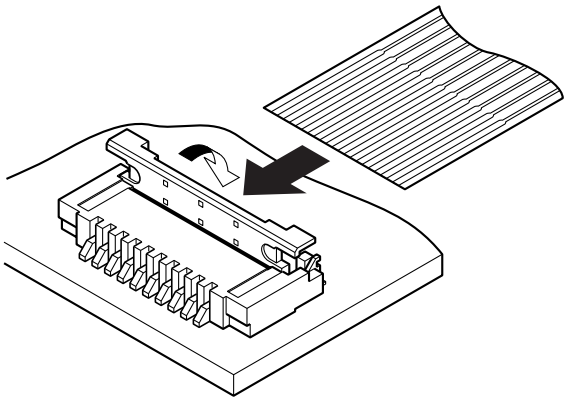


FXL CONNECTOR

Emboss Tape

NON-ZIF TYPE

0.3mm pitch/Connectors for FPC



0.3mm pitch non-ZIF flip lock type connector with 1.3mm low profile.

- ***1.3mm height, low profile***
- ***Optimum heat resistant material for surface mount***

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
  After environmental testing/50m Ω max.
  (variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
  <0.6mm pitch staggered>
  Conductor width/0.3mm
  Mating part thickness/0.2±0.03mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

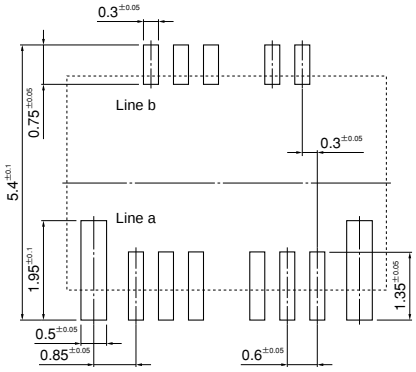
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

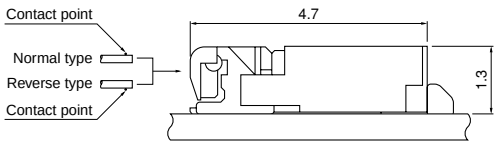
* Contact JST for details.

Standards

Recognized E60389

PC board layout (viewed from component side) and Assembly layout

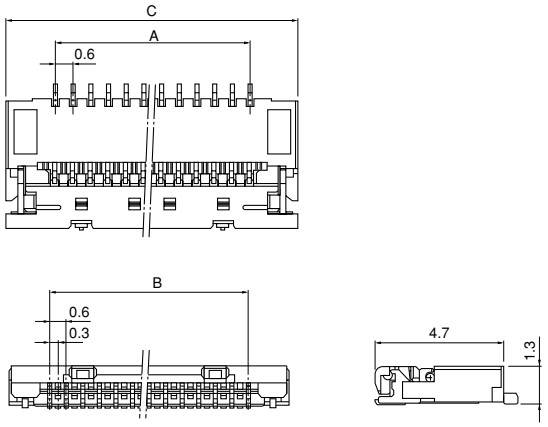




Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Normal type



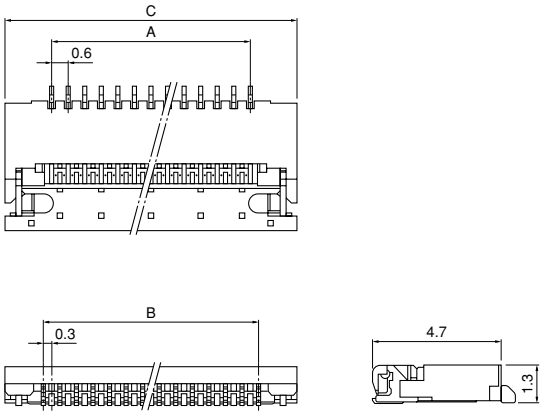
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
19	**19FXL-SM1-S-H-TB**	4.8	5.4	8.2	3,000
33	**33FXL-SM1-S-H-TB**	9.0	9.6	12.4	3,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: LCP, UL94V-0
Cover housing: LCP, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Frame pin: SUS

RoHS compliance *This product displays (LF)(SN) on a label.*

Reverse type



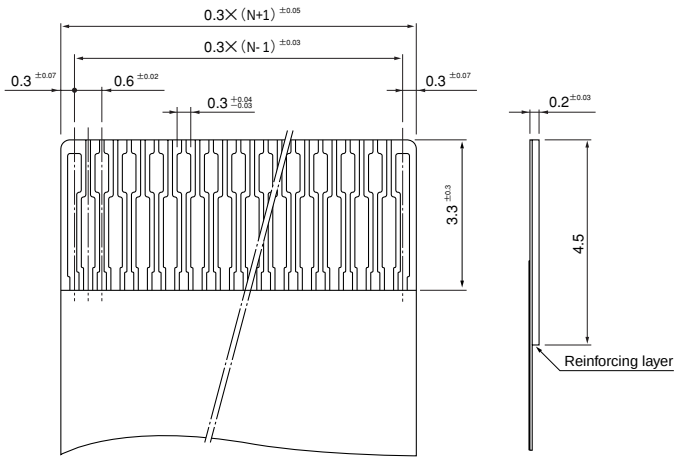
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
11	**11FXL-RSM1-S-H-TB**	2.4	3.0	5.8	3,000
15	**15FXL-RSM1-S-H-TB**	3.6	4.2	7.0	3,000
17	**17FXL-RSM1-S-H-TB**	4.2	4.8	7.6	3,000
19	**19FXL-RSM1-S-H-TB**	4.8	5.4	8.2	3,000
21	**21FXL-RSM1-S-H-TB**	5.4	6.0	8.8	3,000
23	**23FXL-RSM1-S-H-TB**	6.0	6.6	9.4	3,000
25	**25FXL-RSM1-S-H-TB**	6.6	7.2	10.0	3,000
27	**27FXL-RSM1-S-H-TB**	7.2	7.8	10.6	3,000
29	**29FXL-RSM1-S-H-TB**	7.8	8.4	11.2	3,000
31	**31FXL-RSM1-S-H-TB**	8.4	9.0	11.8	3,000
33	**33FXL-RSM1-S-H-TB**	9.0	9.6	12.4	3,000
39	**39FXL-RSM1-S-H-TB**	10.8	11.4	14.2	3,000
51	**51FXL-RSM1-S-H-G-TB**	14.4	15.0	17.8	3,000
57	**57FXL-RSM1-S-H-G-TB**	16.2	16.8	19.6	3,000

Material and Finish

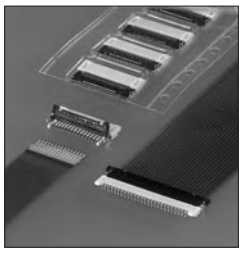
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Copper alloy, nickel-undercoated, gold-plated (51, 57 circuits)
Housing: LCP, UL94V-0
Cover housing: LCP, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Reinforcement pin: KOVAR or SUS
Rotary pin: KOVAR or SUS

RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FPC



Note: N---Number of circuits

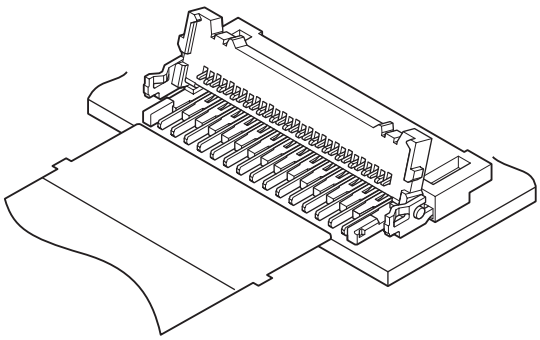


FXW CONNECTOR

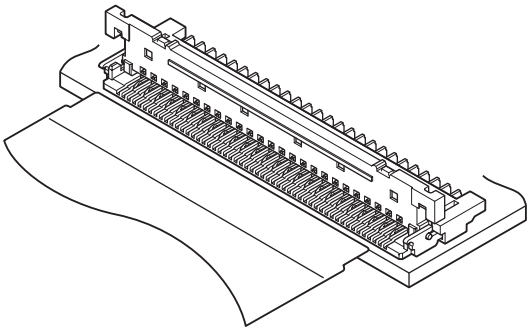
Emboss Tape

ZIF TYPE

0.3mm pitch/Connectors for FPC



Normal type



Reverse type

This low-profile FPC connector with a mounting height of 1.0mm has a Double ZIF Flip-lock slider structure.

- ***Low-profile (1.0mm height) & adoption of Double ZIF structure***
- ***One-touch sliding operation of Molded Cover***
- ***Heat resisting design suitable for surface mounting***
- ***FPC with protrusions for normal type***

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max.
  After environmental testing/50m Ω max.
  (variation from initial value)
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
  <0.6mm pitch staggered>
  Conductor width/0.3mm
  Mating part thickness/0.12$^{+0.03}_{-0.02}$mm

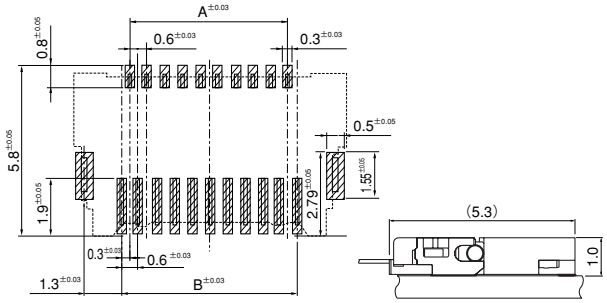
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

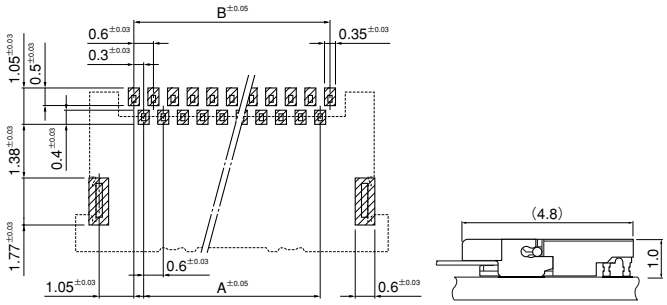
Recognized E60389

PC board layout (viewed from component side) and Assembly layout

Normal type



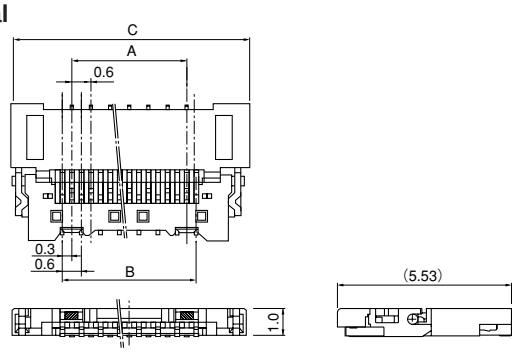
Reverse type



Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Normal type



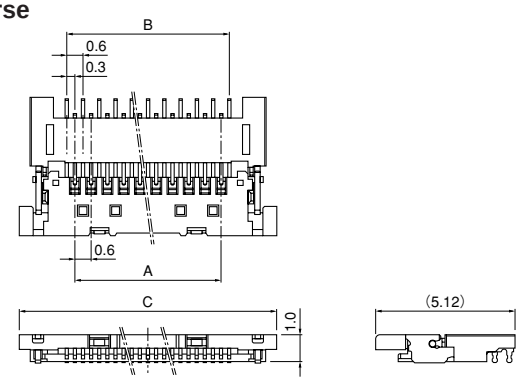
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
25	**25FXW-SM1-G-S-TB**	6.6	7.2	10.4	5,000
29	**29FXW-SM1-G-S-TB**	7.8	8.4	11.6	5,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover: Heat resisting resin, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*

Reverse type



Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
17	**17FXW-RSM1-G-S-TB**	4.2	4.8	8.3	4,500
27	**27FXW-RSM1-G-S-TB**	7.2	7.8	11.3	4,500
31	**31FXW-RSM1-G-S-TB**	8.4	9.0	12.5	4,500
35	**35FXW-RSM1-G-S-TB**	9.6	10.2	13.7	4,500
41	**41FXW-RSM1-G-S-TB**	11.4	12.0	15.5	4,500
51	**51FXW-RSM1-G-S-TB**	14.4	15.0	18.5	4,500
59	**59FXW-RSM1-G-S-TB**	16.8	17.4	20.9	4,500

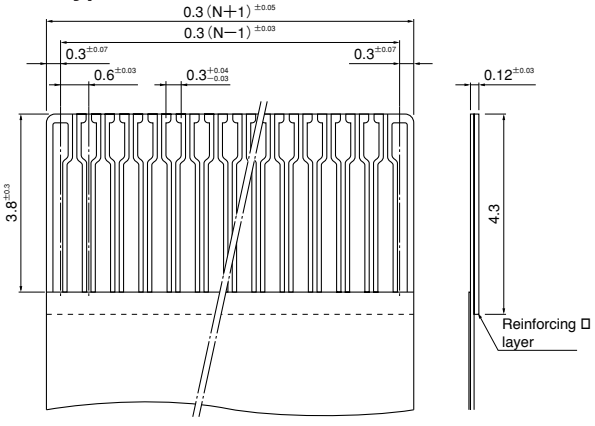
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover: Heat resisting resin, UL94V-0

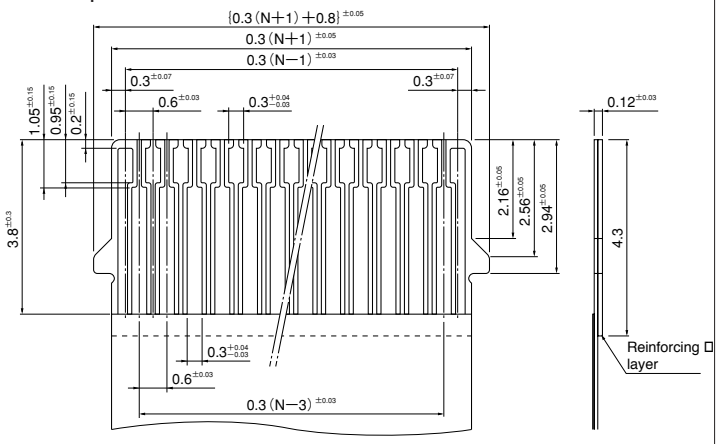
RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FPC

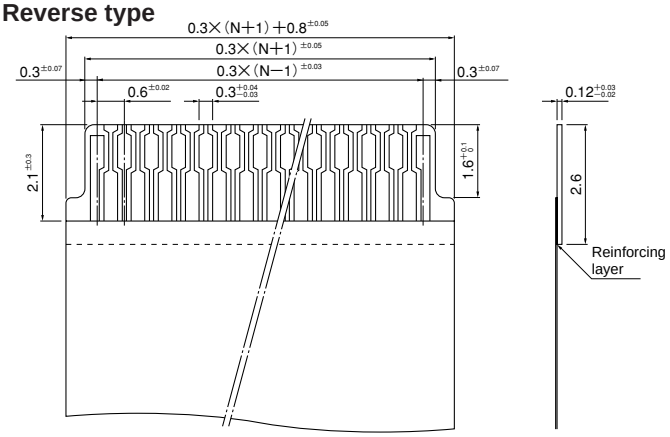
Normal type



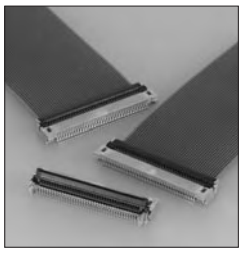
<With protrusions>



Reverse type



Note: N---Number of circuits

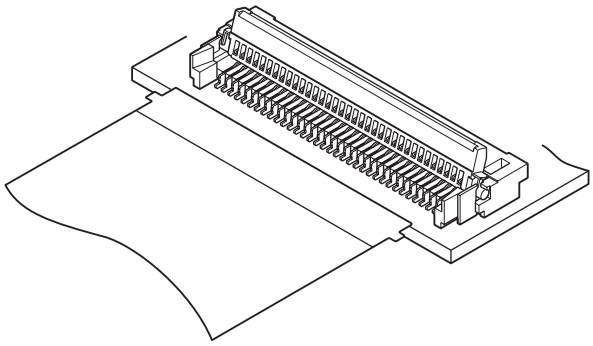


FXM CONNECTOR

Emboss Tape

ZIF TYPE

0.3mm pitch/Connectors for FPC



A substantial size for the 0.3mm pitch connector ensures easy handling. Moreover, since this connector accepts a FPC with protrusion providing secure as well as foolproof mating at the customers production line.

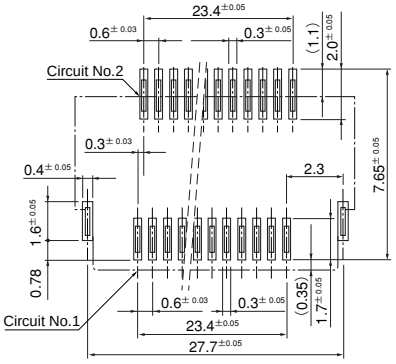
- ***Double ZIF structure***
- ***Self-lock mechanism enables the cover to close by one-touch operation***
- ***A FPC with protrusion improves operability and reliability***

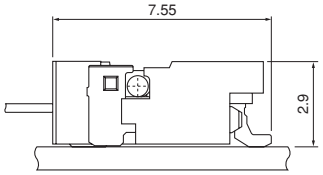
Specifications ––––––––––––––––––

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/80m Ω max.
  After environmental testing/50m Ω max.
  (variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
  <0.6mm pitch staggered>
  Conductor width/0.3mm
  Mating part thickness/0.3±0.05mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

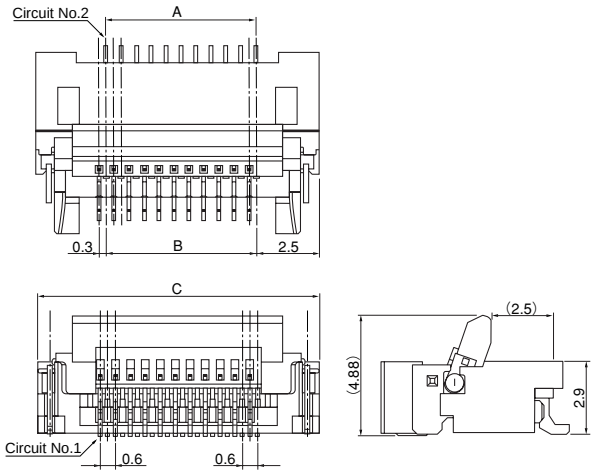
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

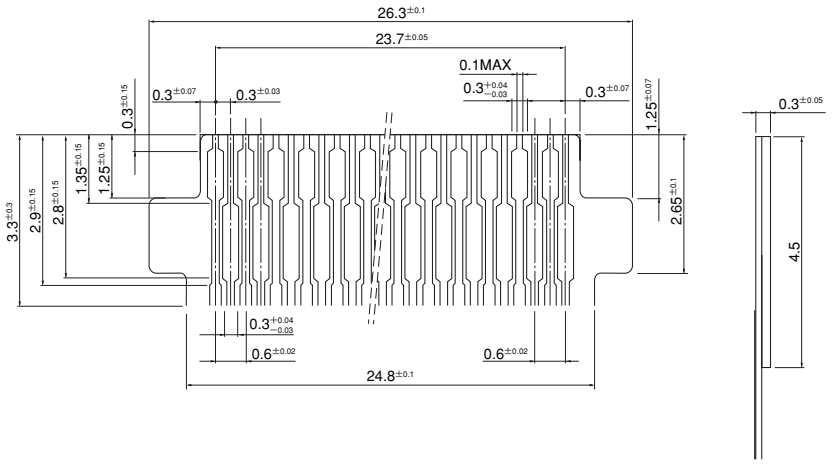


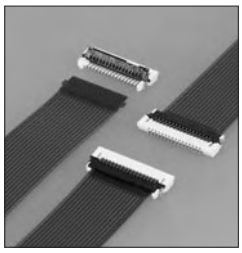
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
80	**80FXM-RSM1-G-1-TB**	23.4	23.4	28.7	1,500

Material and Finish
Contact: Copper alloy, nickel-undercoated, gold-plated Cover: PPS, UL94V-0 Housing: LCP, UL94V-0 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FPC



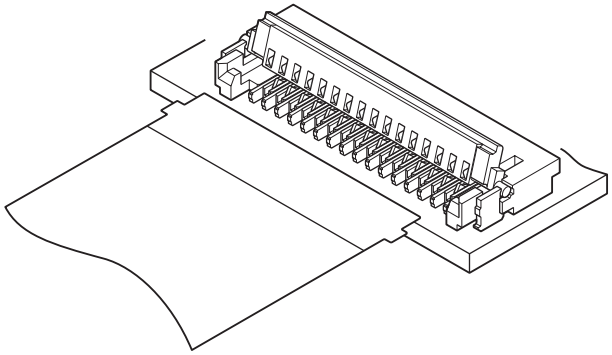


FXY CONNECTOR

Emboss Tape

ZIF TYPE

0.3mm pitch/Connectors for FPC



In addition to achieving space saving and low profile features demanded by the market, this connector also realizes superb operability by adopting a FPC with protrusion. The use of the FPC provides secure and foolproof mating at the customers' production site.

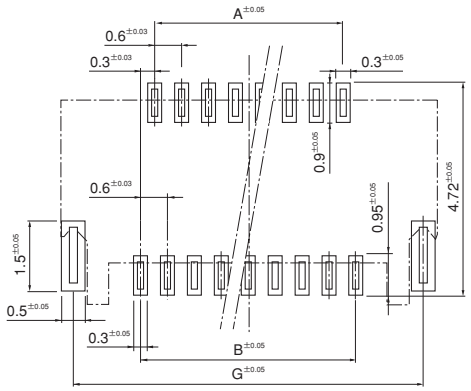
- ***ZIF mechanism***
- ***Self-lock mechanism enables the cover to close by one-touch operation***
- ***A FPC with protrusion improves operability and reliability***

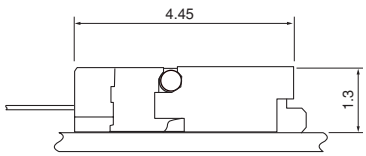
Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/70m Ω max.
  After environmental testing/60m Ω max.
  (variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
  <0.6mm pitch staggered>
  Conductor width/0.3mm
  Mating part thickness/0.2±0.03mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

PC board layout (viewed from component side) and Assembly layout

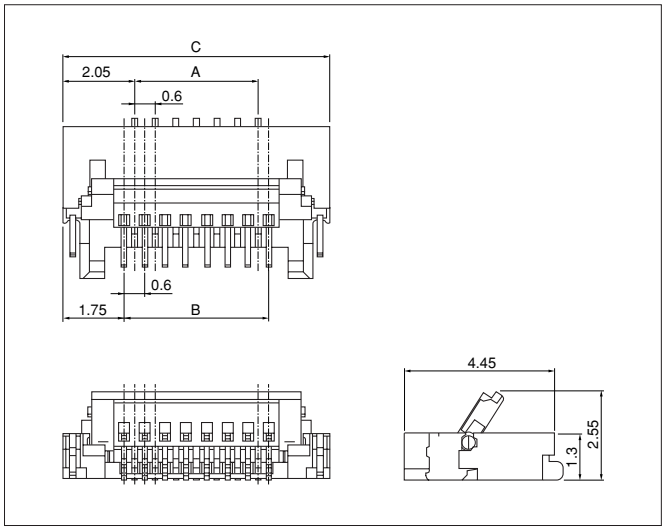




Circuits	Dimensions (mm)		
	A	B	G
19	4.8	5.4	8.4
25	6.6	7.2	10.2
27	7.2	7.8	10.8
31	8.4	9.0	12.0
33	9.0	9.6	12.6
37	10.2	10.8	13.8
45	12.6	13.2	16.2
51	14.4	15.0	18.0

Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

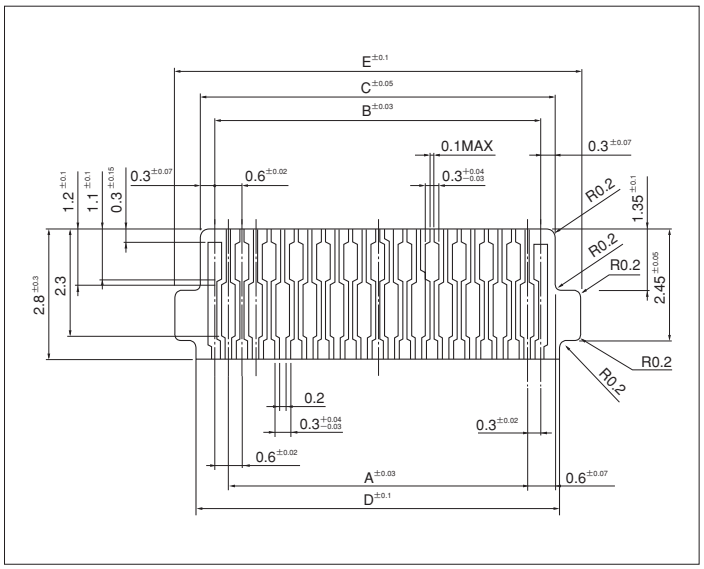


Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
15	**15FXY-RSM1-GAN-1-TB**	3.6	4.2	7.7	2,500
19	**19FXY-RSM1-GAN-1-TB**	4.8	5.4	8.9	2,500
25	**25FXY-RSM1-GAN-1-TB**	6.6	7.2	10.7	2,500
27	**27FXY-RSM1-GAN-1-TB**	7.2	7.8	11.3	2,500
31	**31FXY-RSM1-GAN-1-TB**	8.4	9.0	12.5	2,500
33	**33FXY-RSM1-GAN-1-TB**	9.0	9.6	13.1	2,500
37	**37FXY-RSM1-GAN-1-TB**	10.2	10.8	14.3	2,500
39	**39FXY-RSM1-GAN-1-TB**	10.8	11.4	14.9	2,500
45	**45FXY-RSM1-GAN-1-TB**	12.6	13.2	16.7	2,500
51	**51FXY-RSM1-GAN-1-TB**	14.4	15.0	18.5	2,500

Material and Finish
Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe) Cover: PPS, UL94V-0 Housing: LCP, UL94V-0 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FPC



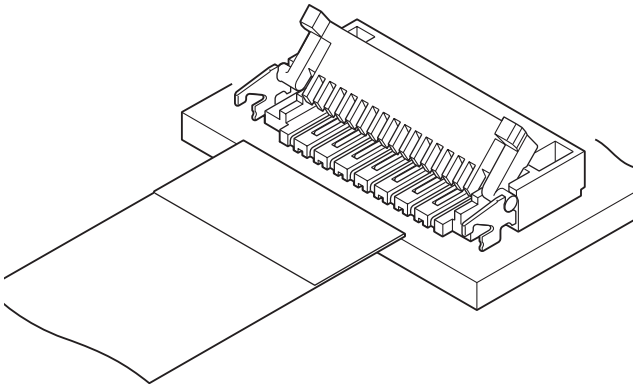
Circuits	Dimensions (mm)				
	A	B	C	D	E
19	4.8	5.4	6.0	6.3	7.2
25	6.6	7.2	7.8	8.1	9.0
27	7.2	7.8	8.4	8.7	9.6
31	8.4	9.0	9.6	9.9	10.8
33	9.0	9.6	10.2	10.5	11.4
37	10.2	10.8	11.4	11.7	12.6
45	12.6	13.2	13.8	14.1	15.0
51	14.4	15.0	15.6	15.9	16.8

FXR CONNECTOR

Emboss Tape

ZIF TYPE

0.3mm pitch/Connectors for FPC



This FXR connector is a ZIF type connector for FPC with only 1.0mm height.

- ***Low profile and ZIF mechanism***
- ***Space saving design***
- ***Heat resisting design suitable for surface mounting***

Specifications

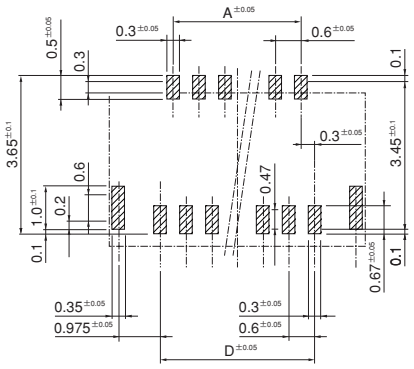
- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
  After environmental testing/50m Ω max.
  (variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
  Conductor width/0.3mm
  Mating part thickness/0.2±0.03mm

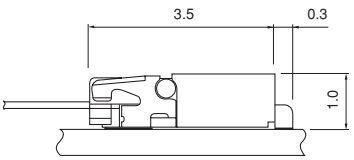
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

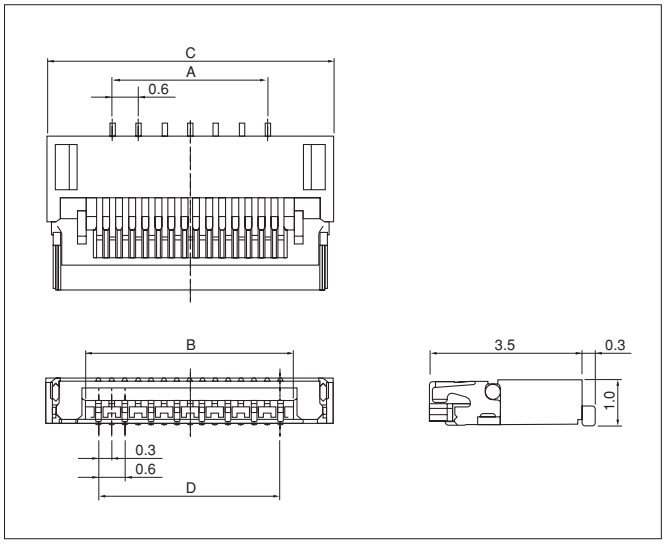
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Connector



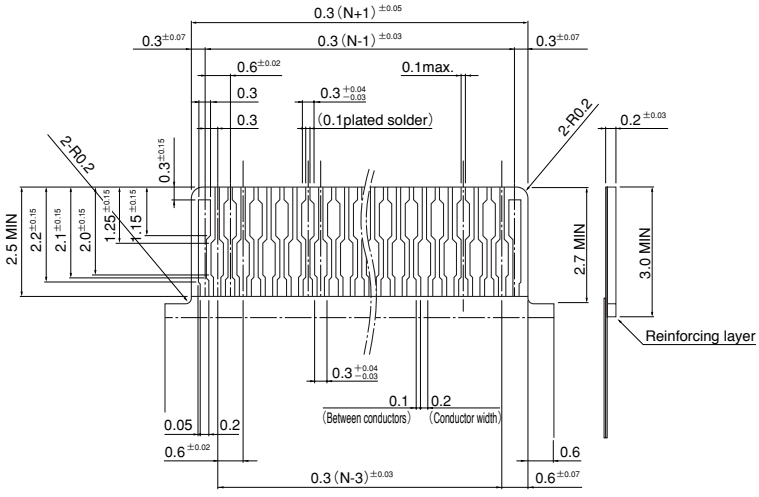
Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
11	**11FXR-RSM1-GAN-TB**	2.4	3.6	5.4	3.0	5,000
13	**13FXR-RSM1-GAN-TB**	3.0	4.2	6.0	3.6	5,000
15	**15FXR-RSM1-GAN-TB**	3.6	4.8	6.6	4.2	5,000
17	**17FXR-RSM1-GAN-TB**	4.2	5.4	7.2	4.8	5,000
19	**19FXR-RSM1-GAN-TB**	4.8	6.0	7.8	5.4	5,000
21	**21FXR-RSM1-GAN-TB**	5.4	6.6	8.4	6.0	5,000
23	**23FXR-RSM1-GAN-TB**	6.0	7.2	9.0	6.6	5,000
25	**25FXR-RSM1-GAN-TB**	6.6	7.8	9.6	7.2	5,000
27	**27FXR-RSM1-GAN-TB**	7.2	8.4	10.2	7.8	5,000
29	**29FXR-RSM1-GAN-TB**	7.8	9.0	10.8	8.4	5,000
31	**31FXR-RSM1-GAN-TB**	8.4	9.6	11.4	9.0	5,000
33	**33FXR-RSM1-GAN-TB**	9.0	10.2	12.0	9.6	5,000
35	**35FXR-RSM1-GAN-TB**	9.6	10.8	12.6	10.2	5,000
37	**37FXR-RSM1-GAN-TB**	10.2	11.4	13.2	10.8	5,000
39	**39FXR-RSM1-GAN-TB**	10.8	12.0	13.8	11.4	5,000
45	**45FXR-RSM1-GAN-TB**	12.6	13.8	15.6	13.2	5,000
47	**47FXR-RSM1-GAN-TB**	13.2	14.4	16.2	13.8	5,000
51	**51FXR-RSM1-GAN-TB**	14.4	15.6	17.4	15.0	5,000

Material and Finish

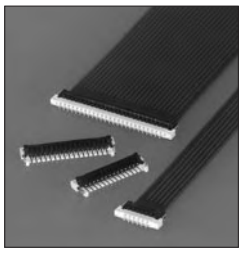
Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
Cover: PPS, UL94V-0
Housing: LCP, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN)(S)(1) on a label.*

Lead section dimensions of FPC



Note: N --- Number of circuits

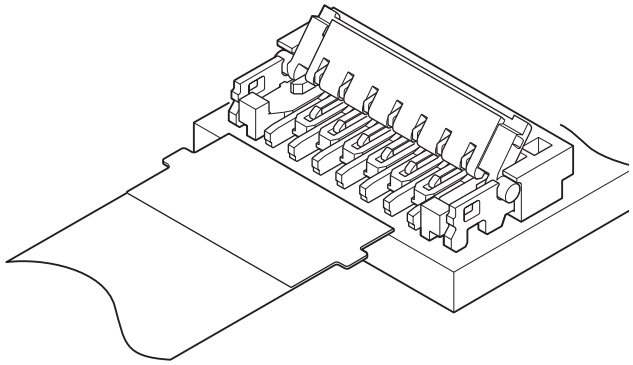


FXV CONNECTOR

Emboss Tape

ZIF TYPE

0.3mm pitch/Connectors for FPC



The FXV connector is a market require space saving and low profile 0.3mm pitch connector, and designed for corresponding to FPC with protrusions. As FPC with protrusions is used for this FXV connector, easy insertion operation, protection of incomplete insertion and miss-insertion are realized.

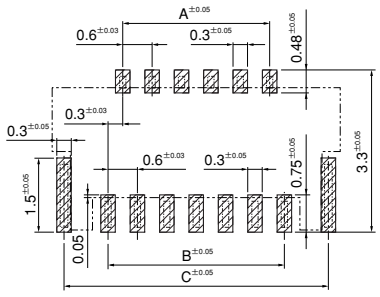
- ***Double ZIF design for easy insertion operation of FPC***
- ***Self-lock cover design***
- ***Low profile and space saving***
- ***FPC with protrusions***

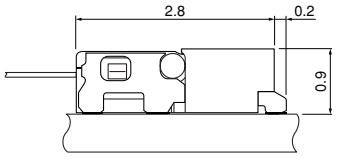
Specifications ––––––––––––––––––

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max.
  After environmental testing/60m Ω max.
  (variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
  Conductor width/0.3mm
  Mating part thickness/0.2±0.03mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

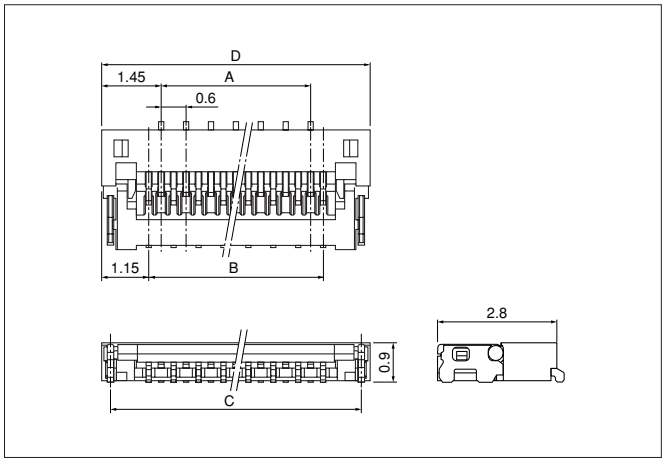
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

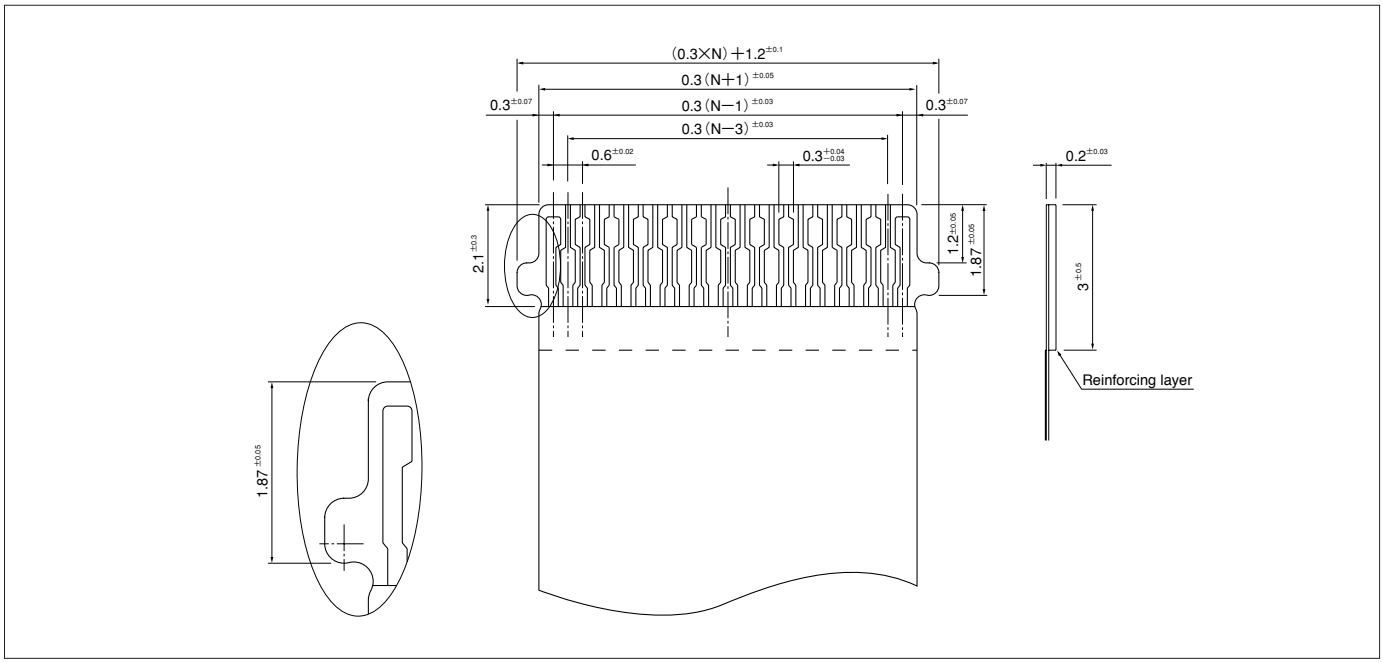


Circuits	Model No.	Dimensions (mm)				Q'ty / reel
		A	B	C	D	
11	**11FXV-RSM1-GAN-TF**	2.4	3.0	4.82	5.3	5,000
17	**17FXV-RSM1-GAN-TF**	4.2	4.8	6.62	7.1	5,000
21	**21FXV-RSM1-GAN-TF**	5.4	6.0	7.82	8.3	5,000
25	**25FXV-RSM1-GAN-TF**	6.6	7.2	9.02	9.5	5,000
27	**27FXV-RSM1-GAN-TF**	7.2	7.8	9.62	10.1	5,000
31	**31FXV-RSM1-GAN-TF**	8.4	9.0	10.82	11.3	5,000
33	**33FXV-RSM1-GAN-TF**	9.0	9.6	11.42	11.9	5,000
39	**39FXV-RSM1-GAN-TF**	10.8	11.4	13.22	13.7	5,000
43	**43FXV-RSM1-GAN-TF**	12.0	12.6	14.42	14.9	5,000
51	**51FXV-RSM1-GAN-TF**	14.4	15.0	16.82	17.3	5,000

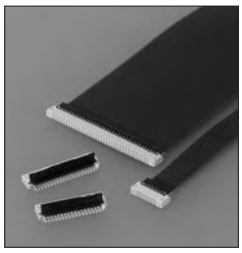
Material and Finish
Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover: Heat resisting resin, UL94V-0

RoHS compliance *This product displays (LF)(SN)(M) on a label.*
This products listed above are supplied on embossed-tape.

Lead section dimensions of FPC



Note: N --- Number of circuits

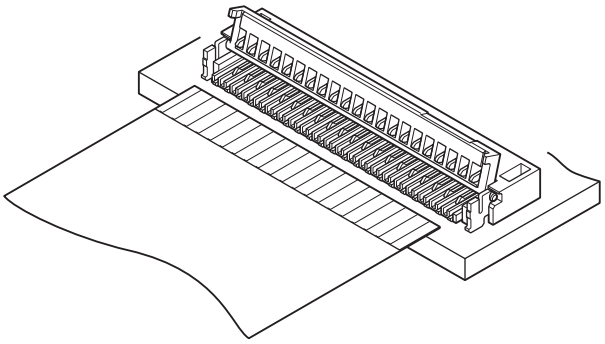


FXZ CONNECTOR

Emboss Tape

ZIF TYPE

0.3mm pitch/Connectors for FPC



This connector realizes space saving and low profile features demanded by the market, and it provides excellent operability. Various number of circuits can be available.

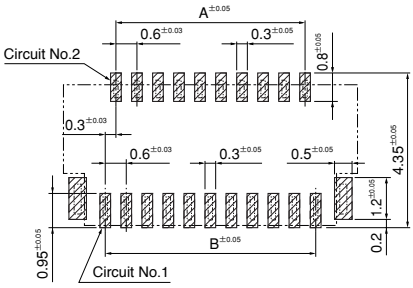
- ***Double ZIF design for easy insertion operation of FPC***
- ***Self-lock mechanism enables the cover to close by 'one-touch' operation***
- ***Versatile number of circuit***

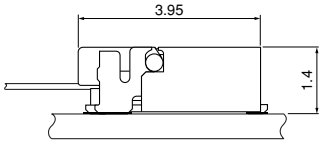
Specifications ––––––––––––––––––

- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max.
  After environmental testing/60m Ω max.
  (variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
  Conductor width/0.3mm
  Mating part thickness/0.2±0.03mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

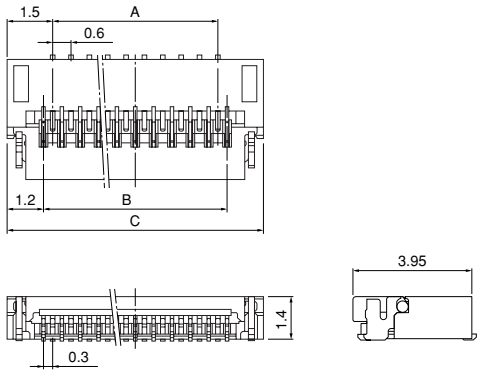
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

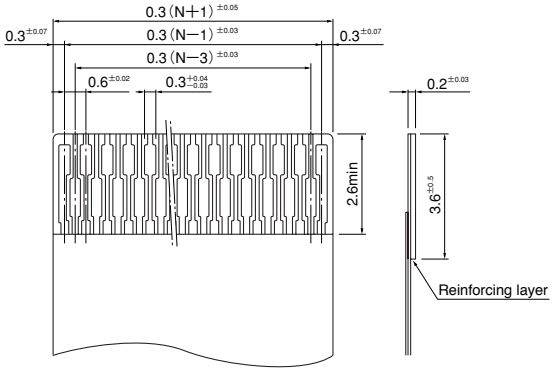


Circuits	Model No.	Dimensions (mm)			Q'ty/ reel
		A	B	C	
15	**15FXZ-RSM1-GAN-ETF**	3.6	4.2	6.6	2,500
17	**17FXZ-RSM1-GAN-ETF**	4.2	4.8	7.2	2,500
23	**23FXZ-RSM1-GAN-ETF**	6.0	6.6	9.0	2,500
25	**25FXZ-RSM1-GAN-ETF**	6.6	7.2	9.6	2,500
29	**29FXZ-RSM1-GAN-ETF**	7.8	8.4	10.8	2,500
31	**31FXZ-RSM1-GAN-ETF**	8.4	9.0	11.4	2,500
35	**35FXZ-RSM1-GAN-ETF**	9.6	10.2	12.6	2,500
39	**39FXZ-RSM1-GAN-ETF**	10.8	11.4	13.8	2,500
51	**51FXZ-RSM1-GAN-ETF**	14.4	15.0	17.4	2,500
53	**53FXZ-RSM1-GAN-ETF**	15.0	15.6	18.0	2,500
61	**61FXZ-RSM1-GAN-ETF**	17.4	18.0	20.4	2,500
73	**73FXZ-RSM1-GAN-ETF**	21.0	21.6	24.0	2,500

Material and Finish
Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe) Housing: Heat resisting resin, UL94V-0 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Cover: Heat resisting resin, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*
This products listed above are supplied on embossed-tape.

Lead section dimensions of FPC



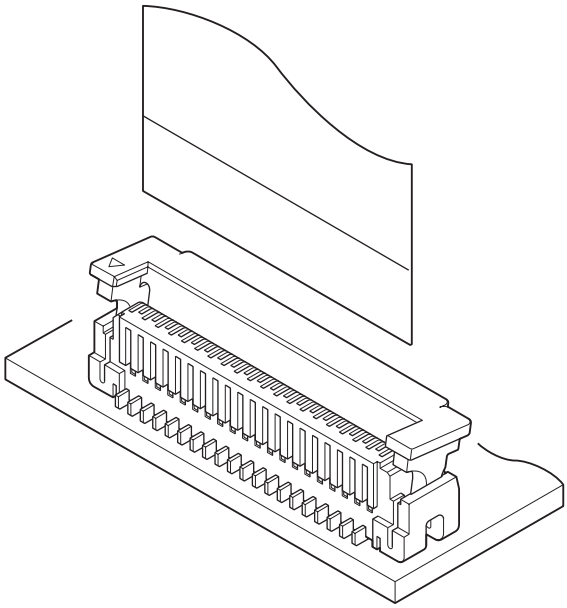
Note: N --- Number of circuits

FXZT CONNECTOR

Emboss Tape

ZIF TYPE

0.3mm pitch/Connectors for FPC



Vertical 0.3mm pitch ZIF type connector. This connector was mainly developed to connect FPC and subminiature digital products such as DVC, DSC, PDAs and so on.

- ***Vertical ZIF type FPC connector***
- ***Space saving***
- ***Adoption of slider structure***

Specifications

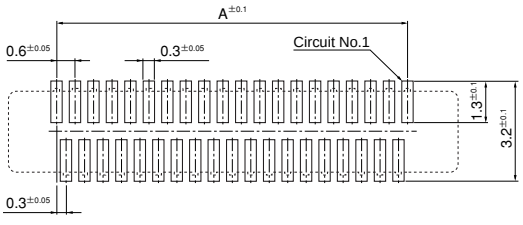
- Current rating: 0.2A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
  After environmental testing/50m Ω max.
  (variation from initial value)
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.3mm
  <0.6mm pitch staggered>
  Conductor width/0.3mm
  Mating part thickness/0.2±0.03mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

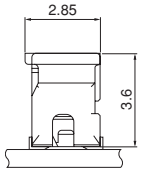
Standards

Recognized E60389

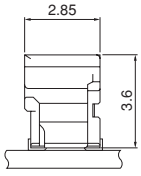
PC board layout (viewed from component side) and Assembly layout



Inner lock type
(39 circuits or less)



Outer lock type
(41 circuits or more)

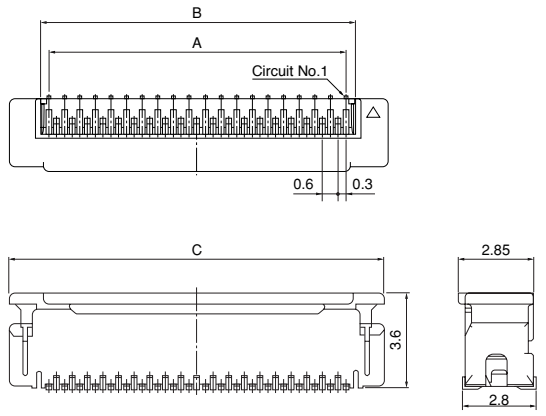


Note: 1. Tolerances are non-cumulative: ±0.1mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Inner lock type

(39 circuits or less)



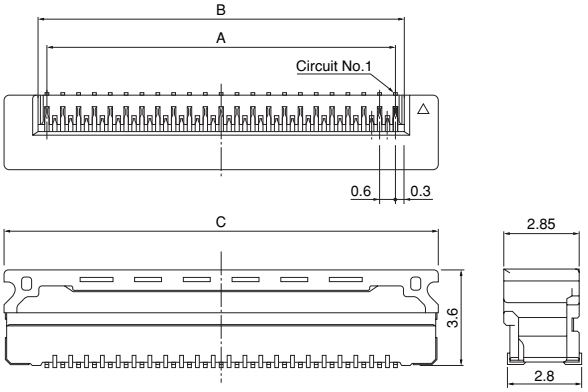
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
17	**17FXZT-SM1-GAN-TF**	4.8	5.4	8.0	2,000
21	**21FXZT-SM1-GAN-TF**	6.0	6.6	9.2	2,000
23	**23FXZT-SM1-GAN-TF**	6.6	7.2	9.8	2,000
25	**25FXZT-SM1-GAN-TF**	7.2	7.8	10.4	2,000
27	**27FXZT-SM1-GAN-TF**	7.8	8.4	11.0	2,000
31	**31FXZT-SM1-GAN-TF**	9.0	9.6	12.2	2,000
33	**33FXZT-SM1-GAN-TF**	9.6	10.2	12.8	2,000
39	**39FXZT-SM1-GAN-TF**	11.4	12.0	14.6	2,000

Material and Finish
Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe) Slider housing: Heat resisting resin, UL94V-0, black Socket housing: Heat resisting resin, UL94V-0, natural

RoHS compliance *This product displays (LF)(SN) on a label.*

Outer lock type

(41 circuits or more)

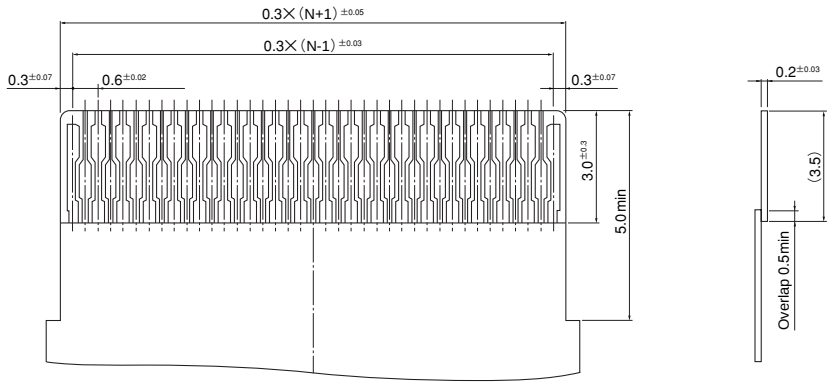


Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
45	**45FXZT-SM1-GAN-TF**	13.2	13.8	16.4	2,000
51	**51FXZT-SM1-GAN-TF**	15.0	15.6	18.2	2,000

Material and Finish
Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe) Slider housing: Heat resisting resin, UL94V-0, black Socket housing: Heat resisting resin, UL94V-0, natural

RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FPC



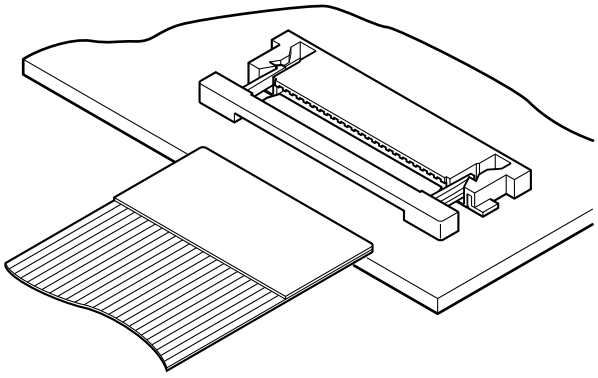
Note: N---Number of circuits

FLH CONNECTOR

Emboss Tape

ZIF TYPE

0.5mm pitch/Connectors for FPC



Compact connector with just 1.2mm high after mounting on the PC board.

- ***Thin design***
- ***Heat resisting design suitable for surface mounting***
- ***In-line surface mounting***
- ***Two types of connections***
- ***Embossed tape for automatic mounting***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
  After environmental testing/60m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
  Conductor width/0.35mm
  Mating part thickness/0.30±0.03mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

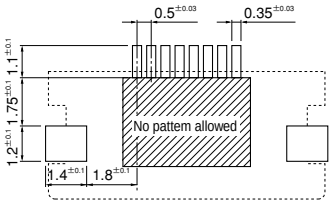
* Contact JST for details.

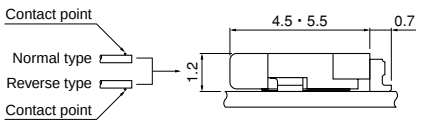
Standards

Recognized E60389

Certified LR20812

PC board layout (viewed from component side) and Assembly layout

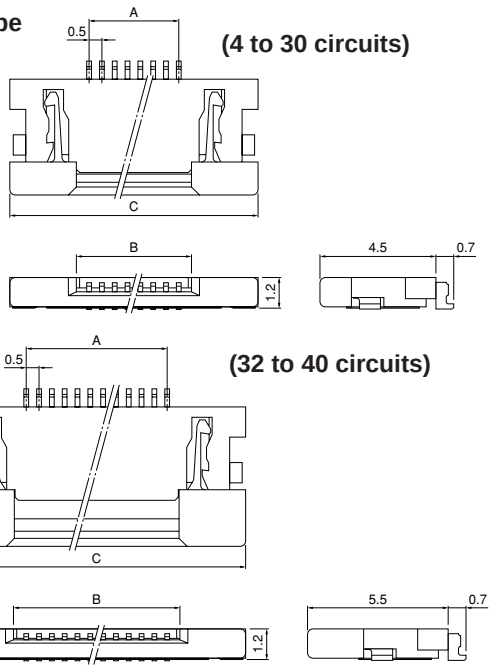




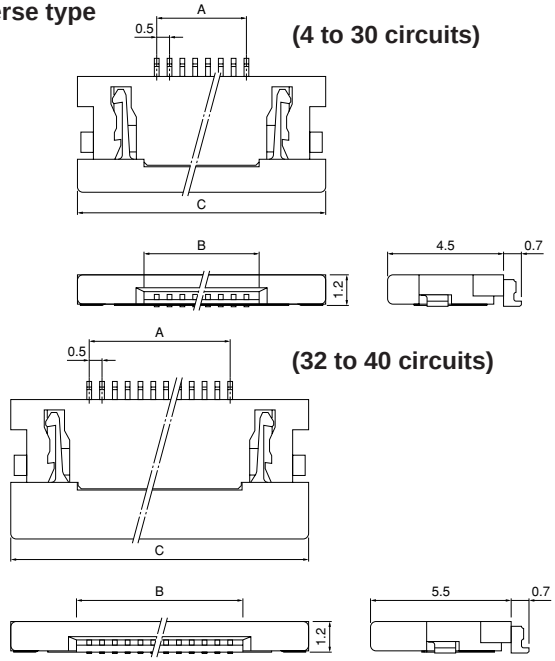
Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Normal type



Reverse type

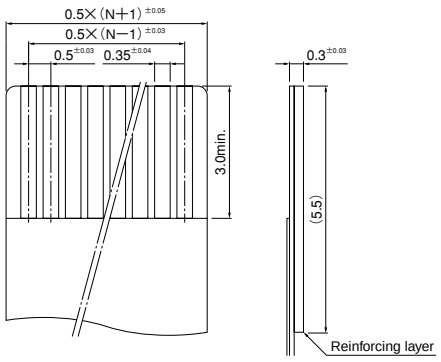


Circuits	Model No.		Dimensions (mm)			Q'ty / reel
	Normal type	Reverse type	A	B	C	
4	**04FLH-SM1-TB**	**04FLH-RSM1-TB**	1.5	2.55	7.7	3,000
6	**06FLH-SM1-TB**	**06FLH-RSM1-TB**	2.5	3.55	8.7	3,000
7	**07FLH-SM1-TB**	**07FLH-RSM1-TB**	3.0	4.05	9.2	3,000
8	**08FLH-SM1-TB**	**08FLH-RSM1-TB**	3.5	4.55	9.7	3,000
10	**10FLH-SM1-TB**	**10FLH-RSM1-TB**	4.5	5.55	10.7	3,000
11	**11FLH-SM1-TB**	**11FLH-RSM1-TB**	5.0	6.05	11.2	3,000
12	**12FLH-SM1-TB**	**12FLH-RSM1-TB**	5.5	6.55	11.7	3,000
13	**13FLH-SM1-TB**	**13FLH-RSM1-TB**	6.0	7.05	12.2	3,000
14	**14FLH-SM1-TB**	**14FLH-RSM1-TB**	6.5	7.55	12.7	3,000
15	**15FLH-SM1-TB**	**15FLH-RSM1-TB**	7.0	8.05	13.2	3,000
16	**16FLH-SM1-TB**	**16FLH-RSM1-TB**	7.5	8.55	13.7	3,000
17	**17FLH-SM1-TB**	**17FLH-RSM1-TB**	8.0	9.05	14.2	3,000
18	**18FLH-SM1-TB**	**18FLH-RSM1-TB**	8.5	9.55	14.7	3,000
19	—	**19FLH-RSM1-TB**	9.0	10.05	15.2	3,000
20	**20FLH-SM1-TB**	**20FLH-RSM1-TB**	9.5	10.55	15.7	3,000
21	**21FLH-SM1-TB**	—	10.0	11.05	16.2	3,000
22	**22FLH-SM1-TB**	**22FLH-RSM1-TB**	10.5	11.55	16.7	3,000
24	**24FLH-SM1-TB**	**24FLH-RSM1-TB**	11.5	12.55	17.7	3,000
26	**26FLH-SM1-TB**	—	12.5	13.55	18.7	3,000
28	**28FLH-SM1-TB**	**28FLH-RSM1-TB**	13.5	14.55	19.7	3,000
30	**30FLH-SM1-TB**	**30FLH-RSM1-TB**	14.5	15.55	20.7	3,000
32	**32FLH-SM1-TB**	**32FLH-RSM1-TB**	15.5	16.55	21.7	3,000
34	—	**34FLH-RSM1-TB**	16.5	17.55	22.7	3,000
40	**40FLH-SM1-TB**	**40FLH-RSM1-TB**	19.5	20.55	25.7	3,000

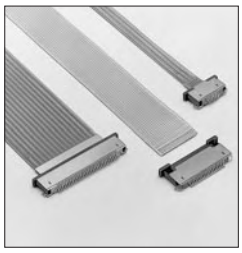
Material and Finish
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Housing: LCP, UL94V-0 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Slider: PA 6T, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: The products listed above are supplied on embossed tape.

Lead section dimensions of FPC



Note: N --- Number of circuits

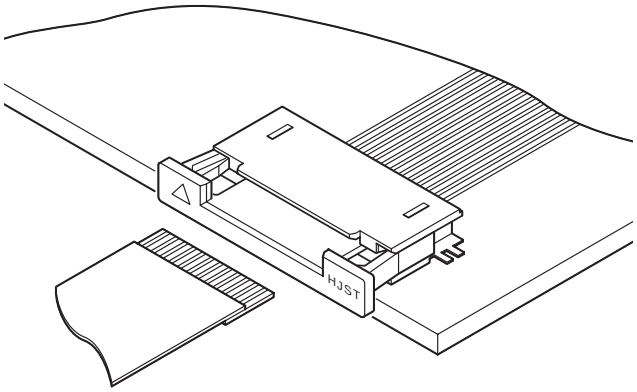


FLZ CONNECTOR

Emboss Tape

ZIF TYPE

0.5mm pitch/Connectors for FFC and FPC



This extremely small 0.5mm pitch connector with a height of only 2.0mm above the PCB surface allows interconnection in extremely small spaces and is an example of JST's leading edge technology.

- ***Zero insertion force mechanism***
- ***Heat resisting design suitable for surface mounting***
- ***In-line surface mount tails***
- ***Two types of connections***
- ***Embossed tape for automatic mounting***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max. After environmental testing/60m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FFC and FPC: Conductor pitch/0.5mm Conductor width/0.35mm Mating part thickness/0.30±0.03mm

Note: FFC and FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

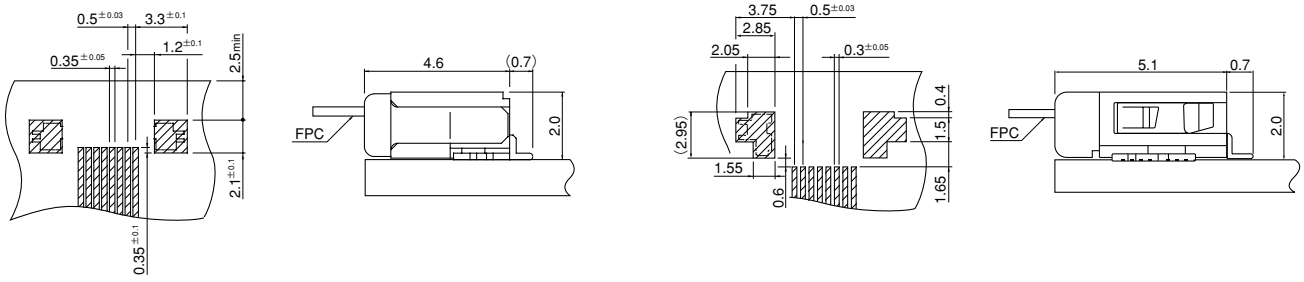
Standards

Recognized E60389

Certified LR20812

PC board layout (viewed from component side) and Assembly layout

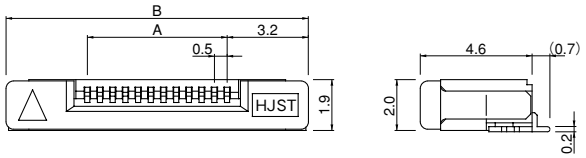
Inner lock type



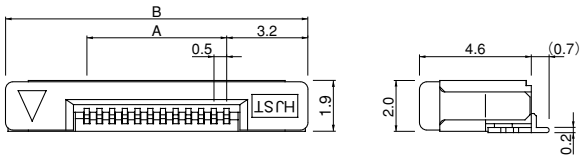
Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Normal type

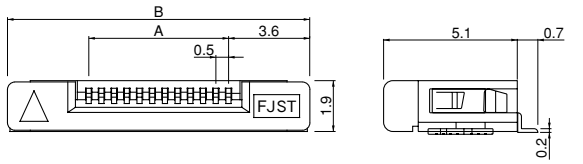


Reverse type

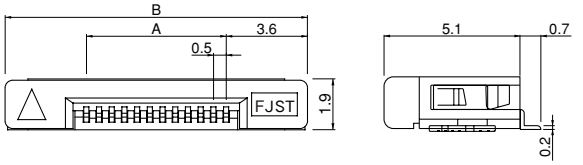


<Inner lock type>

Normal type



Reverse type



Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Normal type	Reverse type	A	B	
6	**06FLZ-SM2-TB**	**06FLZ-RSM2-TB**	2.5	8.9	2,000
7	**07FLZ-SM2-TB**	**07FLZ-RSM2-TB**	3.0	9.4	2,000
8	**08FLZ-SM2-TB**	**08FLZ-RSM2-TB**	3.5	9.9	2,000
9	**09FLZ-SM2-TB**	**09FLZ-RSM2-TB**	4.0	10.4	2,000
10	**10FLZ-SM2-TB**	**10FLZ-RSM2-TB**	4.5	10.9	2,000
11	**11FLZ-SM2-TB**	**11FLZ-RSM2-TB**	5.0	11.4	2,000
12	**12FLZ-SM2-TB**	**12FLZ-RSM2-TB**	5.5	11.9	2,000
13	**13FLZ-SM2-TB**	**13FLZ-RSM2-TB**	6.0	12.4	2,000
14	**14FLZ-SM2-TB**	**14FLZ-RSM2-TB**	6.5	12.9	2,000
15	**15FLZ-SM2-TB**	**15FLZ-RSM2-TB**	7.0	13.4	2,000
16	**16FLZ-SM2-TB**	**16FLZ-RSM2-TB**	7.5	13.9	2,000
17	**17FLZ-SM2-TB**	**17FLZ-RSM2-TB**	8.0	14.4	2,000
18	**18FLZ-SM2-TB**	**18FLZ-RSM2-TB**	8.5	14.9	2,000
19	**19FLZ-SM2-TB**	**19FLZ-RSM2-TB**	9.0	15.4	2,000
20	**20FLZ-SM2-TB**	**20FLZ-RSM2-TB**	9.5	15.9	2,000
21	**21FLZ-SM2-TB**	**21FLZ-RSM2-TB**	10.0	16.4	2,000
22	**22FLZ-SM2-TB**	**22FLZ-RSM2-TB**	10.5	16.9	2,000
23	**23FLZ-SM2-TB**	**23FLZ-RSM2-TB**	11.0	17.4	2,000
24	**24FLZ-SM2-TB**	**24FLZ-RSM2-TB**	11.5	17.9	2,000
25	**25FLZ-SM2-TB**	**25FLZ-RSM2-TB**	12.0	18.4	2,000
26	**26FLZ-SM2-TB**	**26FLZ-RSM2-TB**	12.5	18.9	2,000
27	**27FLZ-SM2-TB**	**27FLZ-RSM2-TB**	13.0	19.4	2,000
28	**28FLZ-SM2-TB**	**28FLZ-RSM2-TB**	13.5	19.9	2,000
30	**30FLZ-SM2-TB**	**30FLZ-RSM2-TB**	14.5	20.9	2,000
33	**33FLZ-SM2-TB**	—	16.0	22.4	2,000

<Inner lock type>

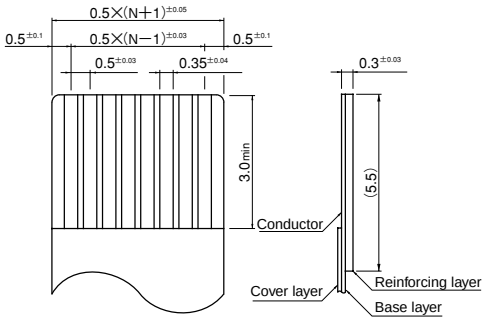
Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Normal type	Reverse type	A	B	
13	—	**13FLZ-RSM2-R-TB**	6.0	13.1	2,000
30	**30FLZ-SM2-R-TB**	—	14.5	21.6	2,000
32	**32FLZ-SM2-R-TB**	**32FLZ-RSM2-R-TB**	15.5	22.6	2,000
34	**34FLZ-SM2-R-TB**	**34FLZ-RSM2-R-TB**	16.5	23.6	2,000
36	**36FLZ-SM2-R-TB**	**36FLZ-RSM2-R-TB**	17.5	24.6	2,000
40	**40FLZ-SM2-R-TB**	**40FLZ-RSM2-R-TB**	19.5	26.6	2,000
42	**42FLZ-SM2-R-TB**	—	20.5	27.6	2,000
45	**45FLZ-SM2-R-TB**	—	22.0	29.1	2,000
50	**50FLZ-SM2-R-TB**	—	24.5	31.6	2,000

Material and Finish
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) Slider housing: PA 6T, UL94V-0 (black) Housing: PA 6T, UL94V-0 Nomal type···gray Reverse type···natural Solder tab: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Note: The products listed above are supplied on embossed tape.

Lead section dimensions of FFC and FPC



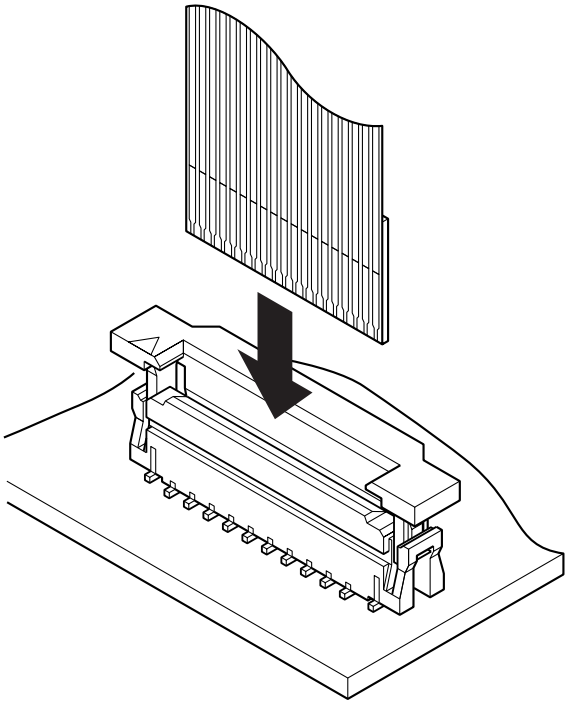
Note: N --- Number of circuits

FLZT CONNECTOR

Emboss Tape

ZIF TYPE

0.5mm pitch/Connectors for FPC



Vertical 0.5mm pitch ZIF type connector with staggered solder tails. Both normal type and reverse type are available.

- ***Zero insertion force mechanism***
- ***Two types of connections***
- ***Heat resisting design suitable for surface mounting***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
  After environmental testing/40m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
  Conductor width/0.35mm
  Mating part thickness/0.3±0.05mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

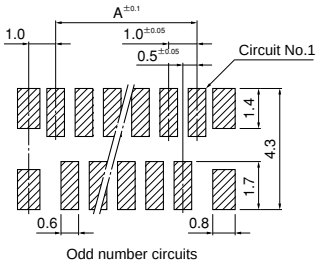
Standards

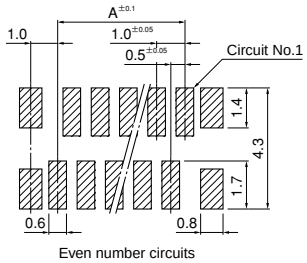
Recognized E60389

Certified LR20812

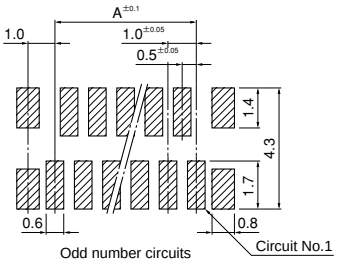
PC board layout (viewed from component side) and Assembly layout

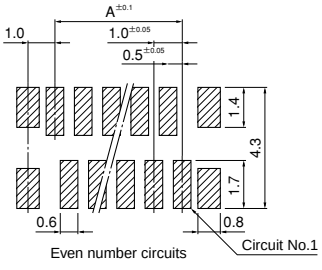
Normal type

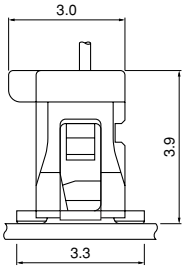




Reverse type



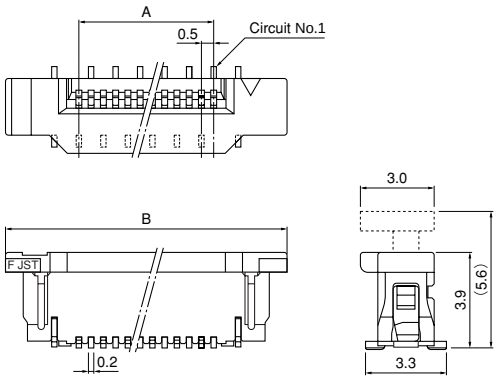




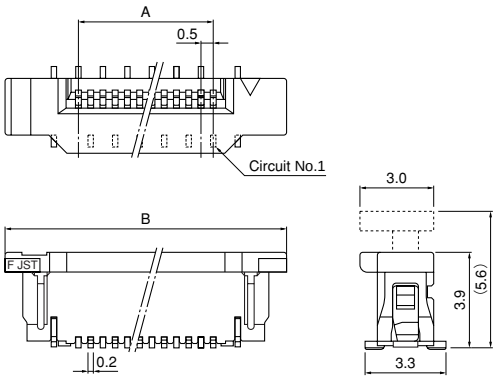
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Normal type



Reverse type

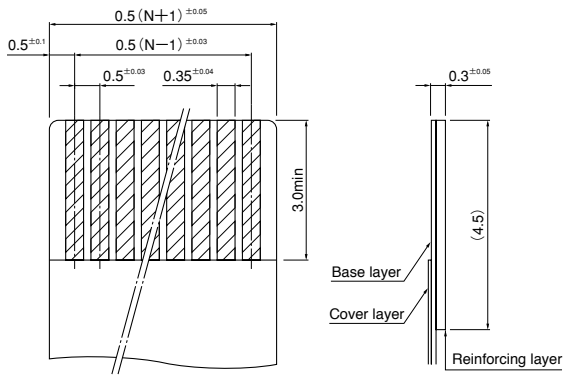


Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Normal type	Reverse type	A	B	
6	**06FLZT-SM1-TF**	**06FLZT-RSM1-TF**	2.5	8.5	1,500
8	**08FLZT-SM1-TF**	**08FLZT-RSM1-TF**	3.5	9.5	1,500
10	**10FLZT-SM1-TF**	**10FLZT-RSM1-TF**	4.5	10.5	1,500
12	**12FLZT-SM1-TF**	**12FLZT-RSM1-TF**	5.5	11.5	1,500
14	**14FLZT-SM1-TF**	**14FLZT-RSM1-TF**	6.5	12.5	1,500
15	**15FLZT-SM1-TF**	**15FLZT-RSM1-TF**	7.0	13.0	1,500
16	**16FLZT-SM1-TF**	**16FLZT-RSM1-TF**	7.5	13.5	1,500
20	**20FLZT-SM1-TF**	**20FLZT-RSM1-TF**	9.5	15.5	1,500
22	**22FLZT-SM1-TF**	**22FLZT-RSM1-TF**	10.5	16.5	1,500
24	**24FLZT-SM1-TF**	**24FLZT-RSM1-TF**	11.5	17.5	1,500
28	**28FLZT-SM1-TF**	**28FLZT-RSM1-TF**	13.5	19.5	1,500
30	**30FLZT-SM1-TF**	**30FLZT-RSM1-TF**	14.5	20.5	1,500
37	**37FLZT-SM1-TF**	**37FLZT-RSM1-TF**	18.0	24.0	1,500
40	**40FLZT-SM1-TF**	**40FLZT-RSM1-TF**	19.5	25.5	1,500
42	**42FLZT-SM1-TF**	**42FLZT-RSM1-TF**	20.5	26.5	1,500

Material and Finish
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) Slider housing: PPS, UL94V-0 Nomal type...natural (brown) Reverse type...black Housing: PPS, UL94V-0, natural Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FPC



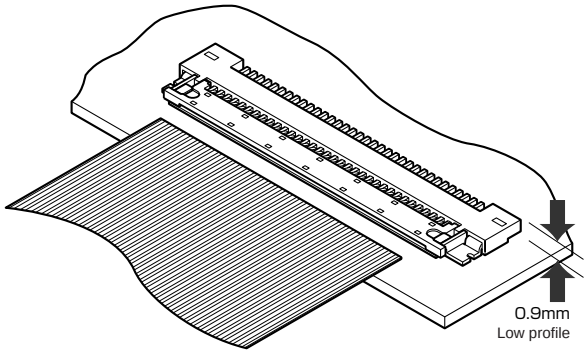
Note: N---Number of circuits

FHX CONNECTOR

Emboss Tape

ZIF TYPE

0.5mm pitch/Connectors for FPC



ZIF (zero insertion force) flip lock type connectors.

- ***Low-profile***
- ***Heat resisting design suitable for surface mounting***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max.
  After environmental testing/60m Ω max.
  (variation from initial value)
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
  Conductor width/0.35mm
  Mating part thickness/0.12±0.03mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

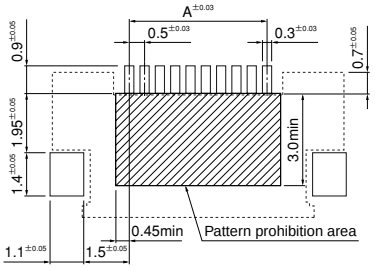
* Contact JST for details.

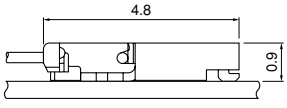
Standards

Recognized E60389

Certified LR20812

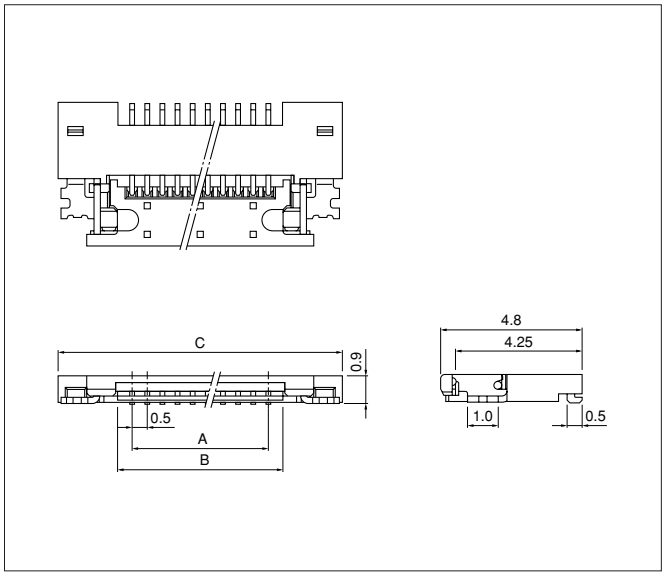
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guide line. Contact JST for details.

Connector

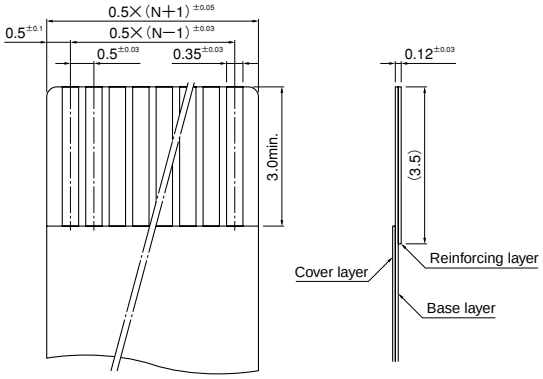


Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
19	**19FHX-RSM1-G-1-S-TB**	9.0	10.0	14.0	3,000
20	**20FHX-RSM1-G-1-S-TB**	9.5	10.5	14.5	3,000
24	**24FHX-RSM1-G-1-S-TB**	11.5	12.5	16.5	3,000
27	**27FHX-RSM1-G-1-S-TB**	13.0	14.0	18.0	3,000
34	**34FHX-RSM1-G-1-S-TB**	16.5	17.5	21.5	3,000
40	**40FHX-RSM1-G-1-S-TB**	19.5	20.5	24.5	3,000

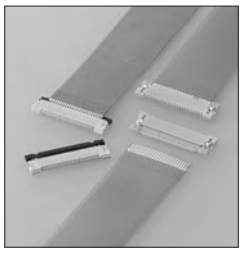
Material and Finish
Contact: Copper alloy, nickel-undercoated, gold-plated Housing: LCP, UL94V-0, natural (white) Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Cover: LCP, UL94V-0, black

RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FPC



Note: N --- Number of circuits

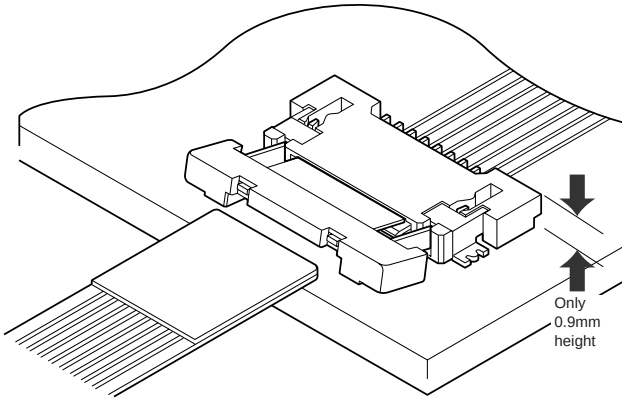


FHZ CONNECTOR

Emboss Tape

ZIF TYPE

0.5mm pitch/Connectors for FPC



Suitable for thin FPCs of 0.1mm, 0.12mm or 0.2mm thick.

- ***Low-profile***
- ***Circuit pattern can be designed under the connector***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
  After environmental testing/20m Ω max.
  (variation from initial value)
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
  Conductor width/0.35mm
  Mating part thickness/0.10±0.01mm
  0.12±0.03mm
  0.20±0.03mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

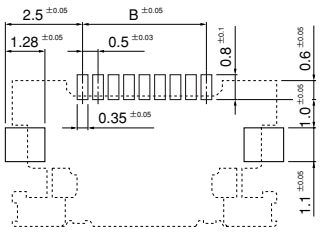
* Contact JST for details.

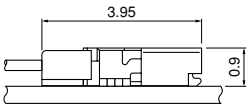
Standards

Recognized E60389

Certified LR20812

PC board layout (viewed from component side) and Assembly layout

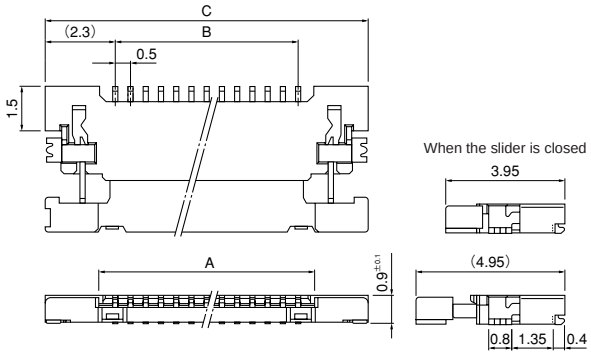




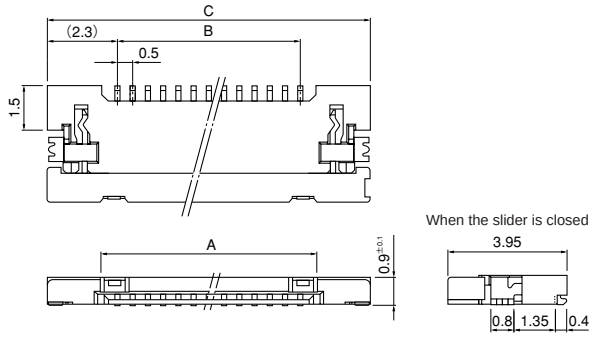
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guide line. Contact JST for details.

Connector

Normal type



Reverse type



Normal type

Slider	Circuits	Model No.	Dimensions (mm)			Applicable FPC thickness (mm)	Q'ty / reel
			A	B	C		
Opened	15	**15FHZ-SM1-S-TB (F)**	8.05	7.0	11.6	0.1	4,000
	24	**24FHZ-SM1-S-TB (F)**	12.55	11.5	16.1	0.1	4,000
	26	**26FHZ-SM1-S-TB (F)**	13.55	12.5	17.1	0.1	4,000
	29	**29FHZ-SM1-S-TB (F)**	15.05	14.0	18.6	0.1	4,000
Closed	24	**24FHZ-SM1-S-TB**	12.55	11.5	16.1	0.1	4,000
Opened	4	**04FHZ-SM1-TB (F)**	2.55	1.5	6.1	0.2	4,000
	15	**15FHZ-SM1-TB (F)**	8.05	7.0	11.6	0.2	4,000
	18	**18FHZ-SM1-TB (F)**	9.55	8.5	13.1	0.2	4,000
	29	**29FHZ-SM1-T-G-TB (F)**	15.05	14.0	18.6	0.12	4,000
	33	**33FHZ-SM1-T-TB (F)**	17.05	16.0	20.6	0.12	4,000
Closed	4	**04FHZ-SM1-TB**	2.55	1.5	6.1	0.2	4,000
	18	**18FHZ-SM1-TB**	9.55	8.5	13.1	0.2	4,000
	20	**20FHZ-SM1-TB**	10.55	9.5	14.1	0.2	4,000
	22	**22FHZ-SM1-TB**	11.55	10.5	15.1	0.2	4,000

Reverse type

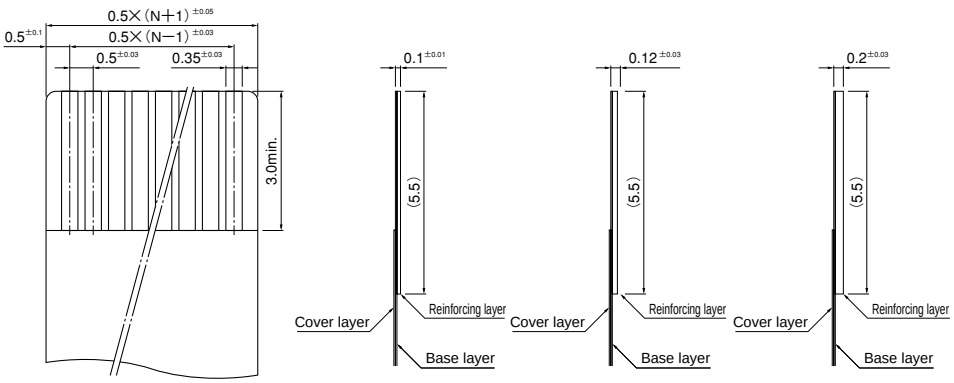
Slider	Circuits	Model No.	Dimensions (mm)			Applicable FPC thickness (mm)	Q'ty / reel
			A	B	C		
Closed	6	**06FHZ-RSM1-TB**	3.55	2.5	7.1	0.2	4,000
	8	**08FHZ-RSM1-TB**	4.55	3.5	8.1	0.2	4,000
	10	**10FHZ-RSM1-G-TB**	5.55	4.5	9.1	0.2	4,000
	18	**18FHZ-RSM1-TB**	9.55	8.5	13.1	0.2	4,000
	20	**20FHZ-RSM1-TB**	10.55	9.5	14.1	0.2	4,000
	22	**22FHZ-RSM1-TB**	11.55	10.5	15.1	0.2	4,000

Material and Finish

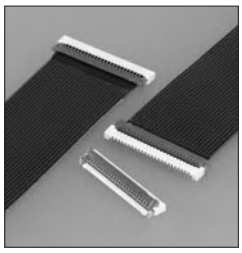
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
29FHZ-SM1-T-G-TB (F) and 10FHZ-RSM1-G-TB ··· nickel-undercoated, gold-plated (flash)
Housing: LCP, UL94V-0, Normal type...yellow
Reverse type...natural
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Slider: PA 9T, UL94V-0, Applicable FPC thickness 0.1 gray
Applicable FPC thickness 0.12 blue
Applicable FPC thickness 0.2 black
Slider arm: Stainless

RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FPC



Note: N --- Number of circuits

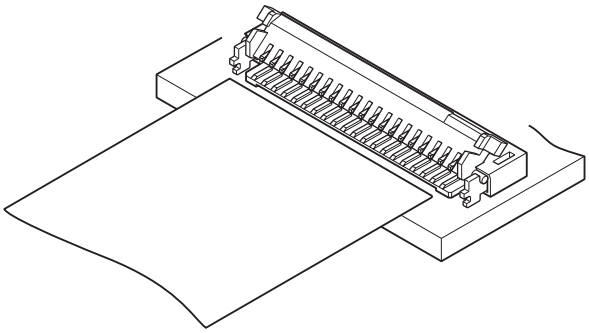


FHSY CONNECTOR

Emboss Tape

ZIF TYPE

0.5mm pitch/Connectors for FPC



This ZIF (zero insertion force) type flip lock FPC connector achieves a low profile feature of a 0.9mm mounting height despite the thickness of the FPC being 0.3mm.

- ***Space saving design***
- ***Heat resisting design suitable for surface mounting***
- ***Embossed tape for automatic mounting***

Specifications

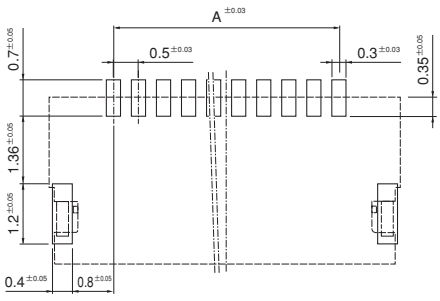
- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max.
  After environmental testing/60m Ω max.
  (variation from initial value)
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
  Conductor width/0.35mm
  Mating part thickness/0.3±0.05mm

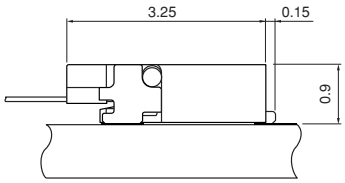
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

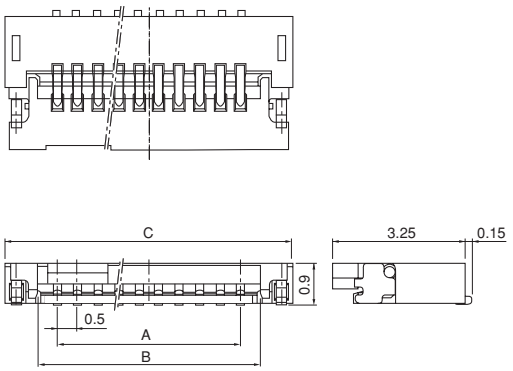
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

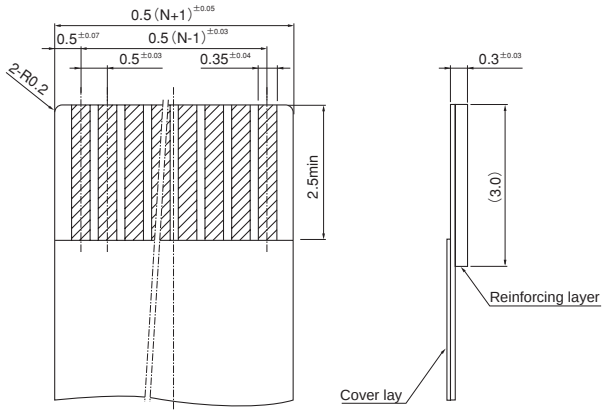


Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
5	**05FHSY-RSM1-GAN-TB**	2.0	3.0	4.56	3,000
6	**06FHSY-RSM1-GAN-TB**	2.5	3.5	5.06	3,000
11	**11FHSY-RSM1-GAN-TB**	5.0	6.0	7.56	3,000
12	**12FHSY-RSM1-GAN-TB**	5.5	6.5	8.06	3,000
16	**16FHSY-RSM1-GAN-TB**	7.5	8.5	10.06	3,000
18	**18FHSY-RSM1-GAN-TB**	8.5	9.5	11.06	3,000
20	**20FHSY-RSM1-GAN-TB**	9.5	10.5	12.06	3,000
24	**24FHSY-RSM1-GAN-TB**	11.5	12.5	14.06	3,000
28	**28FHSY-RSM1-GAN-TB**	13.5	14.5	16.06	3,000

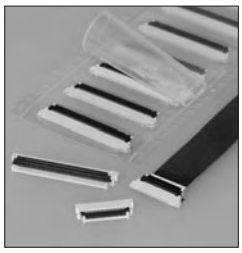
Material and Finish
Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe) Cover: Heat resisting resin, UL94V-0 Housing: Heat resisting resin, UL94V-0 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FPC



Note: N --- Number of circuits

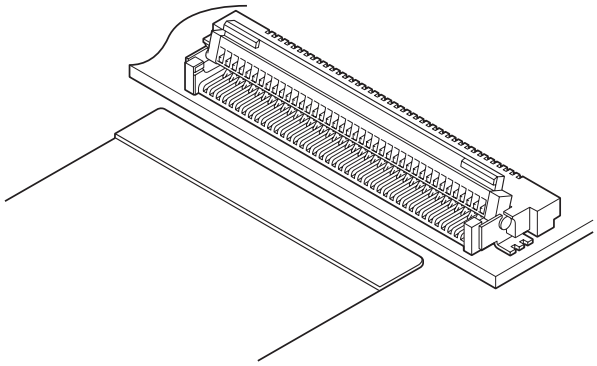


FLZX CONNECTOR

Emboss Tape

ZIF TYPE

0.5mm pitch/Connectors for FFC and FPC



The connector for the 0.3mm thickness FFC or FPC with a mounting height of 2.0mm.
This 0.5mm pitch FFC or FPC connector adopts a ZIF structure, which provides superior performance in durability and offers effective protection from wearing. The use of the rotating type cover contributes to easy operation especially with big circuits connectors.

- ***Rotating type cover***
- ***Reliable cover***
- ***Heat resisting design for surface mounting***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
  After environmental testing/60m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FFC and FPC: Conductor pitch/0.5mm
  Conductor width/0.35mm
  Mating part thickness/0.3±0.03mm

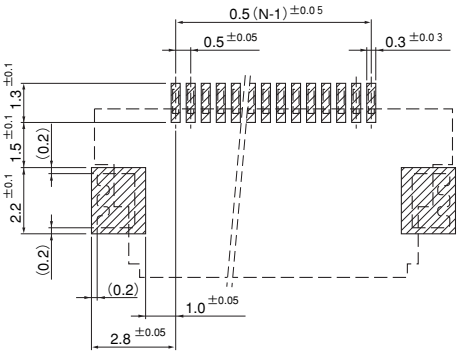
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

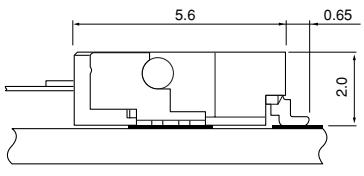
Standards

Recognized E60389

Certified LR20812

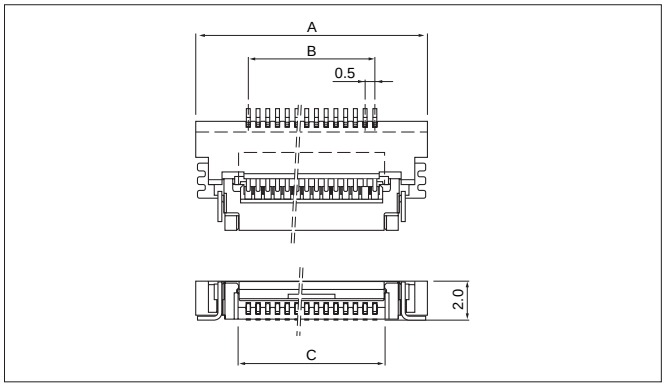
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.
3. N --- Number of circuits

Connector



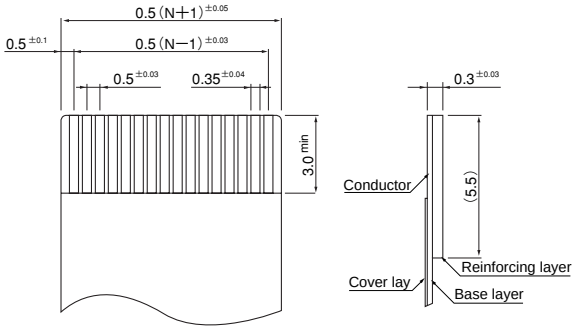
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
20	**20FLZX-RSM1-A-TB**	14.9	9.5	10.55	2,000
24	**24FLZX-RSM1-A-TB**	16.9	11.5	12.55	2,000
32	**32FLZX-RSM1-A-TB**	20.9	15.5	16.55	2,000
34	**34FLZX-RSM1-A-TB**	21.9	16.5	17.55	2,000
50	**50FLZX-RSM1-A-TB**	29.9	24.5	25.55	2,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover housing: Heat resisting resin, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FFC and FPC



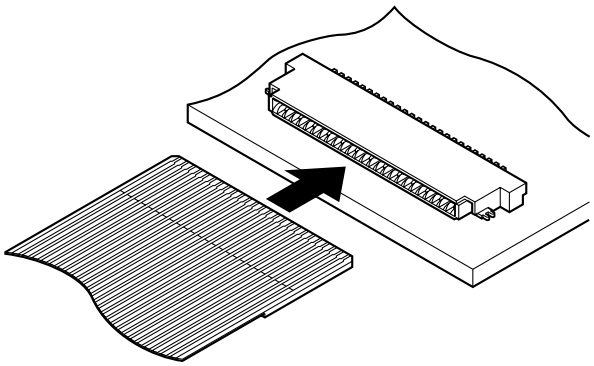
Note: N --- Number of circuits

FH CONNECTOR

0.5mm pitch/Connectors for FPC

Emboss Tape

NON-ZIF TYPE



The large miniaturization at pitch direction and depth direction and low profile as 1.2mm mounting height are realized. FH connector is miniaturized and space saving Non-ZIF type connector for FPC.

- ***Double-sided contact***
- ***Applicable to standard FPC***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
  After environmental testing/20m Ω max.
  (variation from initial value)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
  Conductor width/0.35mm
  Mating part thickness/0.3±0.05mm

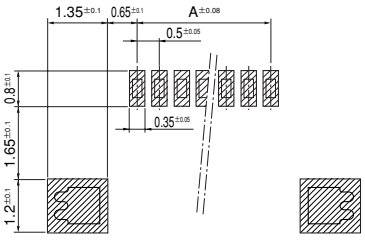
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

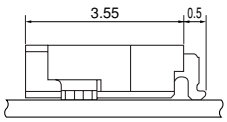
Standards

Recognized E60389

Certified LR20812

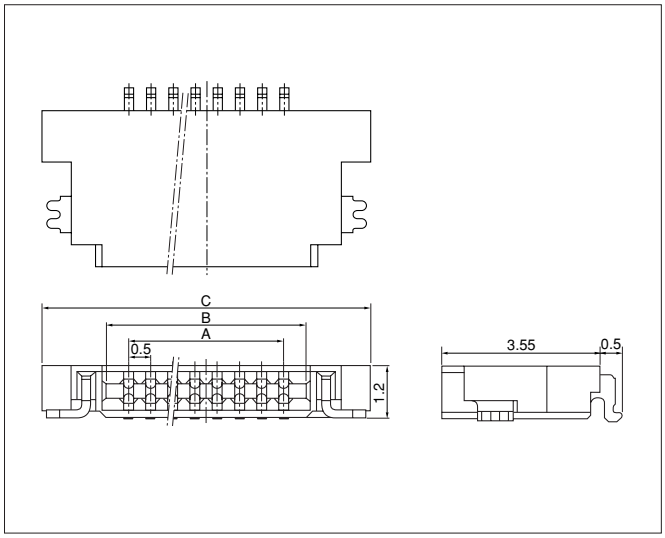
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.08mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

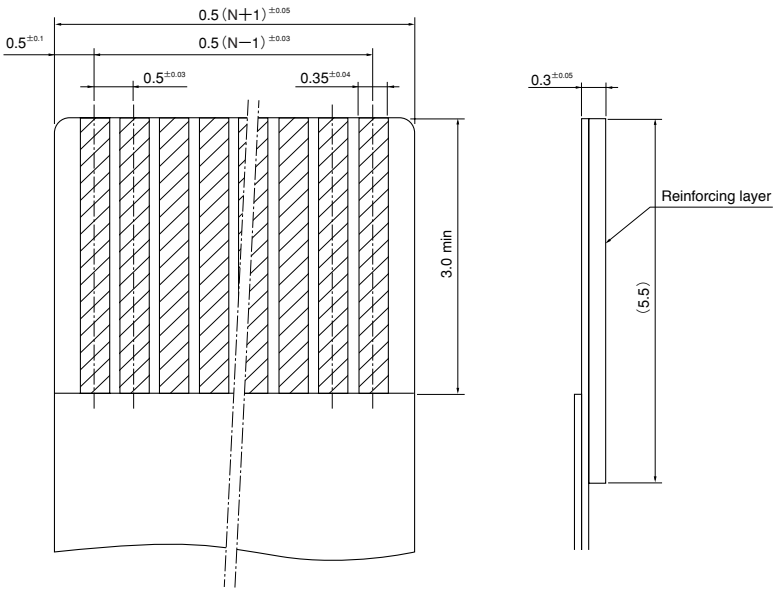


Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
5	**05FH-SM1-TB**	2.0	3.0	5.9	4,000
6	**06FH-SM1-TB**	2.5	3.5	6.4	4,000
7	**07FH-SM1-TB**	3.0	4.0	6.9	4,000
8	**08FH-SM1-TB**	3.5	4.5	7.4	4,000
10	**10FH-SM1-TB**	4.5	5.5	8.4	4,000
11	**11FH-SM1-TB**	5.0	6.0	8.9	4,000
12	**12FH-SM1-TB**	5.5	6.5	9.4	4,000
14	**14FH-SM1-TB**	6.5	7.5	10.4	4,000
16	**16FH-SM1-TB**	7.5	8.5	11.4	4,000
18	**18FH-SM1-TB**	8.5	9.5	12.4	4,000
20	**20FH-SM1-TB**	9.5	10.5	13.4	4,000
25	**25FH-SM1-TB**	12.0	13.0	15.9	4,000

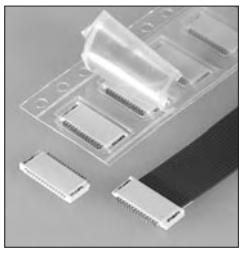
Material and Finish
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Housing: LCP, UL94V-0 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FPC



Note: N --- Number of circuits

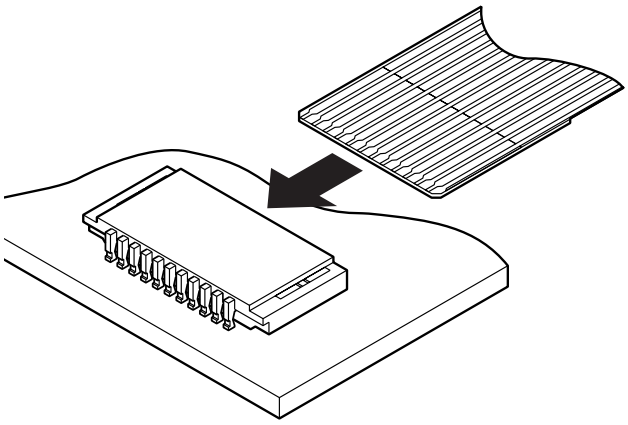


FHJ CONNECTOR

Emboss Tape

NON-ZIF TYPE

0.5mm pitch/Connectors for FPC



Non-ZIF type low profile of 1.2mm mounting height. 0.3mm thick standard type FPC is applicable.

- ***Compact mounting space***
- ***Heat resisting design suitable for surface mounting***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
  After environmental testing/20m Ω max.
  (variation from initial value)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
  Conductor width/0.35mm
  Mating part thickness/0.3±0.05mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

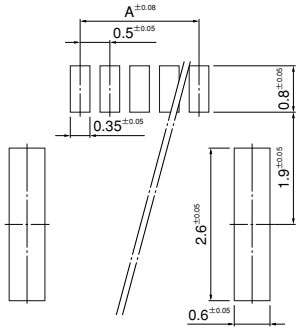
* Contact JST for details.

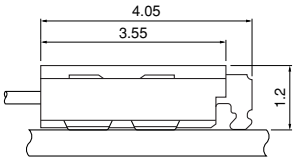
Standards

Recognized E60389

Certified LR20812

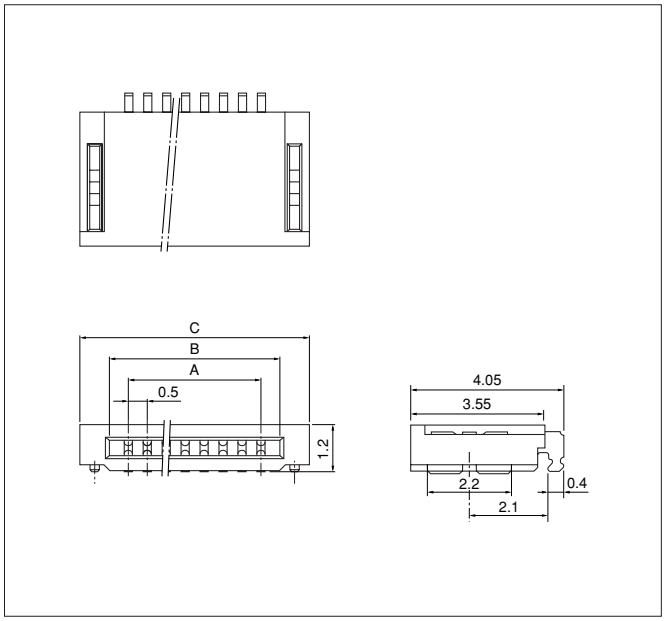
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.08mm for all centers.
2. The dimensions above should serve as a guide line. Contact JST for details.

Connector

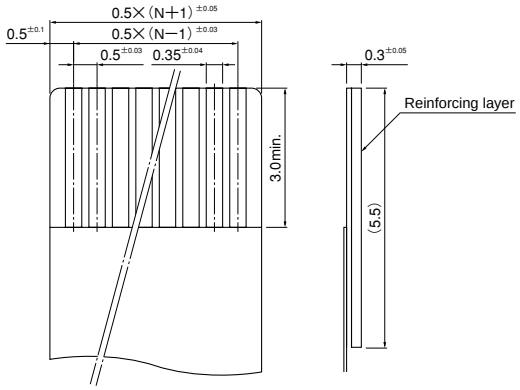


Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
5	**05FHJ-SM1-TB**	2.0	3.0	4.6	4,000
6	**06FHJ-SM1-TB**	2.5	3.5	5.1	4,000
7	**07FHJ-SM1-TB**	3.0	4.0	5.6	4,000
8	**08FHJ-SM1-TB**	3.5	4.5	6.1	4,000
10	**10FHJ-SM1-TB**	4.5	5.5	7.1	4,000
11	**11FHJ-SM1-TB**	5.0	6.0	7.6	4,000
12	**12FHJ-SM1-TB**	5.5	6.5	8.1	4,000
14	**14FHJ-SM1-TB**	6.5	7.5	9.1	4,000
16	**16FHJ-SM1-TB**	7.5	8.5	10.1	4,000
18	**18FHJ-SM1-TB**	8.5	9.5	11.1	4,000
20	**20FHJ-SM1-TB**	9.5	10.5	12.1	4,000
21	**21FHJ-SM1-TB**	10.0	11.0	12.6	4,000
24	**24FHJ-SM1-TB**	11.5	12.5	14.1	4,000

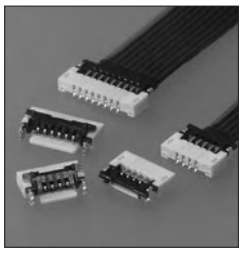
Material and Finish
Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Housing: LCP, UL94V-0 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FPC



Note: N --- Number of circuits

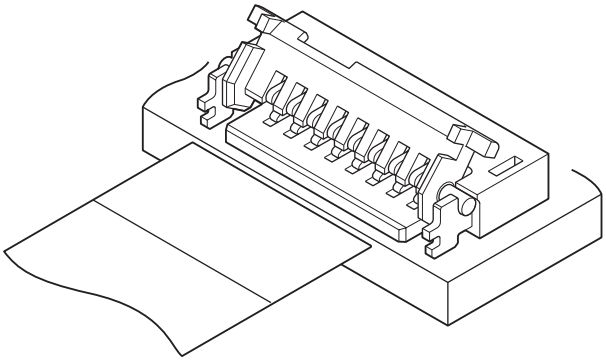


FHS CONNECTOR

Emboss Tape

ZIF TYPE

0.5mm pitch/Connectors for FPC



FHS connector is a space-saving type connector for FPC with 3.1mm depth, though it is low profile of 0.9mm mounting height. 0.2mm thick standard FPC.

- ***Space saving design***
- ***Heat resisting design suitable for surface mounting***
- ***Self-lock mechanism enables the cover to close by one-touch operation***

Specifications

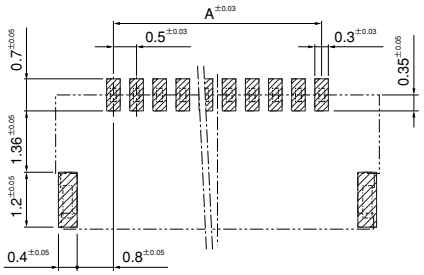
- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max.
  After environmental testing/60m Ω max.
  (variation from initial value)
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
  Conductor width/0.35mm
  Mating part thickness/0.2±0.03mm

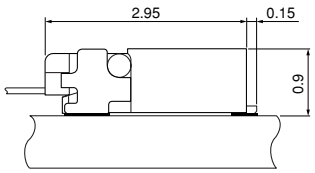
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

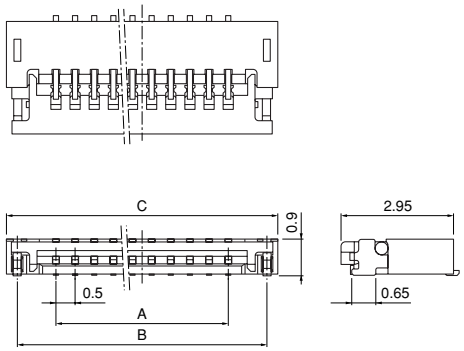
PC board layout (viewed from component side) and Assembly layout





Note: 1.Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

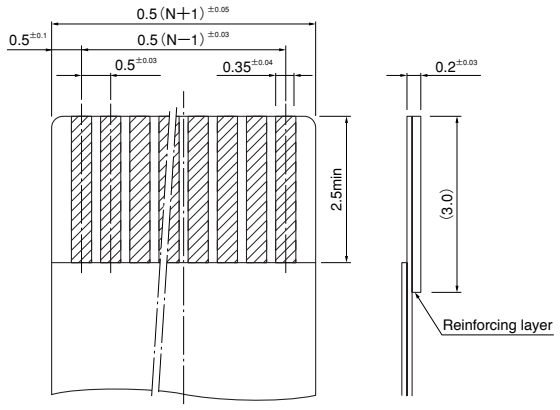


Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
3	**03FHS-RSM1-GAN-TB**	1.0	3.0	3.56	6,000
4	**04FHS-RSM1-GAN-TB**	1.5	3.5	4.06	6,000
6	**06FHS-RSM1-GAN-TB**	2.5	4.5	5.06	6,000
8	**08FHS-RSM1-GAN-TB**	3.5	5.5	6.06	6,000
9	**09FHS-RSM1-GAN-TB**	4.0	6.0	6.56	6,000

Material and Finish
Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe) Housing: LCP, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment) Cover: PPS, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*
This products listed above are supplied on embossed-tape.

Lead section dimensions of FPC



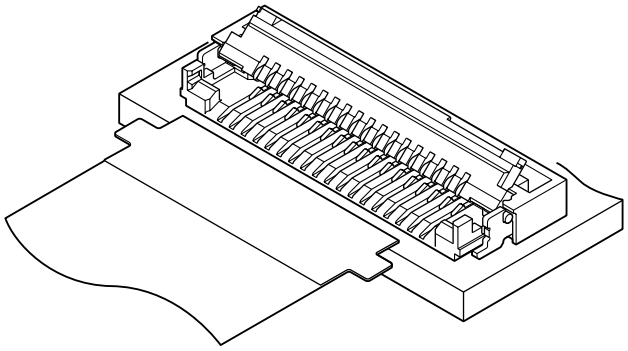
Note: N --- Number of circuits

FHY CONNECTOR

Emboss Tape

ZIF TYPE

0.5mm pitch/Connectors for FPC



The connector for the 0.3mm thickness FPC with a mounting height of 1.3 mm. FPC with protrusion prevents incomplete insertion and mis-insertion, so that it provides reliable connection.

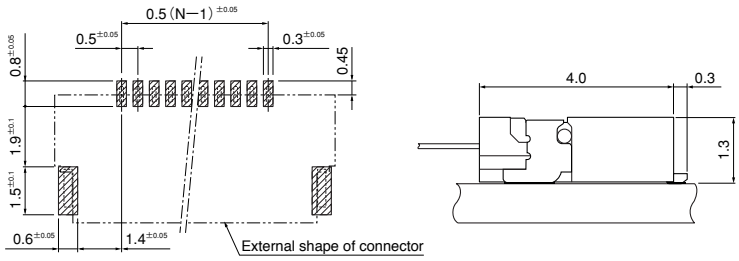
- ***A FPC with protrusion improves operability and reliability***
- ***Reliable cover***
- ***Self-lock mechanism enables the cover to close by one-touch operation***

Specifications ––––––––––––––––––

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/60m Ω max.
  After environmental testing/60m Ω max.
  (variation from initial value)
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
  Conductor width/0.35mm
  Mating part thickness/0.3±0.03mm

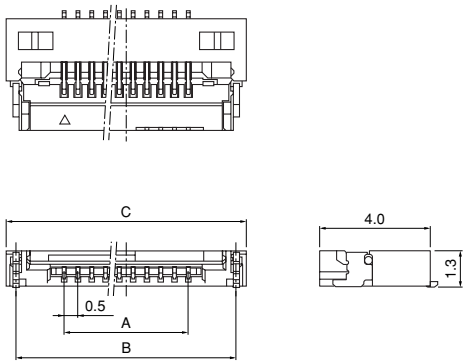
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.
3. N --- Number of circuits

Connector



This products listed above are supplied on embossed-tape.

Gold-plated product

Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
10	**10FHY-RSM1-GAN-TF**	4.5	8.0	8.7	3,000
18	**18FHY-RSM1-GAN-TF**	8.5	12.0	12.7	3,000
30	**30FHY-RSM1-GAN-TF**	14.5	18.0	18.7	3,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated (nickel-stripe)
Housing: Heat resisting resin, UL94V-0, natural
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover: Heat resisting resin, UL94V-0, black

RoHS compliance *This product displays (LF)(SN) on a label.*

Tin-plated product

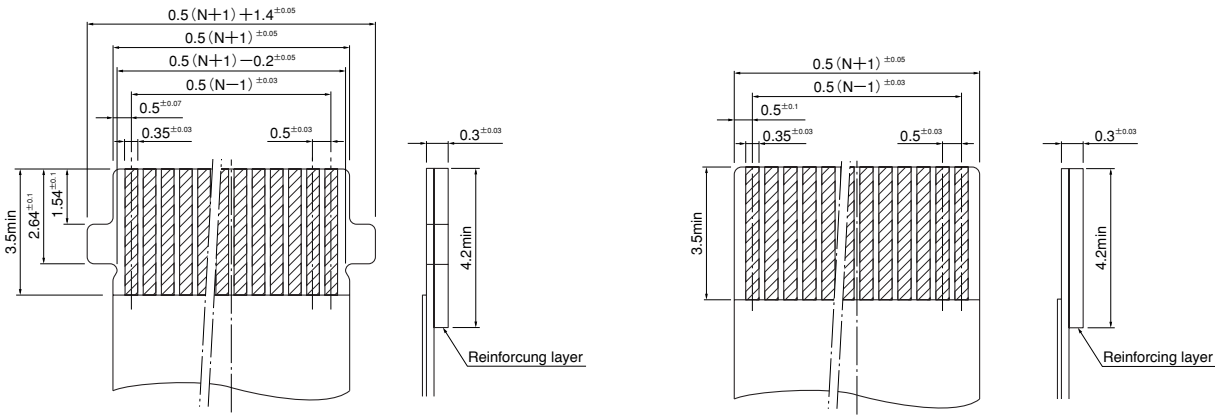
Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
40	**40FHY-RSM1-TF**	19.5	23.0	23.7	3,000
50	**50FHY-RSM1-TF**	24.5	28.0	28.7	3,000

Material and Finish

Contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: Heat resisting resin, UL94V-0, natural
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Cover: Heat resisting resin, UL94V-0, black

RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FPC



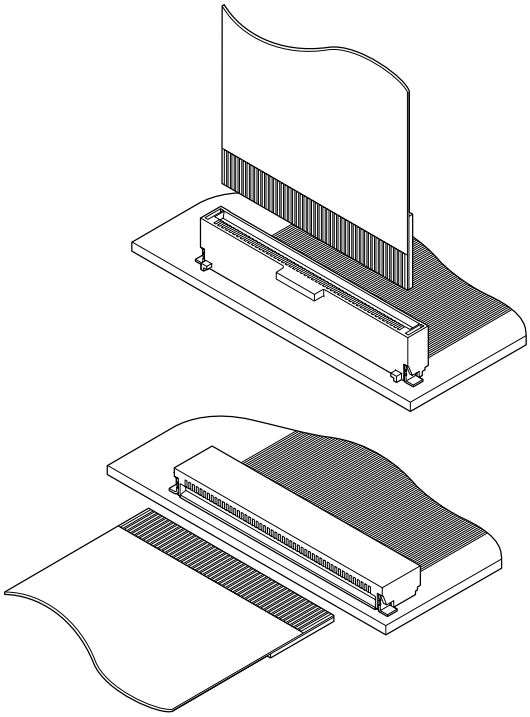
Note: N --- Number of circuits

FY CONNECTOR

0.5mm pitch/Connectors for FFC

Emboss Tape

NON-ZIF TYPE



0.5mm pitch non-ZIF snap-in type FFC connector.

- ***Heat resisting design suitable for surface mounting***
- ***One-sided contact construction***
- ***Solder tabs***
- ***Embossed tape for automatic mounting***

Specifications

- Current rating: 0.3A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max. After environmental testing/70m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FFC: Conductor pitch/0.5mm Conductor width/0.3mm Mating part thickness/0.3±0.03mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

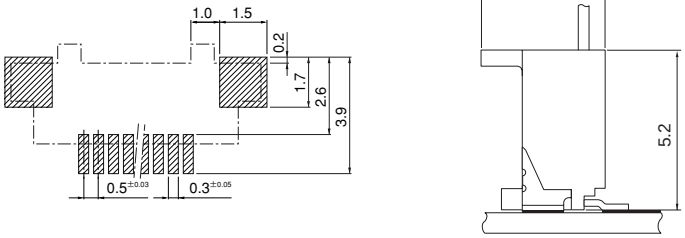
Recognized E60389

Certified LR20812

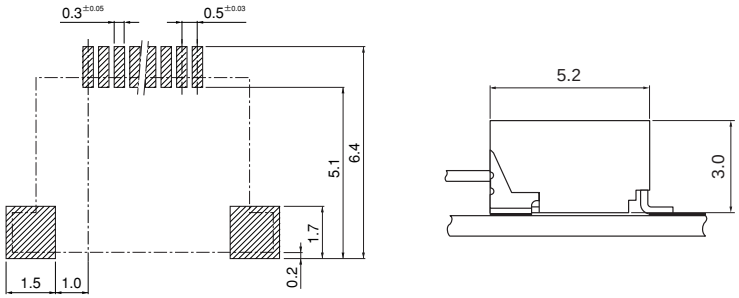
R50006970

PC board layout (viewed from component side) and Assembly layout

Top entry type



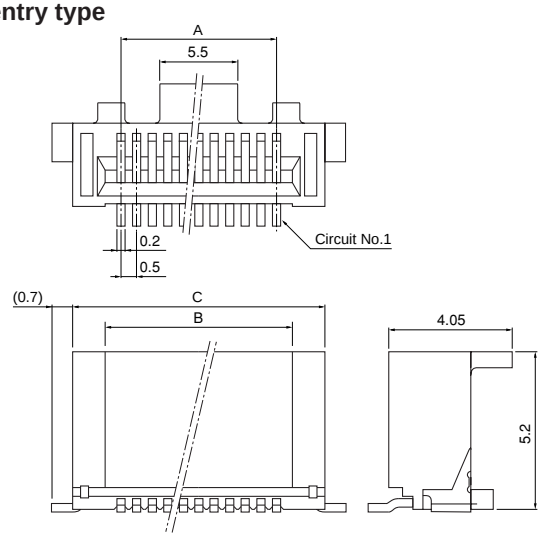
Side entry type



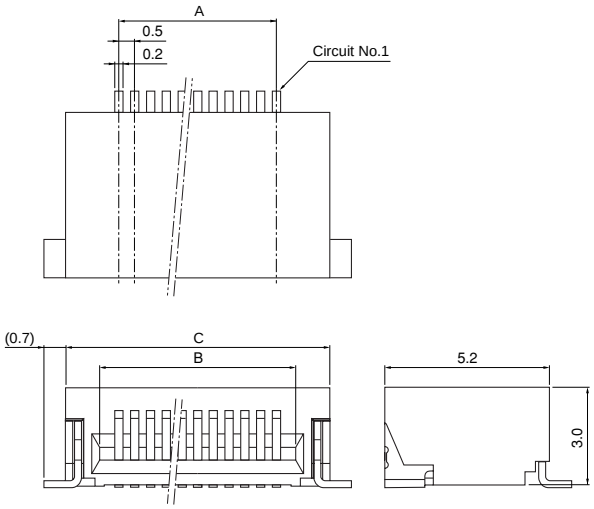
Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Top entry type



Side entry type

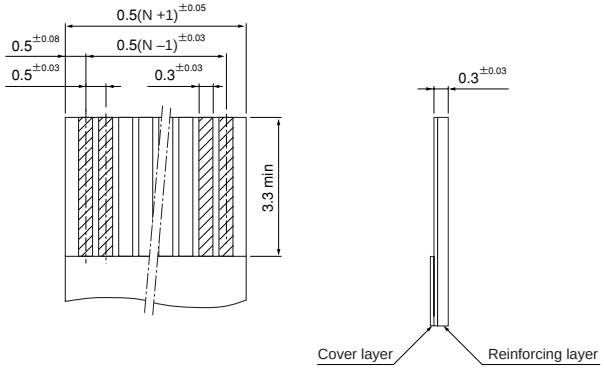


Circuits	Model No.		Dimensions (mm)			Q'ty / reel	
	Top entry type	Side entry type	A	B	C	Top entry type	Side entry type
30	**30FY-BMT-TB**	**30FY-SMT-TF**	14.5	15.5	17.7	1,250	2,000
40	**40FY-BMT-TB**	**40FY-SMT-TF**	19.5	20.5	22.7	1,250	2,000
50	**50FY-BMT-TB**	**50FY-SMT-TF**	24.5	25.5	27.7	1,250	2,000

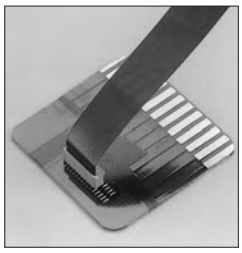
Material and Finish
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) Housing: PPS, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FFC



Note: N --- Number of circuits

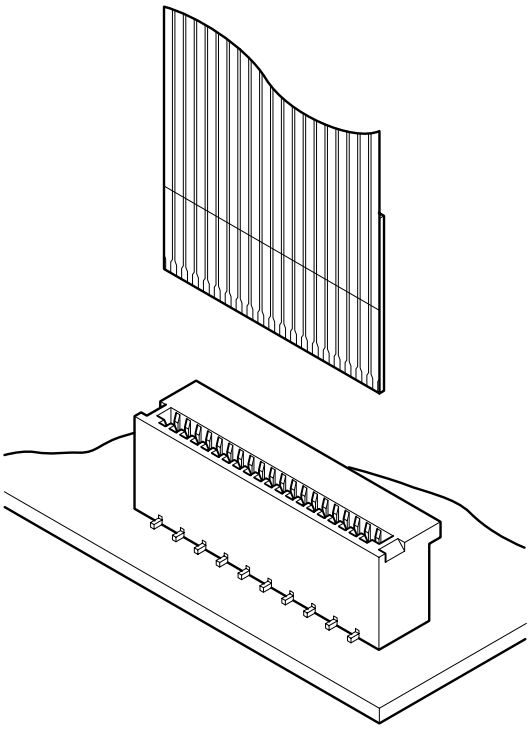


FLT CONNECTOR

0.5mm pitch/Connectors for FPC

Emboss Tape

NON-ZIF TYPE



- ***Heat resisting design suitable for surface mounting***
- ***Staggered surface mount tails***
- ***Embossed tape for automatic mounting***
- ***FPC insertion is easy***
- ***Compact design***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
  After environmental testing/20m Ω max.
  (variation from initial value)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 200V AC/minute
- Applicable FPC: Conductor pitch/0.5mm
  Conductor width/0.35mm
  Mating part thickness/0.30±0.05mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

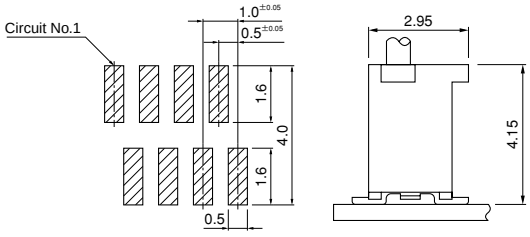
* Contact JST for details.

Standards

Recognized E60389

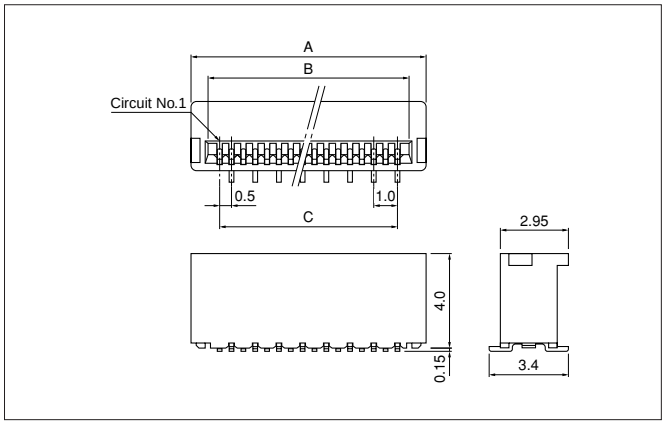
Certified LR20812

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guide line. Contact JST for details.

Connector

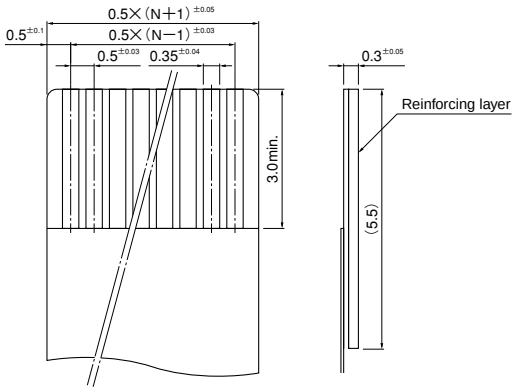


Circuits	Model No.	Dimensions (mm)			Q'ty / reel
		A	B	C	
6	**06FLT-SM2-TB**	4.9	3.5	2.5	2,500
8	**08FLT-SM2-TB**	5.9	4.5	3.5	2,500
10	**10FLT-SM2-TB**	6.9	5.5	4.5	2,500
12	**12FLT-SM2-TB**	7.9	6.5	5.5	2,500
14	**14FLT-SM2-TB**	8.9	7.5	6.5	2,500
16	**16FLT-SM2-TB**	9.9	8.5	7.5	2,500
18	**18FLT-SM2-TB**	10.9	9.5	8.5	2,500
20	**20FLT-SM2-TB**	11.9	10.5	9.5	2,500
22	**22FLT-SM2-TB**	12.9	11.5	10.5	2,500
24	**24FLT-SM2-TB**	13.9	12.5	11.5	2,500
26	**26FLT-SM2-TB**	14.9	13.5	12.5	2,500
28	**28FLT-SM2-TB**	15.9	14.5	13.5	2,500
30	**30FLT-SM2-TB**	16.9	15.5	14.5	2,500
32	**32FLT-SM2-TB**	17.9	16.5	15.5	2,500
40	**40FLT-SM2-TB**	21.9	20.5	19.5	2,500

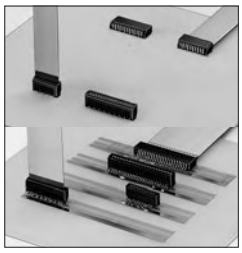
Material and Finish
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) Housing: PA 6T, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: The products listed above are supplied on embossed-tape.

Lead section dimensions of FPC



Note: N --- Number of circuits

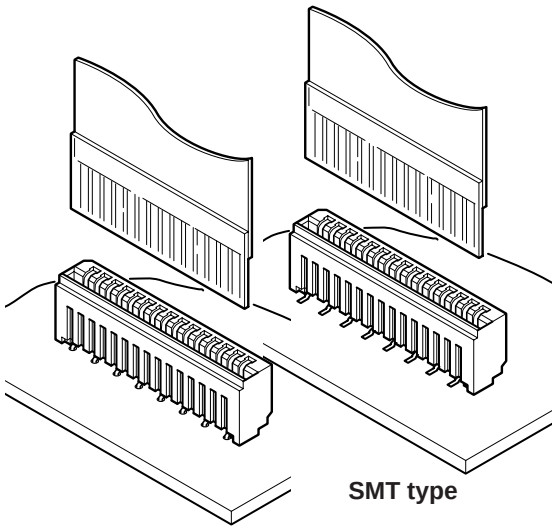


FMN CONNECTOR

Emboss Tape

NON-ZIF TYPE

1.0mm pitch/Connectors for FFC



- ***Compact***
- ***Low insertion force***
- ***Both through-hole and SMT types are available***
- ***Embossed tape for automatic mounting***

Specifications

- Current rating: 0.5A DC
- Voltage rating: 50V DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
  After environmental testing/50m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable FFC: Conductor pitch/1.0mm
  Conductor width/0.7mm
  Mating part thickness/0.30±0.05mm
- Applicable PC board thickness: 1.6mm

Note: FFC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Standards

Recognized E60389

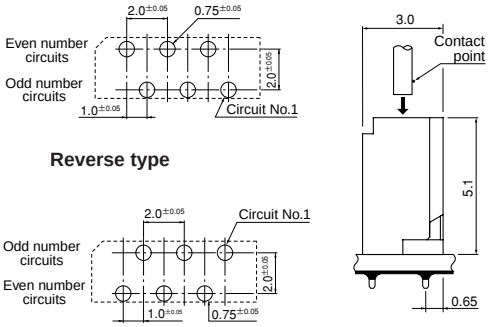
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

<Through-hole type>

Top entry type

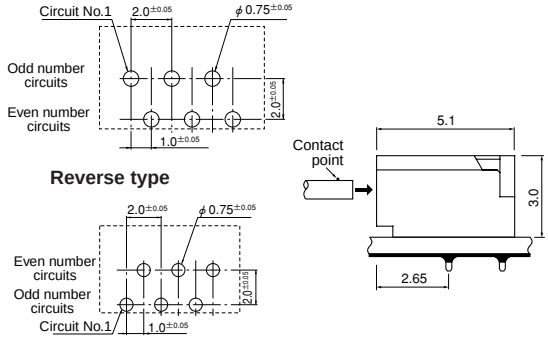
Normal type



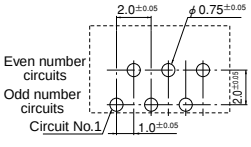
Reverse type

Side entry type

Normal type



Reverse type



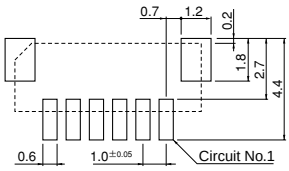
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

<SMT type>

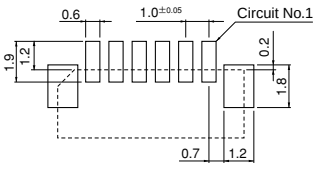
Top entry type

<In-line>

Normal type

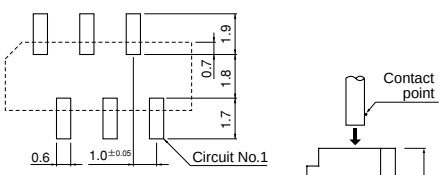


Reverse type

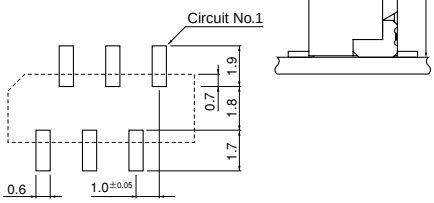


<Staggered>

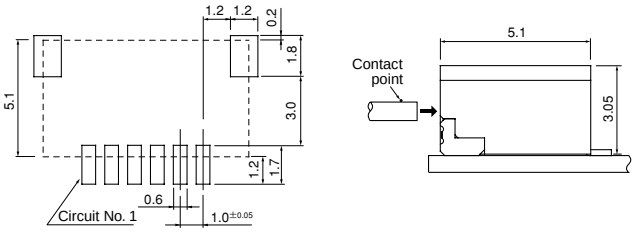
Normal type



Reverse type

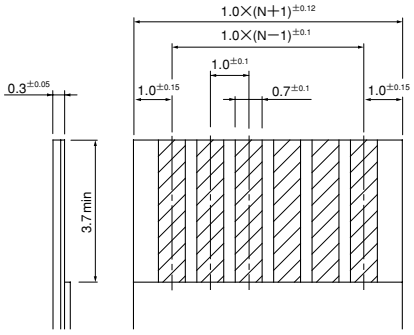


Side entry type



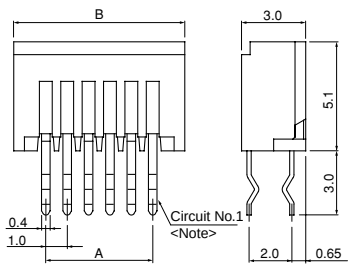
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Lead section dimensions of FFC

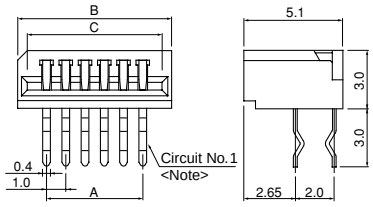


Through-hole type Connector

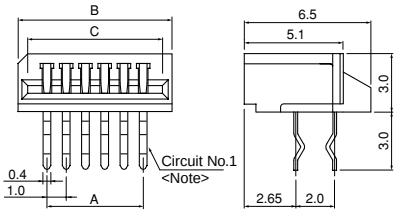
Top entry type



Side entry type



Side entry type with stop



<Note> Normal type: The solder tail for cricuit No.1 contact is positioned in front.
Reverse type: The solder tail for cricuit No.1 contact is positioned behind.

Note: N --- Number of circuits

Circuits	Model No.						Dimensions (mm)			Q'ty / box		
	Top entry type		Side entry type		Side entry type with stop							
	Normal type	Reverse type	Normal type	Reverse type	Normal type	Reverse type	A	B	C	Top entry type	Side entry type	Side entry type with stop
4	**04FMN-BTK-A**	**04FMN-BTRK-A**	**04FMN-STK-A**	**04FMN-STRK-A**	**04FMN-SSTK-A**	**04FMN-SSTRK-A**	3.0	6.0	5.0	3,600	2,160	2,520
5	**05FMN-BTK-A**	**05FMN-BTRK-A**	**05FMN-STK-A**	**05FMN-STRK-A**	**05FMN-SSTK-A**	**05FMN-SSTRK-A**	4.0	7.0	6.0	3,100	1,860	2,170
6	**06FMN-BTK-A**	**06FMN-BTRK-A**	**06FMN-STK-A**	**06FMN-STRK-A**	**06FMN-SSTK-A**	**06FMN-SSTRK-A**	5.0	8.0	7.0	2,700	1,620	1,890
7	**07FMN-BTK-A**	**07FMN-BTRK-A**	**07FMN-STK-A**	**07FMN-STRK-A**	**07FMN-SSTK-A**	**07FMN-SSTRK-A**	6.0	9.0	8.0	2,400	1,440	1,680
8	**08FMN-BTK-A**	**08FMN-BTRK-A**	**08FMN-STK-A**	**08FMN-STRK-A**	**08FMN-SSTK-A**	**08FMN-SSTRK-A**	7.0	10.0	9.0	2,100	1,260	1,470
9	**09FMN-BTK-A**	**09FMN-BTRK-A**	**09FMN-STK-A**	**09FMN-STRK-A**	**09FMN-SSTK-A**	**09FMN-SSTRK-A**	8.0	11.0	10.0	1,900	1,140	1,330
10	**10FMN-BTK-A**	**10FMN-BTRK-A**	**10FMN-STK-A**	**10FMN-STRK-A**	**10FMN-SSTK-A**	**10FMN-SSTRK-A**	9.0	12.0	11.0	1,800	1,080	1,260
11	**11FMN-BTK-A**	**11FMN-BTRK-A**	**11FMN-STK-A**	**11FMN-STRK-A**	**11FMN-SSTK-A**	**11FMN-SSTRK-A**	10.0	13.0	12.0	1,600	960	1,120
12	**12FMN-BTK-A**	**12FMN-BTRK-A**	**12FMN-STK-A**	**12FMN-STRK-A**	**12FMN-SSTK-A**	**12FMN-SSTRK-A**	11.0	14.0	13.0	1,500	900	1,050
13	**13FMN-BTK-A**	**13FMN-BTRK-A**	**13FMN-STK-A**	**13FMN-STRK-A**	**13FMN-SSTK-A**	**13FMN-SSTRK-A**	12.0	15.0	14.0	1,400	840	980
14	**14FMN-BTK-A**	**14FMN-BTRK-A**	**14FMN-STK-A**	**14FMN-STRK-A**	**14FMN-SSTK-A**	**14FMN-SSTRK-A**	13.0	16.0	15.0	1,300	780	910
15	**15FMN-BTK-A**	**15FMN-BTRK-A**	**15FMN-STK-A**	**15FMN-STRK-A**	**15FMN-SSTK-A**	**15FMN-SSTRK-A**	14.0	17.0	16.0	1,200	720	840
16	**16FMN-BTK-A**	**16FMN-BTRK-A**	**16FMN-STK-A**	**16FMN-STRK-A**	**16FMN-SSTK-A**	**16FMN-SSTRK-A**	15.0	18.0	17.0	1,200	720	840
17	**17FMN-BTK-A**	**17FMN-BTRK-A**	**17FMN-STK-A**	**17FMN-STRK-A**	**17FMN-SSTK-A**	**17FMN-SSTRK-A**	16.0	19.0	18.0	1,100	660	770
18	**18FMN-BTK-A**	**18FMN-BTRK-A**	**18FMN-STK-A**	**18FMN-STRK-A**	**18FMN-SSTK-A**	**18FMN-SSTRK-A**	17.0	20.0	19.0	1,000	600	700
19	**19FMN-BTK-A**	**19FMN-BTRK-A**	**19FMN-STK-A**	**19FMN-STRK-A**	**19FMN-SSTK-A**	**19FMN-SSTRK-A**	18.0	21.0	20.0	1,000	600	700
20	**20FMN-BTK-A**	**20FMN-BTRK-A**	**20FMN-STK-A**	**20FMN-STRK-A**	**20FMN-SSTK-A**	**20FMN-SSTRK-A**	19.0	22.0	21.0	900	540	630
21	**21FMN-BTK-A**	**21FMN-BTRK-A**	**21FMN-STK-A**	**21FMN-STRK-A**	**21FMN-SSTK-A**	**21FMN-SSTRK-A**	20.0	23.0	22.0	900	540	630
22	**22FMN-BTK-A**	**22FMN-BTRK-A**	**22FMN-STK-A**	**22FMN-STRK-A**	**22FMN-SSTK-A**	**22FMN-SSTRK-A**	21.0	24.0	23.0	900	540	630
23	**23FMN-BTK-A**	**23FMN-BTRK-A**	**23FMN-STK-A**	**23FMN-STRK-A**	**23FMN-SSTK-A**	**23FMN-SSTRK-A**	22.0	25.0	24.0	800	480	560
24	**24FMN-BTK-A**	**24FMN-BTRK-A**	**24FMN-STK-A**	**24FMN-STRK-A**	**24FMN-SSTK-A**	**24FMN-SSTRK-A**	23.0	26.0	25.0	800	480	560
25	**25FMN-BTK-A**	**25FMN-BTRK-A**	**25FMN-STK-A**	**25FMN-STRK-A**	**25FMN-SSTK-A**	**25FMN-SSTRK-A**	24.0	27.0	26.0	800	480	560
26	**26FMN-BTK-A**	**26FMN-BTRK-A**	**26FMN-STK-A**	**26FMN-STRK-A**	**26FMN-SSTK-A**	**26FMN-SSTRK-A**	25.0	28.0	27.0	700	420	490
27	**27FMN-BTK-A**	**27FMN-BTRK-A**	**27FMN-STK-A**	**27FMN-STRK-A**	**27FMN-SSTK-A**	**27FMN-SSTRK-A**	26.0	29.0	28.0	700	420	490
28	**28FMN-BTK-A**	**28FMN-BTRK-A**	**28FMN-STK-A**	**28FMN-STRK-A**	**28FMN-SSTK-A**	**28FMN-SSTRK-A**	27.0	30.0	29.0	700	420	490
29	**29FMN-BTK-A**	**29FMN-BTRK-A**	**29FMN-STK-A**	**29FMN-STRK-A**	**29FMN-SSTK-A**	**29FMN-SSTRK-A**	28.0	31.0	30.0	700	420	490
30	**30FMN-BTK-A**	**30FMN-BTRK-A**	**30FMN-STK-A**	**30FMN-STRK-A**	**30FMN-SSTK-A**	**30FMN-SSTRK-A**	29.0	32.0	31.0	600	360	420
31	**31FMN-BTK-A**	**31FMN-BTRK-A**	**31FMN-STK-A**	**31FMN-STRK-A**	**31FMN-SSTK-A**	**31FMN-SSTRK-A**	30.0	33.0	32.0	600	360	420
32	**32FMN-BTK-A**	**32FMN-BTRK-A**	**32FMN-STK-A**	**32FMN-STRK-A**	**32FMN-SSTK-A**	**32FMN-SSTRK-A**	31.0	34.0	33.0	600	360	420
33	**33FMN-BTK-A**	**33FMN-BTRK-A**	**33FMN-STK-A**	**33FMN-STRK-A**	**33FMN-SSTK-A**	**33FMN-SSTRK-A**	32.0	35.0	34.0	600	360	420
34	**34FMN-BTK-A**	**34FMN-BTRK-A**	**34FMN-STK-A**	**34FMN-STRK-A**	**34FMN-SSTK-A**	**34FMN-SSTRK-A**	33.0	36.0	35.0	600	360	420
35	**35FMN-BTK-A**	**35FMN-BTRK-A**	**35FMN-STK-A**	**35FMN-STRK-A**	**35FMN-SSTK-A**	**35FMN-SSTRK-A**	34.0	37.0	36.0	500	300	350
36	**36FMN-BTK-A**	**36FMN-BTRK-A**	**36FMN-STK-A**	**36FMN-STRK-A**	**36FMN-SSTK-A**	**36FMN-SSTRK-A**	35.0	38.0	37.0	500	300	350
37	**37FMN-BTK-A**	**37FMN-BTRK-A**	**37FMN-STK-A**	**37FMN-STRK-A**	**37FMN-SSTK-A**	**37FMN-SSTRK-A**	36.0	39.0	38.0	500	300	350
38	**38FMN-BTK-A**	**38FMN-BTRK-A**	**38FMN-STK-A**	**38FMN-STRK-A**	**38FMN-SSTK-A**	**38FMN-SSTRK-A**	37.0	40.0	39.0	500	300	350
39	**39FMN-BTK-A**	**39FMN-BTRK-A**	**39FMN-STK-A**	**39FMN-STRK-A**	**39FMN-SSTK-A**	**39FMN-SSTRK-A**	38.0	41.0	40.0	500	300	350
40	**40FMN-BTK-A**	**40FMN-BTRK-A**	**40FMN-STK-A**	**40FMN-STRK-A**	**40FMN-SSTK-A**	**40FMN-SSTRK-A**	39.0	42.0	41.0	500	300	350

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: 4 to 22 circuits/PBT, UL94V-0, Normal type···gray Reverse type···brown
23 to 40 circuits/PA 6T, UL94V-0, Normal type···gray Reverse type···black

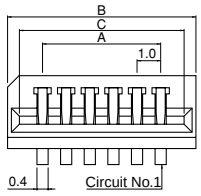
RoHS compliance *This product displays (LF)(SN) on a label.*

SMT type Connector

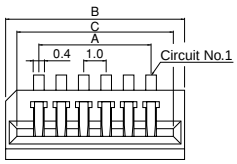
Top entry type

<In-line>

Normal type

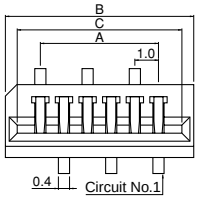


Reverse type

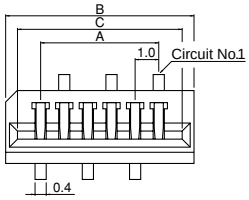


<Staggered>

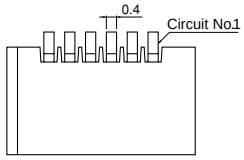
Normal type

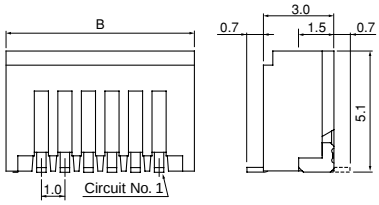


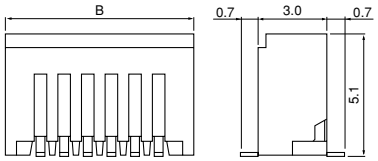
Reverse type

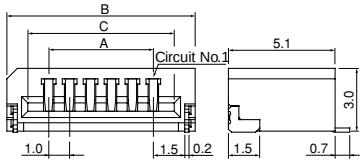


Side entry type









Circuits	Model No.					Dimensions (mm)				Q'ty / reel	
	Top entry type				Side entry type	A	B		C		
	Single-row		Staggered				Top entry type	Side entry type		Top entry type	Side entry type
	Normal type	Reverse type	Normal type	Reverse type							
4	04FMN-BMT-A-TF	04FMN-BMTR-A-TB	04FMN-BMTTN-A-TF	04FMN-BMTTR-A-TB	04FMN-SMT-A-TF	3.0	6.0	7.0	5.0	1,000	2,000
5	05FMN-BMT-A-TF	05FMN-BMTR-A-TB	05FMN-BMTTN-A-TF	05FMN-BMTTR-A-TB	05FMN-SMT-A-TF	4.0	7.0	8.0	6.0	1,000	2,000
6	06FMN-BMT-A-TF	06FMN-BMTR-A-TB	06FMN-BMTTN-A-TF	06FMN-BMTTR-A-TB	06FMN-SMT-A-TF	5.0	8.0	9.0	7.0	1,000	2,000
7	07FMN-BMT-A-TF	07FMN-BMTR-A-TB	07FMN-BMTTN-A-TF	07FMN-BMTTR-A-TB	07FMN-SMT-A-TF	6.0	9.0	10.0	8.0	1,000	2,000
8	08FMN-BMT-A-TF	08FMN-BMTR-A-TB	08FMN-BMTTN-A-TF	08FMN-BMTTR-A-TB	08FMN-SMT-A-TF	7.0	10.0	11.0	9.0	1,000	2,000
9	09FMN-BMT-A-TF	09FMN-BMTR-A-TB	09FMN-BMTTN-A-TF	09FMN-BMTTR-A-TB	09FMN-SMT-A-TF	8.0	11.0	12.0	10.0	1,000	2,000
10	10FMN-BMT-A-TF	10FMN-BMTR-A-TB	10FMN-BMTTN-A-TF	10FMN-BMTTR-A-TB	10FMN-SMT-A-TF	9.0	12.0	13.0	11.0	1,000	2,000
11	11FMN-BMT-A-TF	11FMN-BMTR-A-TB	11FMN-BMTTN-A-TF	11FMN-BMTTR-A-TB	11FMN-SMT-A-TF	10.0	13.0	14.0	12.0	1,000	2,000
12	12FMN-BMT-A-TF	12FMN-BMTR-A-TB	12FMN-BMTTN-A-TF	12FMN-BMTTR-A-TB	12FMN-SMT-A-TF	11.0	14.0	15.0	13.0	1,000	2,000
13	13FMN-BMT-A-TF	13FMN-BMTR-A-TB	13FMN-BMTTN-A-TF	13FMN-BMTTR-A-TB	13FMN-SMT-A-TF	12.0	15.0	16.0	14.0	1,000	2,000
14	14FMN-BMT-A-TF	14FMN-BMTR-A-TB	14FMN-BMTTN-A-TF	14FMN-BMTTR-A-TB	14FMN-SMT-A-TF	13.0	16.0	17.0	15.0	1,000	2,000
15	15FMN-BMT-A-TF	15FMN-BMTR-A-TB	15FMN-BMTTN-A-TF	15FMN-BMTTR-A-TB	15FMN-SMT-A-TF	14.0	17.0	18.0	16.0	1,000	2,000
16	16FMN-BMT-A-TF	16FMN-BMTR-A-TB	16FMN-BMTTN-A-TF	16FMN-BMTTR-A-TB	16FMN-SMT-A-TF	15.0	18.0	19.0	17.0	1,000	2,000
17	17FMN-BMT-A-TF	17FMN-BMTR-A-TB	17FMN-BMTTN-A-TF	17FMN-BMTTR-A-TB	17FMN-SMT-A-TF	16.0	19.0	20.0	18.0	1,000	2,000
18	18FMN-BMT-A-TF	18FMN-BMTR-A-TB	18FMN-BMTTN-A-TF	18FMN-BMTTR-A-TB	18FMN-SMT-A-TF	17.0	20.0	21.0	19.0	1,000	2,000
19	19FMN-BMT-A-TF	19FMN-BMTR-A-TB	19FMN-BMTTN-A-TF	19FMN-BMTTR-A-TB	19FMN-SMT-A-TF	18.0	21.0	22.0	20.0	1,000	2,000
20	20FMN-BMT-A-TF	20FMN-BMTR-A-TB	20FMN-BMTTN-A-TF	20FMN-BMTTR-A-TB	20FMN-SMT-A-TF	19.0	22.0	23.0	21.0	1,000	2,000
21	21FMN-BMT-A-TF	21FMN-BMTR-A-TB	21FMN-BMTTN-A-TF	21FMN-BMTTR-A-TB	21FMN-SMT-A-TF	20.0	23.0	24.0	22.0	1,000	2,000
22	22FMN-BMT-A-TF	22FMN-BMTR-A-TB	22FMN-BMTTN-A-TF	22FMN-BMTTR-A-TB	22FMN-SMT-A-TF	21.0	24.0	25.0	23.0	1,000	2,000
23	23FMN-BMT-A-TF	23FMN-BMTR-A-TB	23FMN-BMTTN-A-TF	23FMN-BMTTR-A-TB	23FMN-SMT-A-TF	22.0	25.0	26.0	24.0	1,000	2,000
24	24FMN-BMT-A-TF	24FMN-BMTR-A-TB	24FMN-BMTTN-A-TF	24FMN-BMTTR-A-TB	24FMN-SMT-A-TF	23.0	26.0	27.0	25.0	1,000	2,000
25	25FMN-BMT-A-TF	25FMN-BMTR-A-TB	25FMN-BMTTN-A-TF	25FMN-BMTTR-A-TB	25FMN-SMT-A-TF	24.0	27.0	28.0	26.0	1,000	2,000
26	26FMN-BMT-A-TF	26FMN-BMTR-A-TB	26FMN-BMTTN-A-TF	26FMN-BMTTR-A-TB	26FMN-SMT-A-TF	25.0	28.0	29.0	27.0	1,000	2,000
27	27FMN-BMT-A-TF	27FMN-BMTR-A-TB	27FMN-BMTTN-A-TF	27FMN-BMTTR-A-TB	27FMN-SMT-A-TF	26.0	29.0	30.0	28.0	1,000	2,000
28	28FMN-BMT-A-TF	28FMN-BMTR-A-TB	28FMN-BMTTN-A-TF	28FMN-BMTTR-A-TB	28FMN-SMT-A-TF	27.0	30.0	31.0	29.0	1,000	2,000
29	29FMN-BMT-A-TF	29FMN-BMTR-A-TB	29FMN-BMTTN-A-TF	29FMN-BMTTR-A-TB	29FMN-SMT-A-TF	28.0	31.0	32.0	30.0	1,000	2,000
30	30FMN-BMT-A-TF	30FMN-BMTR-A-TB	30FMN-BMTTN-A-TF	30FMN-BMTTR-A-TB	30FMN-SMT-A-TF	29.0	32.0	33.0	31.0	1,000	2,000
31	31FMN-BMT-A-TF	31FMN-BMTR-A-TB	31FMN-BMTTN-A-TF	31FMN-BMTTR-A-TB	31FMN-SMT-A-TF	30.0	33.0	34.0	32.0	1,000	2,000
32	32FMN-BMT-A-TF	32FMN-BMTR-A-TB	32FMN-BMTTN-A-TF	32FMN-BMTTR-A-TB	32FMN-SMT-A-TF	31.0	34.0	35.0	33.0	1,000	2,000
33	33FMN-BMT-A-TF	33FMN-BMTR-A-TB	33FMN-BMTTN-A-TF	33FMN-BMTTR-A-TB	33FMN-SMT-A-TF	32.0	35.0	36.0	34.0	1,000	2,000
34	34FMN-BMT-A-TF	34FMN-BMTR-A-TB	34FMN-BMTTN-A-TF	34FMN-BMTTR-A-TB	34FMN-SMT-A-TF	33.0	36.0	37.0	35.0	1,000	2,000
35	35FMN-BMT-A-TF	35FMN-BMTR-A-TB	35FMN-BMTTN-A-TF	35FMN-BMTTR-A-TB	35FMN-SMT-A-TF	34.0	37.0	38.0	36.0	1,000	2,000
36	36FMN-BMT-A-TF	36FMN-BMTR-A-TB	36FMN-BMTTN-A-TF	36FMN-BMTTR-A-TB	36FMN-SMT-A-TF	35.0	38.0	39.0	37.0	1,000	2,000
37	37FMN-BMT-A-TF	37FMN-BMTR-A-TB	37FMN-BMTTN-A-TF	37FMN-BMTTR-A-TB	37FMN-SMT-A-TF	36.0	39.0	40.0	38.0	1,000	2,000
38	38FMN-BMT-A-TF	38FMN-BMTR-A-TB	38FMN-BMTTN-A-TF	38FMN-BMTTR-A-TB	38FMN-SMT-A-TF	37.0	40.0	41.0	39.0	1,000	2,000
39	39FMN-BMT-A-TF	39FMN-BMTR-A-TB	39FMN-BMTTN-A-TF	39FMN-BMTTR-A-TB	39FMN-SMT-A-TF	38.0	41.0	42.0	40.0	1,000	2,000
40	40FMN-BMT-A-TF	40FMN-BMTR-A-TB	40FMN-BMTTN-A-TF	40FMN-BMTTR-A-TB	40FMN-SMT-A-TF	39.0	42.0	43.0	41.0	1,000	2,000

Material and Finish
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) Housing: PA 6T, UL94V-0, black Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

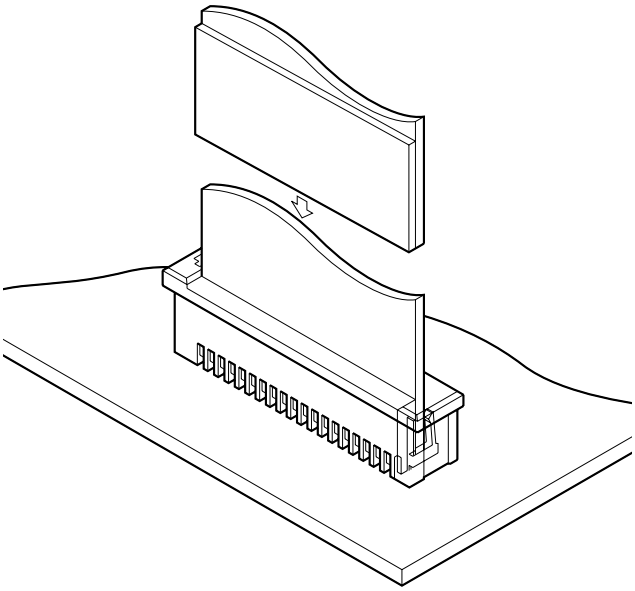
Note: 1. The products listed above are supplied on embossed tape.

2. Contact JST for the top entry type headers with suction cap.

FMZ CONNECTOR

ZIF TYPE

1.0mm pitch/Connectors for FFC



The FMZ series, a Zero Insertion Force (ZIF) connector series, was developed to increase wear resistance and extend the connector's mating life. It is a very compact connector with a thickness of only 4.2mm and a pitch of only 1.0mm and is thus useful for high density packaging. The contact has a reliable double-leaf construction which provides stable connection.

- ***Zero insertion force mechanism***
- ***Temporary retention feature***
- ***Compact***
- ***Double-leaf contact***

Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
  After environmental testing/30m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable FFC : Conductor pitch/1.0mm
  Conductor width/0.7mm
  Mating part thickness/
  6 to 10, 12 to 16, 20 circuits:0.30±0.05mm
  22, 26, 28, 30 circuits:$0.30^{+0.05}_{0}$ mm
- Applicable PC board thickness: 0.8 to 1.6mm

Note: FFC to be actually used should be checked for applicability.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

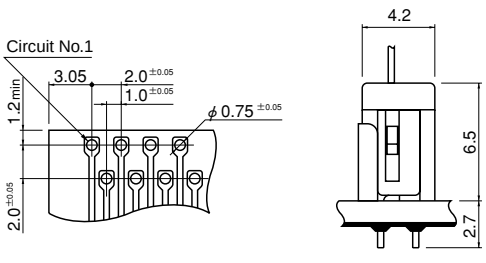
Standards

Recognized E60389

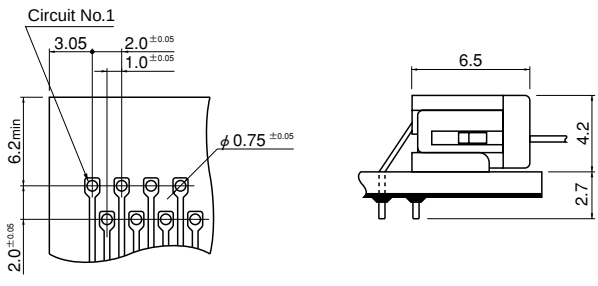
Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type

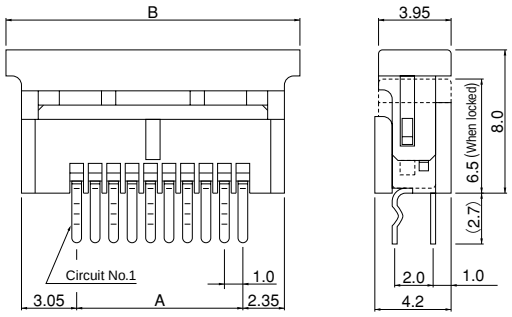


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

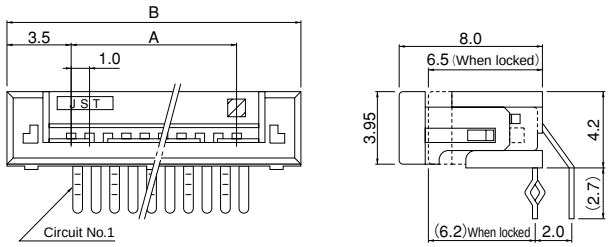
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Top entry type



Side entry type

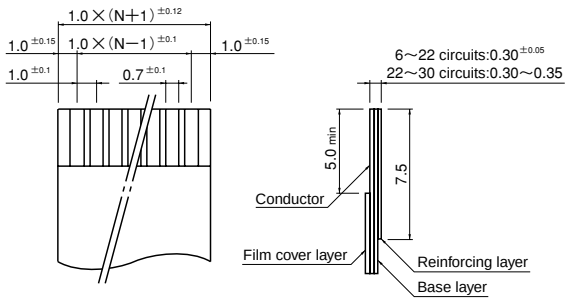


Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
6	**06FMZ-BT**	**06FMZ-ST**	5.0	12.0	1,440	800
8	**08FMZ-BT**	**08FMZ-ST**	7.0	14.0	1,440	800
9	**09FMZ-BT**	**09FMZ-ST**	8.0	15.0	960	600
10	**10FMZ-BT**	**10FMZ-ST**	9.0	16.0	960	600
12	**12FMZ-BT**	**12FMZ-ST**	11.0	18.0	960	600
13	**13FMZ-BT**	**13FMZ-ST**	12.0	19.0	960	600
14	**14FMZ-BT**	**14FMZ-ST**	13.0	20.0	960	400
15	**15FMZ-BT**	**15FMZ-ST**	14.0	21.0	780	400
16	**16FMZ-BT**	**16FMZ-ST**	15.0	22.0	780	400
17	**17FMZ-BT**	**17FMZ-ST**	16.0	23.0	780	400
20	**20FMZ-BT**	**20FMZ-ST**	19.0	26.0	720	400
22	**22FMZ-BT**	**22FMZ-ST**	21.0	28.0	720	400
24	—	**24FMZ-ST**	23.0	30.0	—	300
26	**26FMZ-BT**	**26FMZ-ST**	25.0	32.0	480	300
28	**28FMZ-BT**	**28FMZ-ST**	27.0	34.0	480	300
30	**30FMZ-BT**	**30FMZ-ST**	29.0	36.0	480	300

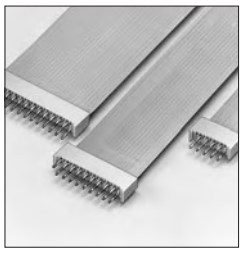
Material and Finish
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) Housing: Glass-filled PBT, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*

Lead section dimensions of FFC



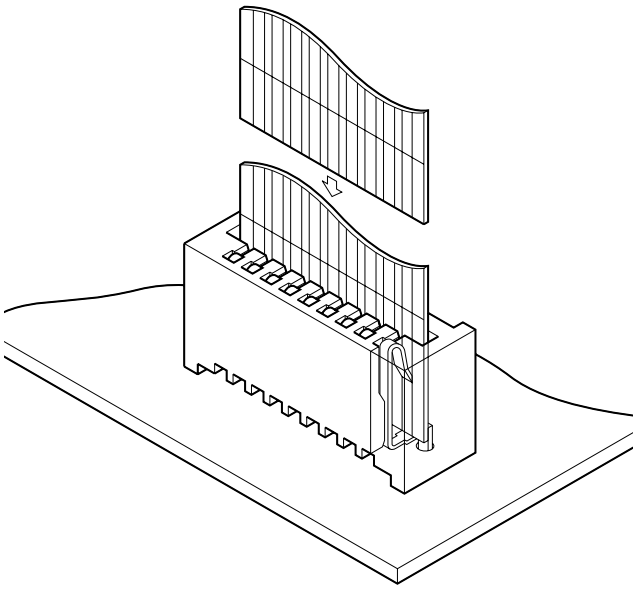
Note: N --- Number of circuits



FE CONNECTOR

NON-ZIF TYPE

1.25mm pitch/Connectors for FFC



The FE connector ensures easy, secure connection of flexible flat cables (FFC). This compact connector is 4.8mm wide, 7.5mm high, and provides high contact pressure even though little force is required for insertion. The result is smooth insertion and reliable contact performance. The connector is useful in making personal computers, VCRs and car stereo systems smaller and lighter.

- ***Low insertion force and high contact pressure***
- ***Snap-in connection***
- ***Temporary board retention feature***

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 200V AC, DC
- Temperature range: -25˚C to+85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
  After environmental testing/30m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable FFC: Conductor pitch/1.25mm
  Conductor width/0.8mm
  Mating part thickness/0.3±0.05mm

Note: FFC to be actually used should be checked for applicability.

- Applicable PC board thickness: 1.2 to 1.6mm

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

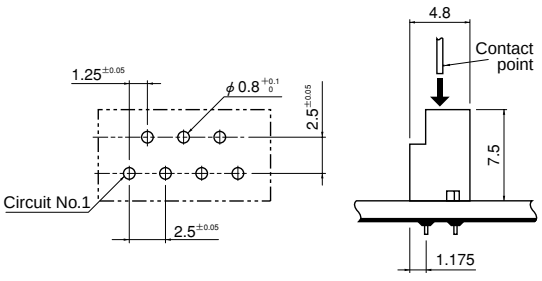
Standards

Recognized E60389

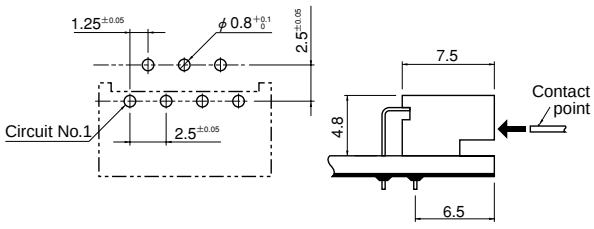
Certified LR20812

PC board layout (viewed from component side) and Assembly layout

Top entry type



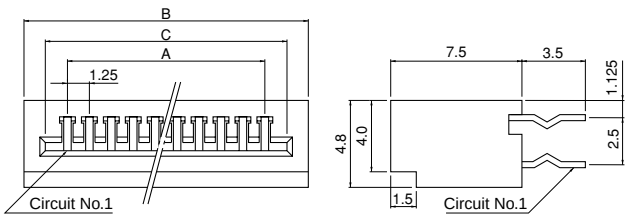
Side entry type



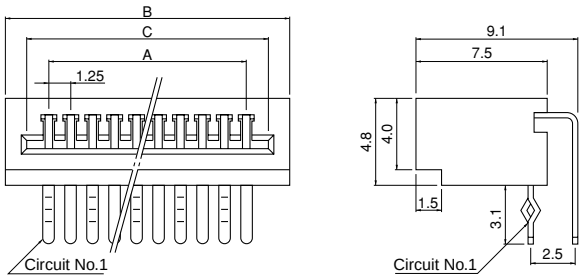
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Connector

Top entry type



Side entry type



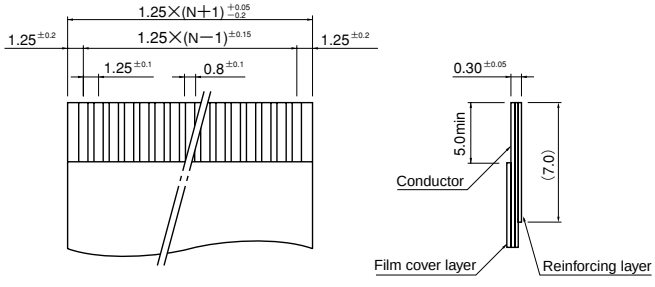
Circuits	Model No.		Dimensions (mm)			Q'ty / box	
	Top entry type	Side entry type	A	B	C	Top entry type	Side entry type
4	**04FE-BT-VK-N**	**04FE-ST-VK-N**	3.75	8.55	6.35	2,350	1,410
5	**05FE-BT-VK-N**	**05FE-ST-VK-N**	5.00	9.80	7.60	2,000	1,200
6	**06FE-BT-VK-N**	**06FE-ST-VK-N**	6.25	11.05	8.85	1,800	1,080
7	**07FE-BT-VK-N**	**07FE-ST-VK-N**	7.50	12.30	10.10	1,600	960
8	**08FE-BT-VK-N**	**08FE-ST-VK-N**	8.75	13.55	11.35	1,500	900
9	**09FE-BT-VK-N**	**09FE-ST-VK-N**	10.00	14.80	12.60	1,350	810
10	**10FE-BT-VK-N**	**10FE-ST-VK-N**	11.25	16.05	13.85	1,250	750
11	**11FE-BT-VK-N**	**11FE-ST-VK-N**	12.50	17.30	15.10	1,150	690
12	**12FE-BT-VK-N**	**12FE-ST-VK-N**	13.75	18.55	16.35	1,100	660
13	**13FE-BT-VK-N**	**13FE-ST-VK-N**	15.00	19.80	17.60	1,000	600
14	**14FE-BT-VK-N**	**14FE-ST-VK-N**	16.25	21.05	18.85	950	570
15	**15FE-BT-VK-N**	**15FE-ST-VK-N**	17.50	22.30	20.10	900	540
16	**16FE-BT-VK-N**	**16FE-ST-VK-N**	18.75	23.55	21.35	850	510
17	**17FE-BT-VK-N**	**17FE-ST-VK-N**	20.00	24.80	22.60	800	480
18	**18FE-BT-VK-N**	**18FE-ST-VK-N**	21.25	26.05	23.85	750	450
19	**19FE-BT-VK-N**	**19FE-ST-VK-N**	22.50	27.30	25.10	700	420
20	**20FE-BT-VK-N**	**20FE-ST-VK-N**	23.75	28.55	26.35	700	420
21	**21FE-BT-VK-N**	**21FE-ST-VK-N**	25.00	29.80	27.60	650	390
22	**22FE-BT-VK-N**	**22FE-ST-VK-N**	26.25	31.05	28.85	650	390
23	**23FE-BT-VK-N**	**23FE-ST-VK-N**	27.50	32.30	30.10	600	360
24	**24FE-BT-VK-N**	**24FE-ST-VK-N**	28.75	33.55	31.35	600	360
25	**25FE-BT-VK-N**	**25FE-ST-VK-N**	30.00	34.80	32.60	550	330
26	**26FE-BT-VK-N**	**26FE-ST-VK-N**	31.25	36.05	33.85	550	330
27	**27FE-BT-VK-N**	**27FE-ST-VK-N**	32.50	37.30	35.10	500	300
28	**28FE-BT-VK-N**	**28FE-ST-VK-N**	33.75	38.55	36.35	500	300
29	**29FE-BT-VK-N**	**29FE-ST-VK-N**	35.00	39.80	37.60	500	300
30	**30FE-BT-VK-N**	**30FE-ST-VK-N**	36.25	41.05	38.85	450	270
31	**31FE-BT-VK-N**	**31FE-ST-VK-N**	37.50	42.30	40.10	450	270
32	**32FE-BT-VK-N**	**32FE-ST-VK-N**	38.75	43.55	41.35	450	270
33	**33FE-BT-VK-N**	**33FE-ST-VK-N**	40.00	44.80	42.60	450	270
34	**34FE-BT-VK-N**	**34FE-ST-VK-N**	41.25	46.05	43.85	400	240
35	**35FE-BT-VK-N**	**35FE-ST-VK-N**	42.50	47.30	45.10	400	240
36	**36FE-BT-VK-N**	**36FE-ST-VK-N**	43.75	48.55	46.35	400	240
37	**37FE-BT-VK-N**	**37FE-ST-VK-N**	45.00	49.80	47.60	400	240
38	**38FE-BT-VK-N**	**38FE-ST-VK-N**	46.25	51.05	48.85	350	210
39	**39FE-BT-VK-N**	**39FE-ST-VK-N**	47.50	52.30	50.10	350	210
40	**40FE-BT-VK-N**	**40FE-ST-VK-N**	48.75	53.55	51.35	350	210

Material and Finish
Contact: Copper alloy, tin-plated (reflow treatment) Housing: PBT, UL94V-0, white

RoHS compliance

Note: 33 to 40 circuits products are not UL/CSA approved.

Lead section dimensions of FFC

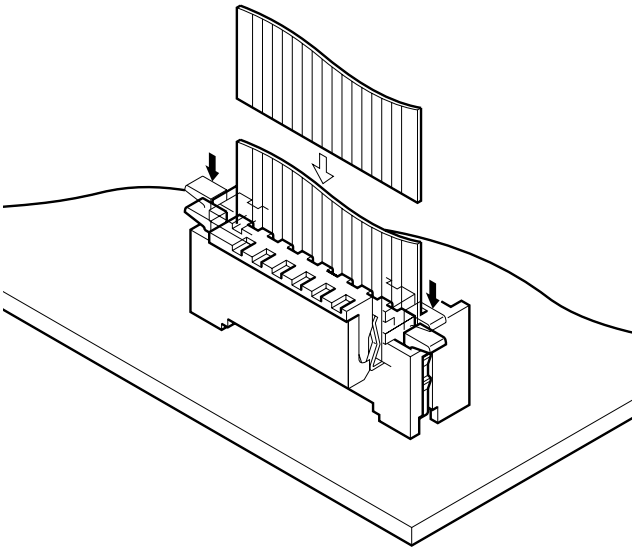


Note: N --- Number of circuits

FDZ CONNECTOR

ZIF TYPE

2.54mm pitch/Connectors for FPC and membrane switch leads



The FDZ connector, a Zero Insertion Force (ZIF) connector, was developed to connect FPC and membrane switch leads. This combination of features allows greater freedom in internal wiring designs. No force is required to insert the leads. Once inserted, the leads are securely held and locked by moving the slide. The contact is double-sided to ensure greater reliability.

- ***Double-sided contact***
- ***Zero insertion force and locking mechanism***
- ***Temporary board retention feature***
- ***Boss for polarity identification***
- ***Flux is not a problem***

Specifications

- Current rating: Tin-plated copper foil lead/1.0A AC, DC
  Silver paste carbon-printed lead/50mA AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -40˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: <Tin-plated copper foil lead>
  Initial value/30m Ω max.
  After environmental testing/50m Ω max.
  <Silver paste carbon-printed lead>
  Initial value/10 Ω max.
  After environmental testing/15 Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,200V AC/minute
- Applicable FPC and membrane switch lead:
  Conductor pitch/2.54mm
  Conductor width/1.3mm
  Mating part thickness/125 micron
- Applicable PC board thickness: 1.6mm

Note: FPC to be actually used should be checked for applicability.

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

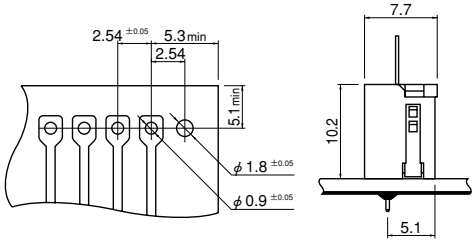
Standards

Recognized E60389

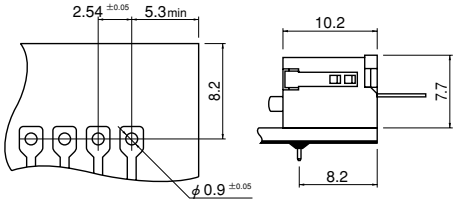
Certified LR20812

PC board layout (viewed from soldering side) and Assembly layout

Top entry type



Side entry type

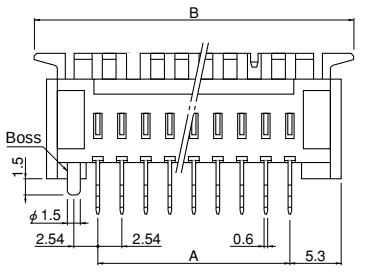


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

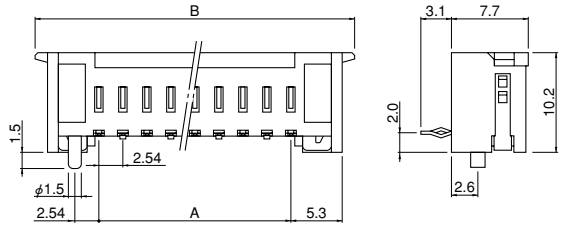
FDZ CONNECTOR

Connector

Top entry type (Before slide lock)



Side entry type (After slide lock)

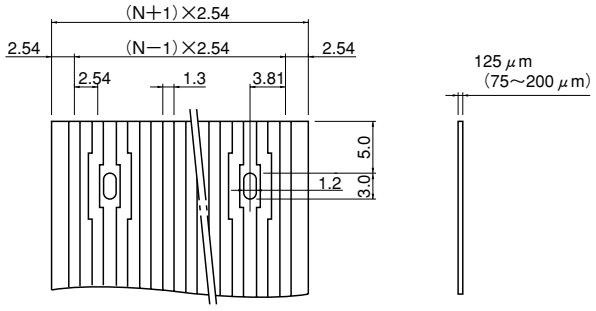


Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Top entry type	Side entry type	A	B	
5	**05FDZ-BT(S)**	**05FDZ-ST(S)**	10.16	23.56	100
6	**06FDZ-BT(S)**	**06FDZ-ST(S)**	12.70	26.10	100
8	**08FDZ-BT(S)**	**08FDZ-ST(S)**	17.78	31.18	100
9	**09FDZ-BT(S)**	**09FDZ-ST(S)**	20.32	33.72	100
10	**10FDZ-BT(S)**	**10FDZ-ST(S)**	22.86	36.26	100
11	**11FDZ-BT(S)**	**11FDZ-ST(S)**	25.40	38.80	50
12	**12FDZ-BT(S)**	**12FDZ-ST(S)**	27.94	41.34	50
13	**13FDZ-BT(S)**	**13FDZ-ST(S)**	30.48	43.88	50
17	**17FDZ-BT(S)**	**17FDZ-ST(S)**	40.64	54.04	50
19	**19FDZ-BT(S)**	—	45.72	59.12	50

Material and Finish
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) Housing: Glass-filled PBT, UL94V-0

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: 19FDZ-BT(S) is not UL/CSA approved.

Lead section dimensions of FPC



Note: N --- Number of circuits

1-F

Others

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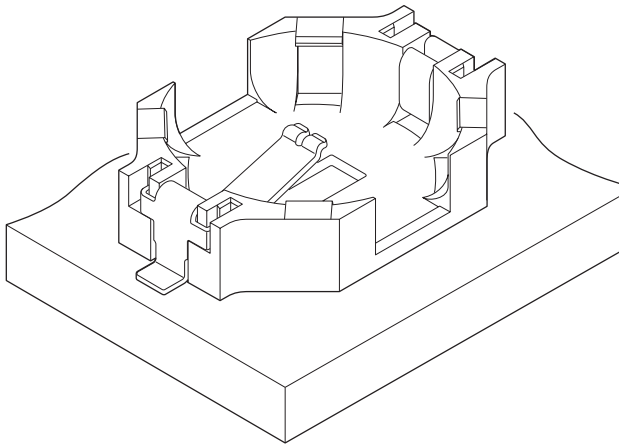
AYU3 CONNECTOR (Frequency up to 6GHz) 239

PB CONNECTOR

Emboss Tape



Connector for button batteries used in the compact mobile equipment such as mobile phones. Mounting cost will be reduced by using this connector in place of manual soldering. And, button batteries can be more easily disassembled after use for recycling's sake.

- ***Resistant to the shock***
- ***Double contact point***

Specifications

- Applicable batteries: 414 type battery/4.8mm dia. × 1.4 height
  518 type battery/5.8mm dia. × 1.8 height
  614 type battery/6.8mm dia. × 1.4 height
  621 type battery/6.8mm dia. × 2.1 height
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/100m Ω max.
  After environmental testing/120m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 500V AC/minute

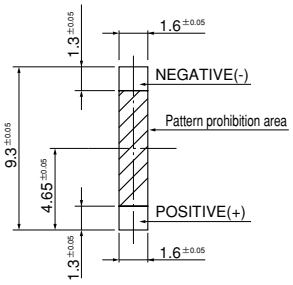
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

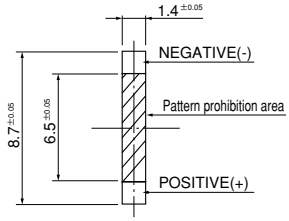
Recognized E60389

PC board layout (viewed from component side)

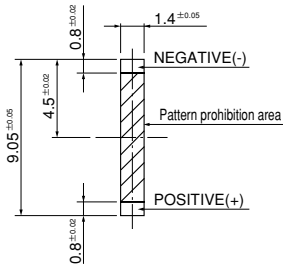
PB-414SR12K-TF



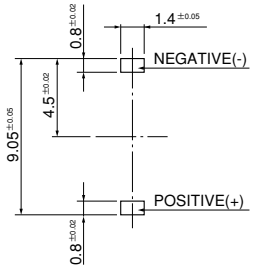
PB-414SS12-TF



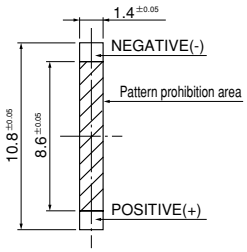
PB-518SR13-TF



PB-518SW13-TF

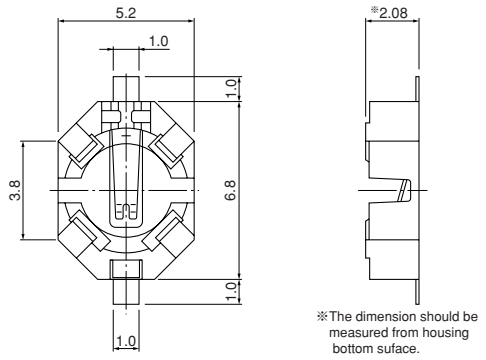


PB-614SS13-TF
PB-621SR13-TF

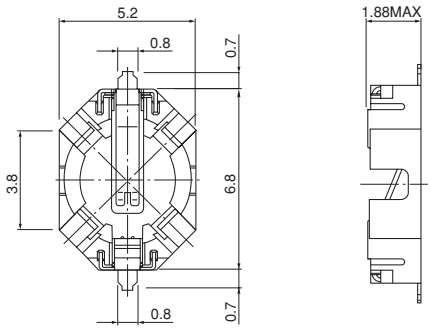


Connector

414 type

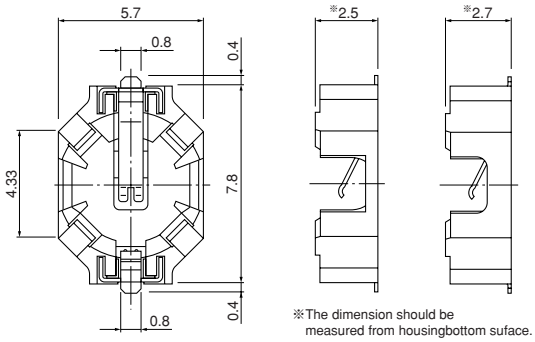


414 type/low profile

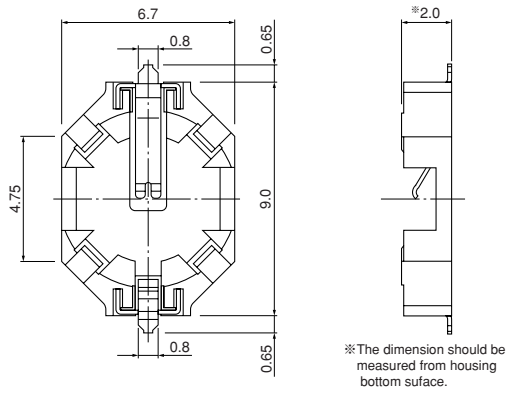


518 type

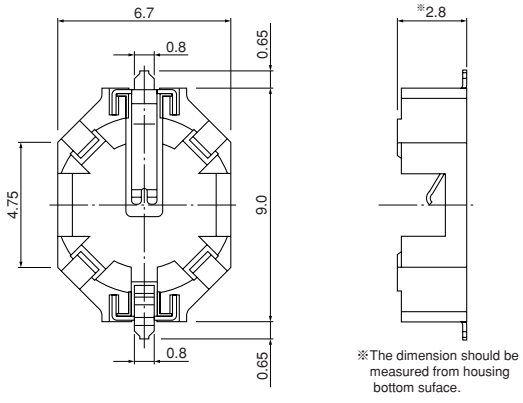
bottom overed



614 type



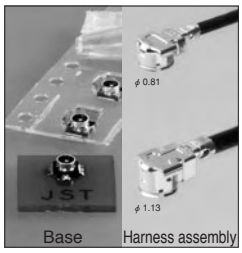
621 type



Type	Holder part	Model No.	Q'ty/ reel
414	Resin hook	**PB-414SR12K-TF**	3,000
414/low profile type	Resin hook	**PB-414SS12-TF**	3,000
518	Resin hook	**PB-518SR13-TF**	2,000
518/bottom covered	Resin hook	**PB-518SW13-TF**	2,000
614	Resin hook	**PB-614SS13-TF**	2,000
621	Resin hook	**PB-621SR13-TF**	2,000

Material and Finish
Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Glass-filled LCP, UL94V-0, natural (ivory), black (414 type) Holder contact: Copper alloy, nickel-undercoated, gold-plated (614 type with metal hook)

RoHS compliance

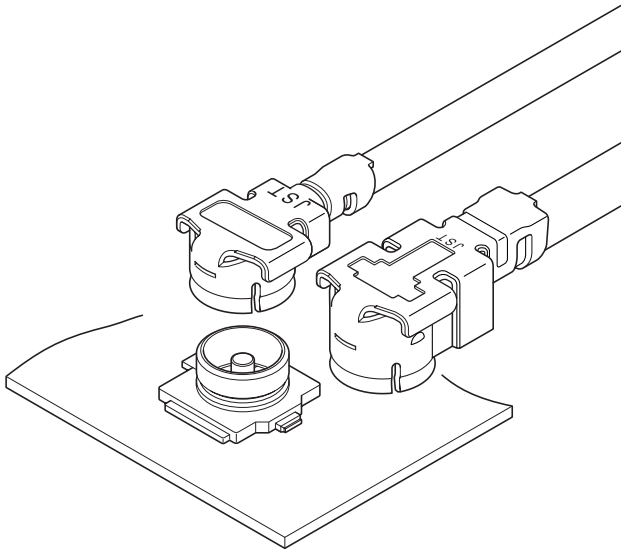


AYU1 CONNECTOR

Emboss Tape

Co-axial connector

Frequency from DC to 12GHz



This is SMT type, space saving and co-axial connector, corresponding to notebook PC, thinner and lighter telecommunications apparatus, etc.

[Application]
UWB, WiMAX, Wireless LAN, Bluetooth, DSRC, Mobile phones, PDA, GPS, Express, etc.

- ***This connector can also be applicable the frequency of 12GHz or more.***
- ***Space saving and low profile design***
- ***Easy mating and unmating connector***
- ***Adopting extra fine diameter high frequency cable***

Specifications

- Impedance: 50 Ω
- Frequency range: DC to 12GHz
- Voltage standing wave ratio (V.S.W.R.)

	Cable type	DC to 3GHz	3 to 6GHz	6 to 12GHz
Harness	φ 0.81 (Single shield SA)	1.3max.	1.3max.	1.4max.
	φ 1.13 (Double shields TA)	1.3max.	1.4max.	1.4max.
Base		1.3max.	1.4max.	1.5max.

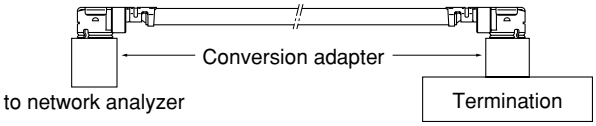
- Insertion loss (dB/m)

	Cable type	3GHz	6GHz	12GHz
Harness	φ 0.81 (Single shield SA)	5.8	9.4	14.9
	φ 1.13 (Double shields TA)	2.9	4.1	6.1
Base		—	—	—

Note: The specified values in above tables were measured by network analyzer as shown in the figure below.

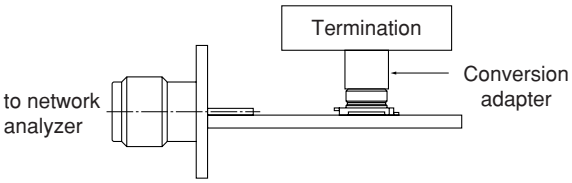
[Harness]

Harness: Both end harness assembly with harness of 5,000mm
SMA conversion adapter: AYU1-AP-PP



[Base]

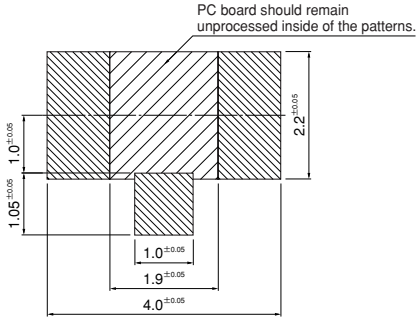
Base: AYU1-1P-02676-120
SMA conversion adapter: AYU1-AP-JJ



- Temperature range: - 25˚C to + 85˚C (including temperature rise in applying electrical current)
- Withstanding voltage: 200V AC/minute

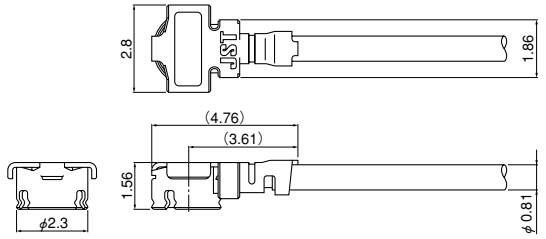
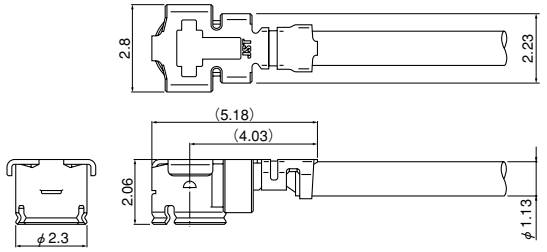
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

PC board layout (viewed from component side)



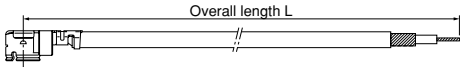
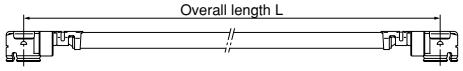
Note: Tolerances are non-cumulative: ±0.05mm for all centers. The dimensions above are our recommendation value.

Socket (Harness assembly)

AYU1（φ0.81）Harness	AYU1（φ1.13）Harness
	

Material and Finish
Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Thermoplastic resin, UL94V-0 Shell: Copper alloy, copper-undercoated, silver-plated

Harness specifications

Cable type (Specifications for outer diameter and outer conductor)	 Harness model No. (Single end harness)	 Harness model No. (Both end harness)
φ0.81 (Single shielded, SA)	**AYU1-1S21-SYYYY-ZZZV (LF)**	**AYU1-1S21-XYYYY-000V (LF)**
φ1.13 (Double shielded, TA)	**AYU1-1S13-SYYYY-ZZZV (LF)**	**AYU1-1S13-XYYYY-000V (LF)**

Note 1) Type of outer conductor SA: Silver-plated annealed copper wire, TA: Tin-plated annealed copper wire
Note 2) The following alphabet and number shall be put in the model No.
X...alphabet denotes cable end treatment (D: Both end harness/same direction, R: Both end harness/reverse direction)
Y...number denotes harness length
Z...number denotes strip length
V...alphabet denotes color identification (Blank: Black, G: Gray, W: White, B: Blue)

Example 1... φ1.13mm (double shielded, TA) cable, connector end processing: both end harness (same direction), harness length: 251mm, wire color: black
Model No.: AYU1-1S13-D0251-000(LF)
Example 2... φ0.81mm (single shielded, SA) cable, connector end processing: single end harness, harness length: 800mm,
strip length: [inner conductor 2.0mm, insulator 1.0mm, outer conductor 3.0mm], wire color: white
Model No.: AYU1-1S21-S0800-213W(LF)

Note 3) Contact JST for details about overall length and connector end processing.

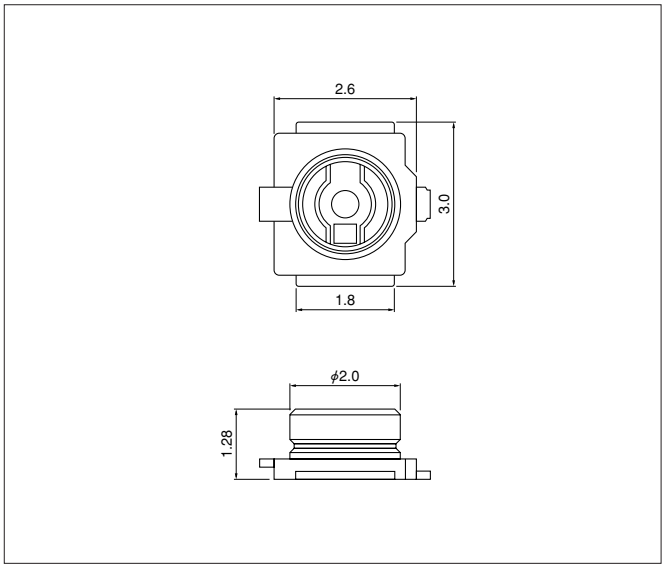
Harness overall length standard tolerance

Overall length L (mm)	Standard tolerance (mm)
35≦L≦200	±4
200＜L≦500	±8
500＜L≦1000	±12
1000＜	±1.5%

Note: The shortest length L=35mm

AYU1 CONNECTOR

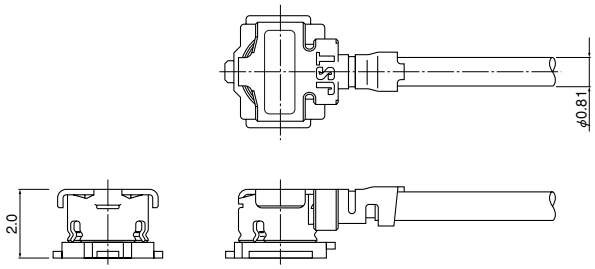
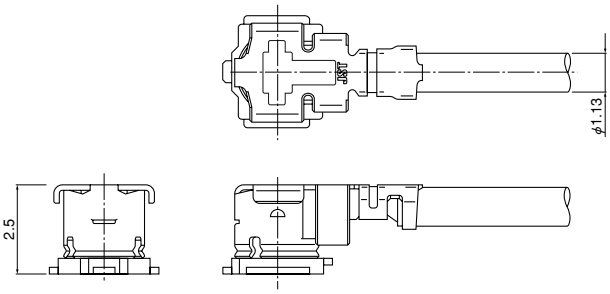
Base



Model No.	Material and Finish	Q'ty / reel
AYU1-1P-02676-120	Contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Heat resisting resin, UL94V-0 Shell: Copper alloy, copper-undercoated, silver-plated	5,000

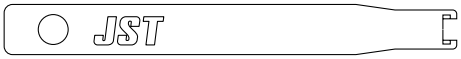
RoHS compliance

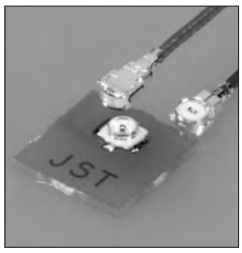
Assembly layout

AYU1（φ0.81）Harness	**AYU1**（φ1.13）Harness
	

Insertion and extraction jig

Model No.: EJ-AYU1



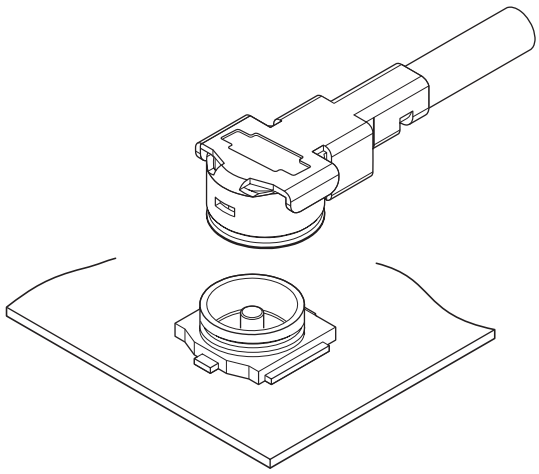


AYU3 CONNECTOR

Emboss Tape

Co-axial connector

Frequency up to 6GHz



Miniaturized coaxial connector that responds to miniaturized telecommunications apparatus.

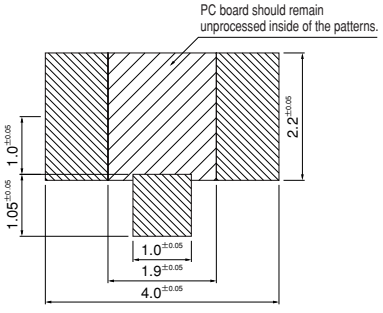
- ***Space saving design***
- ***High performance of electrical feature***
- ***Embossed taping for automatic mounting***

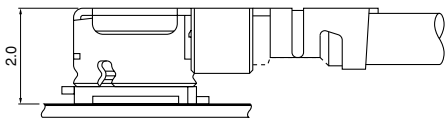
Specifications

- Characteristic impedance: 50Ω
- Frequency range: 0.045MHz to 6GHz
- Voltage standing wave ratio: 1.3 max.
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Withstanding voltage: 200V AC/minute

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

PC board layout (viewed from component side) and Assembly layout

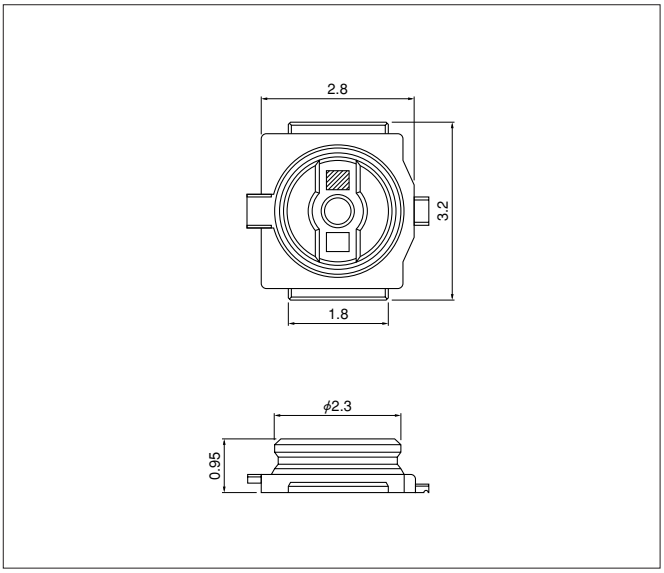




Note: Tolerances are non-cumulative: ±0.05mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

AYU3 CONNECTOR

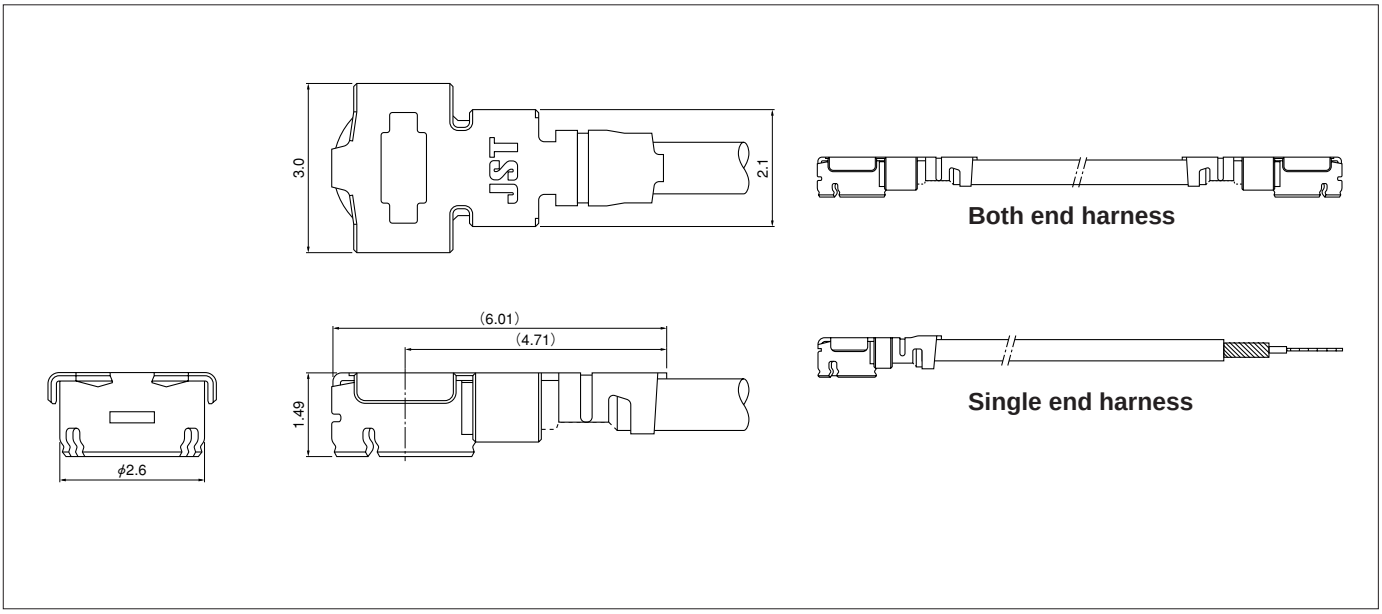
Base



Model No.	Material and Finish	Q'ty / reel
AYU3-1P-02271-120	Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Heat resisting resin, UL94V-0 Shell: Copper alloy, copper-undercoated, silver-plated	3,000

RoHS compliance

Socket (Harness assembly)



Model No.	Material and Finish
AYU3-1S26-XYYYY-000V(Both end harness)	Contact: Copper alloy, nickel-undercoated, gold-plated Housing: Thermoplastic resin, UL94V-0 Shell: Copper alloy, copper-undercoated, silver-plated
AYU3-1S26-SYYYY-ZZZV (Single end harness)	

Note: 1. Contact JST for RoHS compliance of harness assembly.
2. The following alphabet and number shall be put in the model No.
X…alphabet denotes cable end treatment
Y…number denotes harness length
Z…number denotes strip length
V…alphabet denotes color identification
Example 1…Cable end treatment: both end harness, harness length: 251mm, wire color: yellow
Model No.: AYU3-1S26-D0251-000Y
Example 2…Cable end treatment: single end harness, harness length: 200mm, strip length: [conductor 2.0mm, dielectric 1.0mm, braided 1.0mm], wire color: red
Model No.: AYU3-1S26-S0200-211R
3. Contact JST for details about overall length and cable and treatment.

1-G

Card Connectors

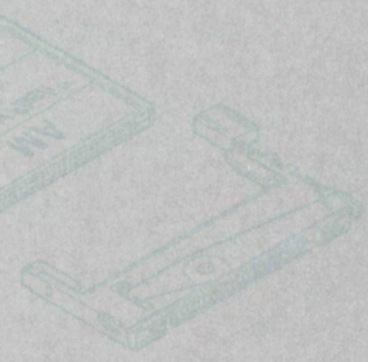


TABLE OF CONTENTS

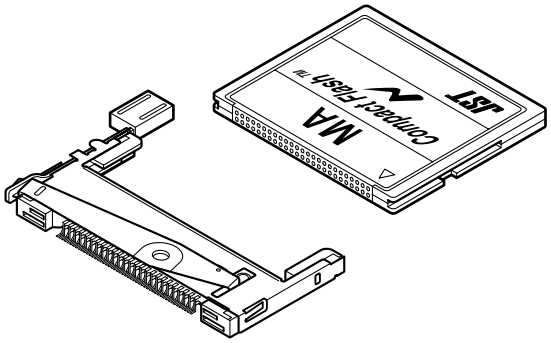
- 1.27mm pitch
- 2.54mm pitch
- ————————

CF card CONNECTOR MA type 242
SCK CONNECTOR 257
SCS CONNECTOR 259
SCX CONNECTOR 260
SD CONNECTOR 261
SDK CONNECTOR 262

CF CARD CONNECTOR MA Type

Emboss Tape

1.27mm pitch/50-circuit CF card connector



- ***Socket / Dual-row straddle type, SMT type***
- ***Card frame / for type Ⅰ cards***
- ***Adapter / for type Ⅰ, Ⅱ cards***
- ***Header / for type Ⅰ, Ⅱ cards***
- ***Ejector / for type Ⅰ, Ⅱ cards***

In addition to the connectors applicable to CF type Ⅰ cards, those for CF type Ⅱ cards are also available.

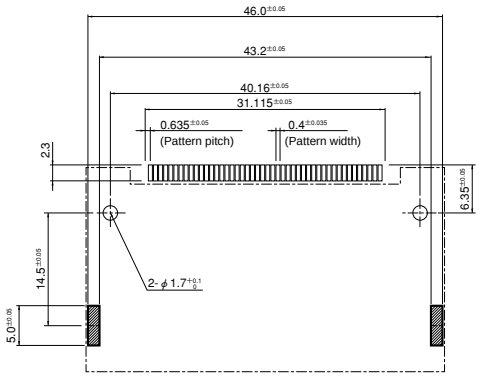
Specifications

- Pitch: 1.27mm
- Type: Dual-row at mating section
- Current rating: 0.5A AC, DC/line
- Temperature range: -20˚C to +60˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max. After environmental testing/20m Ωmax. (variation from initial value)
- Insulation resistance: 1,000M Ωmin. 500V DC (Except for Adapter cards)
- Withstanding voltage: 500V AC/minute (Except for Adapter cards)
- Mating/unmating life: 10,000 cycles
- Conforms to CFA.

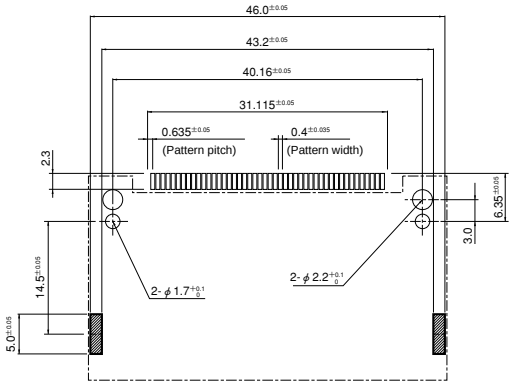
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

PC board layout (viewed from component side)

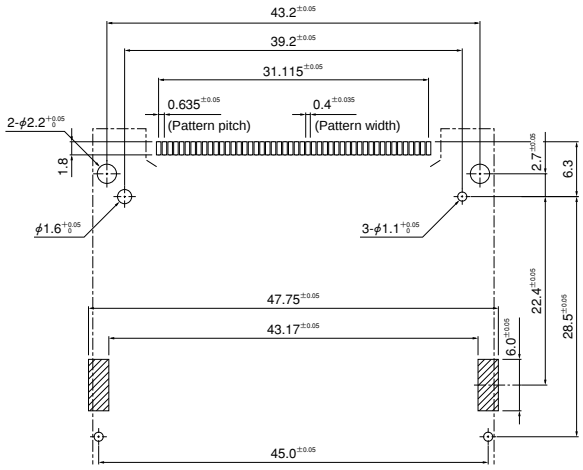
For Type Ⅰ cards/Stand off 0mm
Normal type/Reverse type



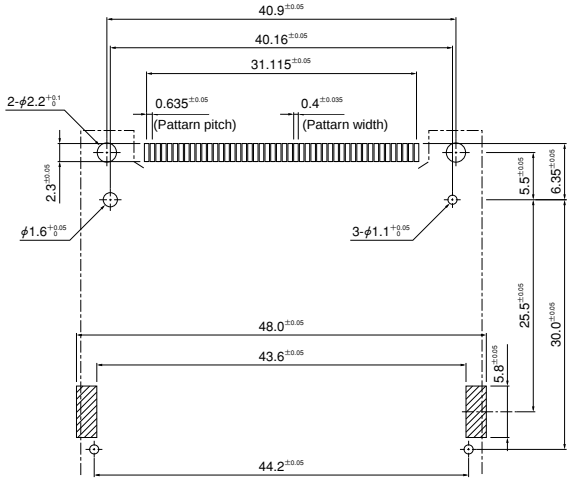
For Type Ⅰ cards/Stand off 1.64mm
Normal type/Reverse type



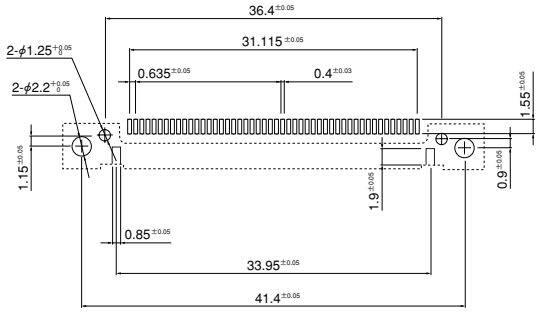
For Type Ⅱ cards/Stand off 0mm
Normal type



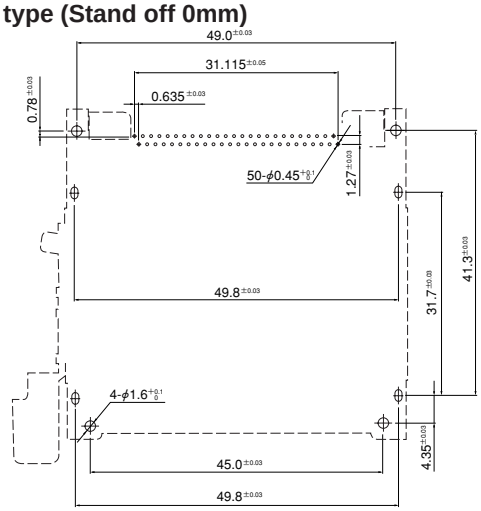
Reverse type



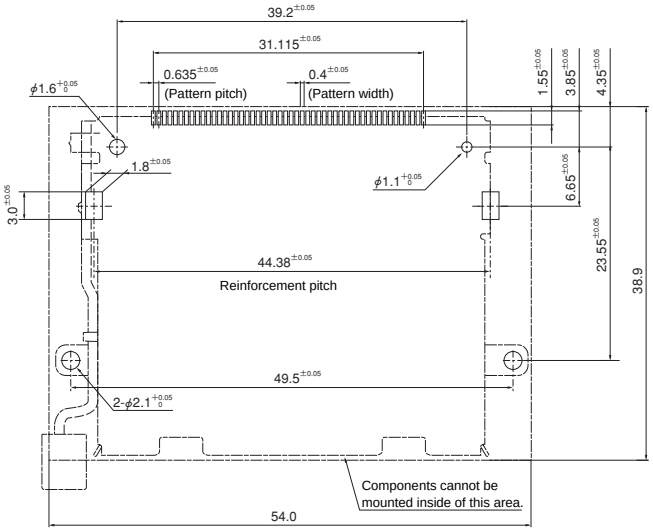
Space-saving type For Type Ⅰ cards/Stand off 0mm
Normal type/ Reverse type



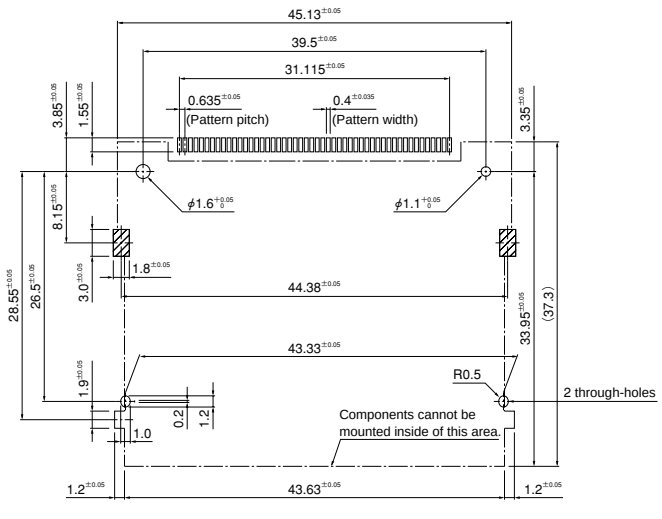
Ejector mounted header with shutter For Type Ⅱ cards
Reverse type (Stand off 0mm)



Space-saving type For Type Ⅱ cards/Stand off 0mm
Normal type



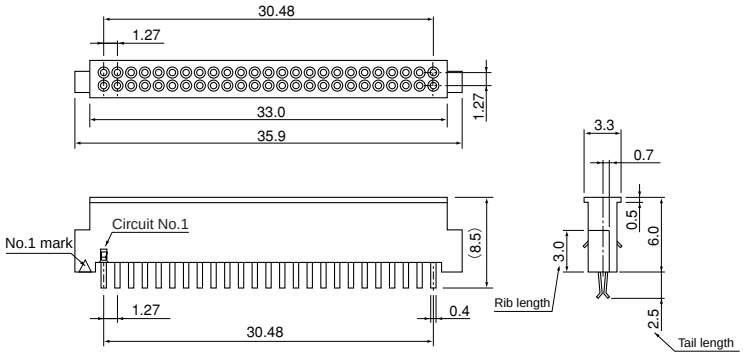
Reverse type



CF CARD CONNECTOR MA Type

Socket

Dual-row straddle type

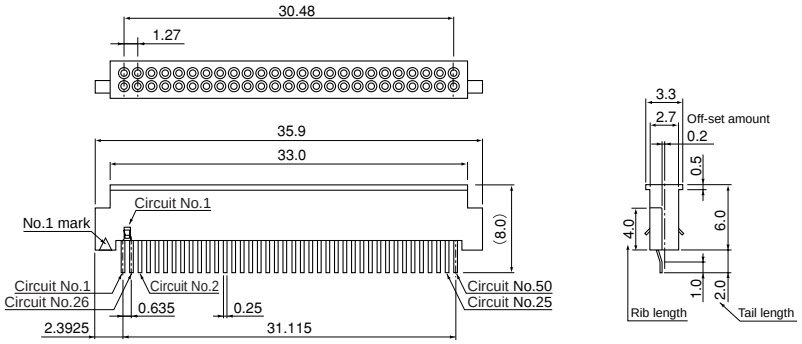


Circuits	Solder tail	Grounding spring	Off-set dimension	Rib length (mm)	Tail length (mm)	Model No.	Q'ty/box	Material and Finish
50	Dual-row straddle type	With (Circuit No.1, No.26)	Center	3.0mm	2.5mm	**ICM-MA50S-TS12-3032**	600	Contact: Copper-alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Grounding spring: Copper alloy nickel-undercoated, gold-plated Housing: LCP, UL94V-0, black

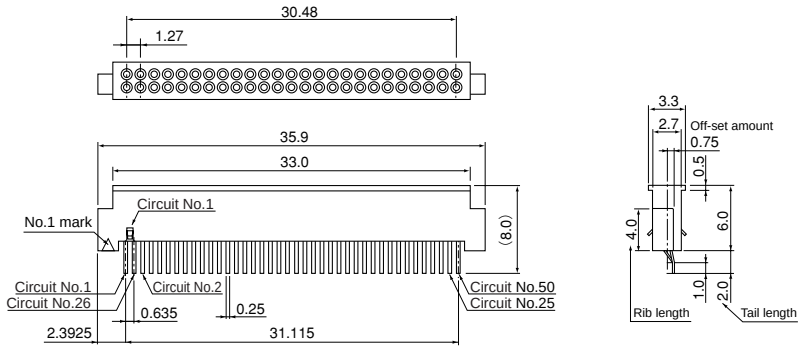
RoHS compliance *This product displays (LF)(SN) on a label.*

SMT type

ICM-MA50S-TS12-3021



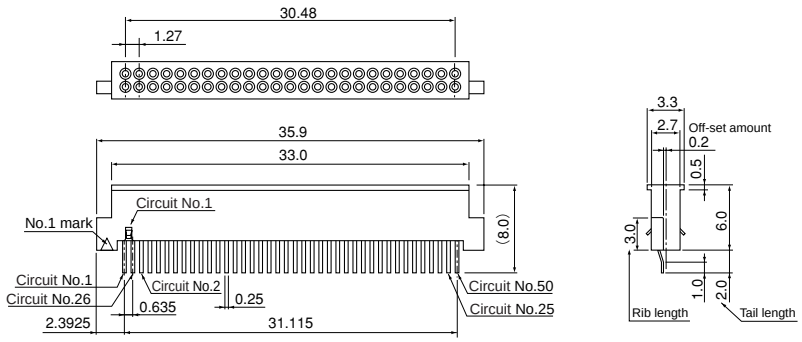
ICM-MA50S-TS12-3022



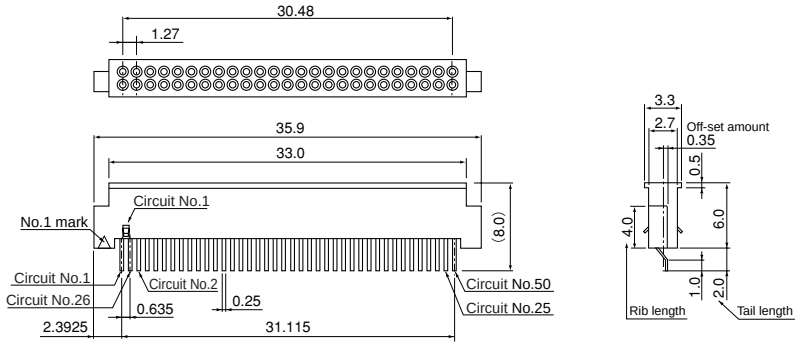
Socket

SMT type

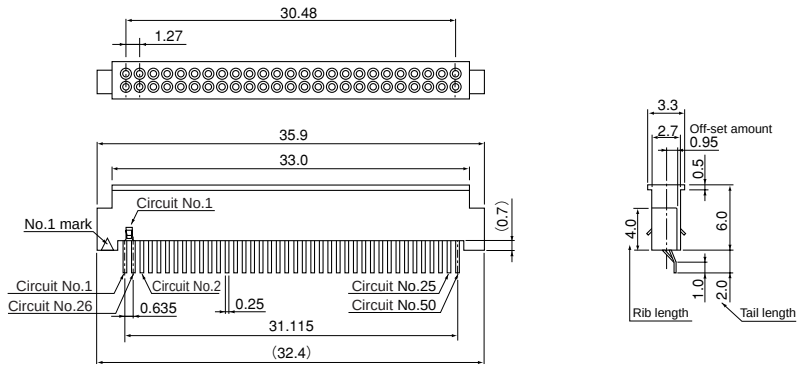
ICM-MA50S-TS12-3023



ICM-MA50S-TS12-3024



ICM-MA50S-TS12-3026

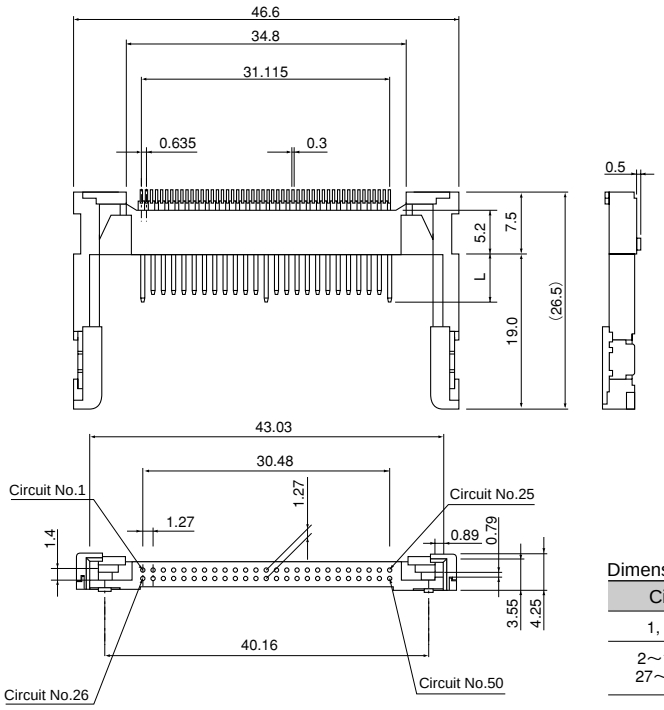


Circuits	Solder tail	Grounding spring	Off-set dimension (mm)	Rib length (mm)	Tail length (mm)	Model No.	Q'ty/reel	Material and Finish
50	SMT type	With (Circuit No.1, No.26)	0.2mm	4.0mm	2.0mm	**ICM-MA50S-TS12-3021T**	1,500	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Grounding spring: Copper alloy, nickel-undercoated, gold-plated Housing: LCP, UL94V-0, black
			0.75mm	4.0mm	2.0mm	**ICM-MA50S-TS12-3022T**	1,500	
			0.2mm	3.0mm	2.0mm	**ICM-MA50S-TS12-3023T**	1,500	
			0.35mm	4.0mm	2.0mm	**ICM-MA50S-TS12-3024T**	1,500	
			0.95mm	4.0mm	2.0mm	**ICM-MA50S-TS12-3026T**	1,500	

RoHS compliance *This product displays (LF)(SN) on a label.*

Header (for Type I cards)

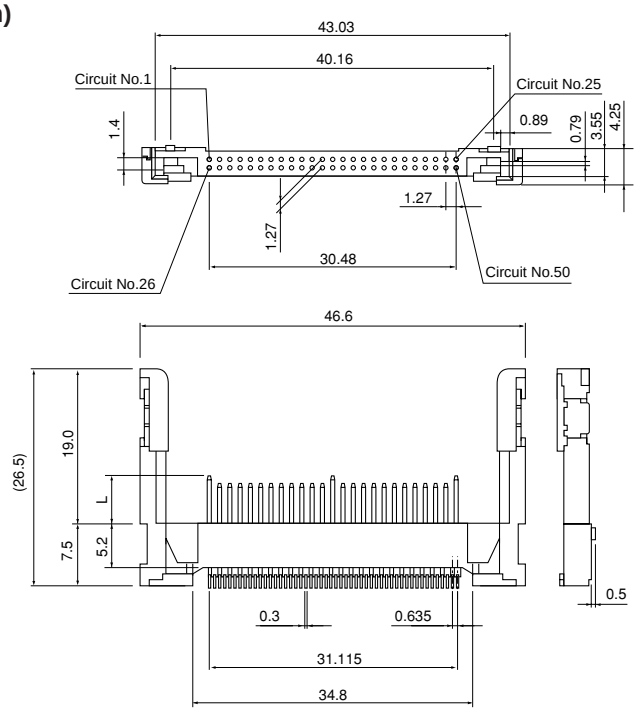
Normal type (Stand off 0mm)



Dimension L

Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2～12, 14～24, 27～37, 39～49	4.25 ±0.1
25, 26	3.5 ±0.1

Reverse type (Stand off 0mm)



Dimension L

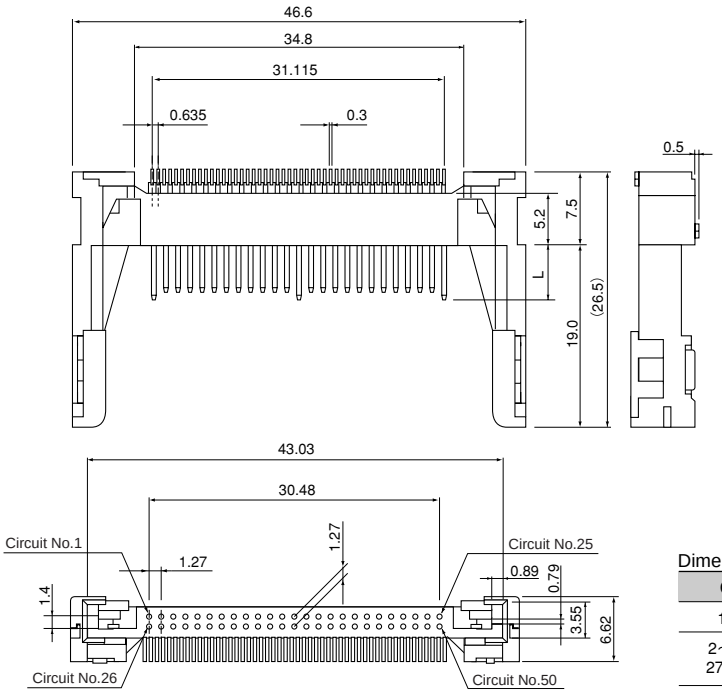
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2～12, 14～24, 27～37, 39～49	4.25 ±0.1
25, 26	3.5 ±0.1

Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Normal	**ICM-MA50H-SS52-1151**	180	Contact: Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)
	Reverse	**ICM-MA50H-SS52-1171**	180	

RoHS compliance *This product displays (LF)(SN) on a label.*

Header (for Type I cards)

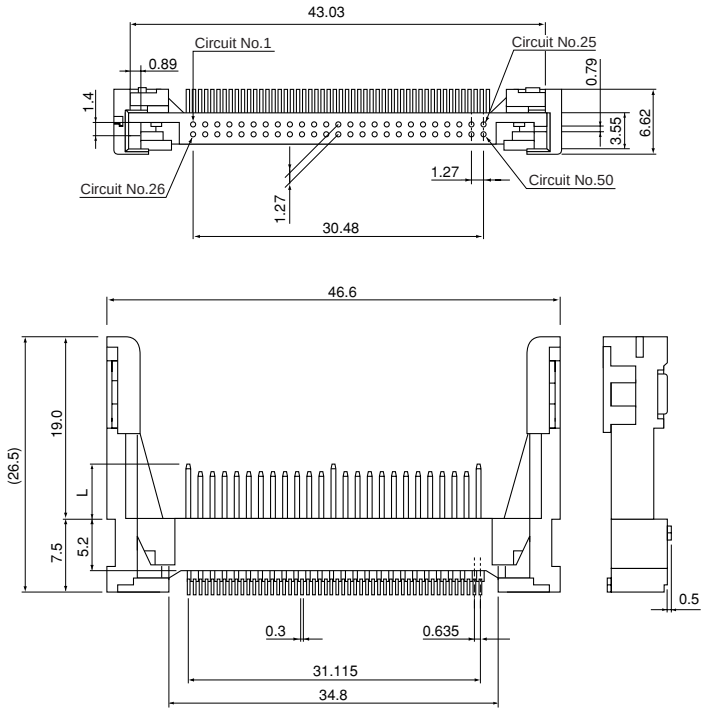
Normal type (Stand off 1.64mm)



Dimension L

Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2～12, 14～24, 27～37, 39～49	4.25 ±0.1
25, 26	3.5 ±0.1

Reverse type (Stand off 1.64mm)



Dimension L

Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2～12, 14～24, 27～37, 39～49	4.25 ±0.1
25, 26	3.5 ±0.1

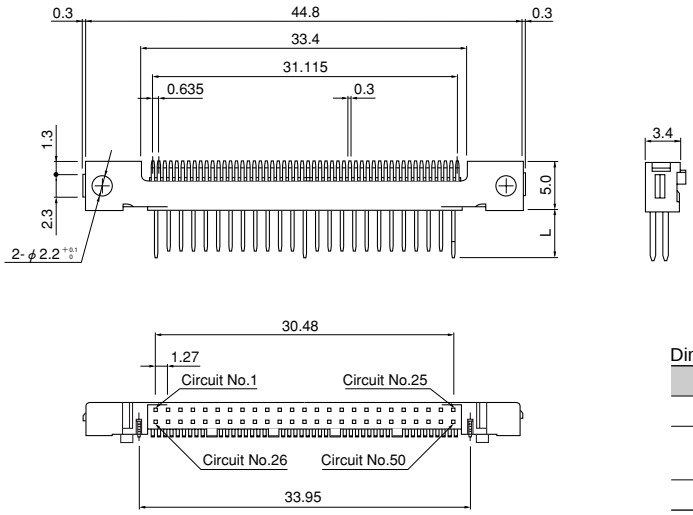
Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Normal	**ICM-MA50H-SS52-1141**	140	Contact: Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)
	Reverse	**ICM-MA50H-SS52-1161**	140	

RoHS compliance *This product displays (LF)(SN) on a label.*

CF CARD CONNECTOR MA Type

Header (for Type Ⅰ cards) / Space-saving type

Normal , Reverse types
(Stand off 0mm)



Dimension L

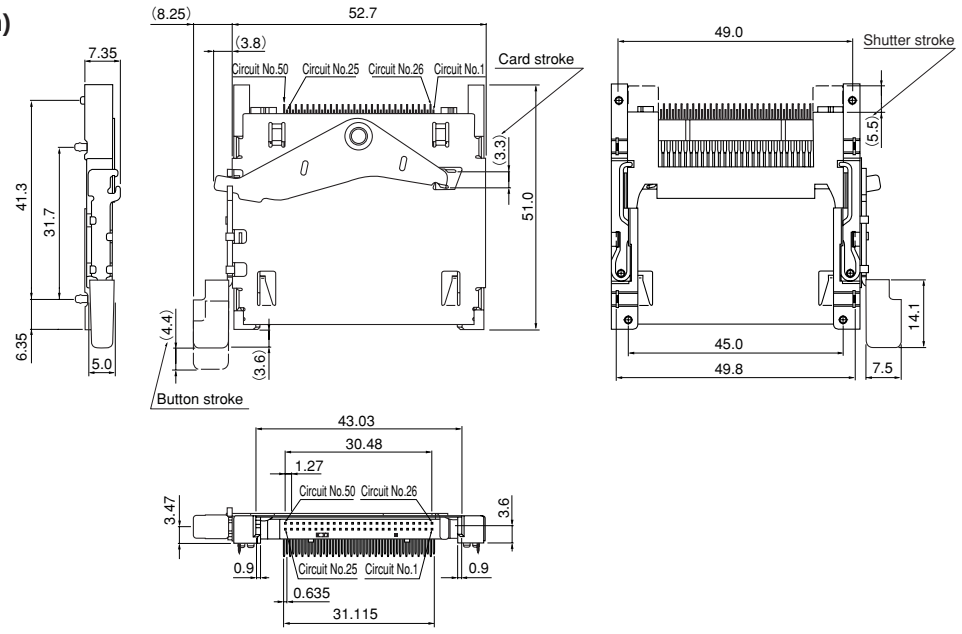
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2～12, 14～24, 27～37, 39～49	4.25 ±0.1
25, 26	3.5 ±0.1

Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Normal Reverse	**ICM-MA50H-SS52-1184**	1,850	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0, black Solder tab: Copper alloy, nickel-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Ejector mounted header with shutter (for Type Ⅱ cards)

Reverse type
(Stand off 0mm)

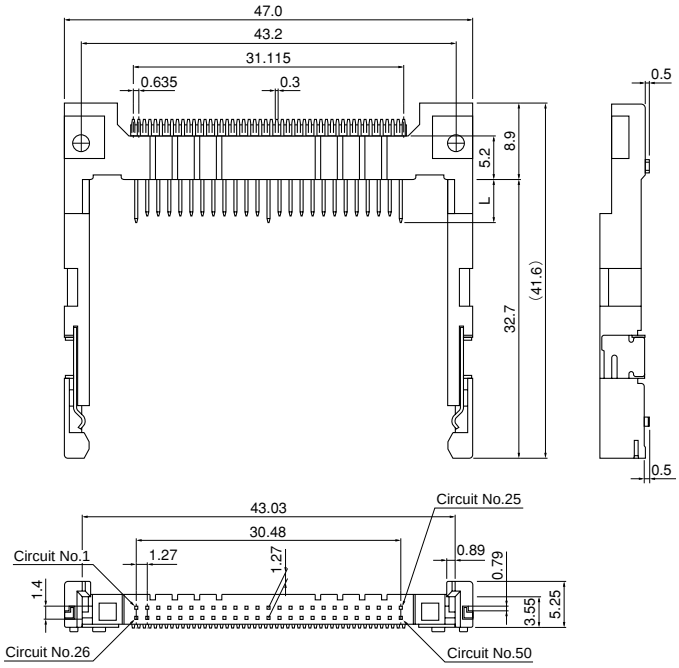


Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Reverse	**ICM-MA2SL-SD12-RL31**	128	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing/ Guide bar/ Push button: PPS, UL94V-0, black Lock/ Rotation arm/ Push bar: Stainless Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated

RoHS compliance *This product displays (LF)(SN) on a label.*

Header (for Type Ⅱ cards)

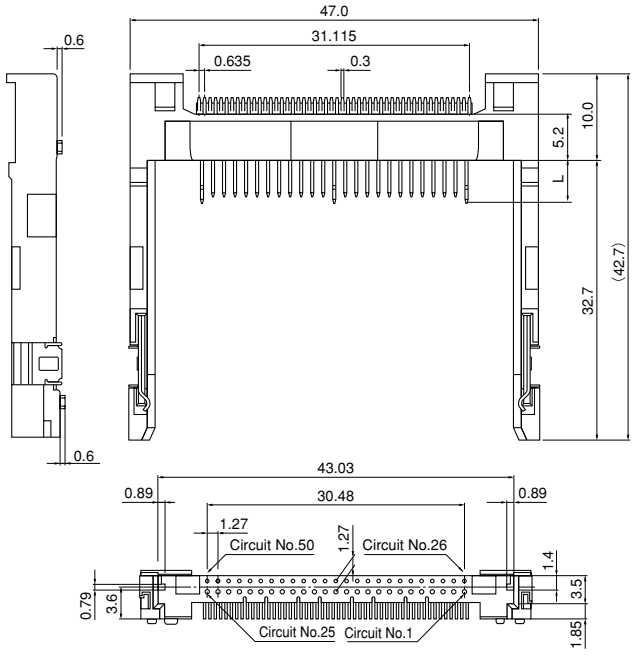
Normal type (Stand off 0mm)



Dimension L

Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2～12, 14～24, 27～37, 39～49	4.25 ±0.1
25, 26	3.5 ±0.1

Reverse type (Stand off 0mm)



Dimension L

Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2～12, 14～24, 27～37, 39～49	4.25 ±0.1
25, 26	3.5 ±0.1

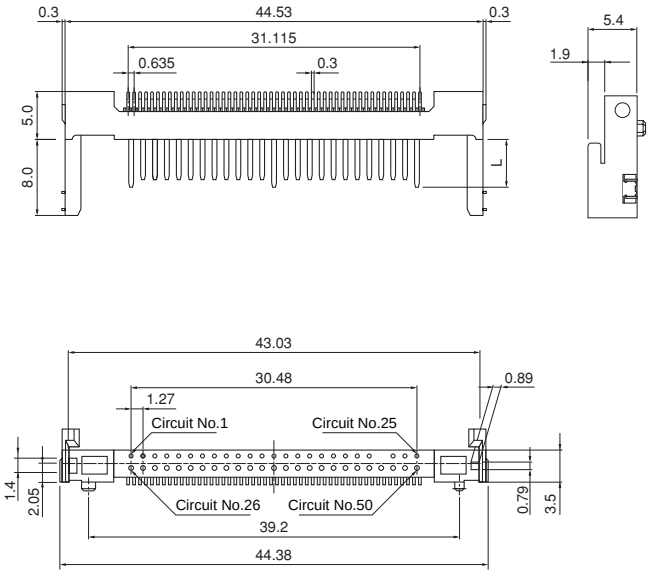
Circuits	Type	Model No.	Q'ty / box	Material and Finish
50	Normal	**ICM-MA2H-SS52-N11B**	84	Contact: Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0, black Solder tab: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
	Reverse	**ICM-MA2H-SS52-R21A**	84	Contact: Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: LCP, UL94V-0, black Solder tab: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

CF CARD CONNECTOR MA Type

Header (for Type Ⅱ cards) / Space-saving type

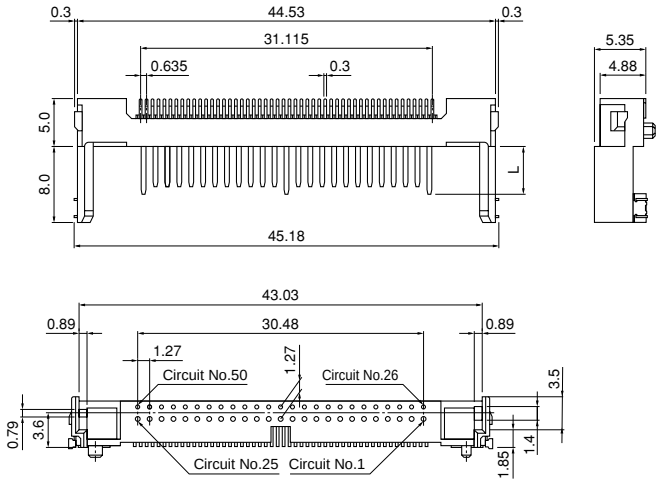
Normal type (Stand off 0mm)



Dimension L

Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2～12, 14～24, 27～37, 39～49	4.25 ±0.1
25, 26	3.5 ±0.1

Reverse type (Stand off 0mm)



Dimension L

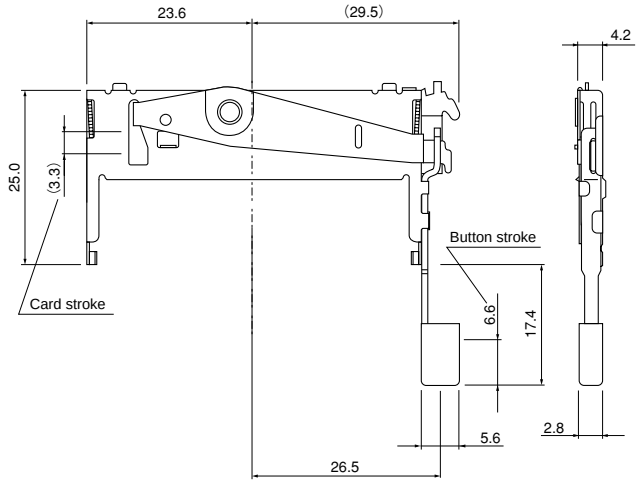
Circuit No.	Dimensions (mm)
1, 13, 38, 50	5.0 ±0.1
2～12, 14～24, 27～37, 39～49	4.25 ±0.1
25, 26	3.5 ±0.1

Circuits	Type	Model No.	Q'ty / reel	Material and Finish
50	Normal	**ICM-MA2H-SS52-N13LT**	750	Contact: Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0 Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)
	Reverse	**ICM-MA2H-SS52-R13HT**	750	

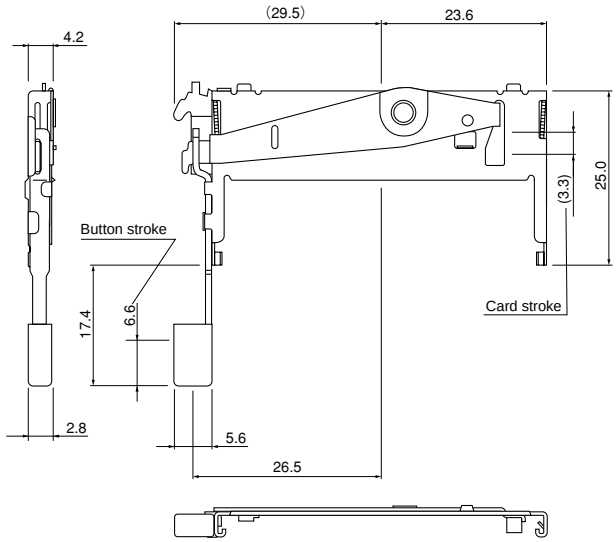
RoHS compliance *This product displays (LF)(SN) on a label.*
This products listed above are supplied on embossed-tape.

Ejector (for Type Ⅰ Header)

Right button



Left button

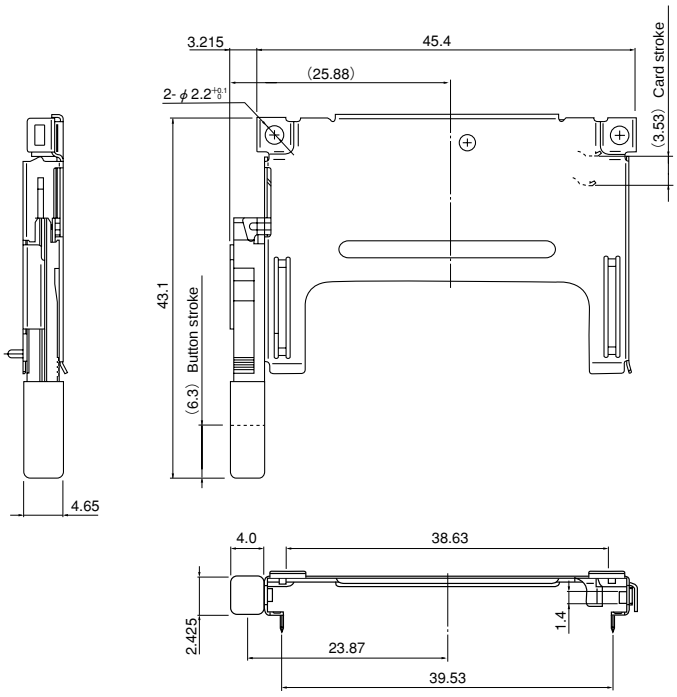


Type	Model No.	Q'ty / box	Material	Applicable header
Right button	**ICM-MAE-R01**	100	Frame/ Rotation arm : Stainless Push button: PPS, UL94V-0, black	ICM-MA50H-SS52-1141 ICM-MA50H-SS52-1151 ICM-MA50H-SS52-1161 ICM-MA50H-SS52-1171
Left button	**ICM-MAE-L01**	100		

RoHS compliance *Applicable headers display (LF)(SN) on a label.*

Ejector mounted header (for Type Ⅰ Header) / Space-saving type

Left button

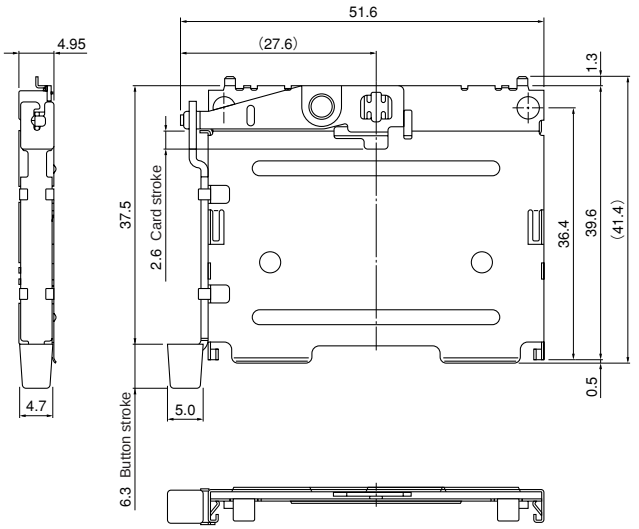


Type	Model No.	Q'ty / box	Material and Finish	Applicable header
Reverse (Left button)	**ICM-MAE-L91ND**	252	Frame: Stainless, nickel-undercoated, tin/copper alloy-plated Rotation arm: Stainless Push button: Synthetic resin, UL94V-0, gray	ICM-MA50H-SS52-1184

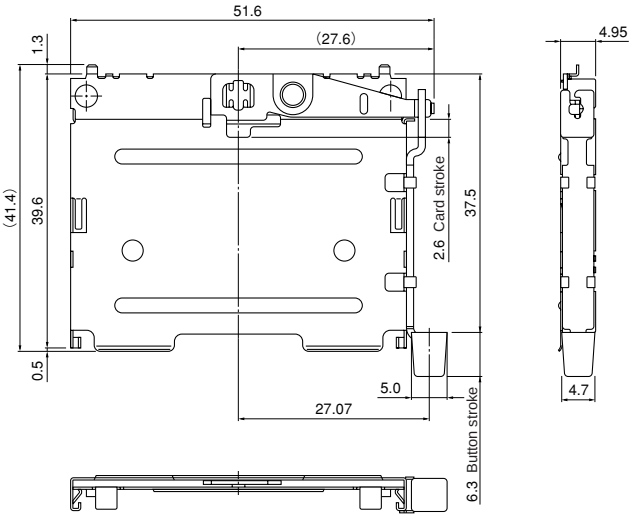
RoHS compliance *This product displays (LF) on a label.*
An applicable header displays (LF)(SN) on a label.

Ejector (for Type Ⅱ header)

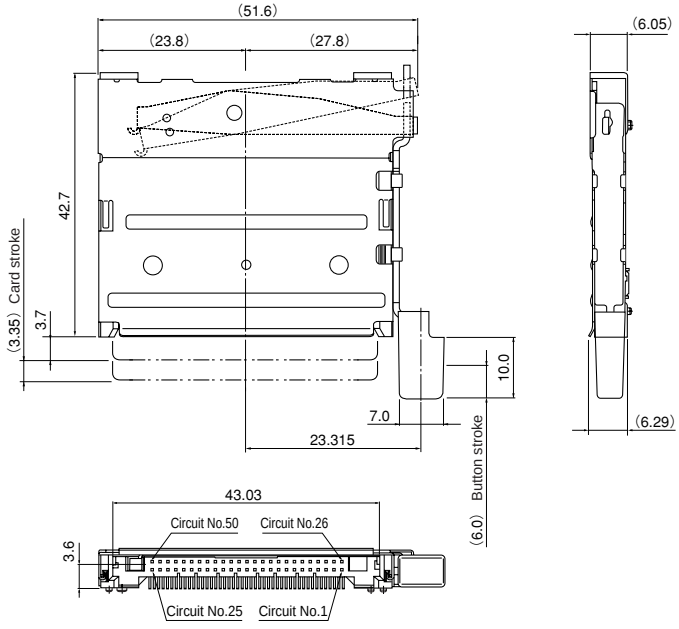
For Normal type header (Left button)



For Normal type header (Right button)



For Reverse type header (Right button)

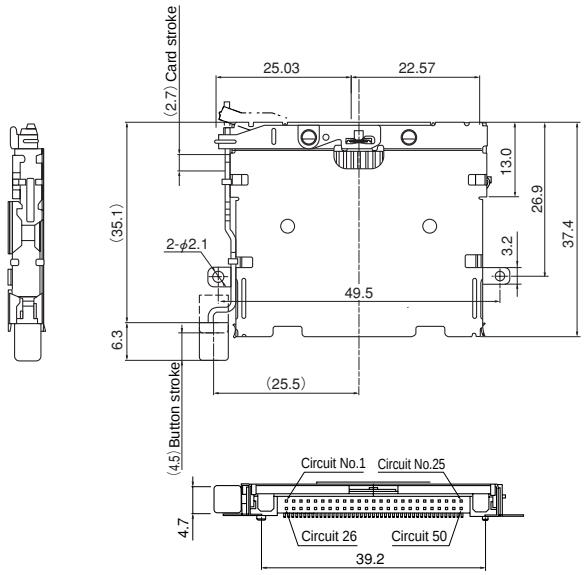


Type	Model No.	Q'ty / box	Material	Applicable header
For Normal type header (Left button)	**ICM-MAE-L33**	48	Frame/ Rotation arm/ Push bar/ Push plate/ Button shaft: Stainless Push button: PBT, UL94-0, black(R32), gray(L33)	ICM-MA2H-SS52-N11B
For Normal type header (Right button)	**ICM-MAE-R32**	48		
For Reverse type header (Right button)	**ICM-MAE-R21A**	48	Frame/ Rotation arm/ Push bar: Stainless Push button: PPS, UL94-0, black	ICM-MA2H-SS52-R21A

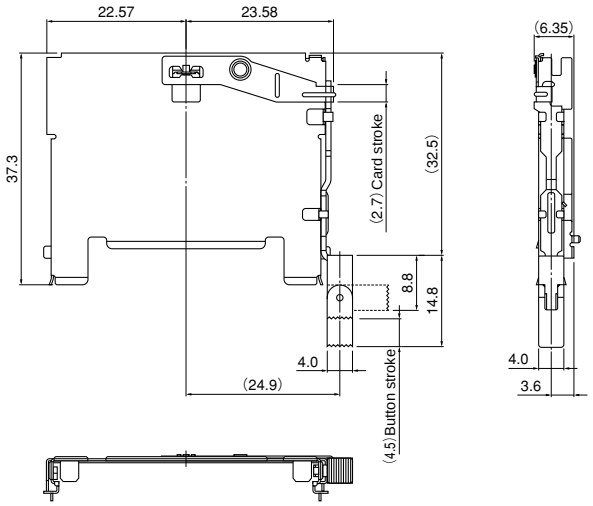
RoHS compliance *ICM-MAE-L33/ICM-MAE-R32 display (N) on a label.*
Applicable headers display (LF)(SN) on a label.

Ejector (for Type Ⅱ header) / Space-saving type

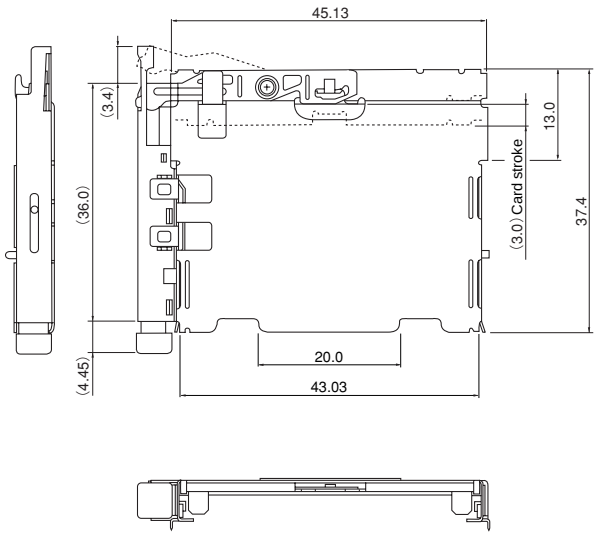
For Normal type header
(Stand off 0mm) Left button



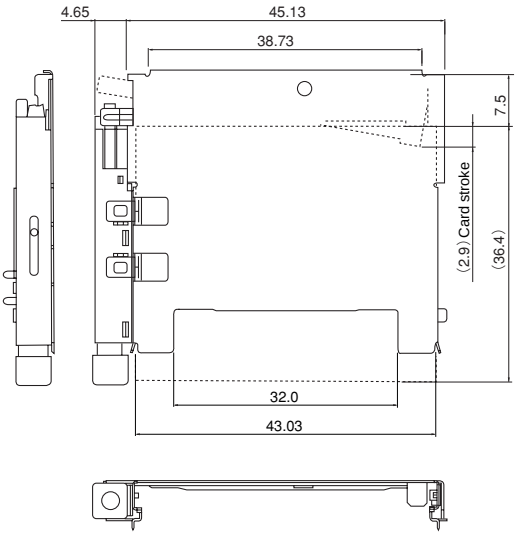
For Reverse type header
(Stand off 0mm) Right button



For Normal type header
(Stand off 0mm) Left button/Push-push type



For Reverse type header
(Stand off 0mm) Left button/Push-push type



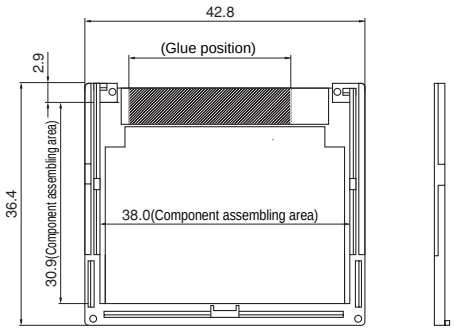
Type	Model No.	Q'ty / box	Material and Finish	Applicable header
For Normal type header (Stand off 0mm) Left button	**ICM-MAE-L73FA**	36	Rotation arm/Push bar/Push plate/ Frame: Stainless Button: PBT, UL94V-0, gray	ICM-MA2H-SS52-N13L ICM-MA2H-SS52-N13LT
For Normal type header (Stand off 0mm) Left button, Push-push	**ICM-MA2EP-L520A**	36	Rotation arm/Push plate: Stainless Button: PBT, UL94V-0, black Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated	
For Reverse type header (Stand off 0mm) Right button	**ICM-MAE-R66C3**	36	Rotation arm/Push bar/Push plate/ Frame: Stainless Clinched button: Synthetic resin, black Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated	ICM-MA2H-SS52-R13HT
For Reverse type header (Stand off 0mm) Left button, Push-push	**ICM-MA2EP-L810E**	36	Arm: Stainless Push button: Synthetic resin, UL94V-0, black Frame: Stainless, selective nickel-undercoated, tin/copper alloy-plated	

RoHS compliance *ICM-MAE-R66C3 display (LF) on a label.*
ICM-MA2EP-L520A/ICM-MA2EP-L810E display (LF) on a label.
Applicable headers display (LF)(SN) on a label.

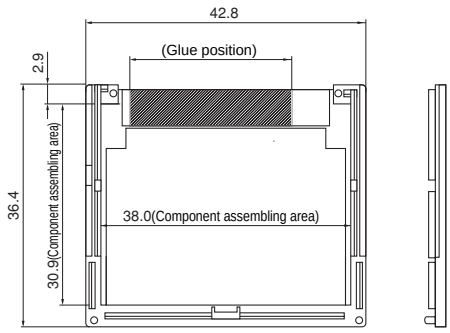
Card frame (for Type I cards)

ICM-MA50F-A/B-FB-C

Frame A



Frame B

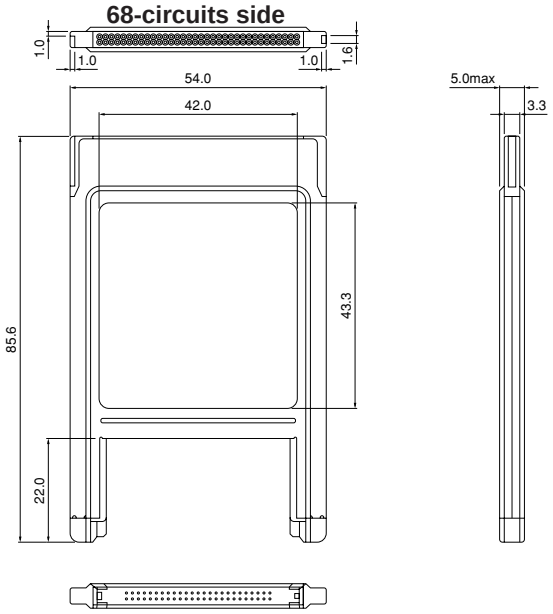


Circuits	Model No. as a set (Frame A + Frame B)	Applicable socket	Q'ty / box	Material
50	**ICM-MA50F-A/B-FB-CA**	**ICM-MA50S-TS12-3032**	150	Frame: Glass-filled PBT, UL94V-0 Cover: Stainless
		ICM-MA50S-TS12-3023T		

RoHS compliance

Adapter card

For CF Type Ⅰ cards
(PC card 5V key)

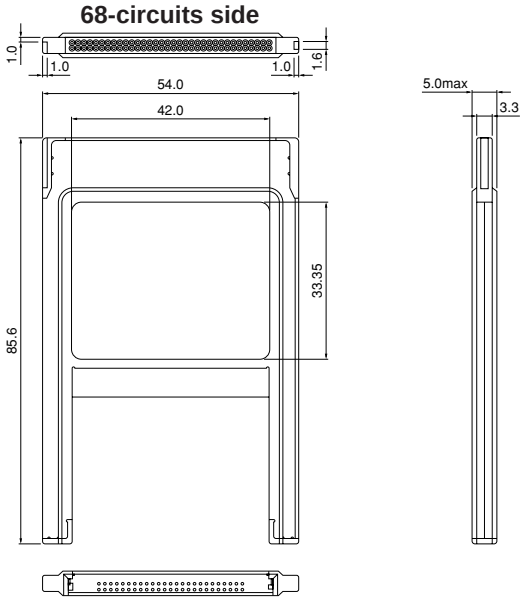


Model No.	Q'ty / box	Material and Finish		
ICM-MA50A-C441N	48	50-circuits side Header	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0	Cover: Stainless Frame: PBT, UL94V-0 PC board: Glass-epoxy, UL94V-0
		68-circuits side Socket	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: LCP, UL94V-0 Grounding spring: Copper alloy, nickel-undercoated, gold-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

Adapter card

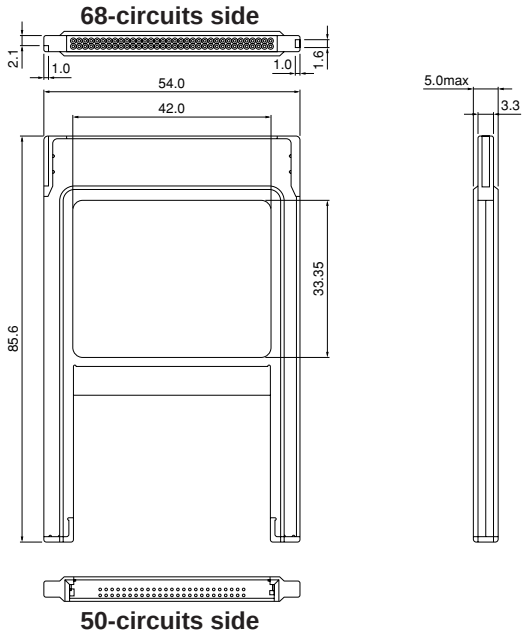
For CF Type Ⅱ cards
(PC card 5V key
with grounding clip spring)



Model No.	Q'ty / box	Material and Finish		
ICM-MA2A-C454N	48	50-circuits side Header	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0	Cover: Stainless Frame: PBT, UL94V-0 PC board: Glass-epoxy, UL94V-0 Contact spring: Copper alloy Shutter: PPS, UL94V-0 Spring: Stainless Lock: Stainless
		68-circuits side Socket	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: LCP, UL94V-0 Grounding spring: Copper alloy, nickel-undercoated, gold-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

For CF Type Ⅱ cards
(PC card 3.3V key
with grounding clip spring)



Model No.	Q'ty / box	Material and Finish		
ICM-MA2A-CL454N	48	50-circuits side Header	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: PPS, UL94V-0	Cover: Stainless Frame: PBT, UL94V-0 PC board: Glass-epoxy, UL94V-0 Contact spring: Copper alloy Shutter: PPS, UL94V-0 Spring: Stainless Lock: Stainless
		68-circuits side Socket	Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Housing: LCP, UL94V-0 Grounding spring: Copper alloy, nickel-undercoated, gold-plated	

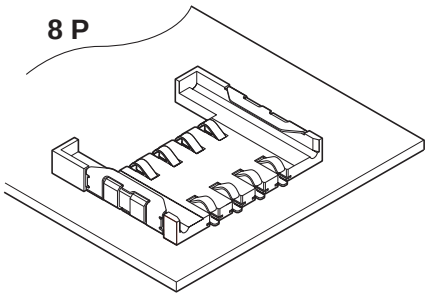
RoHS compliance *This product displays (LF)(SN) on a label.*

SCK CONNECTOR

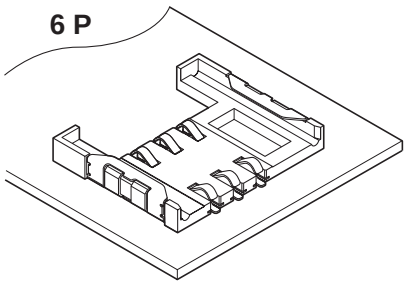
Emboss Tape

2.54mm pitch

8 P



6 P



The connector is designed for the SIM Card, complying with the GSM11.11 standard, which will be used in the European digital GSM mobile phones. This connector is also suitable for the USIM Card to be used in the Third Generation (3G) mobile network (W-CDMA).

- ***Durability***
- ***Abundant variations***
- ***Embossed tape for automatic mounting***

Specifications

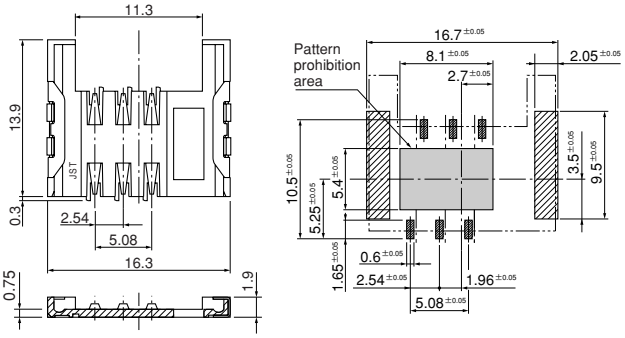
- Current rating: 1.0A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/40m Ω max.
  After environmental testing/60m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 500V AC/minute

* Evaluate connector in actual equipment before use.
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Connector and PC board layout (viewed from component side)

1.9mm height

<6 circuits>



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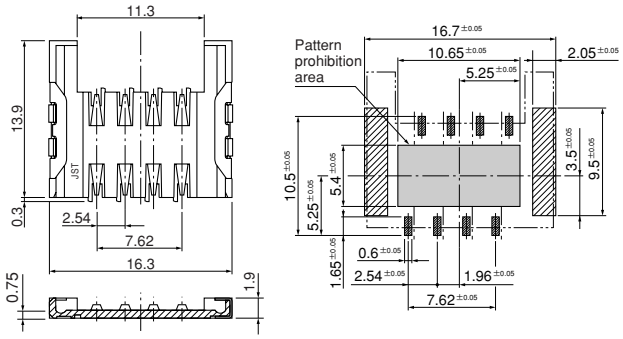
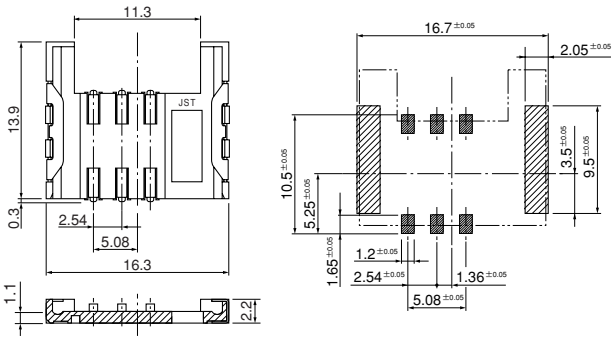


Connector

2.2mm height

<6 circuits>



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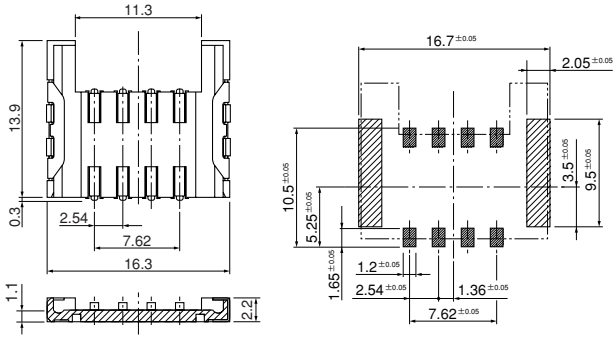
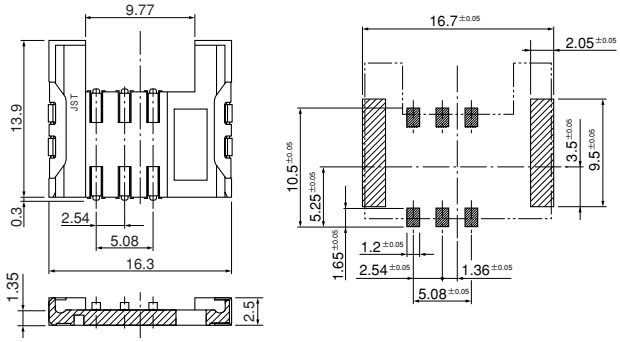


2.5mm height

<6 circuits>



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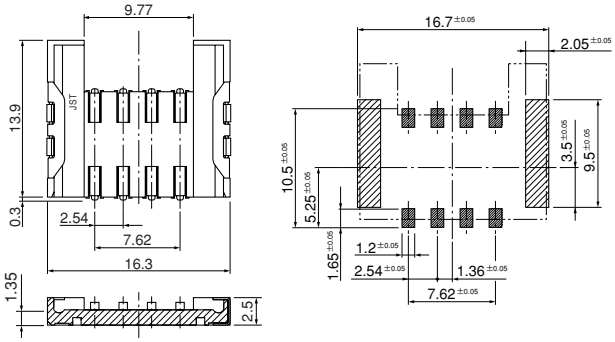
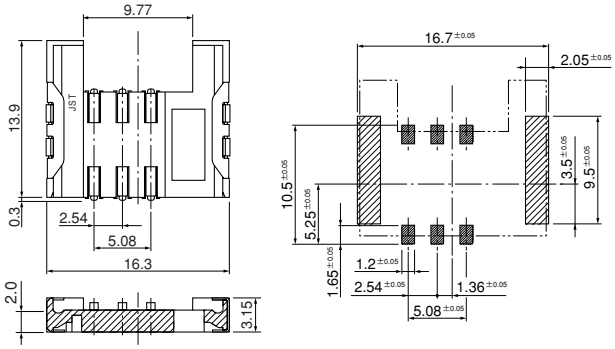


3.2mm height

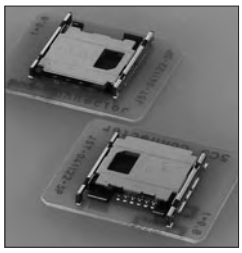
<6 circuits>



Circuits	Model No.			
	Height (mm)			
	1.9	2.2	2.5	3.2
6	**SCK-6C-02PT-TF**	**SCK-6S-02PT-TF**	**SCK-6A-02PT-TF**	**SCK-6B-02PT-TF**
8	**SCK-8C-02PT-TF**	**SCK-8S-02PT-TF**	**SCK-8A-02PT-TF**	—
Q'ty/ reel	1,200	1,000	1,000	500

Material and Finish
Contact: Copper alloy, nickel-undercoated, gold-plated Housing: LCP, UL94V-0, black Solder tab: Copper alloy, tin-plated (reflow treatment)

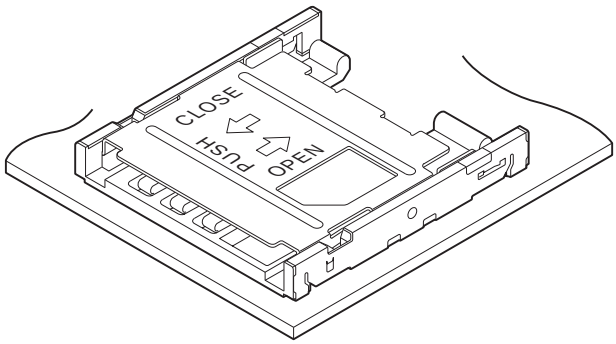
RoHS compliance



SCS CONNECTOR

2.54mm pitch

Emboss Tape



The 2.54mm SCS connector is designed for the Plug-in SIM Card, complying with the GSM 11.11 standard.

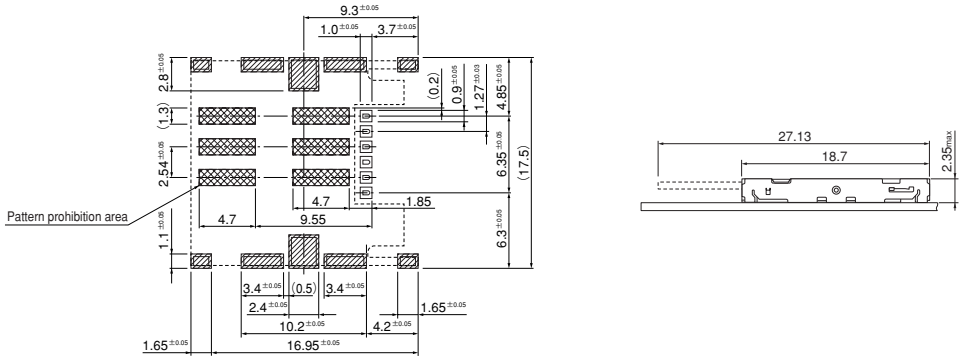
- ***Open tray type design***
- ***Slide lock mechanism design***
- ***Reducing the load given to contacts***
- ***Embossed tape for automatic mounting***

Specifications

- Current rating: 0.7A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
  After environmental testing/60m Ω max.
  (variation from initial value)
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute

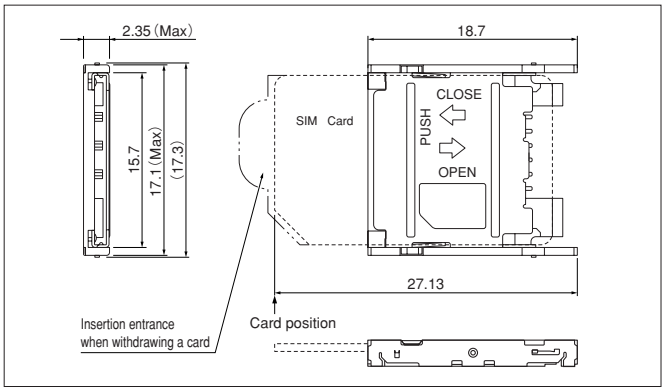
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

PC board layout (viewed from component side) and Assembly layout



Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector

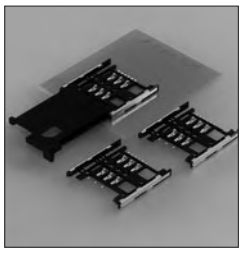


Circuits	Model No.	Q'ty / reel
6	**SCS-6S-1K-ST03-T-TB**	1,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, nickel-undercoated, gold-plated
Tray: Stainless

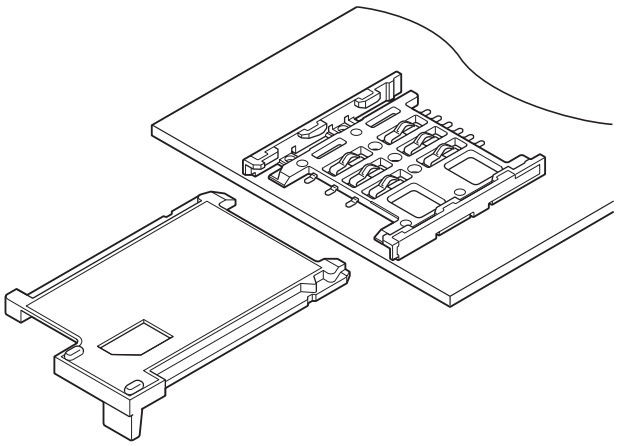
RoHS compliance *This product displays (LF)(SN) on a label.*
This products listed above are supplied on embossed-tape.



SCX CONNECTOR

2.54mm pitch

Emboss Tape



The SCX connector is for SIM Card and USIM(UIM) of the 3rd generation mobile phone, complying with the GSM11.11 standard that is a general standard for the digital mobile phone in Europe.

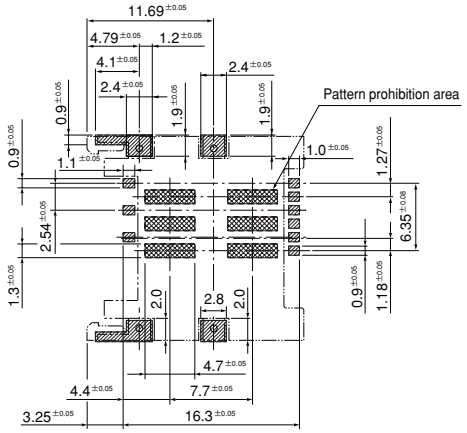
- ***Slide tray design***
- ***High reliability for the electrical contact***
- ***Light weight and low-profile***
- ***The Knob of the tray***
- ***The package with the carrier tape for an automatic mounting machine (Socket only)***

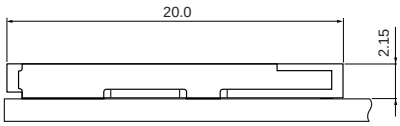
Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max. After environmental testing/100m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 500V AC/minute

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

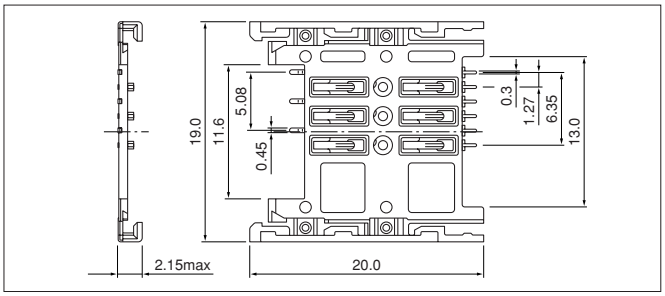
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



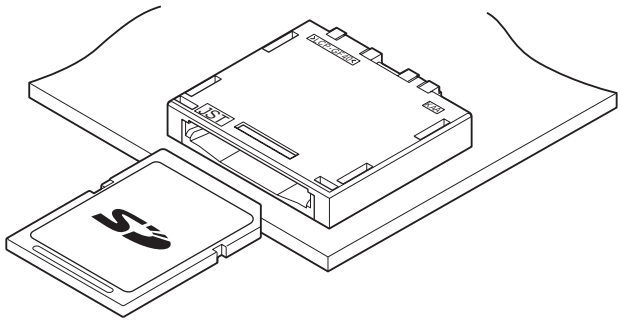
Circuits	Model No.	Q'ty / reel
6	**SCX-6S-1K-ST23-TB**	1,000

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, nickel-undercoated, gold-plated

RoHS compliance
This products listed above are supplied on embossed-tape.

SD CONNECTOR



Designed for the SD (secure digital) memory card. Also applicable to the MMC (multi-media card).

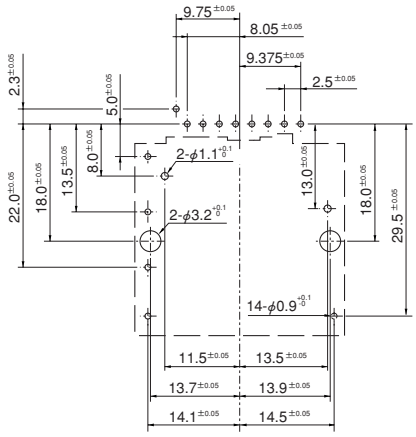
- ***Push-push mechanism***
- ***Card-detection switch***
- ***Static electricity shielding***

Specifications

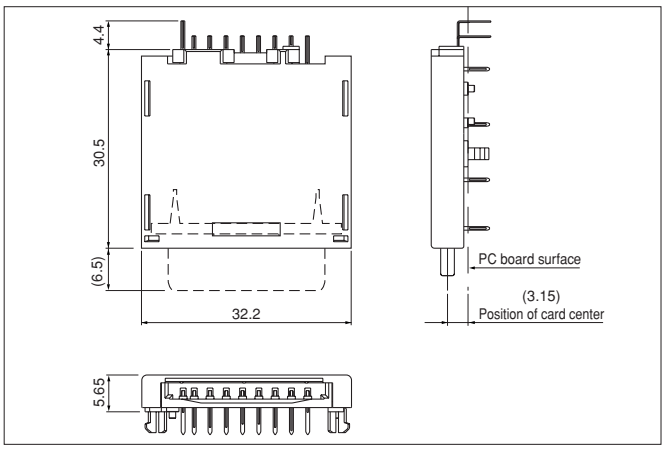
- Current rating: 0.5A AC, DC
- Voltage rating: 5V AC, DC
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max. (signal part) After environmental testing/80m Ω max. (signal part)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 500V AC/minute

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

PC board layout



Connector



Model No.	Q'ty / box
SD-C-9BND-P23-332	60

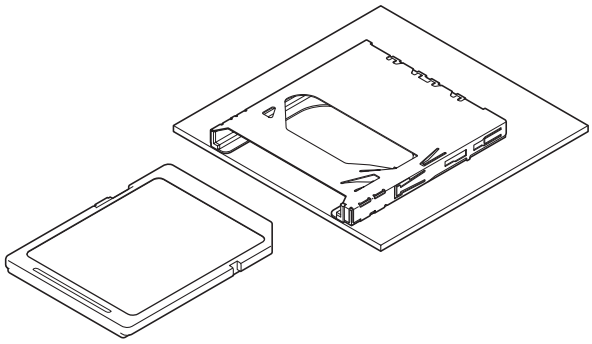
Material and Finish

Housing: LCP, UL94V-0
Cover: LCP, UL94V-0
Guide: LCP, UL94V-0
Signal contact: Phosphor bronze, nickel-undercoated, gold-plated
Write protect switch: Phosphor bronze, nickel-undercoated, gold-plated
Terminal: Phosphor bronze, nickel-undercoated, gold-plated
Card detection switch: Phosphor bronze, nickel-undercoated, gold-plated
Joint rod: Kovar
Spring: SWPB, nickel-plated
GND contact: Phosphor bronze, tin-plated (reflow treatment)
Shaft: Brass

RoHS compliance

SDK CONNECTOR

Emboss Tape



This connector is designed for SD Card & MMC (Multi media card), complying with the SD Card Association standard, and is with the switch for Write-protection & Card-detection. And due to Push-push mechanism design, its card can be easily ejected by push-push operation.

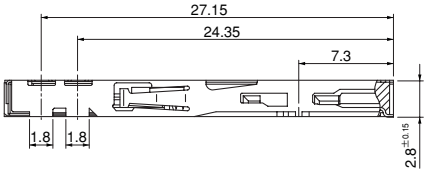
- ***Space saving design***
- ***The amount of card ejection***
- ***Outstanding durability***
- ***Prevention of reverse card insertion***

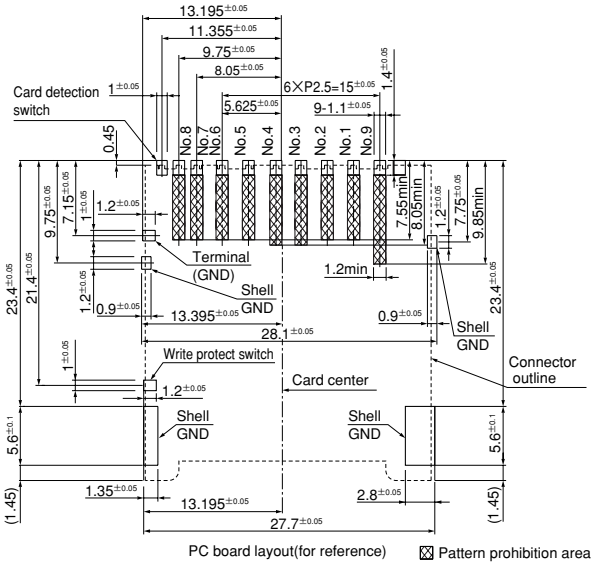
Specifications

- Current rating: 0.5A AC, DC
- Voltage rating: 5V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Recommendatory PC board thickness:0.6mm to 1.0mm
  [When it is mounted on the FPC, recommendable reinforcing layer thickness is 0.6mm min.]
- Contact resistance:
  (Signal part) Initial value/30m Ω max.
  After environmental testing/60m Ω max.
  (Switch part) Initial value/100m Ω max.
  After environmental testing/100m Ω max.
- Insulation resistance: 1,000M Ω min. at 500V DC
- Withstanding voltage: 500V AC/minute

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

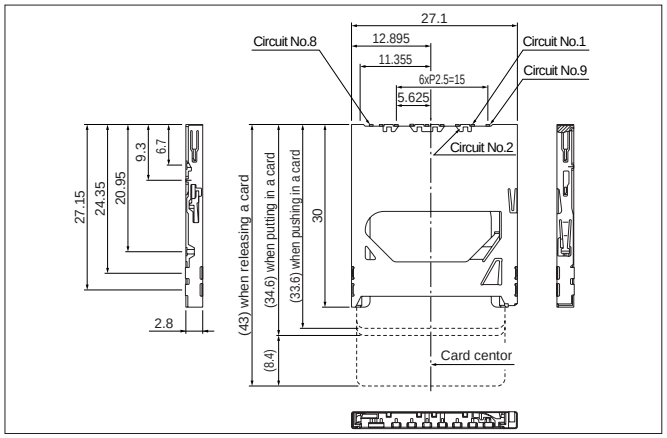
PC board layout (viewed from component side) and Assembly layout





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Connector



Model No.	Q'ty / reel
SDK-9BNS-K13-GN-TB	450

Material and Finish

Housing, Guide: Heat resisting resin, UL94V-0
Contact: Copper alloy, nickel-undercoated,
selective gold-plated, selective tin-plated (reflow treatment)
Terminal: Copper alloy, nickel-undercoated, gold-plated
Card detection switch: Copper alloy, nickel-undercoated, gold-plated
Write protect switch: Copper alloy, nickel-undercoated,
selective gold-plated, selective tin-plated (reflow treatment)
Card lock: Copper alloy, tin-plated
Joint rod, Spring: SUS
Shell: SUS, Solder tail/ selective nickel-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*
This products listed above are supplied on embossed-tape.

2

Interface Connection Connectors

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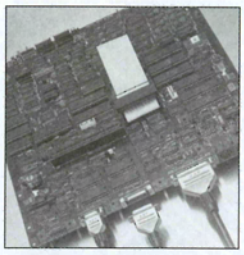
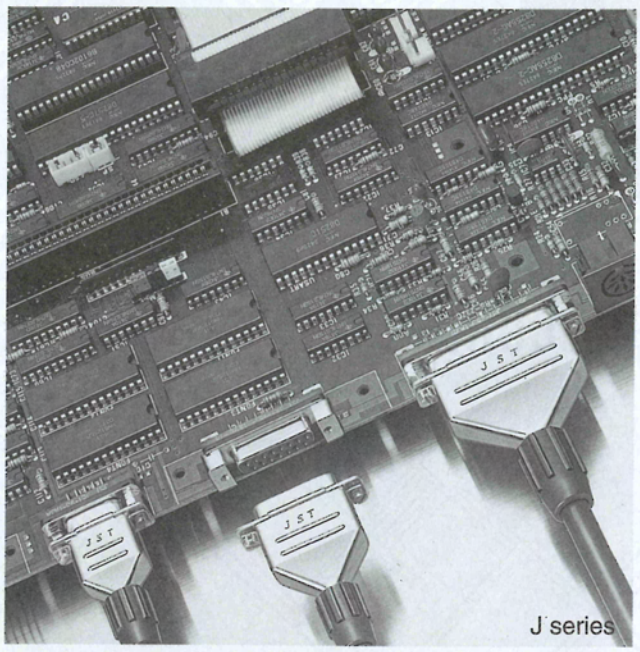
UB CONNECTOR 316
UB CONNECTOR mini-B Type 322
RV CONNECTOR 324
MJ CONNECTOR 326

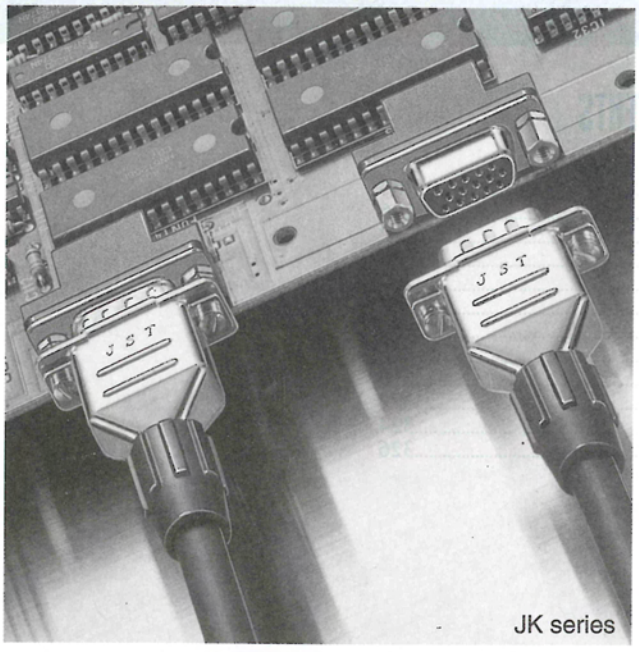


D SUBMINIATURE CONNECTOR

D-Sub Connector series



J series



JK series

J series

JK series

Features

• Reliable

The contacts are made by high-speed stamping presses that provide superior dimensional accuracy. The performance of the mating surfaces is equal to that of machined contacts, while the cold working provided by the stamping process provides a superior spring.

• Economical

The contacts for these connectors are made by high-speed stamping presses, and only the mating portion of each contact is gold-plated. Moreover, the production process is fully rationalized to assure quality and optimize the use of resources. Labor saving, crimp style contacts suited for efficient assembly of round cables are also available.

• Application

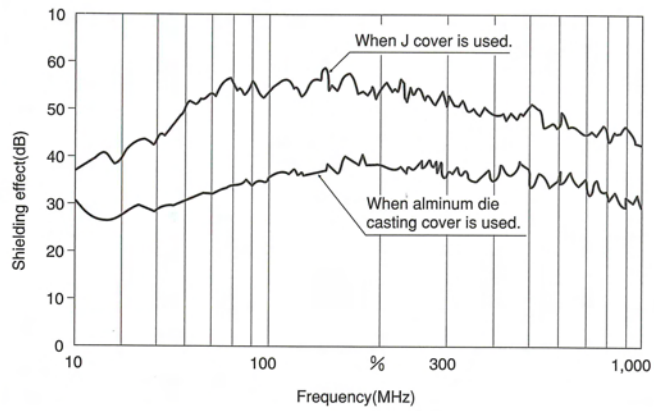
The D subminiature J/JH/JK & KH series connectors are ideal for internal connections and for the interconnections of various electronic products such as minicomputers, personal computers, word processors, factory automation equipments, measuring instruments, and medical instrumentation.

• 1.7 times higher density JK/KH series

The JK/KH series of D subminiature connectors have 15 circuits in a standard 9 circuit shell by virtue of its 3-row, 2.286mm pitch construction, 1.7 times as dense as the J series.

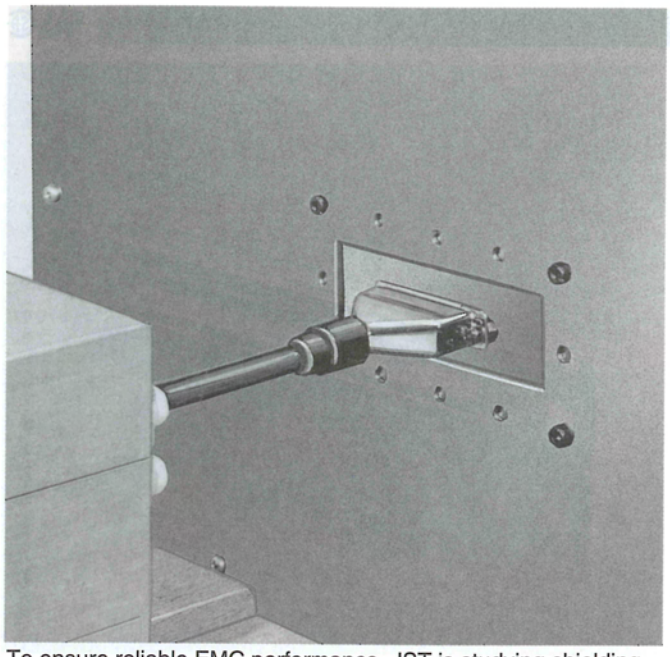
• Countermeasures against electromagnetic interference

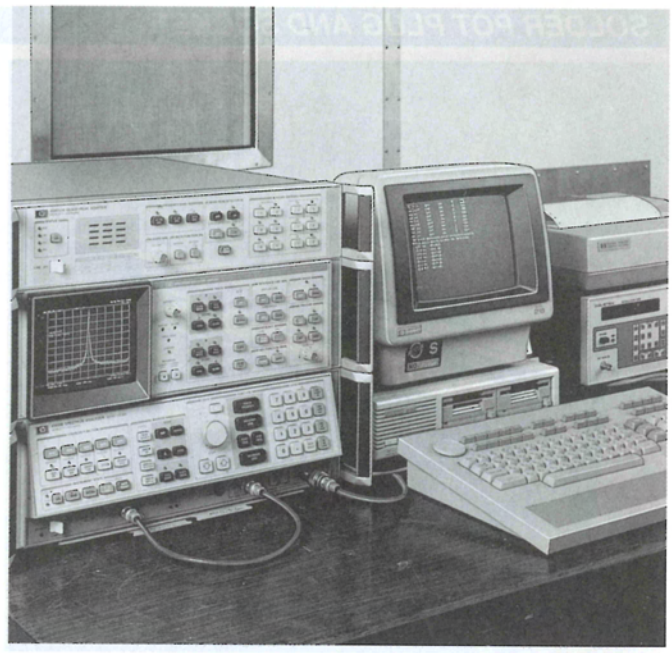
Regulations to prevent electromagnetic interference from electronic equipment have become general practice throughout the world. Therefore, shielding external I/O interconnections to prevent electromagnetic interference has become increasingly important. At the same time, interconnection devices have become smaller, lighter, and stronger. To meet these needs, we have developed the J covers, which have a superior shielding effect without proportional bulk.



Shielding effect measurement data

The shielding effect of the J cover was compared with that of our conventional aluminum die casting cover.





To ensure reliable EMC performance, JST is studying shielding measures form various angles, including introduction of numerous measuring instruments.

• Available styles and sizes

Style		Circuits										
		J Series				JS Series		JH Series		JK Series	KS Series	KH Series
		9	15	25	37	9	25	9	25	15	15	15
Connector	Solder pot plug	○	○	○	○							
	Solder pot socket	○	○	○	○							
	Right angle through-hole plug	○	○	○		○		○	○			
	Right angle through-hole socket	○	○	○	○		○	○	○	○	○	○
	Straight through-hole plug	○		○								
	Straight through-hole socket	○		○						○		
	Crimp style plug	○	○	○	○					○		
	Crimp style socket	○	○	○						○		
Cover	J cover	○	○	○	○					○		
	Mold cover	○	○	○						○		
	Aluminum die-cast cover			○								
	JIS plastic cover			○								

Standards

Recognized E60389

Certified LR20812

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

D-SUB MINIATURE CONNECTOR J SERIES

Solder pot plug and socket

SOLDER POT PLUG AND SOCKET

Solder pot plug

Solder pot socket

Features

- The socket contacts are formed by high-speed stamping presses to obtain the advantages of cold working. They are therefore highly elastic, which in turn ensures reliable connection even after many mating cycles.
- The dimples in the plug shell ensure continuity between it and the socket shell, thus providing complete shielding.
- Costs are kept low by selective gold plating the contacts.
- The solder cup portions of the contacts are tin-plated for easy soldering.
- Insulator housings are made of a heat-resistant glass-filled PBT resin.

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389 Certified LR20812

Specifications

Materials

Connector	Part name	Material and Finish
Plug	Contact	Brass, gold-plated product: Nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated
Socket	Contact	Phosphor bronze, gold-plated product: Nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated

Characteristics

Current rating	3A, AC, DC (2A for 37-circuits)
Voltage rating	250V AC, DC
Temperature range	-40˚C to +85˚C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute

Note: Contact JST for details.

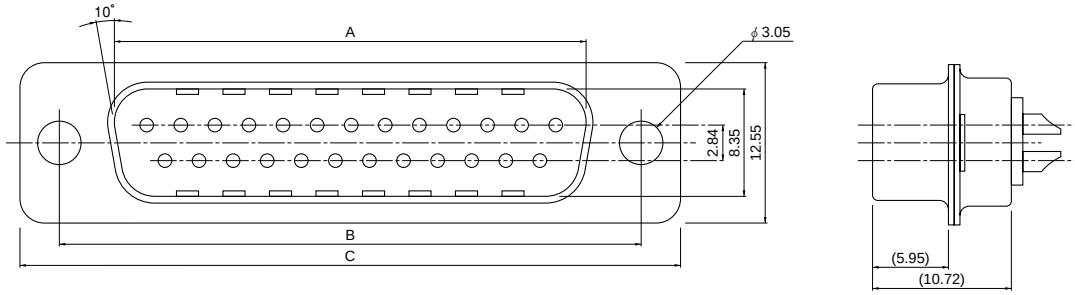
Model number identification

J E Z - 9 P - 12 - 3

- Series name
- Shell size: E, A, B ,C
- Wire connection style: Z ... Solder pot type
- Number of circuits: 9, 15, 25, 37
- Connector style: P ... Plug, S ... Socket
- Finish
  - Blank ... Gold-plated (flash)
  - 12 ... 0.2micron gold-plated
  - 13 ... 0.4micron gold-plated
  - 14 ... 0.76micron gold-plated
  - 90 ... Tin-plated (reflow treatment)
- Plating specification of shell: 3 … Copper-undercoated, nickel-plated

Note: 1. The relationship between number of circuits and shell size is shown below.
9: E, 15: A, 25: B, 37: C
2. Contact JST for special plating requirements.

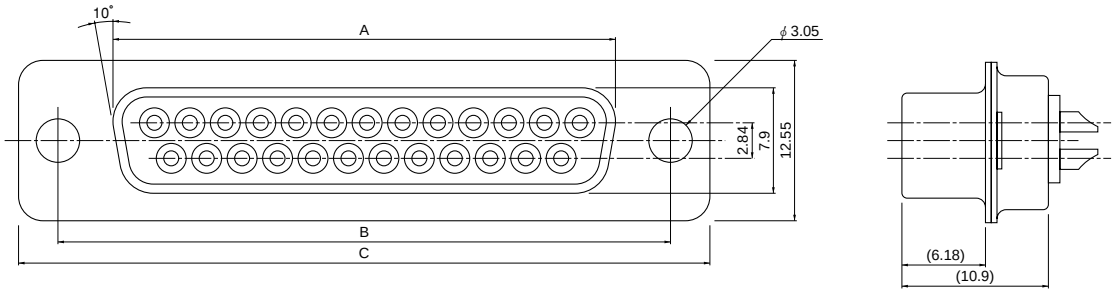
Plug



Circuits	Model No.		Dimensions (mm)			Q´ty / box
	Gold-plated	Tin-plated	A	B	C	
9	**JEZ-9P-3**	**JEZ-9P-90-3**	16.92	24.99	30.80	100
15	**JAZ-15P-3**	**JAZ-15P-90-3**	25.25	33.32	39.14	100
25	**JBZ-25P-3**	**JBZ-25P-90-3**	38.97	47.04	53.04	50
37	**JCZ-37P-3**	**JCZ-37P-90-3**	55.43	63.50	69.32	50

RoHS compliance *Gold-plated products display (LF)(SN) on a label.*

Socket



Circuits	Model No.		Dimensions (mm)			Q´ty / box
	Gold-plated	Tin-plated	A	B	C	
9	**JEZ-9S-3**	**JEZ-9S-90-3**	16.34	24.99	30.80	100
15	**JAZ-15S-3**	**JAZ-15S-90-3**	24.67	33.33	39.14	100
25	**JBZ-25S-3**	**JBZ-25S-90-3**	38.38	47.04	53.04	50
37	**JCZ-37S-3**	**JCZ-37S-90-3**	54.84	63.50	69.32	50

RoHS compliance *Gold-plated products display (LF)(SN) on a label.*

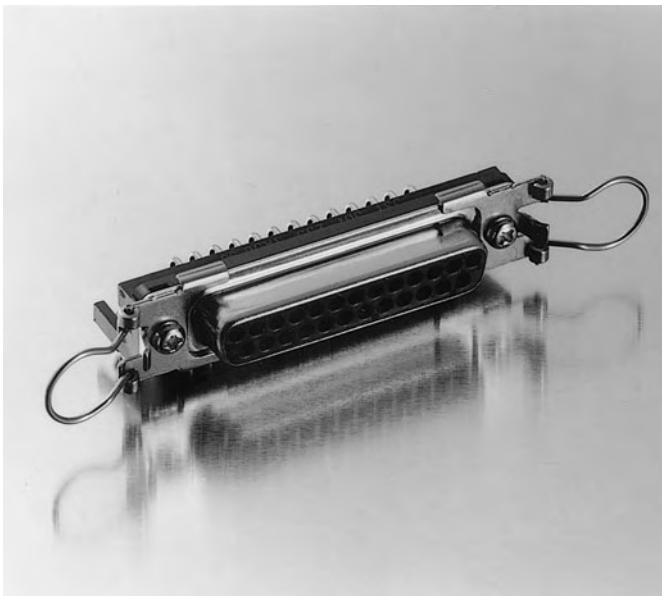
D-SUBMINIATURE CONNECTOR J SERIES

Right angle through-hole plug and socket

RIGHT ANGLE THROUGH-HOLE PLUG AND SOCKET

Right angle through-hole plug
(with hexagonal lock screw blocks)

Right angle through-hole socket
(with rectangular lock screw blocks)



Right angle through-hole socket
(with bail lock)

Features

- The socket contacts are made by high-speed stamping presses. This promotes the uniform elasticity of the twin-contact mating sections and therefore ensures reliable contact even after repeated mating cycles. The solder tails are U-shaped for extra strength.
- Costs are minimized by selective gold plating, high speed stamping presses, and completely automated assembly.
- To ensure complete shielding, a wide variety of grounding adapters are available so that the sockets can be grounded to different kinds of supporting structures.
- Metric, inch or other lock screw blocks are available for fastening mating plugs.

Specifications

Materials

Part name		Material and Finish
Contact	Plug	Brass, gold-plated product: Nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
	Socket	Phosphor bronze, gold-plated product: Nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) tin-plated product: Copper-undercoated, tin-plated (reflow treatment)
Insulator		Glass-filled PBT, UL94V-0, black
Shell		Steel, copper-undercoated, nickel-plated
Hexagonal lock screw block		Steel, copper-undercoated, nickel-plated
Rectangular lock screw block		Zinc, copper-undercoated, nickel-plated
Grounding adapter having a 3.2mm dia. hole		Steel, copper-undercoated, nickel-plated
Grounding adapter having an M3 tapped hole		
Grounding adapter having a spring lock lever		Brass, nickel-undercoated, tin/copper alloy-plated
Spring locks	Bail lock	Stainless steel
	Accepts bail locks	

Characteristics

Current rating	3A, AC, DC (2.0A AC, DC for 37-circuits)
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute
Applicable PC board thickness	1.6mm

Note: Contact JST for details.

Standards

Recognized E60389 Certified LR20812

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

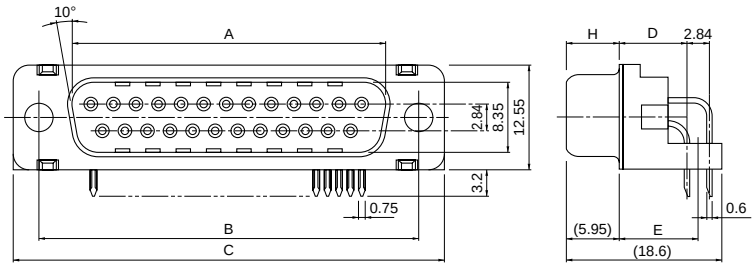
Model number identification

J E Y - 9 S - 1A 3 A 12 S1

- Series name
- Shell size: E, A, B ,C
- Wire connection style:
  Y... Right angle through-hole style
- Number of circuits: 9, 15, 25, 37
- Connector style: P ... Plug, S ... Socket
- Connector construction/Dimensions: Standard J series
- Types of grounding adapters
  0 ... Without grounding adapters
  1 ... With grounding adapters having a 3.2mm dia. hole
  2 ... With grounding adapters having an M3 thread
  3 ... With grounding adapters having a spring lock device (1)
  4 ... With grounding adapters having a spring lock device (2)
- Types of lock screw blocks
  A ... With hexagonal lock screw blocks having a No. 4-40 UNC inch thread
  B ... With hexagonal lock screw blocks having an M2.6 thread
  C ... With rectangular lock screw blocks having an M2.6 thread
  D ... Without lock screw blocks
  E ... Without lock screw blocks, but with grounding adapters having a 3.05mm dia. hole
  F ... Without lock screw blocks, but with grounding adapters having a No. 4-40UNC inch thread
  G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread
  H ... Without lock screw blocks, but with grounding adapters having an M3 thread
- Finish
  Blank ... Gold-plated (flash)
  12 ... 0.2micron gold-plated
  13 ... 0.4micron gold-plated
  14 ... 0.76micron gold-plated
  90 ... Tin-plated (reflow treatment)
- Bail locks
  Blank...Without bail locks
  S or S1...With bail locks
  S2...With bail locks (with addition of spring characteristic)

Note: 1. The relationship between number of circuits and shell size is shown below.
9: E, 15: A, 25: B, 37: C
2. Contact JST for special plating requirements.
3. Contact JST for the Socket with bail locks. (Not UL/CSA approved.)

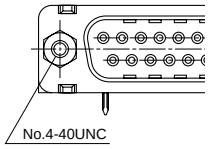
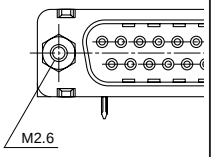
Right angle through-hole plug

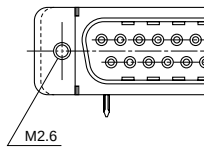
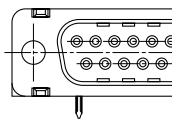
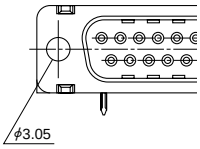
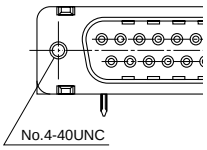
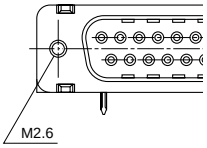
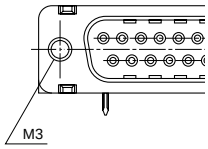


H: Height of the lock screw block (for Types A, B & C)

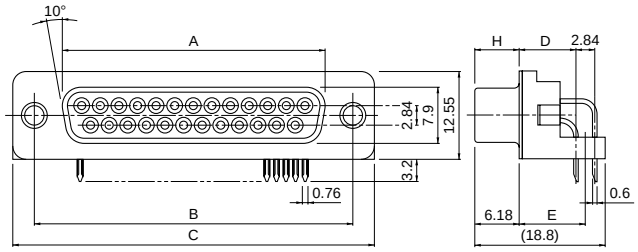
Cir-cuits	Model No.		Dimensions (mm)					Q'ty / box
	gold-plated plug	tin-plated plug	A	B	C	D	E	
9	**JEY-9P-1A****	**JEY-9P-1A**90**	16.90	24.99	30.80	8.1	9.52	100
15	**JAY-15P-1A****	**JAY-15P-1A**90**	25.25	33.33	39.14	8.1	9.52	100
25	**JBY-25P-1A****	**JBY-25P-1A**90**	38.97	47.04	53.00	8.2	9.62	50

<Gold-plated product> ***RoHS compliance*** *This product displays (LF)(SN) on a label.*
*<Tin-plated product> *1, 2, 3 ...* ***RoHS compliance***
4, 5 ...* ***RoHS compliance* *This product displays (LF) on a label.*
*Note: ** shows the location where a two-digit code (see the table below for codes) should be entered.*
For example, if a 9-circuit gold-plated (flash) plug with hexagonal lock screw blocks having a No.4-40UNC inch thread and without grounding adapters is required, specify the model number as JEY-9P-1A0A.

	Type A	Type B
	With hexagonal lock screw blocks(H:6.3mm) having a No.4-40UNC inch thread	With hexagonal lock screw blocks(H:6.3mm) having an M2.6 thread
		
*1 Without grounding adapters	0A	0B
*2 With grounding adapters with a 3.2mm dia. hole	1A	1B
*3 With grounding adapters with an M3 thread	2A	2B
*4 With grounding adapters with a spring lock device (1)	3A	3B
*5 With grounding adapters with a spring lock device (2)	—	—

Type C	Type D	Type E	Type F	Type G	Type H
With rectangular lock screw blocks (H: 6.2mm) having an M2.6 thread	Without lock screw blocks	Without lock screw blocks E: Grounding adapter has no thread. F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			
		Use a lock screw block of Model number JFS-( )S-C1N.	*1: No.4-40UNC inch thread *2: Model number JFS-4S-( )1W(M)	*1: M2.6 thread *2: Model number JFS-2.6S-( )1W(M)	*1: M3 thread *2: Model number JFS-3S-( )1W(M)
					
0C	0D	—	—	—	—
1C	1D	1E	1F	1G	—
2C	2D	2E	2F	2G	—
3C	3D	3E	3F	3G	—
—	—	—	—	—	4H

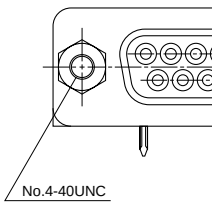
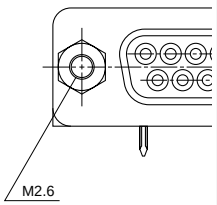
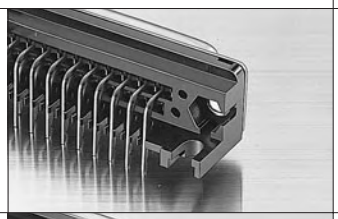
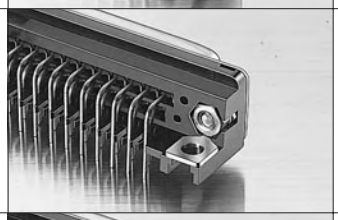
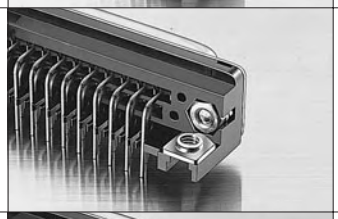
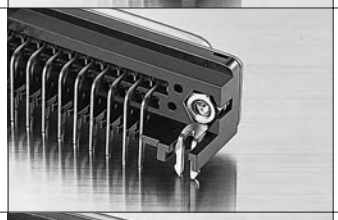
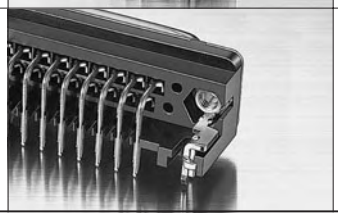
Right angle through-hole socket

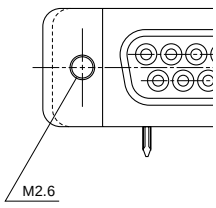
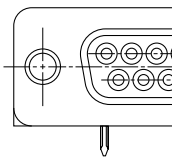
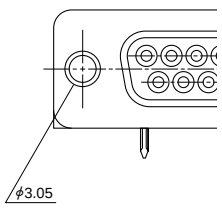
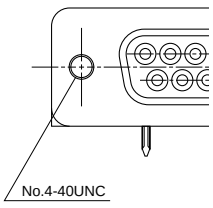
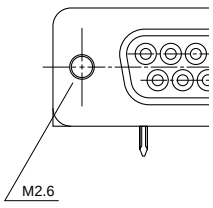
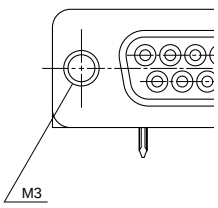


H: Height of the lock screw block (for Types A, B & C)

Cir-cuits	Model No.		Dimensions (mm)					Q'ty / box
	gold-plated socket	tin-plated socket	A	B	C	D	E	
9	**JEY-9S-1A****	**JEY-9S-1A**90**	16.34	24.99	30.81	8.1	9.52	100
15	**JAY-15S-1A****	**JAY-15S-1A**90**	24.67	33.32	39.14	8.1	9.52	100
25	**JBY-25S-1A****	**JBY-25S-1A**90**	38.38	47.04	53.04	8.2	9.62	50
37	**JCY-37S-1A****	**JCY-37S-1A**90**	54.84	63.50	69.32	8.2	9.62	50

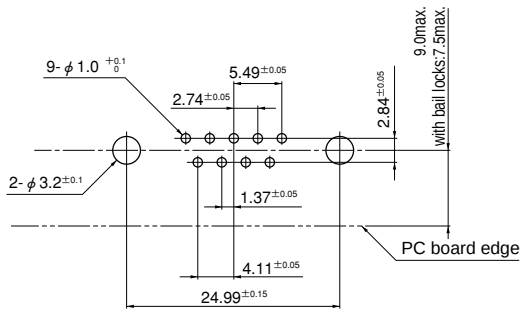
<Gold-plated product> ***RoHS compliance*** *This product displays (LF)(SN) on a label.*
*<Tin-plated product> *1, 2, 3 ...* ***RoHS compliance***
4, 5 ...* ***RoHS compliance* *This product displays (LF) on a label.*
*Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No.4-40UNC inch thread and without grounding adapters is required, specify the model number as JEY-9S-1A0A.*

	Type A	Type B
	With hexagonal lock screw blocks(H: 6.3mm) having a No.4-40UNC inch thread	With hexagonal lock screw blocks(H: 6.3mm) having an M2.6 thread
		
*1 Without grounding adapters		0A	0B
*2 With grounding adapters with a 3.2mm dia. hole		1A	1B
*3 With grounding adapters with an M3 thread		2A	2B
*4 With grounding adapters with a spring lock device (1)		3A	3B
*5 With grounding adapters with a spring lock device (2)		—	—

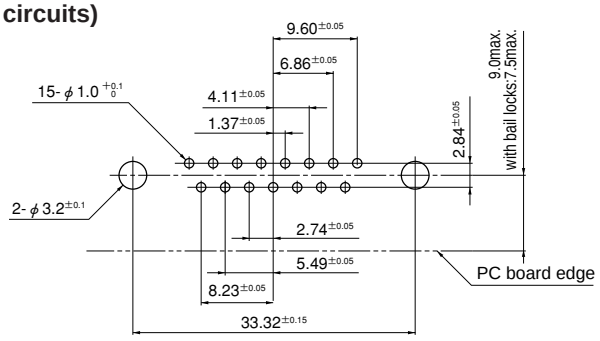
Type C	Type D	Type E	Type F	Type G	Type H
With rectangular lock screw blocks (H: 6.2mm) having an M2.6 thread	Without lock screw blocks	Without lock screw blocks E: Grounding adapter has no thread. F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			
		Used a lock screw block [model number JFS-( )S-C1N]	*1: No.4-40UNC inch thread *2: Model number JFS-4S-( )1W(M)	*1: M2.6 thread *2: Model number JFS-2.6S-( )1W(M)	*1: M3 thread *2: Model number JFS-3S-( )1W(M)
					
0C	0D	—	—	—	—
1C	1D	1E	1F	1G	—
2C	2D	2E	2F	2G	—
3C	3D	3E	3F	3G	—
—	—	—	—	—	4H

PC board layout (viewed from component side)

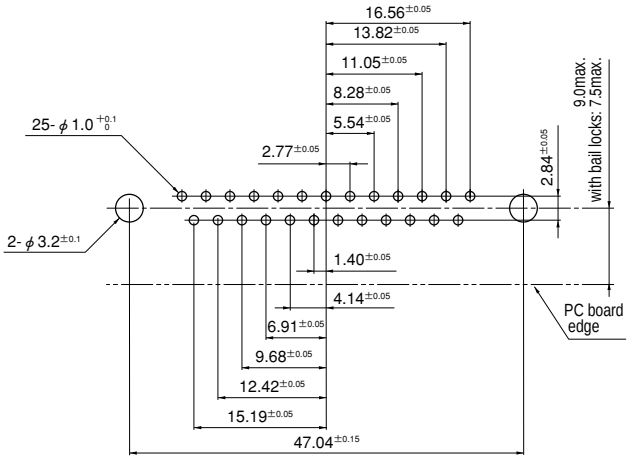
(9 circuits)



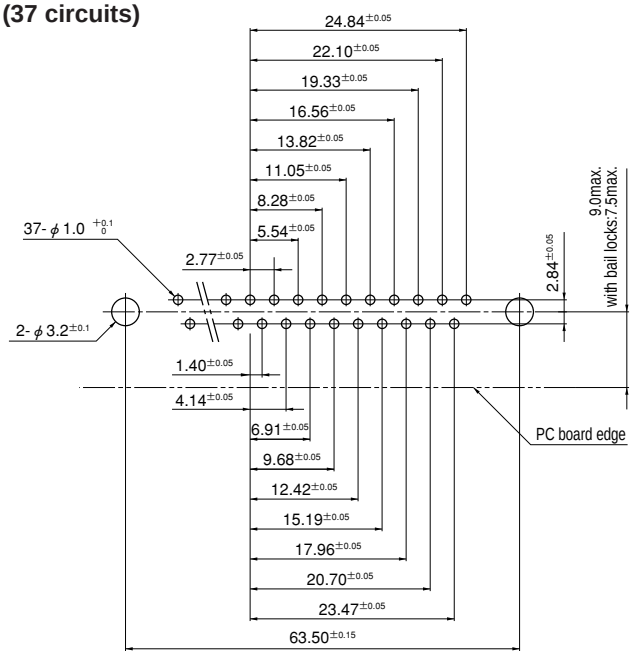
(15 circuits)



(25 circuits)

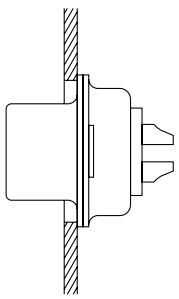
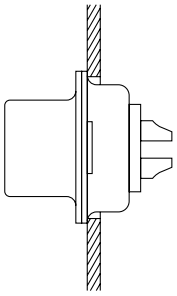


(37 circuits)

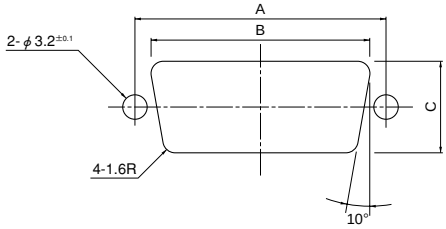


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Panel layout

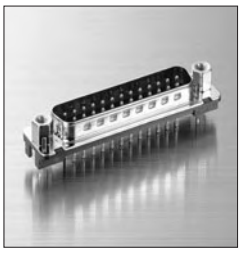
Mounting on the rear side	Mounting on the front side
	

The connector can be mounted either on the front side or on the rear side of the panel as shown above.
Use M2.5 or M2.6 screws for installation.



Circuits	A±0.15	B±0.2	C±0.2
9	24.99	20.6	12.0
15	33.32	28.8	12.0
25	47.04	42.6	12.0
37	63.50	59.0	12.0

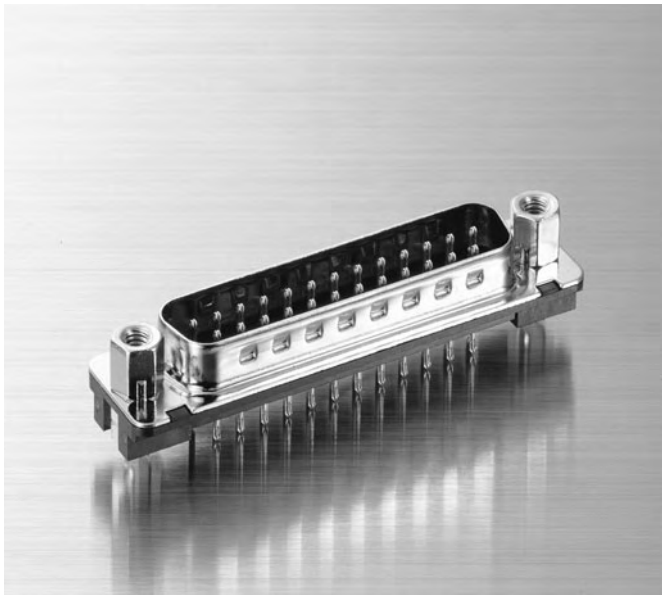
Note: The dimensions above should serve as a guideline.
Contact JST for details.



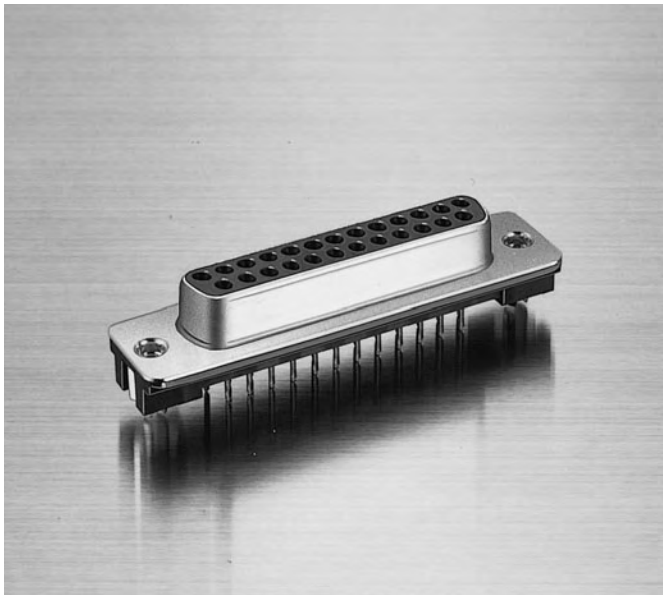
D SUBMINIATURE CONNECTOR J SERIES

Straight through-hole plug and socket

STRAIGHT THROUGH-HOLE PLUG AND SOCKET



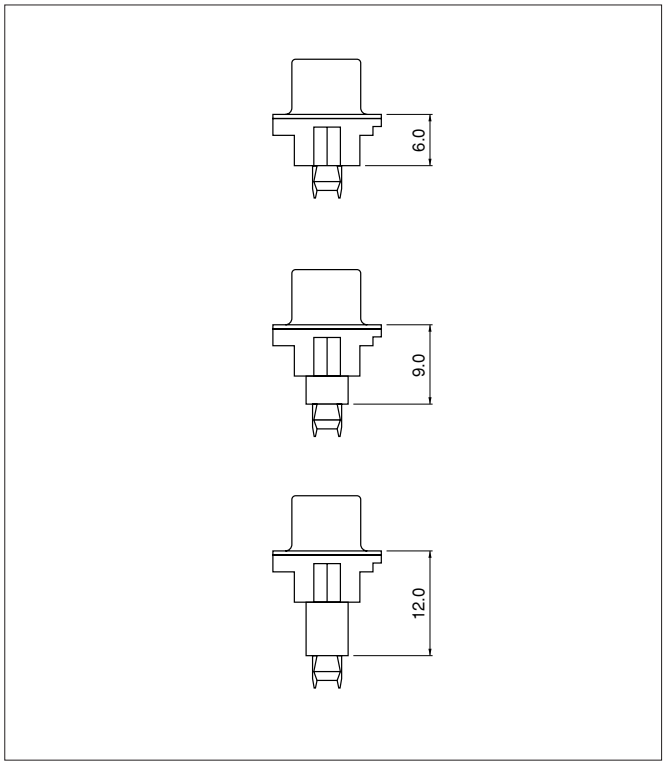
Straight through-hole plug
(with hexagonal lock screw blocks)



Straight through-hole socket (without lock screw blocks, but with grounding adapters having a No.4-40UNC inch thread)

Features

- Three standard types are available with different dimensions between the flange and solder tail: 6mm, 9mm, and 12mm.
- The roots of the contact leads are covered to prevent flux from rising into the connector during soldering.
- A grounding adapter with a spring lock device allows the connector to be temporarily secured onto the printed circuit board so that the connector can be soldered easily.



Standards

Recognized E60389

Certified LR20812

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Specifications

Materials

Part name		Material and Finish
Contact	Plug	Brass, gold-plated product: Nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
	Socket	Phosphor bronze, gold-plated product: Nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
Insulator		Glass-filled PBT, UL94V-0, black
Shell		Steel, copper-undercoated, nickel-plated
Heaxagonal lock screw block		Steel, copper-undercoated, nickel-plated
Grounding adapter with spring lock device	Cutting product	Brass, nickel-undercoated, tin/copper alloy-plated
	Stamping product	Brass, tin-plated (reflow treatment)
Spring lock	Bail locks	Stainless steel
	Accepts bail locks	

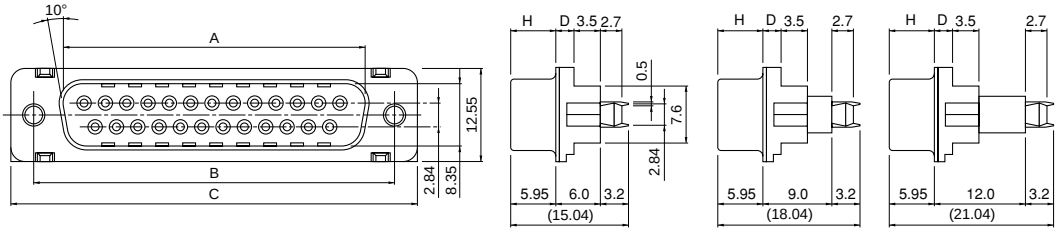
Characteristics

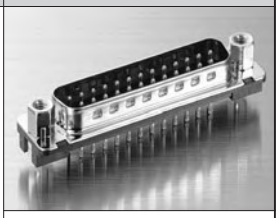
Current rating	3A AC, DC
Voltage rating	250V AC, DC
Temperature range	-40˚C to +85˚C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute
Applicable PC board thickness	1.6mm

**Contact JST for details.*

Straight through-hole plug

Type A





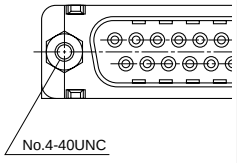
With hexagonal lock screw blocks(H:6.3mm) having a No.4-40UNC inch thread

H: Height of the lock screw block (for Types A, B & J)

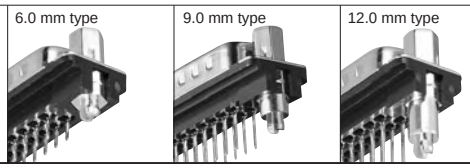
Cir-cuits	Dimension between flange and solder tail (mm)	Model No.		Dimensions (mm)				Q'ty / box
		Gold-plated (flash) Plug	Gold-plated 0.76micron	A	B	C	D	
9	6	**JES-9P-2A****	**JES-9P-2A**14**	16.90	24.99	30.8	2.4	100
	9	**JES-9P-3A****	**JES-9P-3A**14**					
	12	**JES-9P-4A****	**JES-9P-4A**14**					
25	6	**JBS-25P-2A****	**JBS-25P-2A**14**	38.97	47.04	53.0	2.5	50
	9	**JBS-25P-3A****	**JBS-25P-3A**14**					
	12	**JBS-25P-4A****	**JBS-25P-4A**14**					

RoHS compliance *This product displays (LF)(SN) A on a label.*

*Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) plug with hexagonal lock screw blocks having a No. 4-40UNC inch thread and with grounding adapters whose dimension between flange and solder tail is 6.0mm is required, specify the model number as JES-9P-3A3A.*



With grounding adapters with a spring lock device



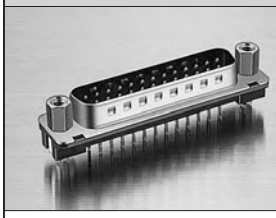
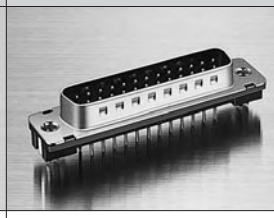
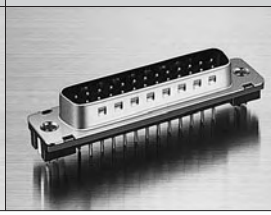
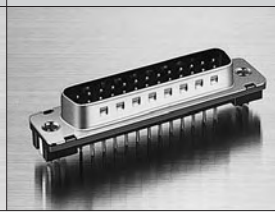
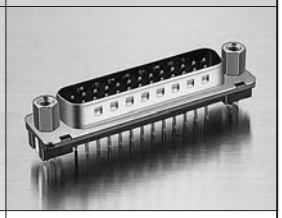
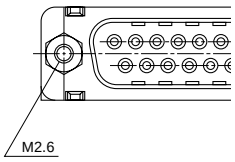
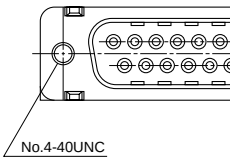
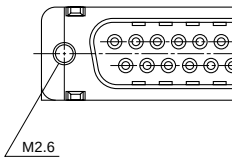
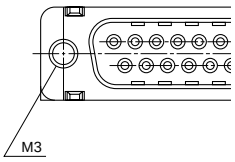
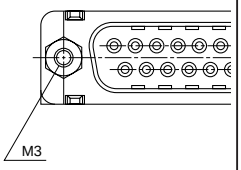
3A

Model number identification

J B S - 25 P - 2A 3 F 14 S1

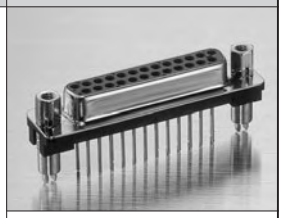
- Series name
- Shell size: B, E
- Wire connection type:
  S ... Straight through-hole type
- Number of circuits: 9, 25
- Connector type: P ... Plug S ... Socket
- Connector construction/dimensions:
  2A ... 6.0 mm from flange to solder tail
  3A ... 9.0 mm from flange to solder tail
  4A ... 12.0mm from flange to solder tail
- Types of grounding adapter:
  3 ... Grounding adapter with a spring lock device (Cutting product), 7 ... Grounding adapter with a spring lock device (Stamping product)
- Types of lock screw block:
  A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread
  B ... With hexagonal lock screw blocks having an M2.6 thread
  F ... Without lock screw blocks, but with grounding adapters having an No.4-40UNC inch thread
  G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread
  H ... Without lock screw blocks, but with grounding adapters having an M3 thread
  J ... With hexagonal lock screw block having an M3 thread
- Finish of mating part
  Blank ... Gold-plated (flash) 12 ... 0.2micron gold-plated
  13 ... 0.4micron gold-plated 14 ... 0.76micron gold-plated 90 ... Tin-plated (reflow treatment)
- Bail locks
  Blank...Without bail locks
  S or S1...With bail locks (bent oval type), S2...With bail locks (with addition of spring characteristic, bent oval type)
  S3...With bail locks (with addition of spring characteristic, Diamond type), S5...With bail locks (with addition of spring characteristic, straight oval type)

Note: 1. In the J Series, the number of circuits is determined by the shell size: 9 circuits for E and 25 circuits for B.
2. Contact JST for special plating requirements.
3. Contact JST for the dimensions between the flange and solder tail other than those listed above.
4. Grounding adapters that can secure printed circuit boards are also available.
5. Contact JST for the Receptacle with spring lock devices. (Not UL/CSA approved.)

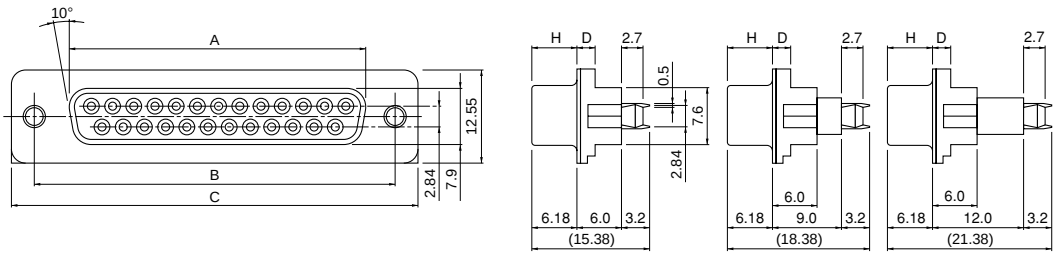
Type B	Type F	Type G	Type H	Type J
				
With hexagonal lock screw blocks (H: 6.3mm) having an M2.6 thread	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			With hexagonal lock screw blocks (H: 6.3mm) having an M3 thread
	*1: No.4-40UNC inch thread *2: Model number SFS-4S-( )1W(M)	*1: M2.6 thread *2: Model number SFS-2.6S-( )1W(M)	*1: M3 thread *2: Model number SFS-3S-( )1W(M)	
				
3B	3F	3G	3H	3J

Straight through-hole socket

Type A



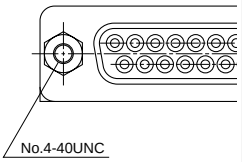
With hexagonal lock screw blocks(H:6.3mm) having a No.4-40UNC inch thread



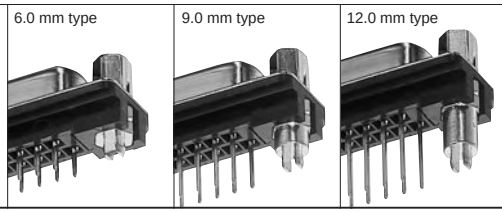
H: Height of the lock screw block (for Types A, B & J)

Cir-cuits	Dimension between flange and solder tail (mm)	Model No.			Dimensions (mm)				Q'ty / box
		Gold-plated (flash) socket	Gold-plated 0.76micron	Tin-plated	A	B	C	D	
9	6	**JES-9S-2A****	**JES-9S-2A**14**	—	16.34	24.99	30.8	2.4	100
	9	**JES-9S-3A****	**JES-9S-3A**14**	—					
	12	**JES-9S-4A****	**JES-9S-4A**14**	—					
25	6	**JBS-25S-2A****	**JBS-25S-2A**14**	**JBS-25S-2A**90**	38.38	47.04	53.0	2.5	50
	9	**JBS-25S-3A****	**JBS-25S-3A**14**	**JBS-25S-3A**90**					
	12	**JBS-25S-4A****	**JBS-25S-4A**14**	—					

<Gold-plated product> ***RoHS compliance*** *This product displays (LF)(SN) A on a label.*
<Tin-plated product> ***RoHS compliance*** *This product displays (LF) A on a label.*
*Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No. 4-40UNC inch thread and with grounding adapters whose dimension between flange and solder tail is 6.0mm is required, specify the model number as JES-9S-3A3A.*



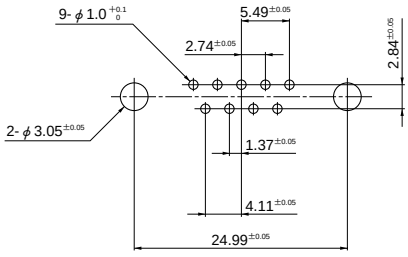
With grounding adapters
with a spring lock device



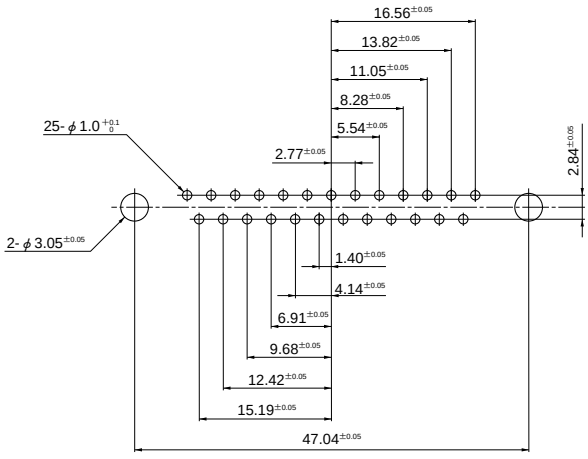
3A

PC board layout (viewed from component side)

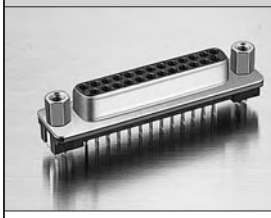
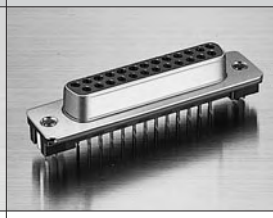
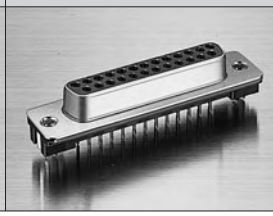
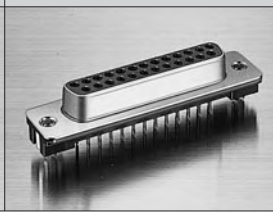
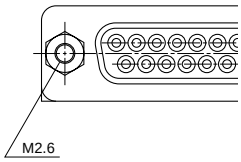
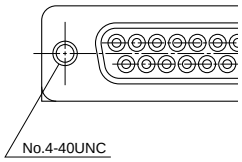
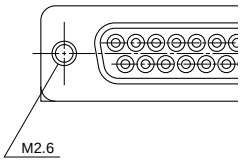
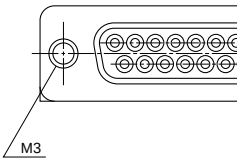
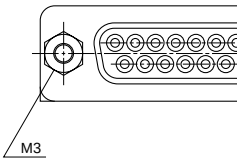
(9-circuits)



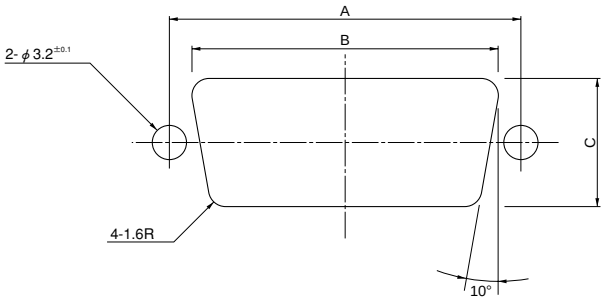
(25-circuits)



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Type B	Type F	Type G	Type H	Type J
				
With hexagonal lock screw blocks (H: 6.3mm) having an M2.6 thread	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2) *1: No.4-40UNC inch thread *2: Model number SFS-4S-( )1W(M)	*1: M2.6 thread *2: Model number SFS-2.6S-( )1W(M)	*1: M3 thread *2: Model number SFS-3S-( )1W(M)	With hexagonal lock screw blocks (H: 6.3mm) having an M3 thread
				
3B	3F	3G	3H	3J

Panel layout



Circuits	A±0.15	B±0.2	C±0.2
9	24.99	20.6	12.0
25	47.04	42.6	12.0

Note: The dimensions above should serve as a guideline. Contact JST for details.

D-SUB MINIATURE CONNECTOR J SERIES

Crimp style plug and socket

CRIMP STYLE PLUG AND SOCKET

Features

- The contacts of this plug are formed by high-speed stamping presses into continuous strips that can be automatically fed into our compact crimping machines. Much less time is required to assemble CRT and RS-232C round cables using this plug than when soldering connections.
- The contacts in this connector are selectively gold-plated. Moreover, JST's advanced technological knowledge and experience are fully utilized to significantly reduce production costs.
- The dimples in the connector shell provide the ground connection and are important factors in preventing electromagnetic interference. The contact has a lance that can be visually checked during assembly. This assures accurate assembly and reduces defects.

Specifications

Materials

Connector	Part name	Material and Finish
Plug	Contact	Brass, gold-plated product: Nickel-undercoated, Mating part; gold-plated Crimping part; tin-plated (reflow treatment) tin-plated product: tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated
Socket	Contact	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Crimping part; tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94-0, black
	Shell	Steel, copper-undercoated, nickel-plated

Characteristics

Current rating	3A, AC, DC (2A for 37-circuits)(AWG #20)
Voltage rating	250V AC, DC
Temperature range	-40˚C to +85˚C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute

Note: Contact JST for details.

Model number identification

Contact

J - S P 2 1 40

- Series name
- Product shape: S ... Chain, B ... Loose piece
- Type of contact: P ... Pin contact, S ... Socket contact
- Applicable wire: 1 ... AWG #24 to #20, 2 ... AWG #28 to #24
- Material: 1 ... Brass(Pin contact), 3 ... Phosphor bronze(Socket contact)
- Finish
  40 ... Gold-plated (flash), 42 ... 0.2micron gold-plated
  43 ... 0.4micron gold-plated, 44 ... 0.76micron gold-plated, 90 ... Tin-plated (reflow treatment)

Note: Contact JST for special plating requirements.

Housing

J E C - 9 P - 3

- Series name
- Shell size: E, A, B ,C
- Wire connection style: C ... crimp style
- Number of circuits: 9, 15, 25, 37
- Connector style: P ... Plug, S ... Socket
- Plating specification of shell: 3 ... nickel-plated

Note: The relationship between number of circuits and shell size is shown below.
9: E, 15: A, 25: B, 37: C

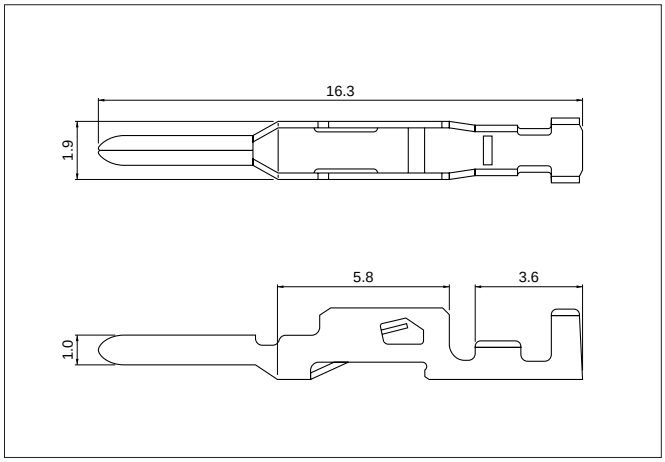
Standards

Recognized E60389

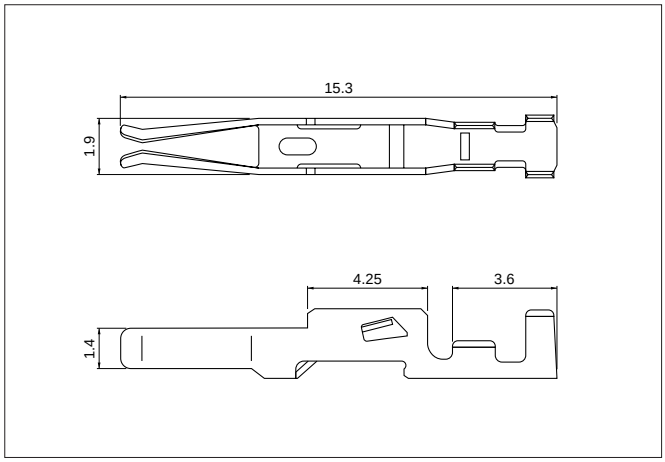
Certified LR20812

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Pin contact (for plug housing)



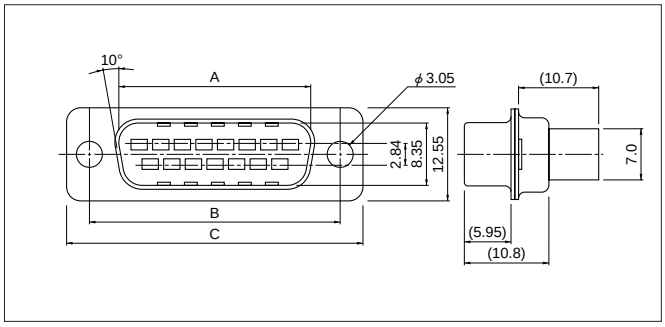
Socket contact (for socket housing)



Model No.			Applicable wire		Q´ty / reel
Pin contact		Socket contact	AWG #	Insulation O.D. (mm)	
Gold-plated	Tin-plated	Gold-plated			
J-SP1140	**J-SP1190**	**J-SS1340**	# 24 ～ # 20	1.1 ～ 1.8	10,000
J-SP2140	**J-SP2190**	**J-SS2340**	# 28 ～ # 24	0.9 ～ 1.3	

RoHS compliance *Gold-plated products display (LF)(SN) on a label.*

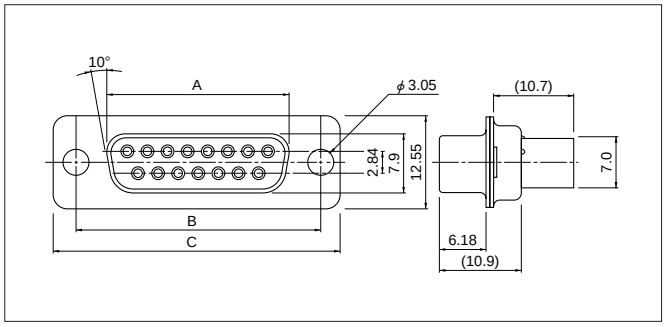
Plug housing



Cir-cuits	Model No.	Dimensions (mm)			Q´ty / box
		A	B	C	
9	**JEC-9P-3**	16.92	24.99	30.80	100
15	**JAC-15P-3**	25.25	33.32	39.14	100
25	**JBC-25P-3**	38.97	47.04	53.04	50
37	**JCC-37P-3**	55.43	63.50	69.32	50

RoHS compliance

Socket housing



Cir-cuits	Model No.	Dimensions (mm)			Q´ty / box
		A	B	C	
9	**JEC-9S-3**	16.34	24.99	30.80	100
15	**JAC-15S-3**	24.67	33.33	39.14	100
25	**JBC-25S-3**	38.38	47.04	53.04	50

RoHS compliance

Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
J-SP1* **	AP-K2N	MKS-L	MK/J-SP/SS1	APLMK J-SP/SS1
		*MKS-SC	SC/J-SP/SS1	APLSC J-SP/SS1
J-SS1* **		MKS-L	MK/J-SP/SS1	APLMK J-SP/SS1
		*MKS-SC	SC/J-SP/SS1	APLSC J-SP/SS1
J-SP2* **		MKS-L	MK/J-SP/SS2	APLMK J-SP/SS2
		*MKS-SC	SC/J-SP/SS2	APLSC J-SP/SS2
J-SS2* **		MKS-L	MK/J-SP/SS2	APLMK J-SP/SS2
		*MKS-SC	SC/J-SP/SS2	APLSC J-SP/SS2

*Note: *Strip-crimp applicator*

D SUBMINIATURE CONNECTOR JH SERIES

Right angle through-hole plug and socket

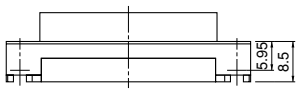
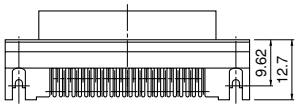
RIGHT ANGLE THROUGH-HOLE PLUG AND SOCKET

Right angle through-hole plug
(with hexagonal lock screw blocks)

Right angle through-hole socket (without lock screw blocks, but with grounding adapters having a No.4-40UNC inch thread)

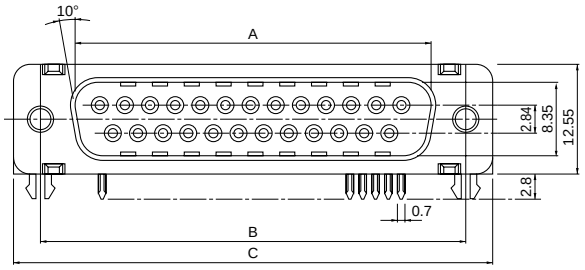
Features

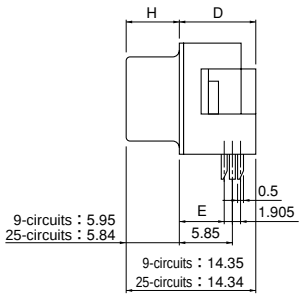
- The depth is trimmed to 8.5mm, reducing the surface mounting area by 33% compared with our J series subminiature connectors.
- The weight of the JH series is 10% lighter than our J series.
- EJH series D subminiature connectors with noise filters are available.

JH series	J series
	

Right angle through-hole plug

Type A





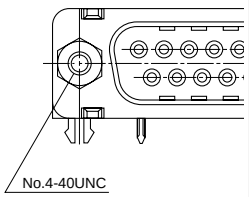
H: Height of the lock screw block (for Types A, B & J)

Cir-cuits	Model No.		Dimensions (mm)					Q´ty / box
	Gold-plated (flash) plug	Gold-plated 0.76micron	A	B	C	D	E	
9	**JHEY-9P-1A****	**JHEY-9P-1A**14**	16.90	24.99	30.8	8.4	4.9	100
25	**JHBY-25P-1A****	**JHBY-25P-1A**14**	38.97	47.04	53.0	8.5	5.0	40

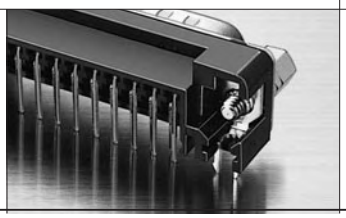
RoHS compliance *This product displays (LF)(SN) on a label.*

*Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a gold-plated (flash) receptacle with hexagonal lock screw blocks having a No. 4-40UNC inch thread and with grounding adapters having a spring lock device is required, specify the model number as JHEY-9P-1A3A.*

With hexagonal lock screw blocks
(H: 6.3mm)
having a No.4-40UNC inch thread



With grounding adapters
with a spring lock device



3A

Specifications

Materials

Part name		Material and Finish
Contact	Plug	Brass, nickel-undercoated, Mating part; gold-plated Solder teil; tin-plated (reflow treatment)
	Socket	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder teil; tin-plated (reflow treatment)
Insulator		Glass-filled PBT, UL94V-0, black
Shell		Steel, copper-undercoated, nickel-plated
Hexagonal lock screw block		Steel, copper-undercoated, nickel-plated
Grounding adapter with spring lock device		Brass, nickel-undercoated, tin/copper alloy-plated

Characteristics

Current rating	3A AC, DC
Voltage rating	250V AC, DC
Temperature range	-40˚C to +85˚C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute
Applicable PC board thickness	1.6mm

Note: Contact JST for details.

Model number identification

JH B Y - 25 P - 1A 3 F 14

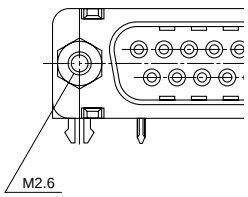
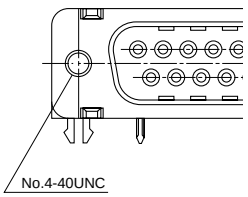
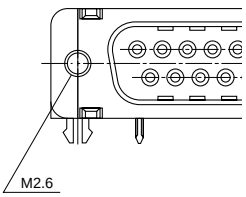
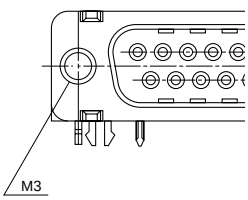
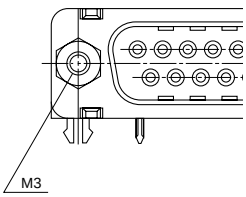
- Series name
- Shell size: E, B
- Wire connection type:
  Y ... Right angle through-hole type
- Number of circuits: 9.25
- Connector type: P ... Plug, S ... Socket
- Connector construction/dimensions:
  Standard of the JH series right angle through-hole type
- Types of grounding adapter:
  3 ... With grounding adapters having a spring lock device
- Type of lock screw block:
  A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread
  B ... With hexagonal lock screw blocks having an M2.6 thread
  F ... Without lock screw blocks, but with grounding adapters having a No.4-40UNC inch thread
  G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread
  H ... Without lock screw blocks, but with grounding adapters having an M3 thread
  J ... With hexagonal lock screw blocks having an M3 thread
- Finish of mating part
  Blank ... Gold-plated (flash)
  12 ... 0.2micron gold-plated
  13 ... 0.4micron gold-plated
  14 ... 0.76micron gold-plated

Note: Contact JST for special plating requirements.

Standards

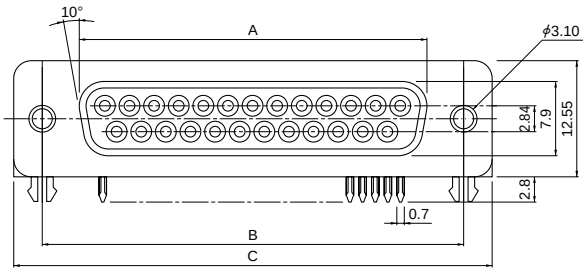
Recognized E60389 Certified LR20812

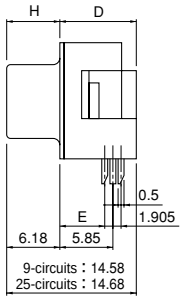
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Type B	Type F	Type G	Type H	Type J
With hexagonal lock screw blocks (H: 6.3mm) having an M2.6 thread	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			With hexagonal lock screw blocks (H: 6.3mm) having an M3 thread
	*1: No.4-40UNC inch thread *2: Model number HFS-4S-( )1W(M)	*1: M2.6 thread *2: Model number HFS-2.6S-( )1W(M)	*1: M3 thread *2: Model number HFS-3S-( )1W(M)	
				
3B	3F	3G	3H	3J

Right angle through-hole socket

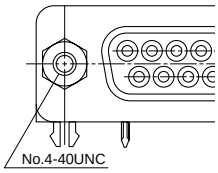
Type A





H: Height of the lock screw block (for Types A, B & J)

With hexagonal lock screw blocks (H: 6.3mm) having a No.4-40UNC inch thread



Cir-cuits	Model No.		Dimensions (mm)					Q´ty / box
	Gold-plated (flash) socket	Gold-plated [0.76micron] socket	A	B	C	D	E	
9	**JHEY-9S-1A****	**JHEY-9S-1A**14**	16.34	24.99	30.8	8.4	4.9	100
25	**JHBY-25S-1A****	**JHBY-25S-1A**14**	38.38	47.04	53.0	8.5	5.0	40

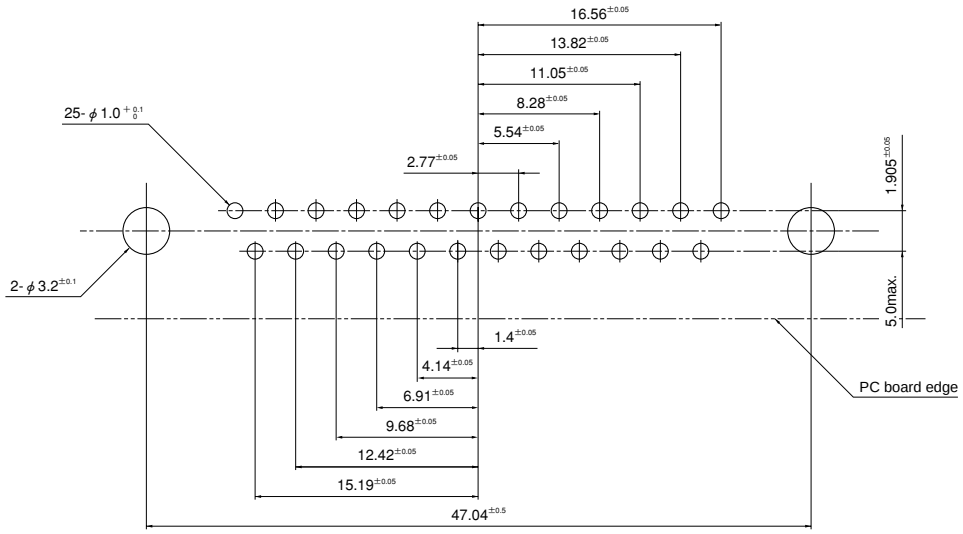
RoHS compliance *This product displays (LF)(SN) on a label.*

*Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 9-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No. 4-40UNC inch thread and with grounding adapters having a spring lock device is required, specify the model number as JHEY-9S-1A3A.*

With grounding adapters with a spring lock device

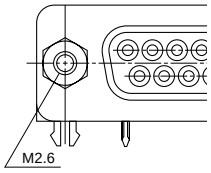
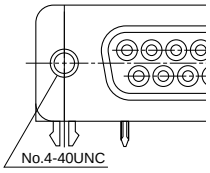
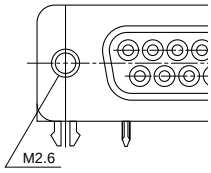
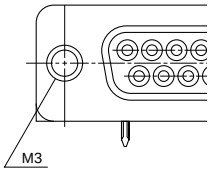
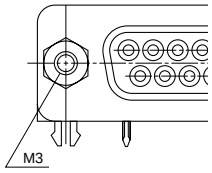
3A

PC board layout (viewed from component side)

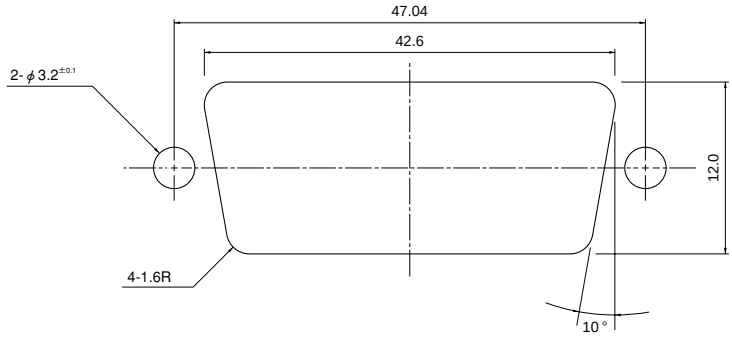


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Type B	Type F	Type G	Type H	Type J
With hexagonal lock screw blocks (H: 6.3mm) having an M2.6 thread	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			With hexagonal lock screw blocks (H: 6.3mm) having an M3 thread
	*1: No.4-40UNC inch thread *2: Model number HFS-4S-( )1W(M) 	*1: M2.6 thread *2: Model number HFS-2.6S-( )1W(M) 	*1: M3 thread *2: Model number HFS-3S-( )1W(M) 	
3B	3F	3G	3H	3J

Panel layout



Note: The dimensions above should serve as a guideline. Contact JST for details.

D SUBMINIATURE CONNECTOR JK SERIES

Crimp style plug and socket

CRIMP STYLE PLUG AND SOCKET

Features

- The dimples in the shell provide the ground connection and are an important factor in preventing electromagnetic interference.
- The contact has a retention lance that makes assembly to the housing smooth and secure.

Standards

Recognized E60389 Certified LR20812

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Specifications

Materials

Connector	Part name	Material and Finish
Plug	Contact	Brass, nickel-undercoated, Mating part; gpld-plated Crimping part; tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94V-0, black
	Shell	Steel, copper-undercoated, nickel-plated
Socket	Contact	Phosphor bronze, nickel-undercoated, Mating part; gpld-plated Crimping part; tin-plated (reflow treatment)
	Insulator	Glass-filled PBT, UL94-0, black
	Shell	Steel, copper-undercoated, nickel-plated

Characteristics

Current rating	1.0A, AC, DC(AWG #24)
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute

Note: Contact JST for details.

Model number identification

Contact

JK - S P 2 1 40

- Series name
- Product shape: S ... Chain, B ... Loose piece
- Type of contact: P ... Pin contact, S ... Socket contact
- Applicable wire: 2 ... AWG #28 to #24
- Material: 1 ... Brass(Pin contact), 3 ... Phosphor bronze(Socket contact)
- Finish of mating part
  40 ... Gold-plated (flash)
  42 ... 0.2micron gold-plated
  43 ... 0.4micron gold-plated
  43 ... 0.76micron gold-plated

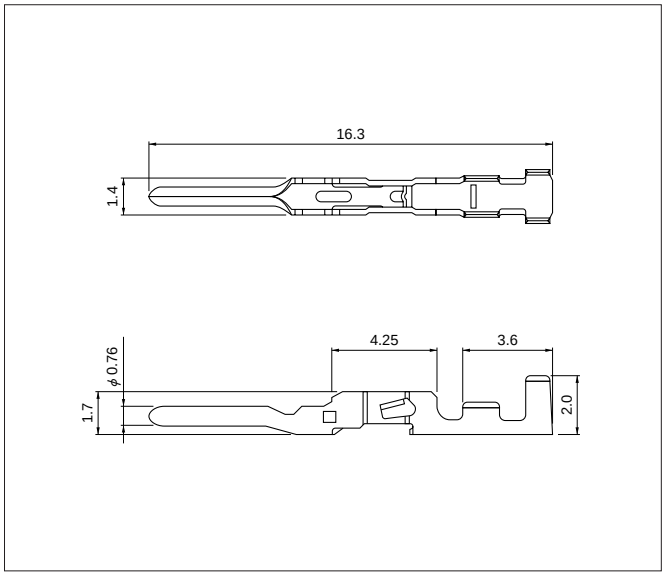
Note: Contact JST for special plating requirements.

Housing

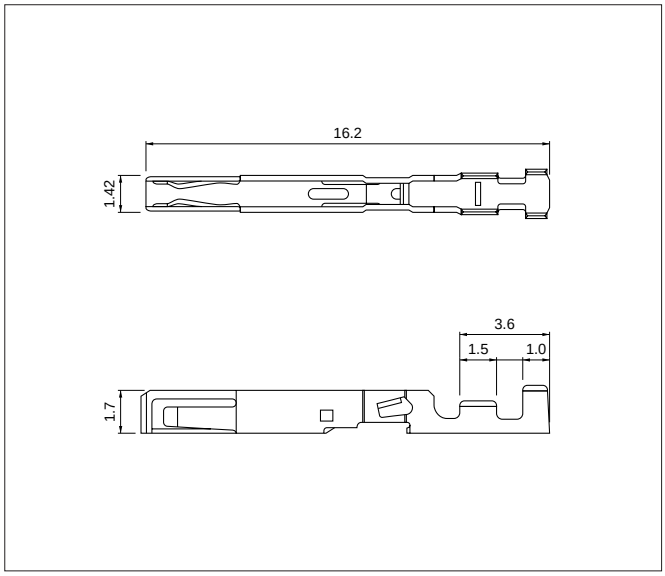
K E C - 15 P - 3

- Series name
- Shell size: E
- Wire connection style: C ... Crimp style
- Number of circuits: 15
- Connector type: P ... Plug, S ... Socket
- Plating specification of shell: 3 ...Copper-undercoated, nickel-plated

Pin contact (for plug housing)



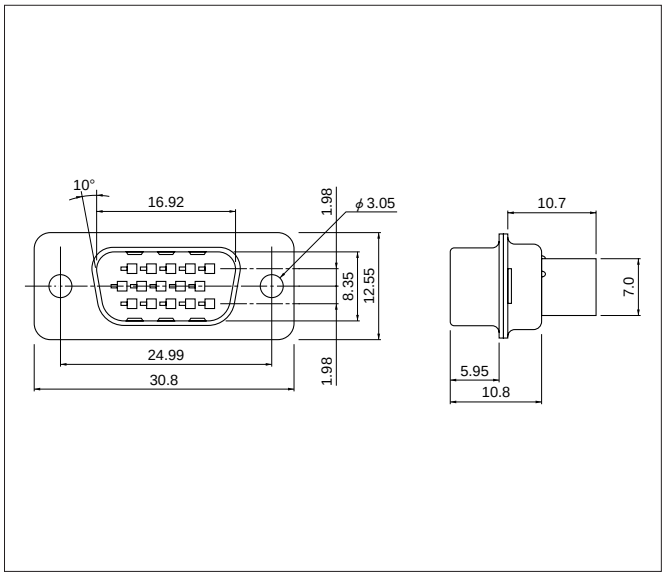
Socket contact (for socket housing)



Model No.		Finish at mating part	Applicable wire		Q´ty / box
Pin contact	Socket contact		AWG #	Insulation O.D. (mm)	
JK-SP2140	**JK-SS2340**	Gold-plated (flash)	28 ～ 24	0.9 ～ 1.4	10,000
JK-SP2144	**JK-SS2344**	Gold-plated 0.76micron			

RoHS compliance *This product displays (LF)(SN) on a label.*

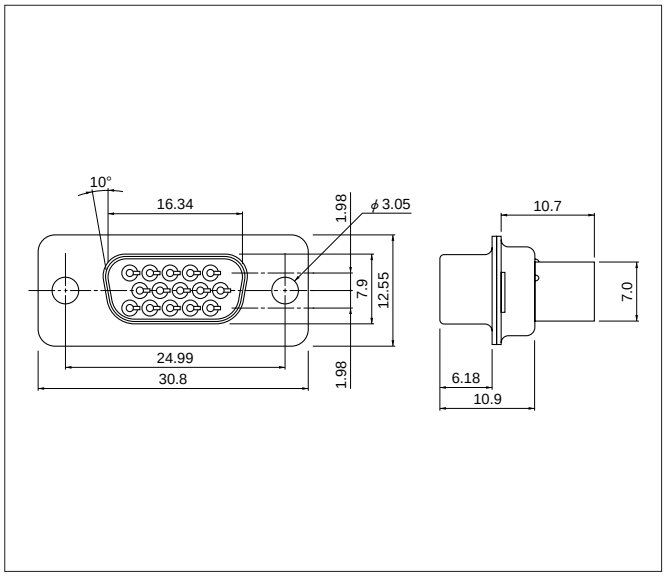
Plug housing



Circuits	Model No.	Q´ty / box
15	**KEC-15P-3**	100

RoHS compliance

Receptacle housing



Circuits	Model No.	Q´ty / box
15	**KEC-15S-3**	100

RoHS compliance

Crimping machine, Applicator

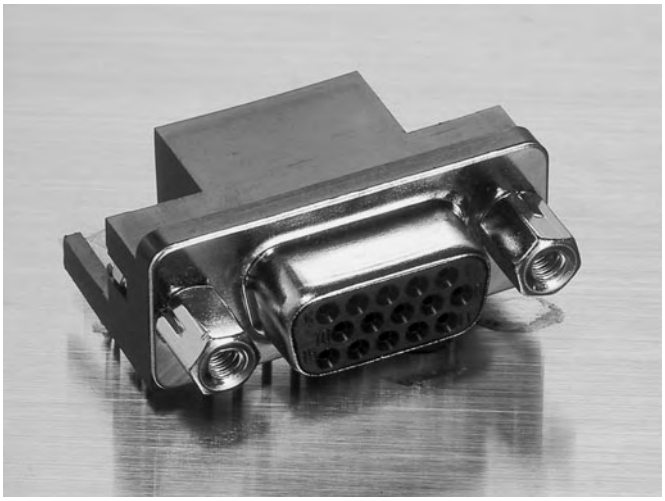
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
J-SP2* **	AP-K2N	MKS-L	MK/JK-SP/SS2	APLMK JK-SP/SS2
		*MKS-SC-JK	SC/JK-SP/SS2	APLSC JK-SP/SS2
J-SS2* **		MKS-L	MK/JK-SP/SS2	APLMK JK-SP/SS2
		*MKS-SC-JK	SC/JK-SP/SS2	APLSC JK-SP/SS2

*Note: *Strip-crimp applicator*

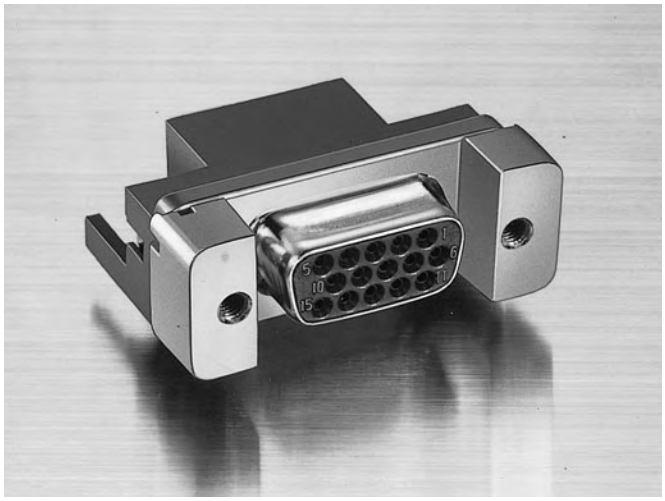
D SUBMINIATURE CONNECTOR JK SERIES

Right angle through-hole plug and socket

RIGHT ANGLE THROUGH-HOLE SOCKET



(with hexagonal lock screw blocks)



(with rectangular lock screw blocks)

Features

- The mating section of the contact has a twin-contact style construction with uniform elasticity to ensure a reliable contact even when repeatedly mated and unmated.
- A wide variety of grounding adapters are available so that the receptacle can be grounded to the circuitry of a printed circuit board to prevent electromagnetic interference.

Standards

Recognized E60389 Certified LR20812

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Specifications

Materials

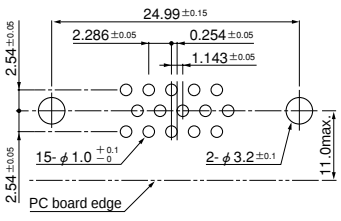
Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
Insulator	Glass-filled PBT, UL94V-0, black
Shell	Steel, copper-undercoated, nickel-plated
Grounding adapter having a 3.2mm dia. hole	Steel, copper-undercoated, nickel-plated
Grounding adapter having an M3 tapped hole	Steel, copper-undercoated, nickel-plated
Grounding adapter having a spring lock device	Brass, nickel-undercoated, tin/copper alloy-plated

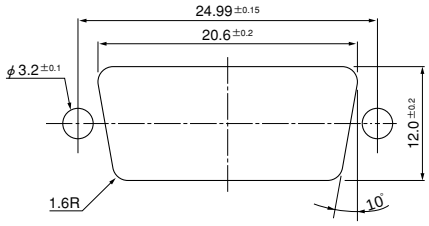
Characteristics

Current rating	1.0A, AC, DC
Voltage rating	250V AC, DC
Temperature range	-40˚C to +85˚C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstandhing voltage	1,000V AC/minute
Applicable PC board thickness	1.6mm

Note: Contact JST for details.

PC board layout (viewed from component side)





Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Model number identification

K E Y - 15 S - 2A 3 A 14 - 23

• Series name

• Shell size: E

• Wire connection type:
Y ... Right angle through-hole style

• Number of circuits: 15

• Connector type: S ... Socket

• Connector construction/Dimensions: Standard of the series

• Types of grounding adapters
0 ... Without grounding adapters
1 ... With grounding adapters having a 3.2mm dia. hole
2 ... With grounding adapters having an M3 thread
3 ... With grounding adapters having a spring lock device (1)
4 ... With grounding adapters having a spring lock device (2)

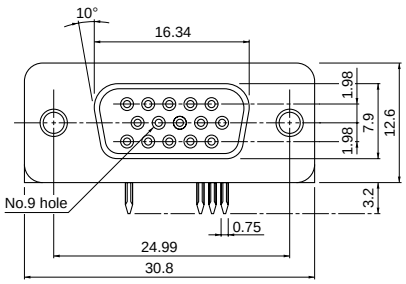
• Types of lock screw blocks
A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread
B ... With hexagonal lock screw blocks having an M2.6 thread
C ... With rectangular lock screw blocks having an M2.6 thread
D ... Without lock screw blocks
E ... Without lock screw blocks, but with grounding adapters having a 3.05mm dia. hole
F ... Without lock screw blocks, but with grounding adapters having a No. 4-40UNC inch thread
G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread
H ... Without lock screw blocks, but with grounding adapters having an M3 thread

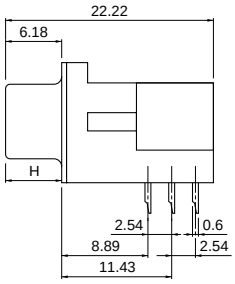
• Finish of mating part
Blank ... Gold-plated (flash)
12 ... 0.2micron gold-plated
13 ... 0.4micron gold-plated
14 ... 0.76micron gold-plated

• Blocked hole for keying ... Blank: all holes open, 23: #9 hole blocked

Note: Contact JST for special plating requirements.

Right angle through-hole socket



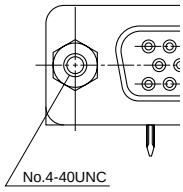
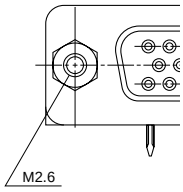
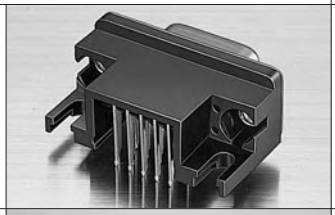
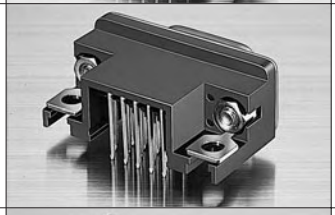
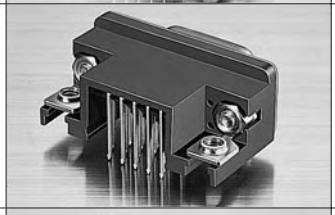
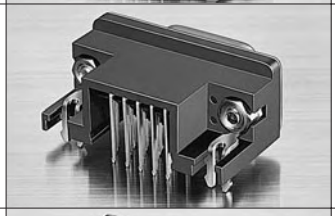
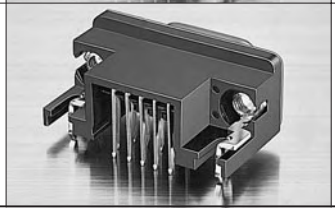


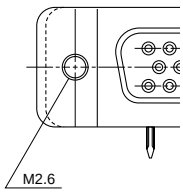
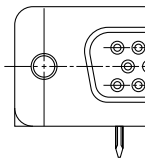
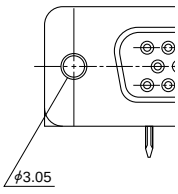
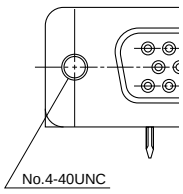
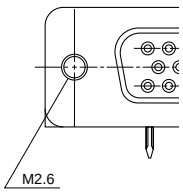
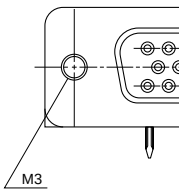
H: Height of the lock screw block (for Types A, B & C)

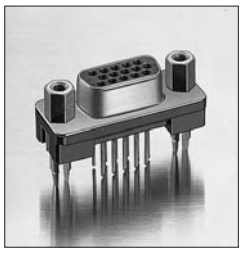
Cir-cuits	Model No.		Q´ty / box
	Gold-plated (flash) socket	Gold-plated (0.76micron)socket with No.9 hole blocked	
15	**KEY-15S-2A****	**KEY-15S-2A**14-23**	100 (☆)

RoHS compliance *This product displays (LF)(SN) on a label.*

*Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 15-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No. 4-40UNC inch thread and without grounding adapters is required, specify the model number as KEY-15S-2A0A. (☆) Type C...60*

		Type A	Type B
		With hexagonal lock screw blocks(H: 6.3mm) having a No.4-40UNC inch thread 	With hexagonal lock screw blocks(H: 6.3mm) having an M2.6 thread 
Without grounding adapters		0A	0B
With grounding adapters with a 3.2mm dia. hole		1A	1B
With grounding adapters with an M3 thread		2A	2B
With grounding adapters with a spring lock lever (1)		3A	3B
With grounding adapters with a spring lock device (2)		—	—

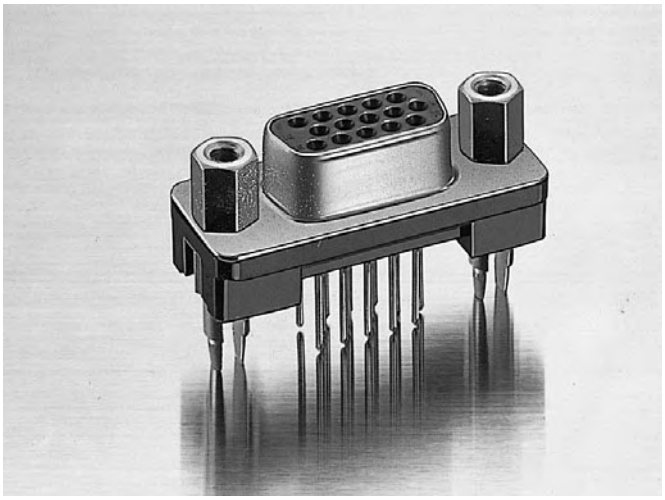
Type C	Type D	Type E	Type F	Type G	Type H
With rectangular lock screw blocks (H: 6.2mm) having an M2.6 thread	Without lock screw blocks	Without lock screw blocks E: Grounding adapter has no thread. F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			
		Used a lock screw block [model number KFS-( )S-C1N]	*1: No.4-40UNC inch thread *2: Model number KFS-4S-( )1W(M)	*1: M2.6 thread *2: Model number KFS-2.6S-( )1W(M)	*1: M3 thread *2: Model number KFS-3S-( )1W(M)
					
0C	0D	—	—	—	—
1C	1D	1E	1F	1G	—
2C	2D	2E	2F	2G	—
3C	3D	3E	3F	3G	—
—	—	—	—	—	4H



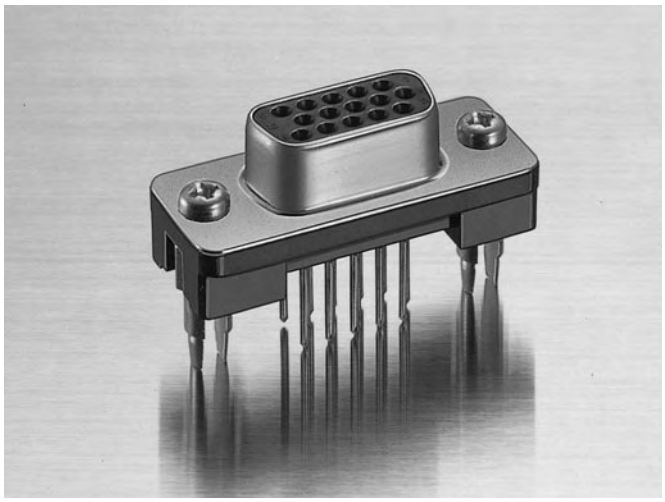
D SUBMINIATURE CONNECTOR JK SERIES

Straight through-hole socket

STRAIGHT THROUGH-HOLE SOCKET



(with hexagonal lock screw blocks)



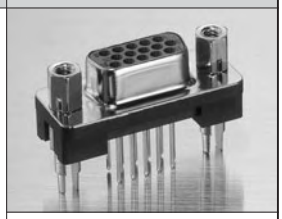
(without lock screw blocks)

Features

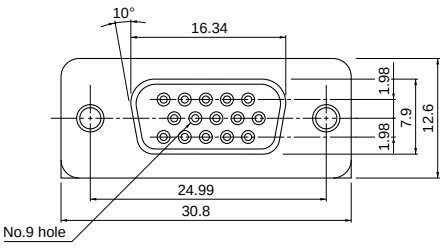
- The mating section of the contact has a twin-contact style construction with uniform elasticity to ensure a reliable contact even when repeatedly mated and unmated.
- A grounding adapter with a spring lock device allows the connector to be temporarily secured on the printed circuit board so that the connector can be soldered easily.

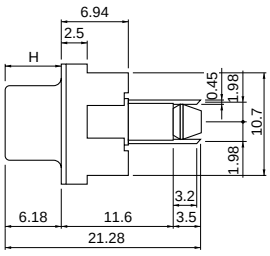
Straight through-hole socket

Type A



With hexagonal lock screw blocks
(H: 6.3mm)
having a No.4-40UNC inch thread

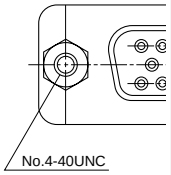




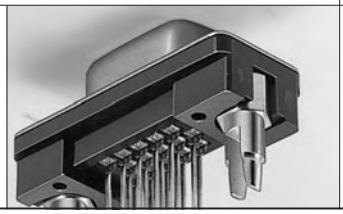
H: Height of the lock screw block (for Types A & B)

Cir-cuits	Model No.		Q´ty / box
	Gold-plated (flash) socket	Gold-plated (0.76micron)socket with No.9 hole blocked	
15	**KES-15S-2A****	**KES-15S-2A**14-23**	100

RoHS compliance *This product displays (LF)(SN) A on a label.*
*Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 15-circuits gold-plated (flash) socket with hexagonal lock screw blocks having a No. 4-40UNC inch thread and with grounding adapters having a spring lock device is required, specify the model number as KES-15S-2A3A.*



With grounding adapters
with a spring lock device



3A

Standards

Recognized E60389 Certified LR20812

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Specifications

Materials

Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
Insulator	Glass-filled PBT, UL94V-0, black
Shell	Steel, copper-undercoated, nickel-plated
Grounding adapter	Brass, nickel-undercoated, tin/copper alloy-plated

Characteristics

Current rating	1.0A, AC, DC
Voltage rating	250V AC, DC
Temperature range	-40°C to +85°C (including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩ max. After environmental testing/30mΩ max.
Insulation resistance	5,000MΩ min.
Withstanding voltage	1,000V AC/minute
Applicable PC board thickness	1.6mm

Note: Contact JST for details.

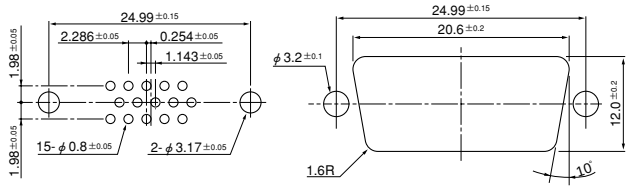
Model number identification

K E S - 15 S - 2A 3 A 14 - 23

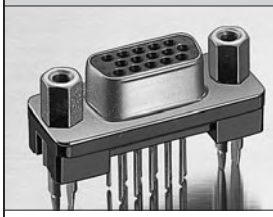
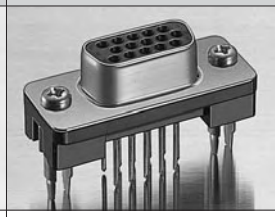
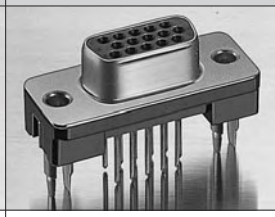
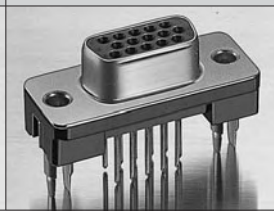
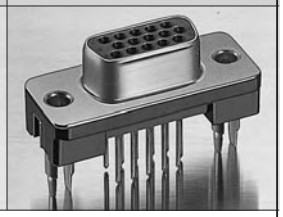
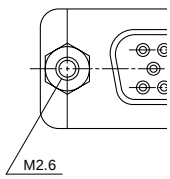
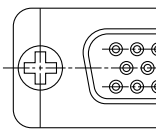
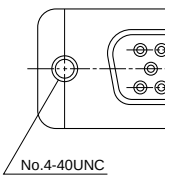
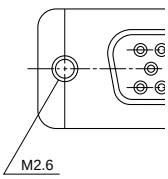
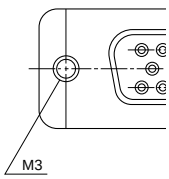
- Series name
- Shell size: E
- Wire connection type:
  S ... Straight through-hole type
- Number of circuits: 15
- Connector type: S ... Socket
- Connector construction/dimensions:
  Standard JK series straight through-hole type
- Type of grounding adapters
  3 ... With grounding adapters having a spring lock device
- Type of lock screw blocks
  A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread
  B ... With hexagonal lock screw blocks having an M2.6 thread
  D ... Without lock screw blocks
  F ... Without lock screw blocks, but with grounding adapters having a No. 4-40UNC inch thread
  G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread
  H ... Without lock screw blocks, but with grounding adapters having an M3 thread
- Finish of mating part
  Blank ... Gold-plated (flash) 12 ... 0.2micron gold-plated
  13 ... 0.4micron gold-plated 14 ... 0.76micron gold-plated
- Blocked hole for keying ... Blank: all holes open, 23: #9 hole blocked

Note: Contact JST for special plating requirements.

PC board layout (viewed from component side) and Panel layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Type B	Type D	Type F	Type G	Type H
				
With hexagonal lock screw blocks (H: 6.3mm) having an M2.6 thread	Without lock screw blocks	Without lock screw blocks F, G, H:Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)		
		*1: No.4-40UNC inch thread *2: Model number JFS-4S-( )1W(M)	*1: M2.6 thread *2: Model number JFS-2.6S-( )1W(M)	*1: M3 thread *2: Model number JFS-3S-( )1W(M)
				
3B	3D	3F	3G	3H

D SUBMINIATURE CONNECTOR KH SERIES

Right angle through-hole socket

RIGHT ANGLE THROUGH-HOLE SOCKET

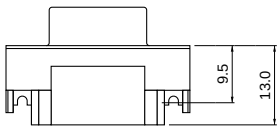
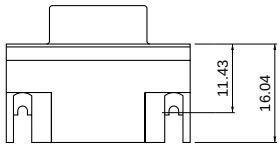
(with hexagonal lock screw blocks)

(without lock screw blocks, but with grounding adapters having a No.4-40UNC inch thread)

Features

- The depth is trimmed to 13.0mm, reducing the surface mounting area by 20% compared with our JK series subminiature connectors.

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

KH series	JK series
	

Standards

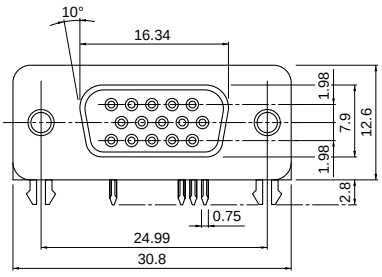
Recognized E60389

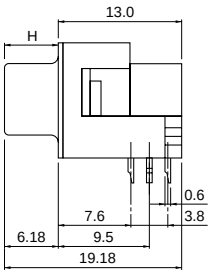
Certified LR20812

Right angle through-hole socket

Type A

With hexagonal lock screw blocks(H:6.3mm) having a No.4-40UNC inch thread



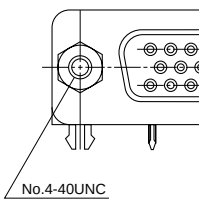


H: Height of the lock screw block (for Types A, B & J)

Cir-cuits	Model No.		Q´ty / box
	Gold-plated (flash) receptacle	Gold-plated (0.76micron) receptacle	
15	**KHEY-15S-1A****	**KHEY-15S-1A**14**	100

RoHS compliance *This product displays (LF)(SN) A on a label.*

*Note: ** shows the location where a two-digit code (see the table below for codes) should be entered. For example, if a 15-circuit gold-plated (flash) socket with hexagonal lock screw blocks having a No.4-40UNC inch thread and with grounding adapters having a spring lock device is required, specify the model number as KHEY-15S-1A3A.*



With grounding adapters with a spring lock device

3A

Specifications

Materials

Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment)
Insulator	Glass-filled PBT, UL94-0, black
Shell	Steel, copper-undercoated, nickel-plated
Grounding adapter with spring lock device	Brass, nickel-undercoated, tin/copper alloy-plated

Characteristics

Current rating	1.0A,AC,DC
Voltage rating	250V,AC,DC
Temperature range	−40℃ to +85℃(including temperature rise in applying electrical current)
Contact resistance	Initial value/15mΩmax. After environmental testing/30mΩmax.
Insulation resistance	5,000MΩmin.
Withstanding voltage	AC1,000V/minute
Applicable PC board thickness	1.6mm

**Contact JST for details.*

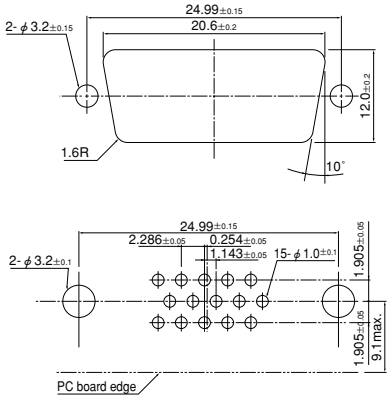
Model number identification

KH E Y - 15 S - 1A 3 A 14

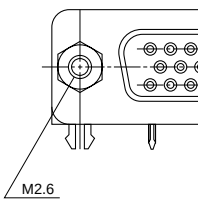
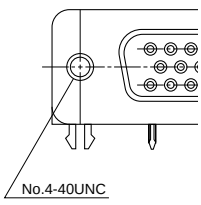
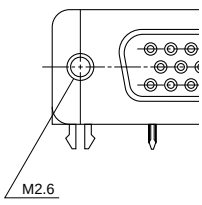
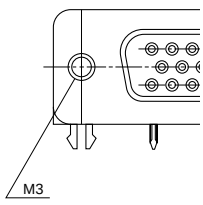
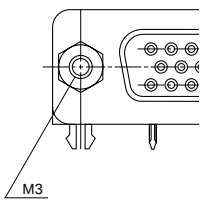
- Series name
- Shell size: E
- Wire connection type:
  Y ... Right angle through-hole type
- Number of circuits: 15
- Connector type: S ... Socket
- Connector construction/dimensions:
  Standard KH series right angle through-hole type
- Types of grounding adapter:
  3 ... With grounding adapters having a spring lock device
- Type of lock screw bock:
  A ... With hexagonal lock screw blocks having a No. 4-40UNC inch thread
  B ... With hexagonal lock screw blocks having an M2.6 thread
  F ... Without lock screw blocks, but with grounding adapters having a No. 4-40UNC inch thread
  G ... Without lock screw blocks, but with grounding adapters having an M2.6 thread
  H ... Without lock screw blocks, but with grounding adapters having an M3 thread
  J ... With hexagonal lock screw blocks having an M3 thread
- Finish of mating part
  Blank ... Gold-plated (flash)
  12 ... 0.2micron gold-plated
  13 ... 0.4micron gold-plated
  14 ... 0.76micron gold-plated

Note: Contact JST for special requirements.

PC board layout (viewed from component side) and Panel layout



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Type B	Type D	Type F	Type G	Type H
With hexagonal lock screw blocks(H:6.3mm) having an M2.6 thread	Without lock screw blocks F, G, H: Grounding adapters have a thread (*1) for securing separately-purchased lock screw blocks (*2)			With hexagonal lock screw blocks(H:6.3mm) having an M3 thread
	*1: No.4-40UNC inch thread *2: Model number HFS-4S-( )1W(M)	*1: M2.6 thread *2: Model number HFS-2.6S-( )1W(M)	*1: M3 thread *2: Model number HFS-3S-( )1W(M)	
				
3B	3F	3G	3H	3J

D SUBMINIATURE CONNECTOR J&JK SERIES

Accessories/EMI prevention shielding cover (J cover)

J COVER

Features

- This shielding cover is made of steel, formed by our advanced stamping technology, and nickel-plated.
- The box-shaped cover completely encloses such EMI radiating areas as the connections between the connector and wires. The result is a superior shielding effect.
- To install the shielding cover, simply align and press the upper and lower cover elements, then tighten the nuts. It then securely grips the round cables.
- This cover is so compact, light and sturdy, that it can be used to cover the connectors of any input/output cable. Moreover, it is attractive in appearance.

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

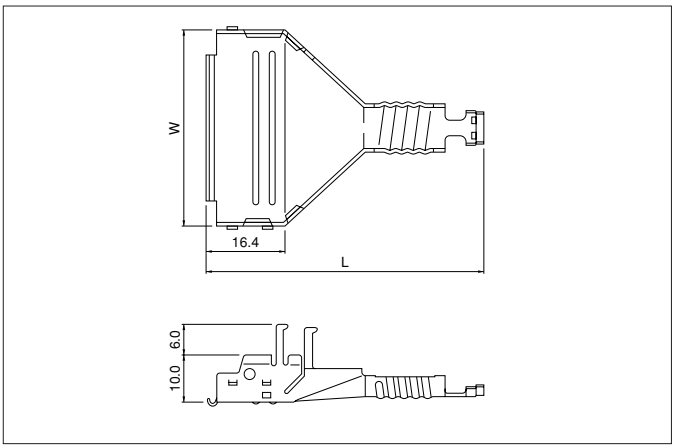
Standards

Recognized E60389

Applicable cable dimensions

Circuits	J series	9	15	25	37
	JK series	15	—	—	—
Cable outer diameter (mm)		7.0 ±0.2		8.0 ±0.2	10.0 ±0.2

Shielding cover A

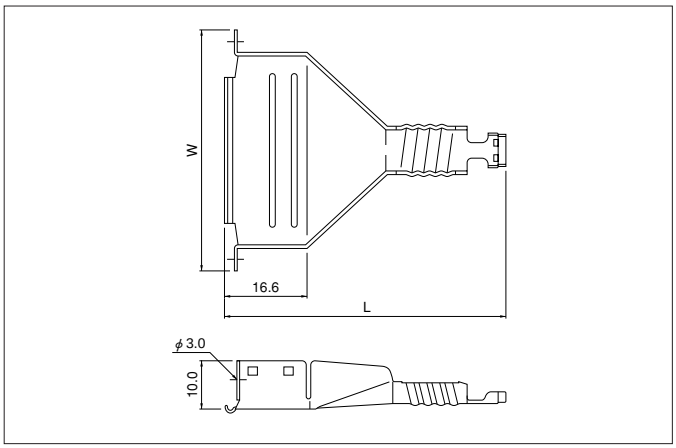


J series		JK series		Dimensions (mm)		Q'ty / box
Cir-cuits	Model No.	Cir-cuits	Model No.	W	L	
9	**J-SC9A**	15	**JK-SC15A**	19.4	42.0	200
15	**J-SC15A**	—	—	27.6	46.9	150
25	**J-SC25A**	—	—	41.4	57.0	100
37	**J-SC37A**	—	—	57.8	70.6	125

Material and Finish
Steel, copper- undercoated, nickel-plated

RoHS compliance
Note: The cover of the JK series 15-circuit connector is the same as that of the J series 9-circuit connector, except for the number of circuits indicated.

Shielding cover B

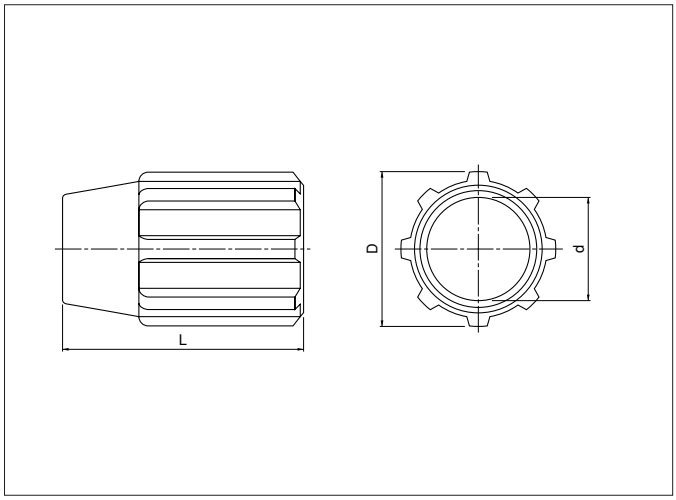


Circuits		Model No.	Dimensions (mm)		Q'ty / box
J series	JK series		W	L	
9	15	**J-SC9B**	30.0	(42.0)	200
15	—	**J-SC15B**	38.0	(46.9)	150
25	—	**J-SC25B**	52.0	(57.0)	150
37	—	**J-SC37B**	68.0	(70.6)	100

Material and Finish
Steel, copper-undercoated, nickel-plated

RoHS compliance
Note: The cover of the JK series 15-circuit connector is the same as that of the J series 9-circuit connector.

Cover nut

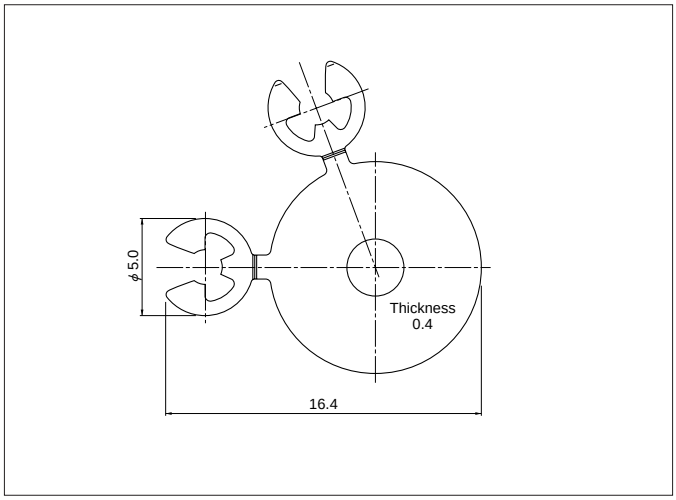


Cir-cuits	Model No.	D	d	L	Q'ty / box
9	**J-CN9・15**	13.6	7.2	19.0	1,000
15					
25	**J-CN25**	16.4	8.4	25.0	1,000
37	**J-CN37**	18.8	10.4	28.0	1,500

Material
Glass-filled, PBT, UL94V-0, black

RoHS compliance

E-ring



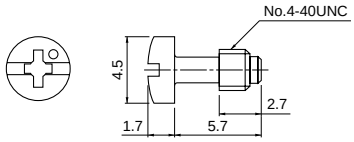
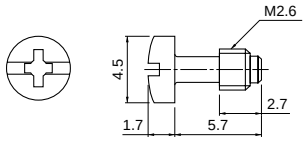
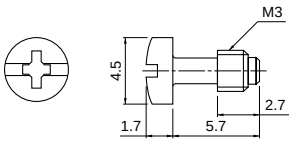
Model No.	Q'ty / box
J-ER	5,000

Material
Stainless steel

RoHS compliance

Note: The cover nuts, lock screws and E-rings are used with both the J and JK series connectors.

Lock screw

No.4-40UNC (Inch thread)	M2.6 (Metric thread)	M3 (Metric thread)
		

Type of screw	Model No.	Q'ty / box
No.4-40UNC (Inch thread)	**J-SL-1C**	5,000
M2.6 (Metric thread)	**J-SL-2C**	5,000
M3 (Metric thread)	**J-SL-3C**	5,000

Material and Finish
Steel, copper-undercoated, nickel-plated

RoHS compliance

Use the following Model Nos. when ordering J-covers as a set.

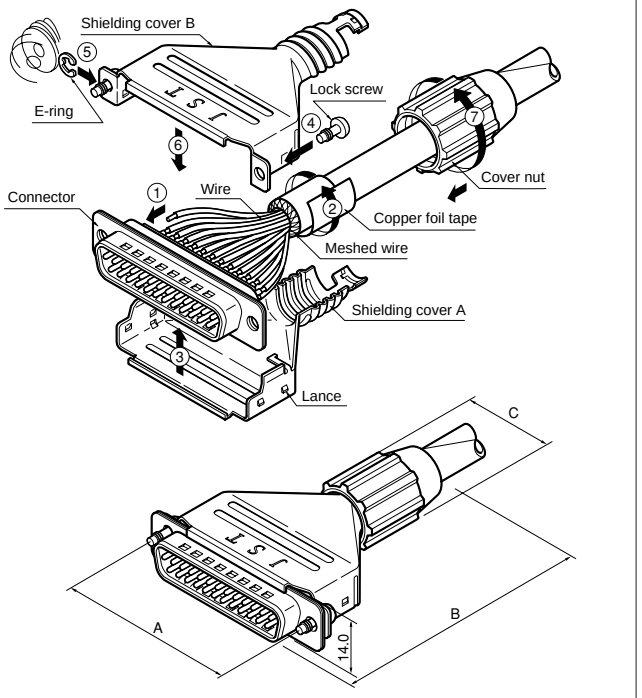
J series		JK series		Parts in one set	Q'ty / box
Circuits	Model No.	Circuits	Model No.		
9	**J-C9-( )C**	15	**JK-C15-( )C**	Shielding cover A ·····1 pc. Shielding cover B ·····1 pc. Cover nut ·····1 pc. Lock screw ·····2 pcs. E-ring ·····1 set	25
15	**J-C15-( )C**	—	—		25
25	**J-C25-( )C**	—	—		20
37	**J-C37-( )C**	—	—		10

RoHS compliance

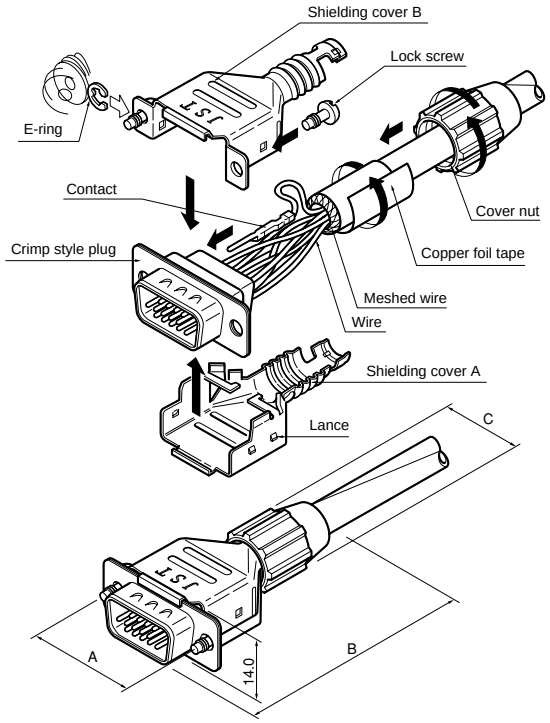
Note: In the above lock screw model numbers, the number in parentheses indicates the type of screw-1: Inch thread (No.4-40UNC), 2: Metric thread (M2.6), 3: Metric thread (M3).

J-cover assembly procedure

J series



JK series



Assembly procedure

1. Connect wires to the connector by soldering or crimping.

2. Fold back the braided shielding wire along the outside insulation and wind the copper foil tape around the shielding wire.

3. Install the connector into shielding cover A.

4. Screw the lock screws onto shielding cover B.

5. Install the E-rings.

6. Align shielding cover B with shielding cover A and press shielding cover B until it engages the lances of shielding cover A.

7. Tighten the cover nut until the predetermined position is reached.

Note: For details of the J-cover assembly procedure, please refer to the processing specifications separately available. The shielding effect of the J-cover is critically dependent on proper assembly.

Dimensions after assembly

Circuits		Dimensions (mm)		
J series	JK series	A	B	C
9	15	24.99	(49.0)	13.6
15	—	33.32	(53.0)	13.6
25	—	47.04	(64.5)	16.4
37	—	63.50	(78.5)	18.9

D SUBMINIATURE CONNECTOR J&JK SERIES

Accessories/EMI prevention overmolding cover

MOLD COVER

Features

- This cover completely encloses all wire connections to the connector, and its braided wire crimp section ensures a reliable ground connection. The result is excellent shielding.
- This cover is sturdy enough to withstand the high pressure necessary during overmolding. It can thus be finish-molded directly.

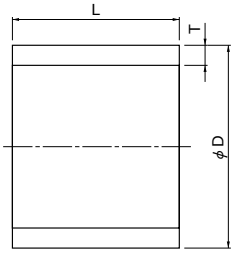
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Applicable cable diameter

Circuits		Cable O.D.(mm)
J series	JK series	
9	15	$8.6^{\pm 0.2}$
15	—	$7.6^{\pm 0.2}$
25	—	$8.6^{\pm 0.2}$

Note: Contact JST for cables other than those listed above.

Ferrule

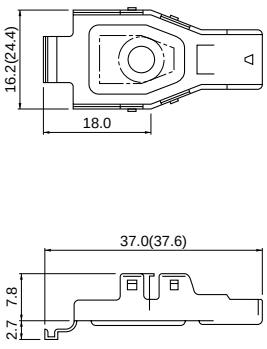


Circuits		Ferrule	Dimensions (mm)		
J series	JK series		ϕD	T	L
9・25	15	A	8.0	0.5	4.0
		B	11.3	0.6	8.0
15	—	A	7.0	0.5	4.0
		B	10.5	0.6	8.0

RoHS compliance

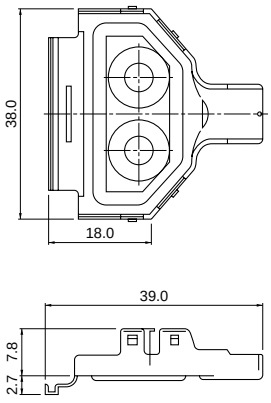
Mold cover A

JK-MC15A-3
J-MC15A



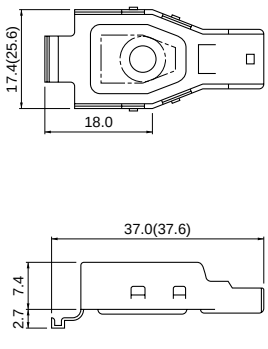
**Dimensions in ( ) are those for the J-MC15A.*

J-MC25A-4



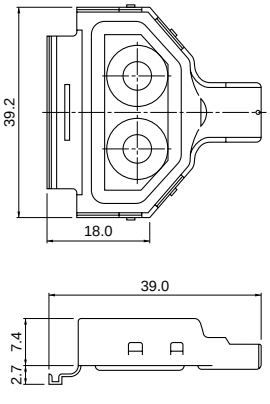
Mold cover B

JK-MC15B-3
J-MC15B



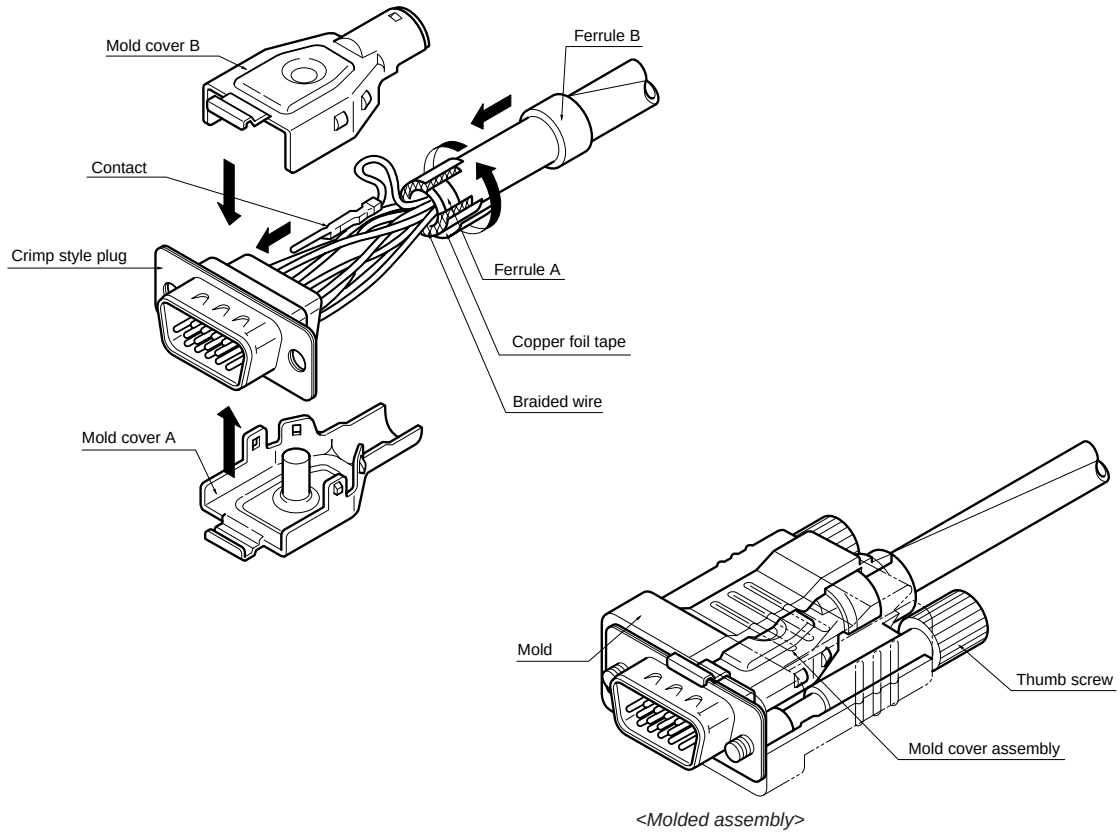
**Dimensions in ( ) are those for the J-MC15B.*

J-MC25B-4



RoHS compliance

Mold cover assembly procedure



<Molded assembly>

Note: Contact JST for thumb screws.

Assembly procedure

1. Processing braided shielding wire

Pass the cable through ferrule B and remove the insulation at the end of the cable. Install ferrule A and fold back the braided shielding wire along the outside insulation. Then wind the copper foil tape around the shielding wire.

2. Connecting the wires to the contacts

Connect the wires to the contacts by crimping and insert the contacts into the housing.

3. Assembling the mold covers

Align mold cover B with mold cover A and press mold cover B until it engages the lances of mold cover A. Install ferrule B over the cable holding section of the cover assembly and crimp ferrule B. This completes the assembly.

Circuits		Parts name	Model No.	Material and Finish	Q'ty / box or bag
J series	JK series				
9	15	Mold cover A	**JK-MC15A-3**	Steel, copper-undercoated, nickel-plated	500
		Mold cover B	**JK-MC15B-3**		
		Ferrule A	**JK-FL15A-8.0C**	Copper, tin-plated	1,000
		Ferrule B	**JK-FL15B-11.3**		500
15	—	Mold cover A	**J-MC15A**	Steel, copper-undercoated, nickel-plated	200
		Mold cover B	**J-MC15B**		
		Ferrule A	**J-FL15A-7.0C**	Copper, tin-plated	1,000
		Ferrule B	**J-FL15B-10.5**		500
25	—	Mold cover A	**J-MC25A-4**	Steel, copper-undercoated, nickel-plated	250
		Mold cover B	**J-MC25B-4**		
		Ferrule A	**JK-FL15A-8.0C**	Copper, tin-plated	1,000
		Ferrule B	**JK-FL15B-11.3**		500

RoHS compliance

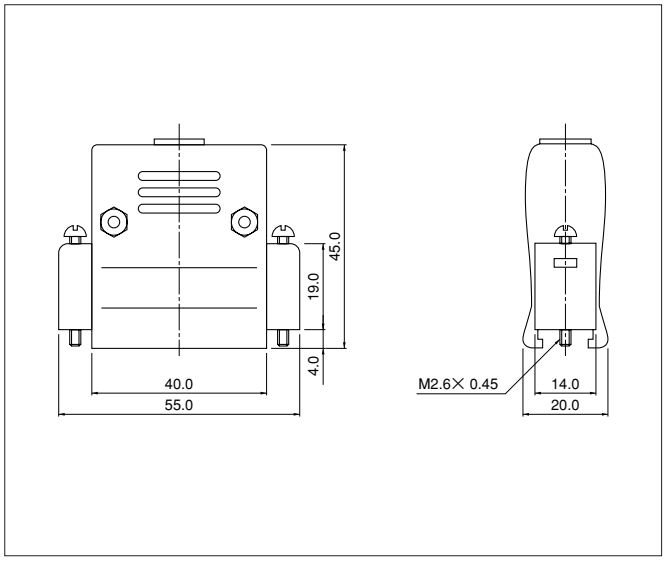
Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
JK-FL15B-11.3	AP-K2N	MKS-L-RG	MK/JK-MC15	APLMK JK-MC15
J-FL15B-10.5			MK/J-MC15	APLSC JK-MC15

D SUBMINIATURE CONNECTOR J&JK SERIES

Accessories/Covers

EMI SHIELDING ALUMINUM DIE-CAST COVER (for 25-circuit J series connectors)



Features

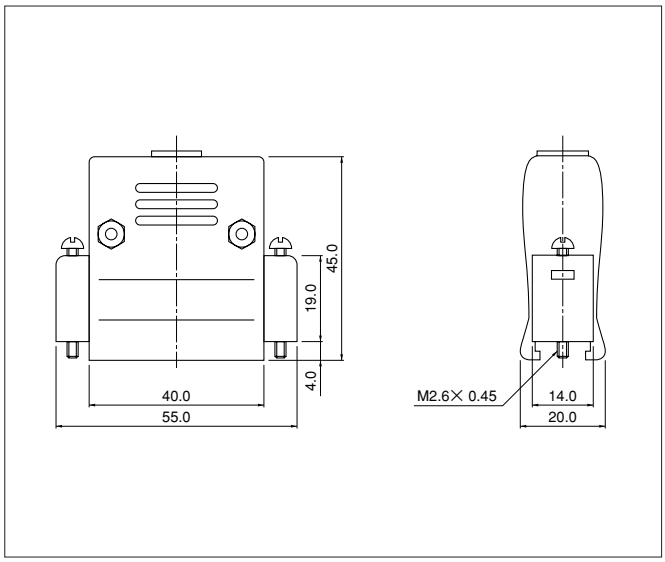
- This cover is made of aluminum die-cast .
- The D subminiature connector and all its wire connections can be completely covered to provide excellent shielding.
- This EMI shielding cover can be used together with the hexagonal and rectangular metric lock screws specified in JIS-C6361. This cover is ideally suited for RS-232C cable connectors.

Model No.	Parts in one set	Cover material	Q´ty / box
JCB-25EM	Cover A - 1 pc. Cover B - 1 pc. Lock screw - 2 pcs. Cable clamp - 2 pcs. Cover screws and nuts - 2 pcs. for each Clamp screws - 4 pcs.	Aluminum die-cast	10

RoHS compliance

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

JIS STYLE PLASTIC COVER (for 25-circuit J series connectors)



Features

- Molded plastic cover.
- This cover can be used together with the hexagonal and rectangular metric lock screws specified in JIS-C-6361.

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Model No.	Parts in one set	Cover material	Q´ty / box
JCB-25M	Covers - 2 pcs. Lock screw - 2 pcs. Cable clamp - 2 pcs. Cover screws and nuts - 2 pcs. for each Clamp screws - 2 pcs.	ABS resin	10

RoHS compliance

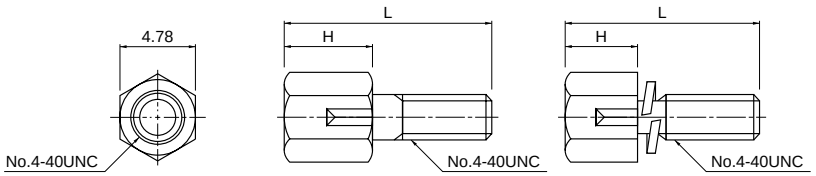
D SUBMINIATURE CONNECTOR J·JH·JK & KH SERIES

Accessories/Lock screw block

A varietly of accessories are available for the D subminiature connectors.

LOCK SCREW BLOCK

Hexagonal lock screw block
(inch thread: No.4-40UNC)

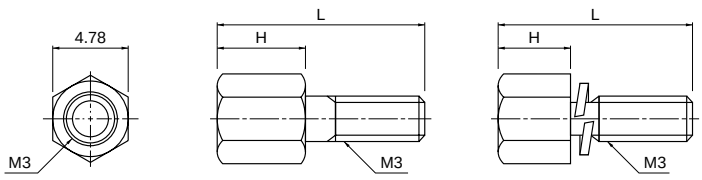


Type A **Type B**

Applicable series / Dimension / Model No.	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension L (mm)	13.1	15.0	10.0	11.8				
Model No.	**JFS-4S-C1N**	**KFS-4S-C1N**	—	—	5.5	A	Spring washer .. 1 pc. Nut ..... 1 pc.	2,000
	JFS-4S-B1W	**KFS-4S-B1W**	**SFS-4S-B1W**	**HFS-4S-B1W**	4.8		Spring washer .. 1 pc.	
	JFS-4S-C1W	**KFS-4S-C1W**	**SFS-4S-C1W**	**HFS-4S-C1W**	5.5			
	JFS-4S-B1WM	**KFS-4S-B1WM**	**SFS-4S-B1WM**	**HFS-4S-B1WM**	4.8	B	Hexagonal lock screw & spring washer are integrated	
	JFS-4S-C1WM	**KFS-4S-C1WM**	**SFS-4S-C1WM**	**HFS-4S-C1WM**	5.5			

RoHS compliance

Hexagonal lock screw block
(metric thread: M3)

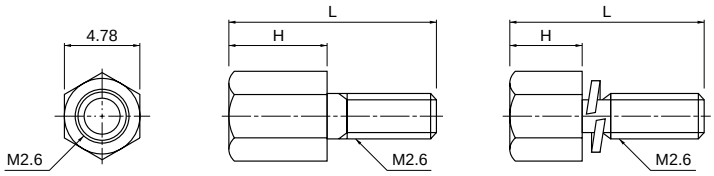


Type A **Type B**

Applicable series / Dimension / Model No.	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q'ty / box
Dimension L (mm)	13.1	15.0	10.0	11.8				
Model No.	**JFS-3S-C1N**	**KFS-3S-C1N**	—	—	5.5	A	Spring washer .. 1 pc. Nut ..... 1 pc.	2,000
	JFS-3S-B1W	**KFS-3S-B1W**	**SFS-3S-B1W**	**HFS-3S-B1W**	4.8		Spring washer .. 1 pc.	
	JFS-3S-C1W	**KFS-3S-C1W**	**SFS-3S-C1W**	**HFS-3S-C1W**	5.5			
	JFS-3S-B1WM	**KFS-3S-B1WM**	**SFS-3S-B1WM**	**HFS-3S-B1WM**	4.8	B	Hexagonal lock screw & spring washer are integrated	
	JFS-3S-C1WM	**KFS-3S-C1WM**	**SFS-3S-C1WM**	**HFS-3S-C1WM**	5.5			

RoHS compliance

Hexagonal lock screw block (metric thread: M2.6)

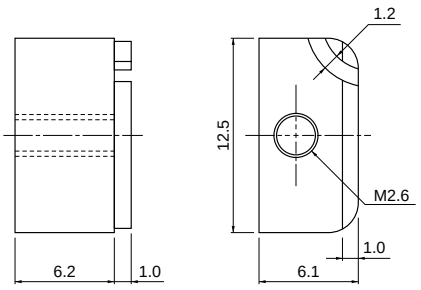


Type A **Type B**

Applicable series / Dimension / Model No.	J series right angle through-hole type JK series straight through-hole type	JK series right angle through-hole type	J series straight through-hole type	JH series right angle through-hole type KH series right angle through-hole type	Dimension H (mm)	Type	Attachment	Q´ty / box
Dimension L (mm)	13.1	15.0	10.0	11.8				
Model No.	**JFS-2.6S-C1N**	**KFS-2.6S-C1N**	—	—	5.5	A	Spring washer .. 1 pc. Nut ..... 1 pc.	2,000
	JFS-2.6S-B1W	**KFS-2.6S-B1W**	**SFS-2.6S-B1W**	**HFS-2.6S-B1W**	4.8		Spring washer .. 1 pc.	
	JFS-2.6S-C1W	**KFS-2.6S-C1W**	**SFS-2.6S-C1W**	**HFS-2.6S-C1W**	5.5			
	JFS-2.6S-B1WM	**KFS-2.6S-B1WM**	**SFS-2.6S-B1WM**	**HFS-2.6S-B1WM**	4.8	B	Hexagonal lock screw & spring washer are integrated	
	JFS-2.6S-C1WM	**KFS-2.6S-C1WM**	**SFS-2.6S-C1WM**	**HFS-2.6S-C1WM**	5.5			

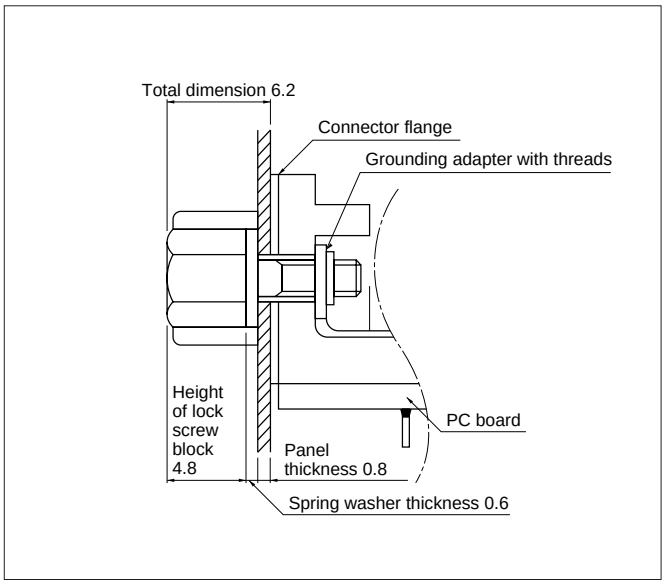
RoHS compliance

Rectangular lock screw block (metric thread: M2.6)



Model No.	Attachment	Q´ty / box
JFS-2.6R-N	Spring washer – 1 pc. Set screw – 1 pc.	1,000

RoHS compliance

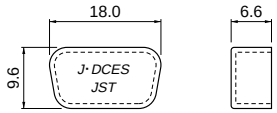


Application examples of hexagonal lock screw blocks

- The resulting total dimension from the connector flange to the top of the hexagonal lock screw block must be 6.2mm after assembly.
- The D subminiature connector can be installed on the Panel by simply tightening the hexagonal lock screw block together with grounding adapter, which has an identical thread to that of the F, G, and H types.

DUST COVER (for receptacles)

Type A

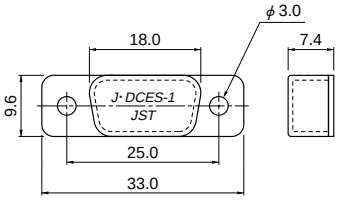


Type	Circuits		Model No.	Q´ty / box
	J series	JK series		
A	9	15	**J-DCES**	1,000
B			**J-DCES-1**	

Material
PA, UL94V-0, black

RoHS compliance

Type B



EXTRACTION TOOL

With this tool, contacts (connected to wires by crimping) can be easily removed if they are improperly inserted into plug and receptacle housings.

Applicable Connector		Model No.
J series		**DEJ-0.3**
JK series	Plug	**KEJ-0.7**
	Receptacle	**KEJ-0.4**

MD CONNECTOR

Miniature circular connectors

The extremely compact MD miniature circular connector has an outside diameter roughly half that of conventional circular DIN connectors. The connector's contact exclusively designed by JST dramatically reduces assembly time while improving contact reliability. The MD connector's shielding is superb. All you need to do is crimp the connector ground clip over the cable's braided shielding wire. Simple and reliable, JST's MD connector is well suited for the production of high-density office automation equipments as well as audio and video products.

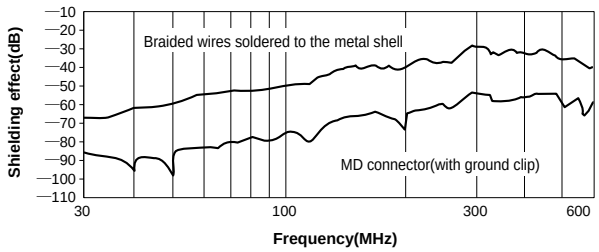
- ***Crimp contact with integral construction for improved reliability***
- ***Easy assembly without using special tools***
- ***Simple braid-to-connector assembly and effective EMI protection***

Standards

Recognized E60389

Certified LR20812

Shielding effect



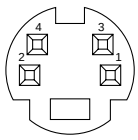
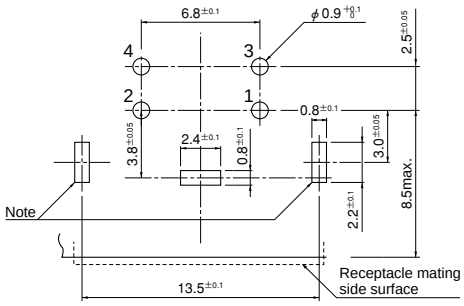
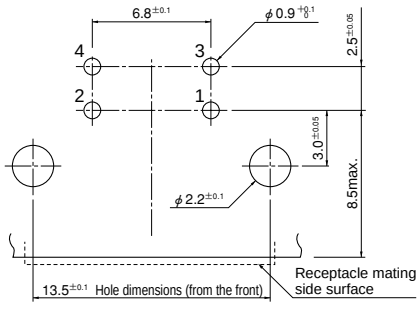
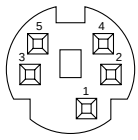
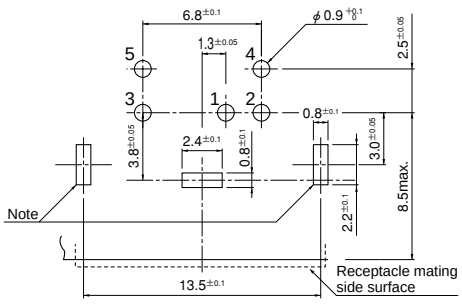
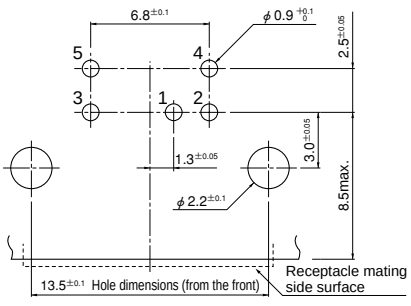
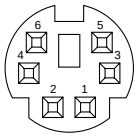
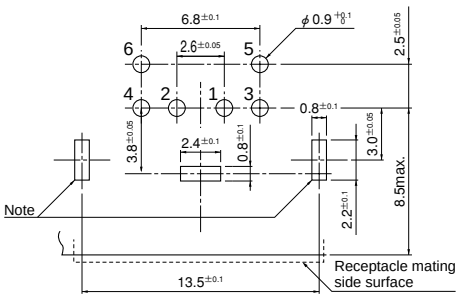
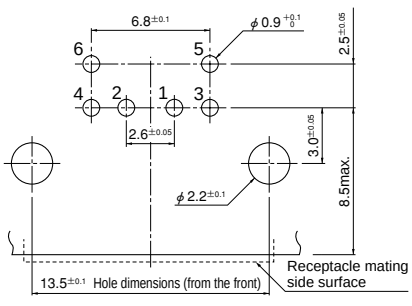
•The shielding effect differs depending on the wire specifications.

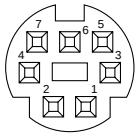
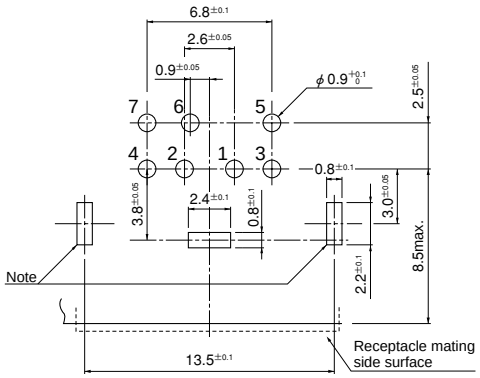
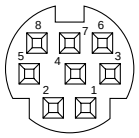
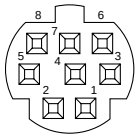
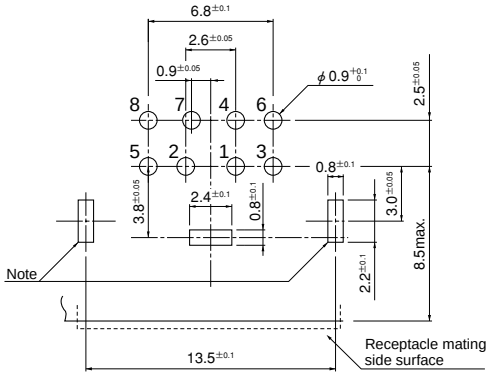
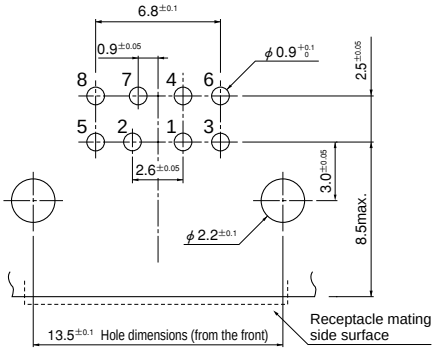
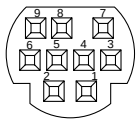
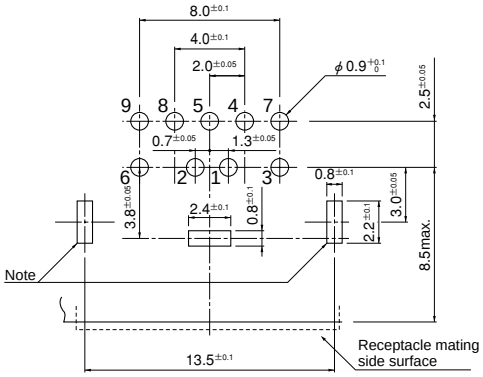
* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

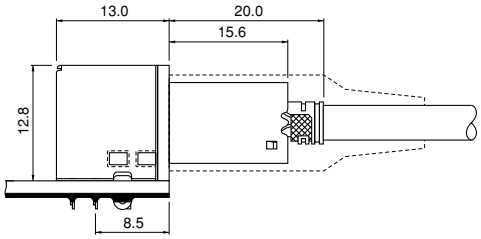
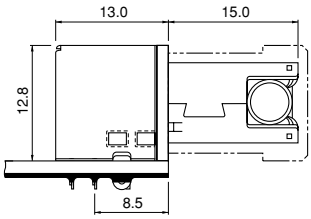
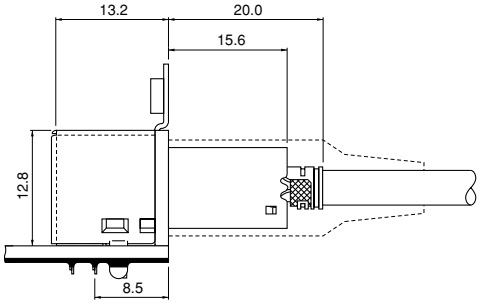
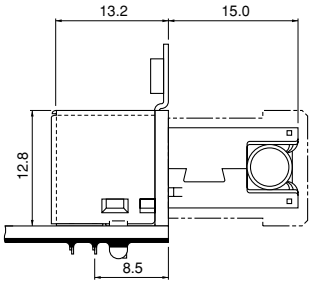
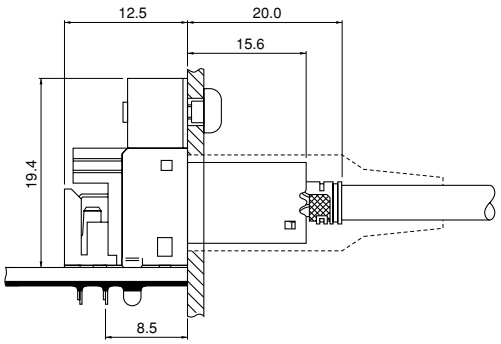
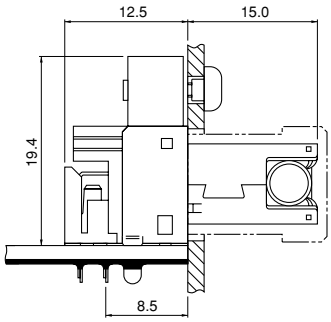
PC board layout

Layout / Circuits	Mating section layout	PC board layout (viewed from component side)	
		Standard and Type B	Front shielding type
4			
5			
6			

Layout / Circuits	Mating section layout	PC board layout (viewed from component side)	
		Standard and Type B	Front shielding type
7			—
8	 (Type B) 		
9			—

Note: 1. The two holes are necessary when installing a shielding cover.
2. Tolerances are non-cumulative: ±0.05mm for all centers.
3. Hole dimensions differ depending on the kind of PC board and piercing method. The dimensions above should serve as a guideline. For details, contact JST.
4. The layout drawing is viewed from the receptacle mounting side.
5. When using a receptacle with shielding cover or with flange shielding cover, the pattern should be designed to connect the shielding cover and the shielding tube, if necessary. (No need for the front shielding cover.)

Assembly layout

Plug / Receptacle	Straight type	Side entry type
Standard type Type B With shielding cover		
Standard type Type B With flange shielding cover		
Front shielding type		

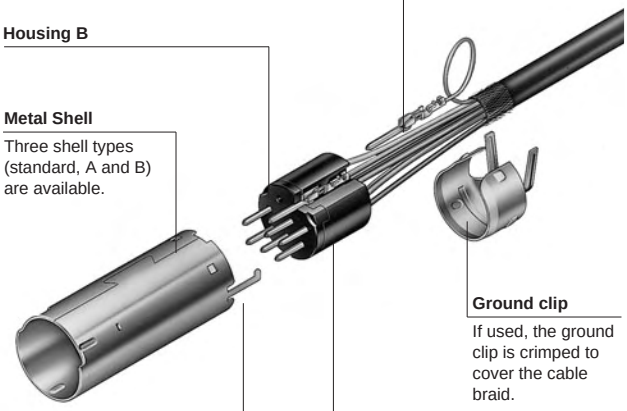
Plug

Straight type plug

Contact
JST's exclusive one-piece contact is formed and cold worked by stamping presses to ensure the highest reliability.

Housing B

Metal Shell
Three shell types (standard, A and B) are available.



Ground clip
If used, the ground clip is crimped to cover the cable braid.

Housing A
Housing A is designed to keep the contacts firmly in place while protecting them from damage.

Solder tail

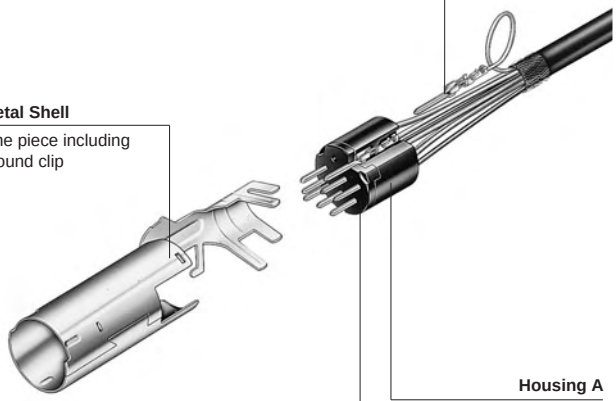
Assembled product

Molded product

Side entry type plug

Contact

Metal Shell
One piece including ground clip



Housing A

Housing B

Assembled product

Molded product

Specifications

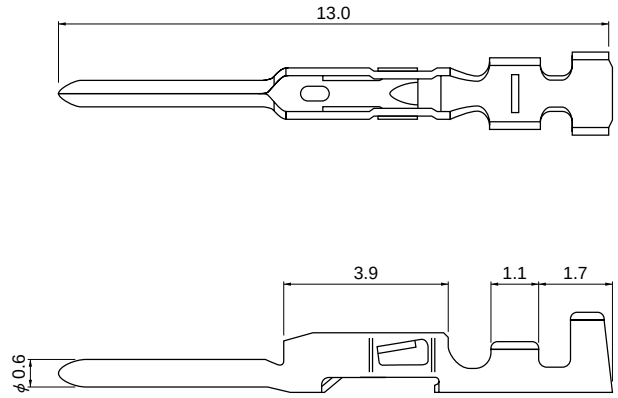
Materials

Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Crimping part; tin-plated (reflow treatment) Phosphor bronze, tin-plated (reflow treatment) Phosphor bronze, nickel-undercoated silver-plated
Housing A, B	PBT, UL94V-0, black
Metal shell	Steel, nickel-plated
Ground clip	Brass, nickel-plated

Characteristics

Current rating	1.0A, AC, DC (AWG#26)
Voltage rating	50V, AC, DC
Temperature range	-25˚C ~ +85˚C(including temperature rise in applying electrical current)
Contact resistance	Initial value: 100mΩ max. After environmental testing: 300mΩ max.
Insulation resistance	50MΩ min.
Withstanding voltage	500V AC/minute
Applicable wire	AWG #30 ~ #24

Plug contact



Model No.			Applicable wire			Q´ty / reel
Gold-plated (flash)	Silver-plated	Tin-plated	mm²	AWG #	Insulation O.D. (mm)	
MD-SP2240	**MD-SP2270**	**MD-SP2290**	0.06 ～ 0.13	30 ～ 26	0.7 ～ 1.1	10,000
MD-SP1240	**MD-SP1270**	**MD-SP1290**	0.13 ～ 0.2	26 ～ 24	1.0 ～ 1.2	10,000

RoHS compliance *Gold-plated products display (LF)(SN) on a label.*

Model number identification

MD - S P 2 2 40

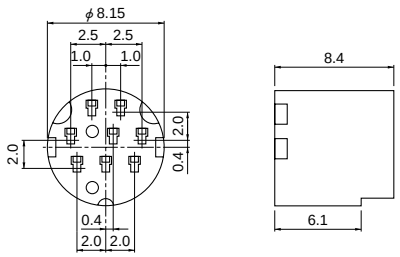
- Series name
- Product from: S ... Chain, B ... Loose piece
- Type of contact: P ... Plug contact
- Applicable wire: 1 ... AWG #26 ～ #24
  2 ... AWG #30 ～ #26
- Material: 2 ... Phosphor bronze
- Finish
  40 ... Gold-plated (flash)
  44 ... 0.76 micron gold-plated
  45 ... 1.3 micron gold-plated
  70 ... Silver-plated
  90 ... Tin-plated (reflow treatment)

**Contact JST for details.*

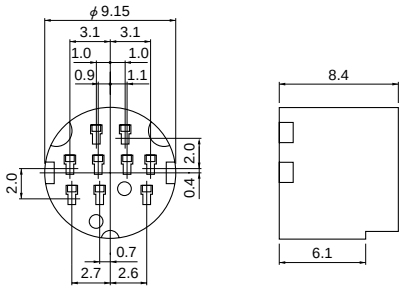
Housing

Housing A

(With 4 to 8 circuits)

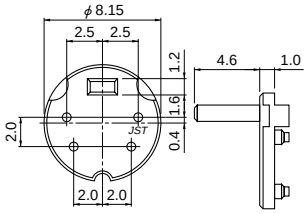


(With 9 circuits)

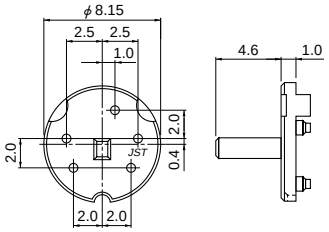


Housing B

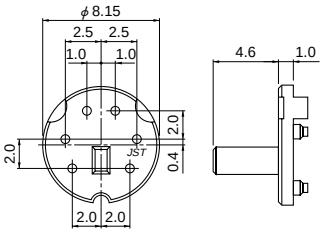
(With 4 circuits)



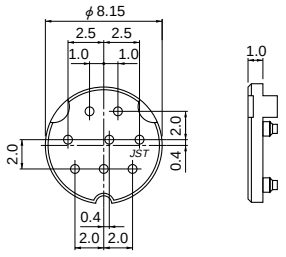
(With 5 circuits)



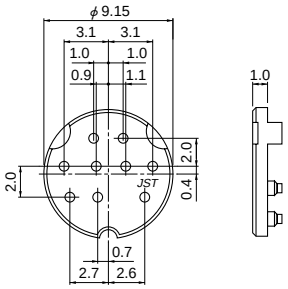
(With 6 circuits)



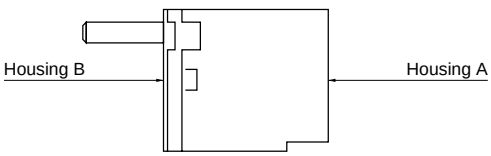
(With 8 circuits)



(With 9 circuits)



Combined housings A and B



Housing A is used with housing B. Housing B must have the same number of orifices as there will be contacts in the connector. However, housing A can have a greater number of cavities (but never less). Thus in applications in which a user may require MD connectors with different pin counts, only one kind of "A" housing needs to be inventoried - the one with the highest pin count. For more details regarding such combinations, contact JST.

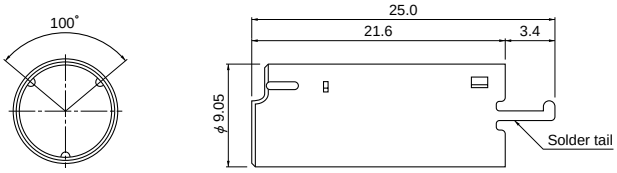
Circuits	Model No.		Q´ty / box
	Housing A	Housing B	
4	**MD-PI 4A**	**MD-PI 4B**	1,000
5	—	**MD-PI 5B**	1,000
6	**MD-PI 6A**	**MD-PI 6B**	1,000
8	**MD-PI 8A**	**MD-PI 8B**	1,000
9	**MD-PI 9A**	**MD-PI 9B**	1,000

RoHS compliance
Note: MD-PI5B is not CSA certified.

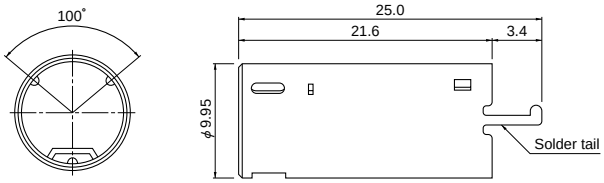
Metal shell (straight type)

Standard type

(With 4 to 8 circuits)

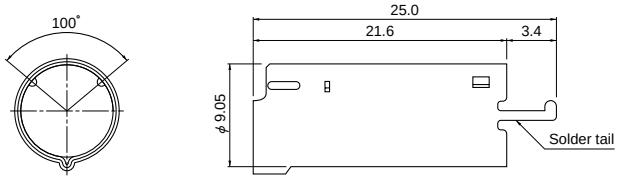


(With 9 circuits)



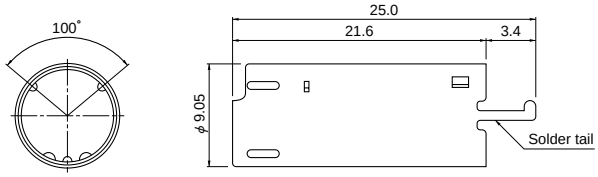
Type A

(features polarizing keys, usable with S-VHS connector)



Type B

(features 4 polarizing keys, usable with having 8 circuits)

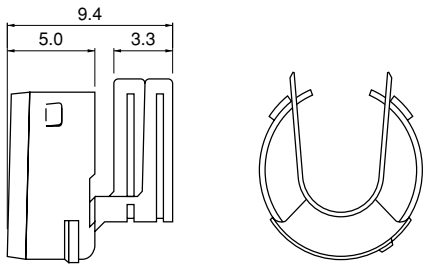


Circuits	Model No.						Q´ty / box
	Standard		Type A (features three polarizing keys)		Type B (features 4 polarizing keys...8 circuits only)		
	With solder tail	Without solder tail	With solder tail	Without solder tail	With solder tail	Without solder tail	
4 ～ 8	**MD-PS8T**	***MD-PS8T1**	***MD-PS8AT**	***MD-PS8AT1**	***MD-PS8BT**	***MD-PS8BT1**	750
9	**MD-PS9T**	***MD-PS9T1**	—	—	—	—	750

RoHS compliance

**Marked products are not CSA certified.*

Ground clip

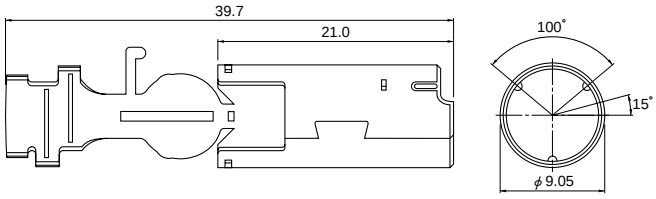


Circuits	Model No.	Applicable cable O.D.(mm)	Q´ty / reel
4 ～ 8	**MD-PCC8T-S1**	2.7 ～ 3.8	1,000
	MD-PCC8T-S2	4.3 ～ 5.5	1,000
9	**MD-PCC9T-S3**	3.6 ～ 4.8	1,000

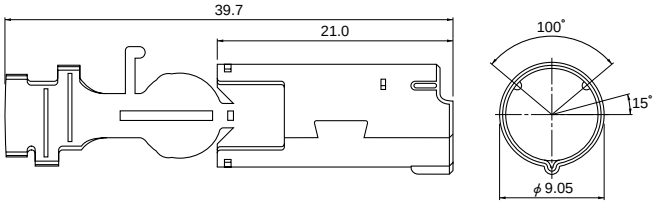
RoHS compliance

Metal shell (side entry type)

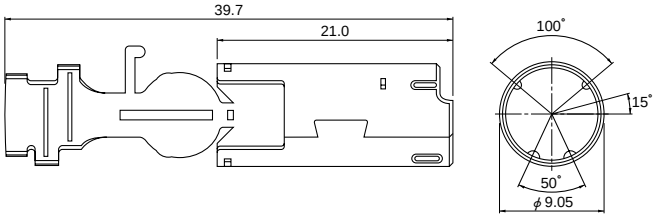
Standard type

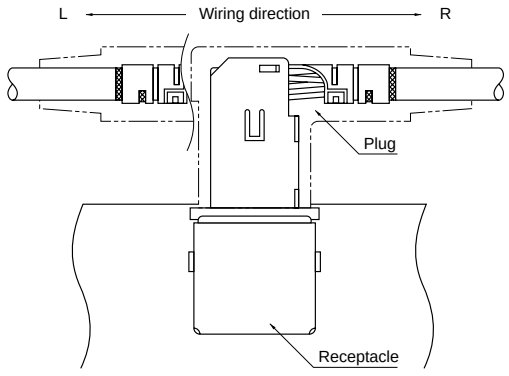


Type A
(features polarizing keys, usable with S-VHS connector)



Type B
(features 4 polarizing keys, usable with housing having 8 circuits)





Viewing from the receptacle mounting side

Type	Circuits	Model number		Q´ty / box
		R	L	
Standard	4 ~ 8	**MD-PS8SR**	**MD-PS8SL**	500
A	4 ~ 8	**MD-PS8ASR**	—	500
B	8	**MD-PS8BSR**	—	500

RoHS compliance

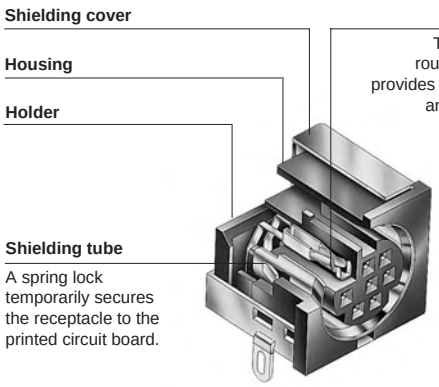
Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
MD-PCC8T-S1	AP-K2N	MKS-L	MK/MD-PCC8T-S1	APLMK MD-PCC8T-S1
		*MKS-SC	–	–
MD-PCC8T-S2		MKS-L	MK/MD-PCC8T-S2	APLMK MD-PCC8T-S2
		*MKS-SC	–	–
MD-PCC8T-S3		MKS-L	MK/MD-PCC8T-S3	APLMK MD-PCC8T-S3
		*MKS-SC	–	–
MD-PS8SL		MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR
		*MKS-SC	–	–
MD-PS8ASR		MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR
		*MKS-SC	–	–

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
MD-PS8BSR	AP-K2N	MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR
		*MKS-SC	–	–
MD-PS8SR		MKS-L-RG	MK/MD-PS8SR	APLMK MD-PS8SR
		*MKS-SC	–	–
MD-SP12**		MKS-L	MK/MD-SP12	APLMK MD-SP12
		*MKS-SC	SC/MD-SP12	APLSC MD-SP12
MD-SP22**		MKS-L	MK/MD-SP22	APLMK MD-SP22
		*MKS-SC	SC/MD-SP22	APLSC MD-SP22

*Note: *Strip-crimp applicator*

Receptacle (through-hole type)



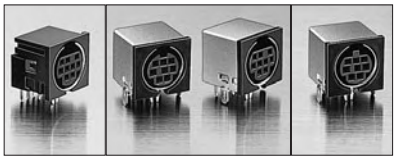
(Standard type/Type B)

• *Compact, high-density design*

This receptacle has a low profile with a mounting height of just 12.8mm and width of 14.0mm. It takes up little space on the printed circuit board, allowing high-density product design.

• *Spring locks make it easy to temporarily secure receptacles to printed circuit boards for soldering*

The shielding tubes are equipped with spring locks which can be used to temporarily secure the receptacles to printed circuit boards. This prevents the receptacles from moving and ensures reliable soldering.



Standard type without shielding cover (left)
Standard type with shielding cover (center)
Type B (applicable to Type B plug) (right)

• *Split round contact provides maximum contact area and contact redundancy*

The receptacle contact is split to insure redundant connection and is cylindrically shaped to provide maximum contact mating area. The result is a highly reliable connection to the mating pin. This superb contact performance is maintained even after many mating and unmating cycles.

• *Flange construction*

The flange construction allows the receptacle to be secured on the equipment chassis with screws, ensuring more reliable electrical connection.

Standard type with flange shielding cover

(Front shielding type)

• *Front shielding construction*

A metal shielding cover integrating the connection part which connects to the plug's shell is used. Because there is no gap between the receptacle and the plug, this construction prevents the entry of space conductive noise.

• *Effective shielding*

With the front shielding construction and the flange construction, the shielding effect is improved by about 15 dB over the conventional models.

Front shielding type receptacle

Specifications

Materials

Part name	Material and Finish
Contact	Phosphor bronze, nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated (reflow treatment) Phosphor bronze, nickel-undercoated silver-plated Phosphor bronze, tin-plated (reflow treatment)
Housing / Holder	PBT, UL94V-0

Characteristics

Current rating	1.0A, AC, DC
Voltage rating	50V, AC, DC
Temperature range	-25°C ~ +85°C(including temperature rise in applying electrical current)
Contact resistance	Initial value: 100mΩ max. After environmental testing: 300mΩ max.
Withstanding voltage	500V AC/minute
Applicable PC board thickness	1.6mm

[Standard type/ Type B]

Shielding tube	Brass, nickel-plated (*note)
Shielding cover	Brass, nickel-undercoatd, tin/copper alloy-plated

[Front shielding Type]

Shielding cover	Brass, nickel-plated (*note)

Note: Use soldering flux that is suitable for nickel-plating. Tin plated version is also available.

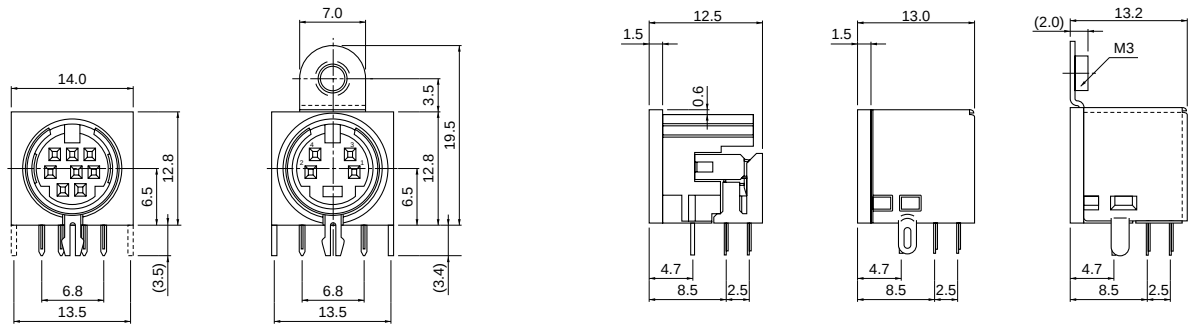
Model number identification

MD - S 8 0 00 B - 10

- Series name
- Product name: S ... Receptacle
- Circuits: 4, 5, 6, 7, 8, 9
- Shielding cover: 0 ... Without shielding cover
  1 ... With shielding cover
  3 ... With front shielding cover
- Flange: 00 ... Without flange
  30 ... With flange
  50 ... With top flange with nuts
- Type B indication
  B ... Type B (Applicable to Type B plug)
  Blank...Standard type (Applicable to Standard and Type A plugs)
  ...Front shielding type (Applicable to Standard and Type plugs)
- Finish
  10 ... Gold-plated (flash)
  13 ... 0.4micron gold-plated
  14 ... 0.76micron gold-plated
  70 ... Silver-plated
  90 ... Tin-plated (reflow treatment)

Note: Contact JST for special plating requirements.

Standard type / Type B



Without shielding cover
With shielding cover

With flange shielding cover

Without shielding cover

With shielding cover

With flange shielding cover

• Standard type: Without shielding cover

Cir-cuits	Model No.			Q´ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
4	**MD-S4000-10**	**MD-S4000-70**	**MD-S4000-90**	200
5	**MD-S5000-10**	**MD-S5000-70**	**MD-S5000-90**	200
6	**MD-S6000-10**	**MD-S6000-70**	**MD-S6000-90**	200
7	**MD-S7000-10**	**MD-S7000-70**	**MD-S7000-90**	200
8	**MD-S8000-10**	**MD-S8000-70**	**MD-S8000-90**	200
9	**MD-S9000-10**	**MD-S9000-70**	**MD-S9000-90**	200

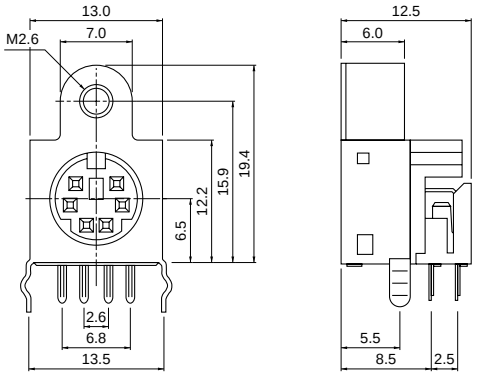
RoHS compliance *Gold-plated products display (LF)(SN) on a label.*

• Standard type: With shielding cover

Cir-cuits	Model No.			Q´ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
4	**MD-S4100-10**	**MD-S4100-70**	**MD-S4100-90**	200
5	**MD-S5100-10**	**MD-S5100-70**	**MD-S5100-90**	200
6	**MD-S6100-10**	**MD-S6100-70**	**MD-S6100-90**	200
7	**MD-S7100-10**	**MD-S7100-70**	**MD-S7100-90**	200
8	**MD-S8100-10**	**MD-S8100-70**	**MD-S8100-90**	200
9	**MD-S9100-10**	**MD-S9100-70**	**MD-S9100-90**	200

RoHS compliance *Gold-plated products display (LF)(SN) on a label.*
Silver-plated/Tin-plated products display (LF) on a label.

Front shielding type



• Standard type: With flange shielding cover

Cir-cuits	Model No.			Q´ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
4	**MD-S4130-10**	**MD-S4130-70**	**MD-S4130-90**	200
5	**MD-S5130-10**	**MD-S5130-70**	**MD-S5130-90**	200
6	**MD-S6130-10**	**MD-S6130-70**	**MD-S6130-90**	200
7	**MD-S7130-10**	**MD-S7130-70**	**MD-S7130-90**	200
8	**MD-S8130-10**	**MD-S8130-70**	**MD-S8130-90**	200

RoHS compliance *Gold-plated products display (LF)(SN) on a label.*
Silver-plated/Tin-plated products display (LF) on a label.

• Type B: Without shielding cover

Cir-cuits	Model No.			Q´ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
8	**MD-S8000B-10**	**MD-S8000B-70**	**MD-S8000B-90**	200

RoHS compliance *Gold-plated products display (LF)(SN) on a label.*

• Type B: With shielding cover

Cir-cuits	Model No.			Q´ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
8	**MD-S8100B-10**	**MD-S8100B-70**	**MD-S8100B-90**	200

RoHS compliance *Gold-plated products display (LF)(SN) on a label.*
Silver-plated/Tin-plated products display (LF) on a label.

• Type B: With flange shielding cover

Cir-cuits	Model No.			Q´ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
8	**MD-S8130B-10**	**MD-S8130B-70**	**MD-S8130B-90**	200

RoHS compliance *Gold-plated products display (LF)(SN) on a label.*
Silver-plated/Tin-plated products display (LF) on a label.

• Front shielding type

Cir-cuits	Model No.			Q´ty / box
	Gold-plated(flash)receptacle	Silver-plated receptacle	Tin-plated receptacle	
4	**MD-S4350-10**	**MD-S4350-70**	**MD-S4350-90**	200
5	**MD-S5350-10**	**MD-S5350-70**	**MD-S5350-90**	200
6	**MD-S6350-10**	**MD-S6350-70**	**MD-S6350-90**	200
8	**MD-S8350-10**	**MD-S8350-70**	**MD-S8350-90**	200

RoHS compliance *Gold-plated products display (LF)(SN) A on a label.*
Silver-plated/Tin-plated products display ␣ A on a label.
(␣ shows space.)

MD CONNECTOR(SMT)

Miniature circular connectors

- ***Front shielding construction***
- ***Flange construction***

Specifications

Materials

Part name	Material and Finish
Contact	Copper alloy, nickel-undercoated, Mating part; selective gold-plated Solder tail; tin-plated (reflow treatment)
Housing	PPS, UL94V-0
Front shell	With flange: Steel, nickel-plated Without flange: Brass, nickel-plated
Metal fixture	Copper alloy, copper-undercoated, nickel-plated

Characteristics

Current rating	1.0A, AC, DC
Voltage rating	125V, AC, DC
Temperature range	-40˚C to +85˚C (including temperature rise in applying electrical current)
Contact resistance	Initial value: 20mΩ max. After environmental testing: 30mΩ max.
Insulation resistance	500MΩ min.
Withstanding voltage	500V AC/minute

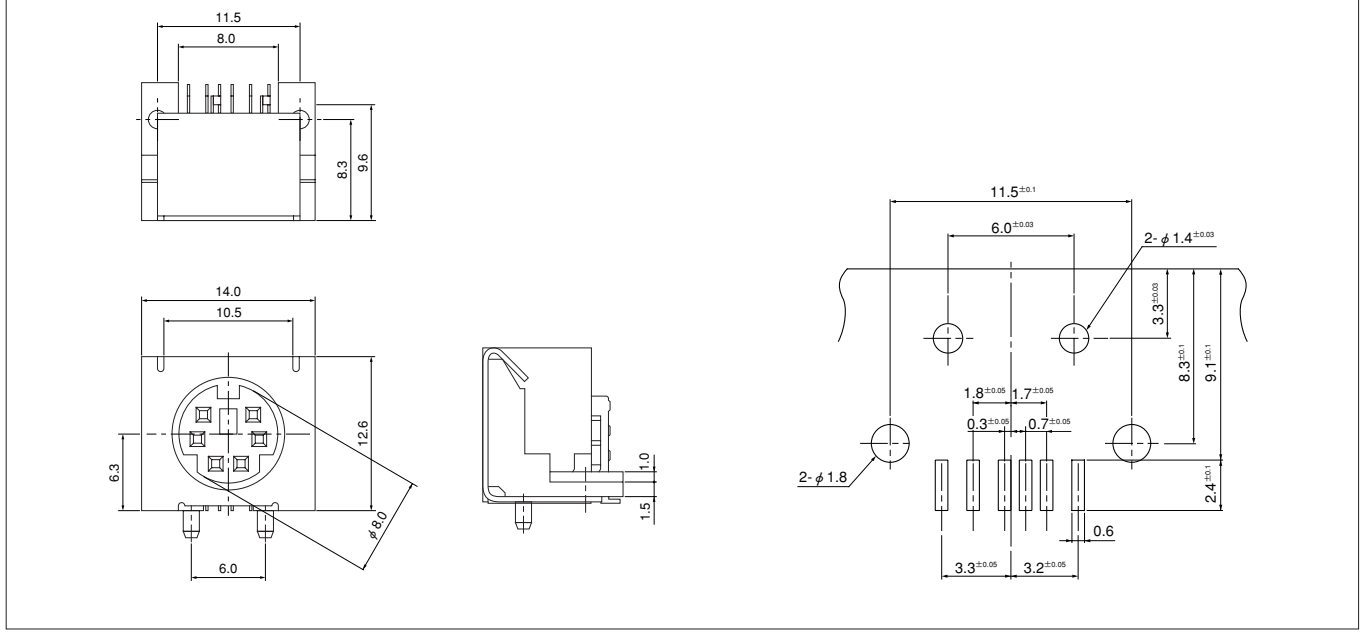
Model number identification

MDS - S 6 3 30 - 11A 19 - 13

- Series name
- Product name: S ... Receptacle
- Circuits: 6
- Shielding cover: 3 ... With front shielding cover
- Flange: 00 ... Without flange
  30 ... With flange
- Finish
  19 ... 0.76micron gold-plated

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

PC board layout (viewed from component side)



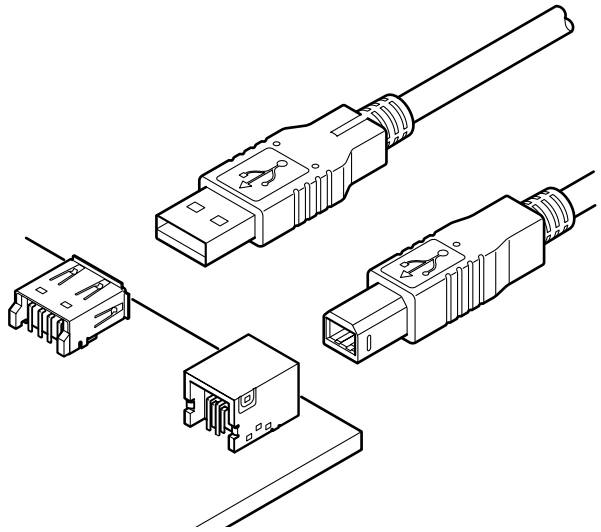
Cir-cuits	Flange	Model No.	Q´ty / box
6	without flange	**MDS-S6300-11A19 -14**	320

RoHS compliance *This product displays (LF)(SN) on a label.*

Note: 1. Tolerances are non-cumulative: ±0.03mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

UB CONNECTOR

USB (Universal Serial Bus) Conforming Connector



- ***Conforms to USB (Universal Serial Bus) standards***
- ***Secure EMI shielding effect***
- ***Distortion preventive device***
- ***SMT configuration***

Specifications

- Current rating: 1.0A AC, DC/ line
- Voltage rating: 30V AC, DC
- Temperature range: -55˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
  After environmental testing/10m Ω max.
  (variation from initial value)
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 750V AC/minute
- Applicable wire (Plug): AWG #20 to #28
  Insulation O.D./1.58 to 0.79mm
- Applicable cable O.D. (Plug): 5.3 to 3.4mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

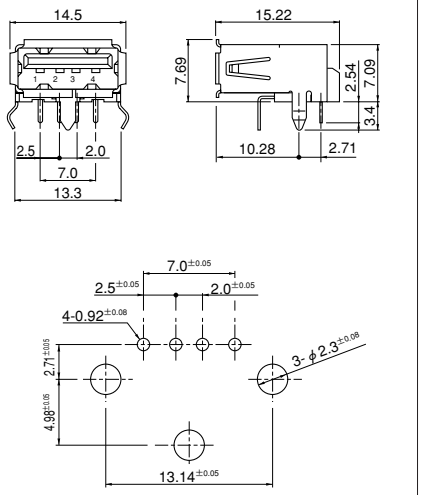
Recognized E60389

Certified LR20812

Receptacle

USB2.0 certified product

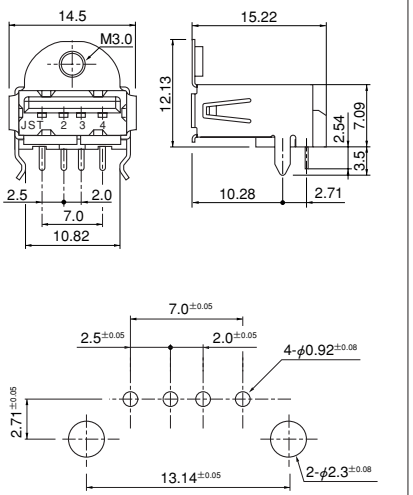
Type A <Through-hole type> Normal



Model No.	Material and Finish		Q'ty / box
UBA-4R-D14T-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated	–
	Housing	Thermoplastic resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	
	Solder tab	Copper alloy, copper-undercoated, tin-plated (reflow treatment)	

RoHS compliance *This product displays (LF)(SN) on a label.*

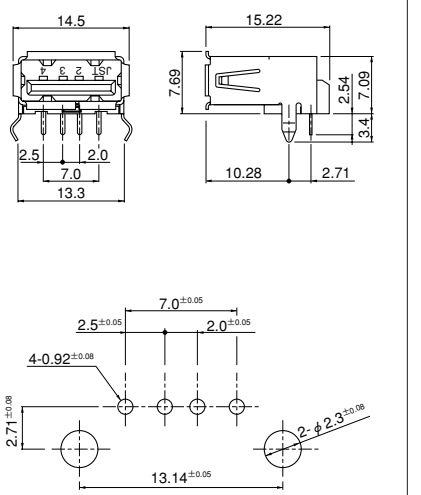
Type A <Through-hole type> With upper flange



Model No.	Material and Finish		Q'ty / box
UBA-4R-D14C2-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated	–
	Housing	Thermoplastic resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

Type A <Through-hole type> Reverse

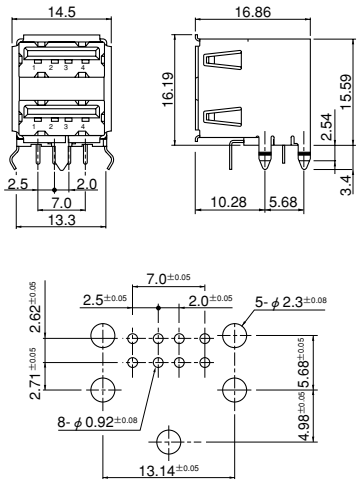


Model No.	Material and Finish		Q'ty / box
UBA-R4R-D14-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated	250
	Housing	Thermoplastic resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

Receptacle

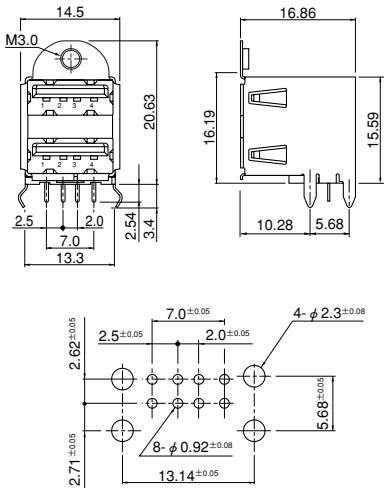
Type A <Through-hole type> Double-stack



Model No.	Material and Finish		Q'ty / box
UBA-4RS-D14T-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated	210
	Housing	Thermoplastic resin, UL94V-0	
	Locater		
	Shell	Copper alloy, nickel-undercoated, tin-plated	
	Solder tab	Copper alloy, copper-undercoated, tin-plated (reflow treatment)	

RoHS compliance *This product displays (LF)(SN) on a label.*

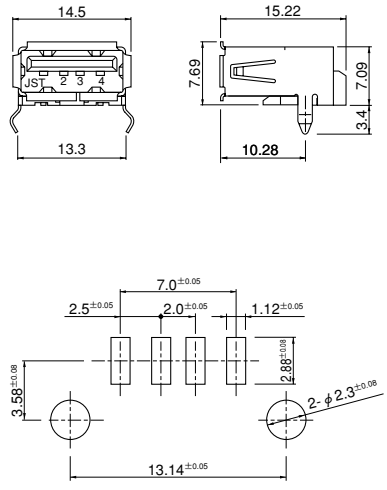
Type A <Through-hole type> Double-stack with upper flange



Model No.	Material and Finish		Q'ty / box
UBA-4RS-D14C-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated	–
	Housing	Thermoplastic resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

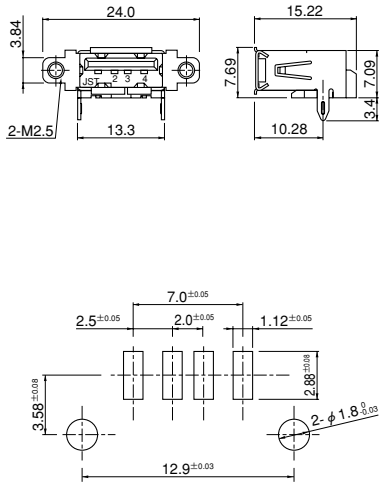
Type A <SMT type> Without flange



Model No.	Material and Finish		Q'ty / box
UBA-4R-S14-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated	250
	Housing	Thermoplastic resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

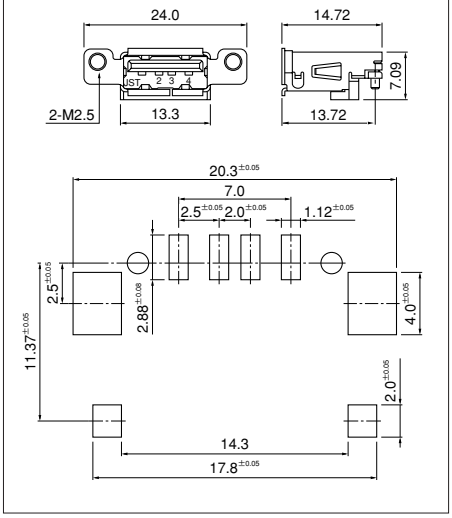
Type A <SMT type> With side flange



Model No.	Material and Finish		Q'ty / box
UBA-4R-S14A-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated	192
	Housing	Thermoplastic resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

Type A <SMT type, off-set 3mm> With side flange



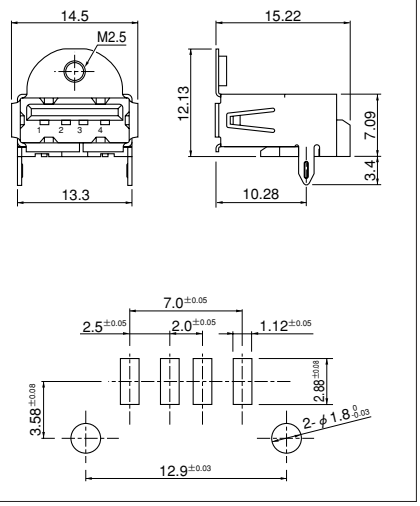
Model No.	Material and Finish		Q'ty / box
UBA-4R-S14B-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated	378
	Housing	Thermoplastic resin , UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

Note: The dimensions above should serve as a guideline. Contact JST for details.

Receptacle

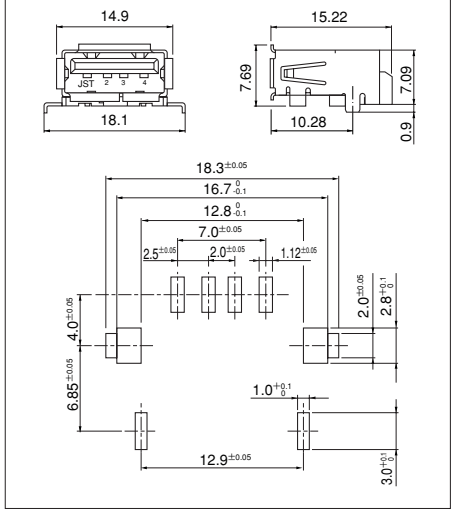
Type A <SMT type> With upper flange



Model No.	Material and Finish		Q'ty / box
UBA-4R-S14C-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated	216
	Housing	Thermoplastic resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

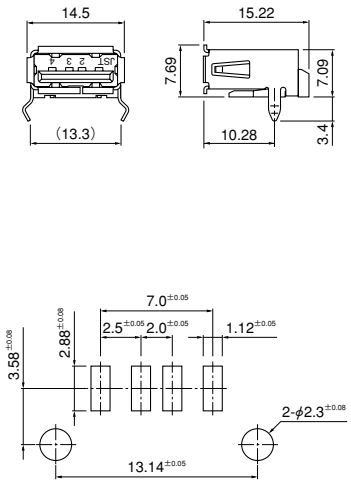
Type A <SMT type> FULL SMT



Model No.	Material and Finish		Q'ty / box
UBA-4R-S14H-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated	–
	Housing / Locater	Thermoplastic resin, UL94V-0	
	Shell / Solder tab	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

Type A <SMT type> Reverse



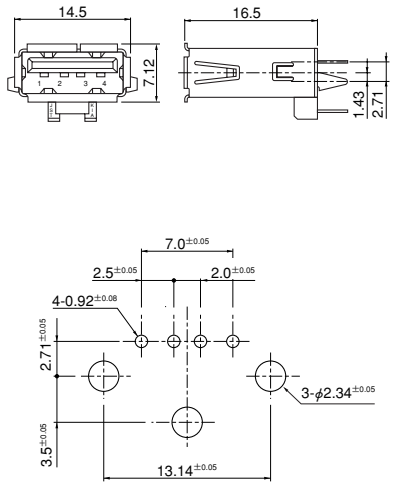
Model No.	Material and Finish		Q'ty / box
UBA-R4R-S14-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated	250
	Housing	Thermoplastic resin , UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

Note: The dimensions above should serve as a guideline. Contact JST for details.

Receptacle

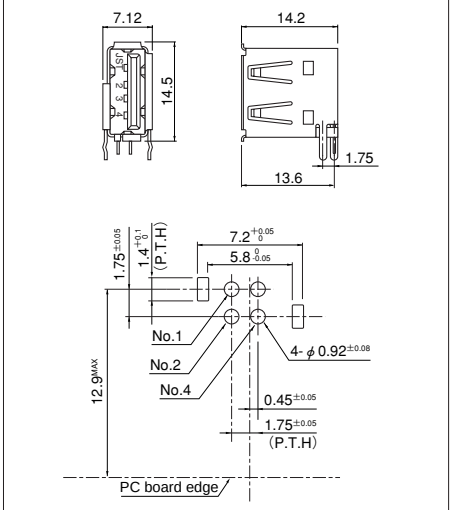
Type A <Through-hole type> Straight, normal



Model No.	Material and Finish		Q'ty / box
UBAS-4R-D14D-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated	250
	Housing	Thermoplastic resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

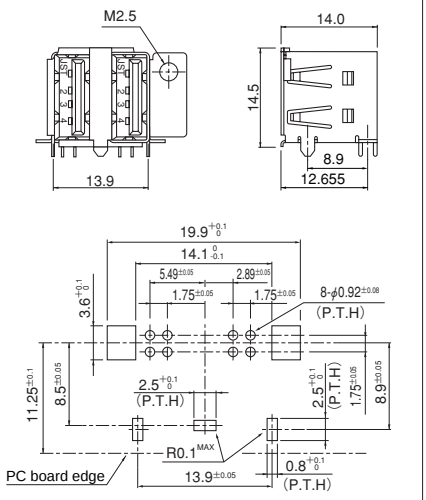
Type A <Through-hole type> Vertical, normal



Model No.	Material and Finish		Q'ty / box
UBAL-4R-D14-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated	350
	Housing	Thermoplastic resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

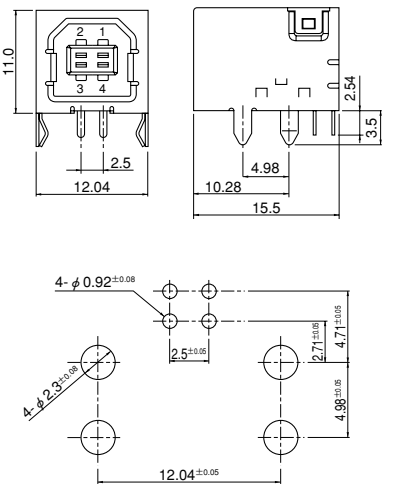
Type A <SMT/Through-hole type> Vertical, dual-row



Model No.	Material and Finish		Q'ty / box
UBAL-4RS-D14K-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated	105
	Housing	Thermoplastic resin , UL94V-0	
	Shell A	Copper alloy, nickel-undercoated, tin-plated	
	Shell B	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

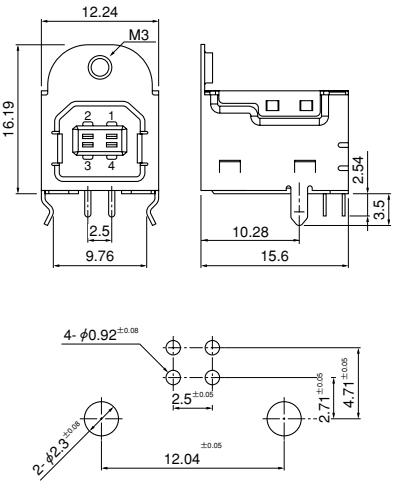
Type B <Through-hole type> Normal



Model No.	Material and Finish		Q'ty / box
UBB-4R-D14T-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated	270
	Housing	Thermoplastic resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

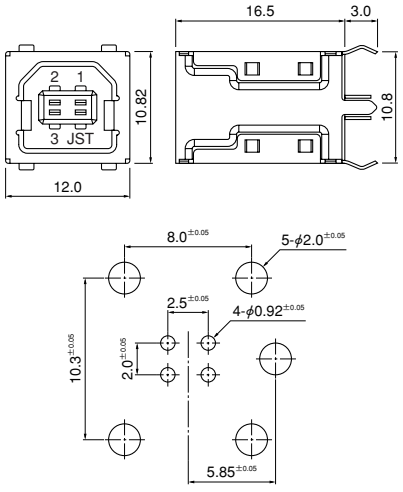
Type B <Through-hole type> With upper flange



Model No.	Material and Finish		Q'ty / box
UBB-4R-D14C-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated	270
	Housing	Thermoplastic resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

Type B <Through-hole type> Straight



Model No.	Material and Finish		Q'ty / box
UBBS-4R-D14-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated	600
	Housing	Thermoplastic resin , UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

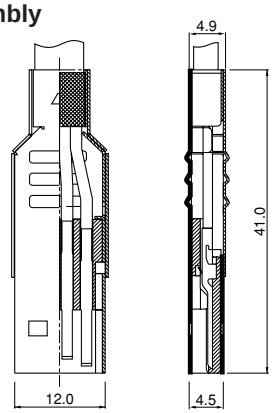
RoHS compliance *This product displays (LF)(SN) on a label.*

Note: The dimensions above should serve as a guideline. Contact JST for details.

Plug type A

USB2.0 certified product

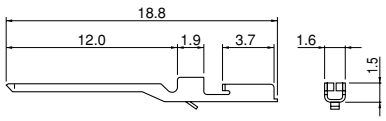
Assembly



Model No.
UBA-P*14

Note: Not CSA certified.

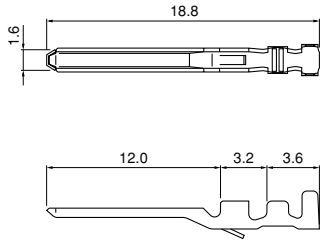
Contact (Solder pot type)



Model No.	Material and Finish	Q'ty / reel
UBB-DP214	Copper alloy, nickel-undercoated, selective gold-plated	12,000

RoHS compliance *This product displays (LF)(SN) on a label.*

Contact (Crimp type)

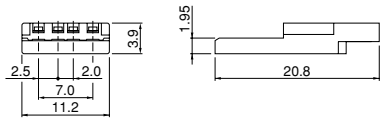


Model No.	Applicable wire		Q'ty / reel
	AWG#	Insulation O.D. (mm)	
UBB-SP1114	24～20	1.03～1.58	10,000
UBB-SP2114	28～24	0.79～1.17	12,000

Material and Finish
Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF)(SN) on a label.*

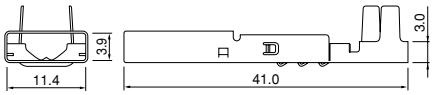
Housing



Model No.	Material	Q'ty / bag
UBA-PH4-1	Glass-filled PBT, UL94V-0	500

RoHS compliance

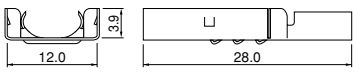
Shielding cover A



Model No.	Material and Finish	Q'ty / box
UBA-SC4A	Mild steel, nickel-undercoated, tin-plated	400

RoHS compliance *This product displays (LF) on a label.*

Shielding cover B

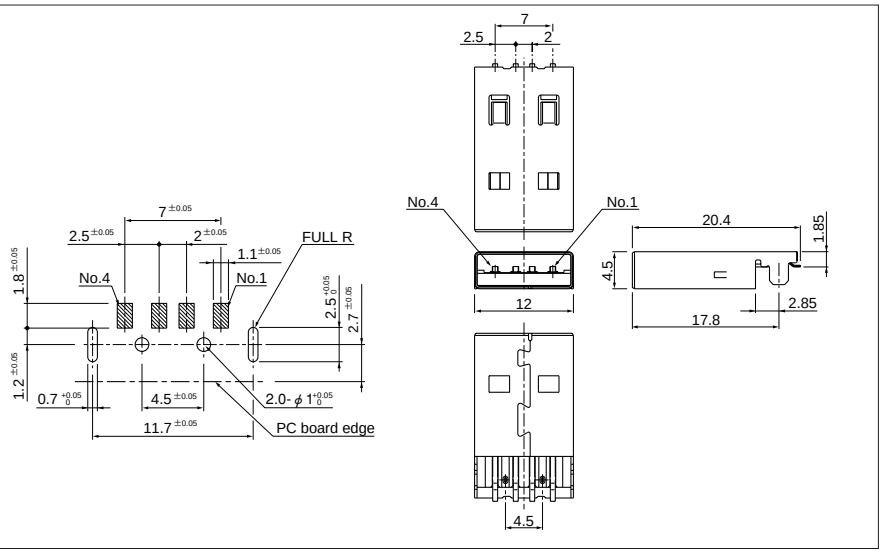


Model No.	Material and Finish	Q'ty / box
UBA-SC4B	Mild steel, nickel-undercoated, tin-plated	1,000

RoHS compliance *This product displays (LF) on a label.*

Note: USB2.0 certification for UB connector harness is needed separately.

Plug type A SMT type



Model No.		Material and Finish	Q'ty / box
UBA-4P-S14C	Contact	Copper alloy, nickel-undercoated, selective gold-plated	5,580
	Housing	Thermoplastic resin , UL94V-0	
	Shell	Copper alloy, nickel-undercoated, palladium-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

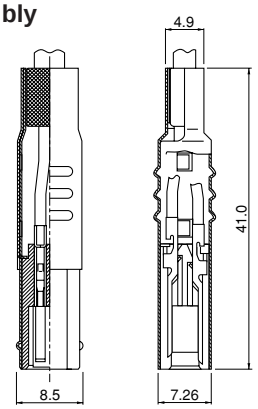
Note: 1. Not UL/CSA approved.

2.The dimensions left should serve as a guideline. Contact JST for details.

Plug type B

USB2.0 certified product

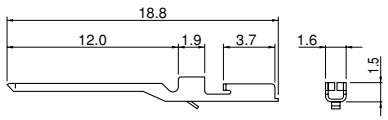
Assembly



Model No.
UBB-P*14

Note: Not CSA certified.

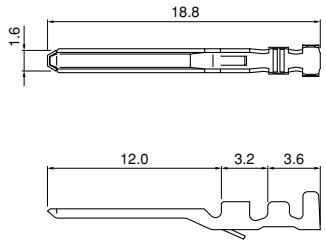
Contact (Solder pot type)



Model No.	Material and Finish	Q'ty / reel
UBB-DP214	Copper alloy, nickel-undercoated, selective gold-plated	12,000

RoHS compliance *This product displays (LF)(SN) on a label.*

Contact (Crimp type)

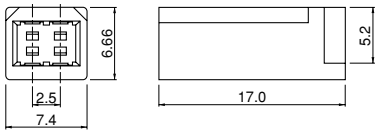


Model No.	Applicable wire		Q'ty / reel
	AWG#	Insulation O.D. (mm)	
UBB-SP1114	24～20	1.03～1.58	10,000
UBB-SP2114	28～24	0.79～1.17	12,000

Material and Finish
Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF)(SN) on a label.*

Housing

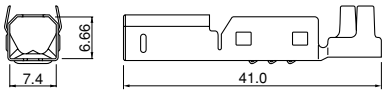


Model No.	Material	Q'ty / bag
UBB-PH4-1	Glass-filled PBT, UL94V-0	500

RoHS compliance

Note: Contact JST for USB2.0 standards.

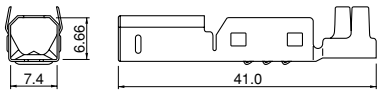
Shielding cover A



Model No.	Material and Finish	Q'ty / box
UBB-SC4A	Mild steel, nickel-undercoated, tin-plated	500

RoHS compliance *This product displays (LF) on a label.*

Shielding cover B

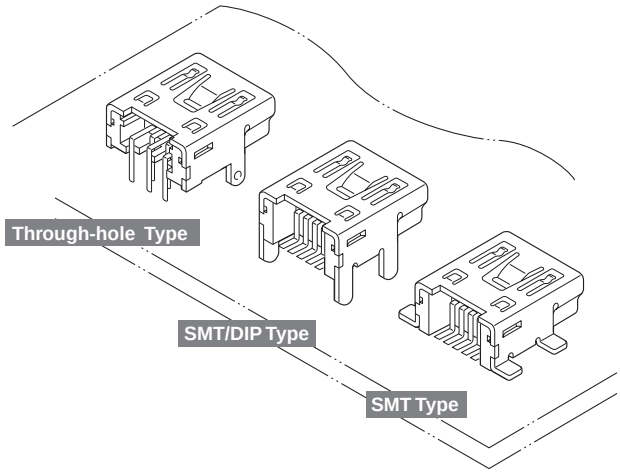


Model No.	Material and Finish	Q'ty / box
UBB-SC4B	Mild steel, nickel-undercoated, tin-plated	1,000

RoHS compliance *This product displays (LF) on a label.*

UB CONNECTOR mini-B Type

USB (Universal Serial Bus) Conforming Connector



The USB 2.0 certified receptacle is quite suitable for the interface of the small and miniaturized PC-peripheral products as Digital Cameras and MP3 Players.

- ***Space saving design***
- ***Shielding and higher reliability of connection***
- ***Excellent insertion and withdrawal forces***
- ***Variations***

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -55˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
  After environmental testing/50m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 100V AC/minute
- Applicable wire: Mating with USB 2.0 certified mini-B plug
- Applicable PC board thickness: Through-hole/1.0mm
  SMT, SMT-through-hole/
  1.0 to 1.2mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

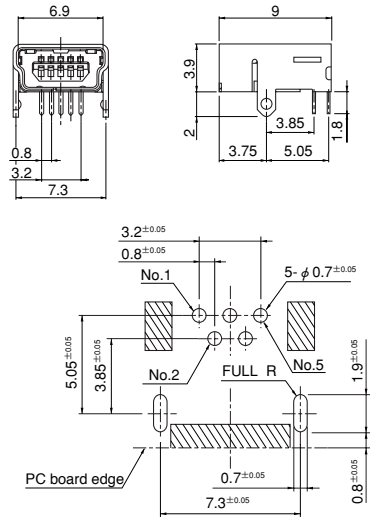
Standards

Recognized E60389

Receptacle

USB 2.0 certified product

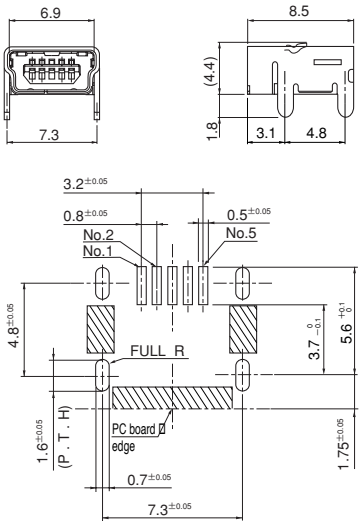
Through-hole/Through-hole



Model No.	Material and Finish		Q'ty/box
UB-M5BR-DM14-4D	Contact	Copper alloy, nickel-undercoated, selective gold-plated	400
	Housing	Thermoplastic resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

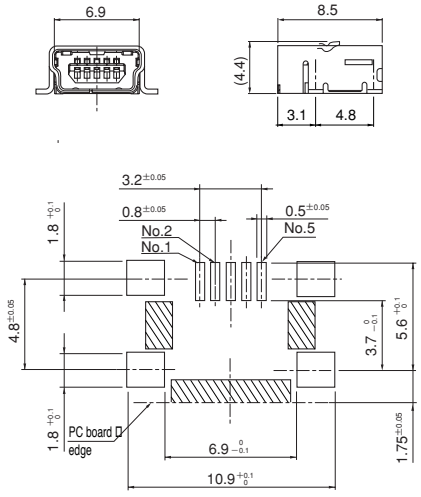
Through-hole/SMT



Model No.	Material and Finish		Q'ty/box
UB-M5BR-S14-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated	840
	Housing	Heat resisting resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

SMT/SMT

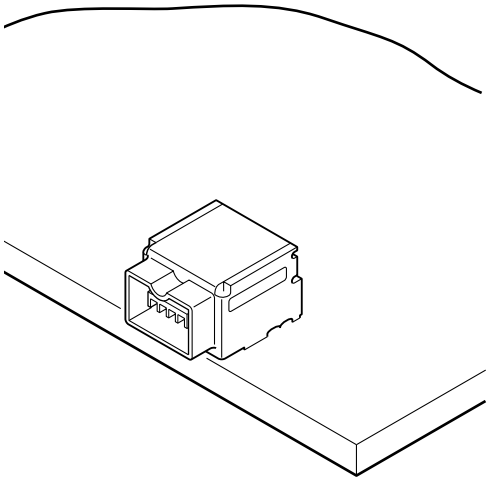


Model No.	Material and Finish		Q'ty/box
UB-M5BR-G14-4S	Contact	Copper alloy, nickel-undercoated, selective gold-plated	840
	Housing	Heat resisting resin, UL94V-0	
	Shell	Copper alloy, nickel-undercoated, tin-plated	

RoHS compliance *This product displays (LF)(SN) on a label.*

RV CONNECTOR

High-speed serial interface connectors



Conforming to the IEEE 1394 standards (4P), the RV connector is a high-speed serial interface connector designed for use in PCs and consumer electronic equipment.

- ***A variety of receptacles are available***
- ***Compact***

Specifications

- Current rating: 0.3A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -40˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/50m Ω max.
  After environmental testing/30m Ω max.
  (variation from initial value)
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 100V AC/minute
- Applicable PC board thickness: 0.8 to 1.6mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

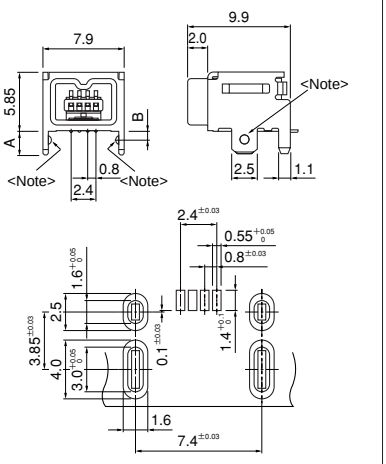
Standards

Recognized E60389

Certified LR20812

Receptacle

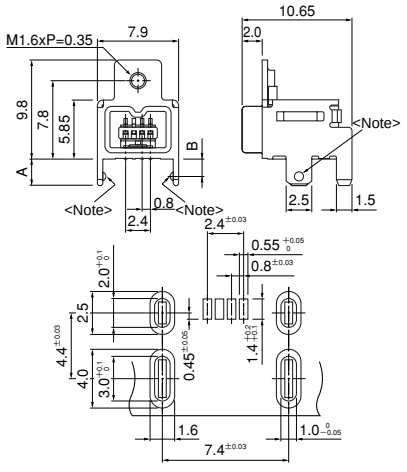
Normal <SMT type>



Model No.	Material and Finish	
Supplied on embossed tape **RV-SS4G-N-BM-TB** Supplied in tray **RV-SS4G-N-B( )**	Housing	PPS, UL94V-0
	Contact	Copper alloy, overall nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated(reflow treatment)
	Shell cover	Copper alloy, copper-undercoated, nickel-plated
	Shell	Mild steel, nickel-undercoated, tin-plated

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Embossed-taping products have no dimple.

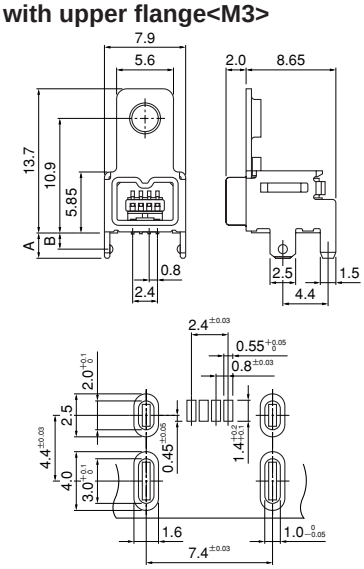
Normal <SMT type> with upper flange<M1.6>



Model No.	Material and Finish	
Supplied on embossed tape **RV-SS4G-F16N-C-TB** Supplied in tray **RV-SS4G-F16N-C( )**	Housing	PPS, UL94V-0
	Contact	Copper alloy, overall nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated(reflow treatment)
	Shell cover	Copper alloy, copper-undercoated, nickel-plated
	Shell	Mild steel,copper-undercoated, nickel-undercoated, tin/nickel alloy-plated

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Embossed-taping products have no dimple.

Normal <SMT type> with upper flange<M3>



Model No.	Material and Finish	
RV-SS4G-F30N-E ( )	Housing	PPS, UL94V-0
	Contact	Copper alloy, overall nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated(reflow treatment)
	Shell cover	Copper alloy, copper-undercoated, nickel-plated
	Shell	Mild steel,copper-undercoated, nickel-undercoated, tin/nickel alloy-plated

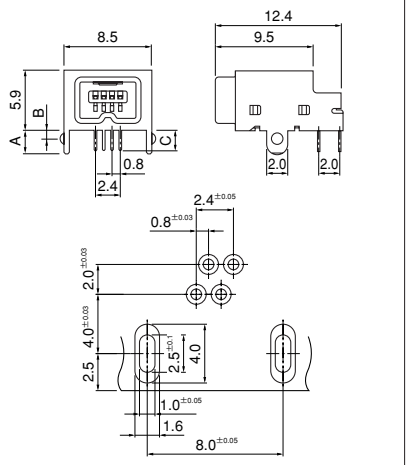
RoHS compliance *This product displays (LF)(SN) on a label.*

Type	Applicable PC board thickness (mm)	Dimensions (mm) A	Dimensions (mm) B
Normal type	0.8	2.15	0.8
	1.6	2.45	1.6

Note: 1. Receptacles are not UL/CSA approved.
2. Model No. : ( ) denotes the applicable PC board thickness.
08 … For 0.8mm thick PC board
16 … For 1.6mm thick PC board

Receptacle

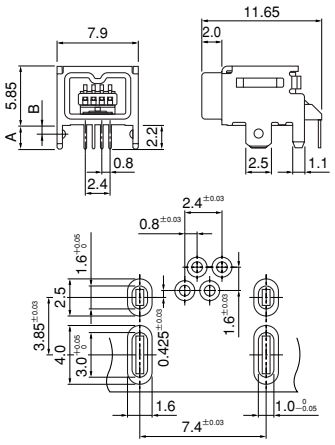
Reverse <Through-hole type>



Model No.	Material and Finish	
RV-SS4D-R-A( )	Housing	PBT, UL94V-0
	Contact	Copper alloy, overall nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated(reflow treatment)
	Shell cover	Copper alloy, copper-undercoated, nickel-plated
	Shell	Mild steel, nickel-undercoated, tin/copper alloy-plated

RoHS compliance *This product displays (LF)(SN) on a label.*

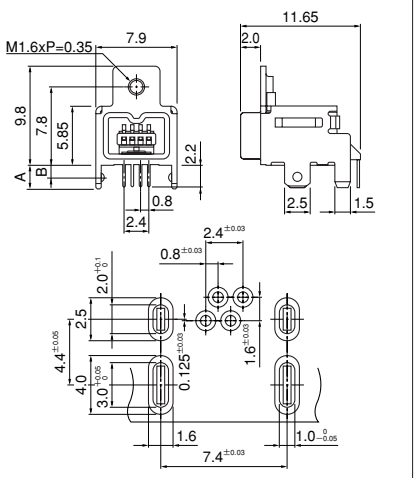
Normal <Through-hole type>



Model No.	Material and Finish	
RV-SS4D-N-B( )	Housing	PPS, UL94V-0
	Contact	Copper alloy, overall nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated(reflow treatment)
	Shell cover	Copper alloy, copper-undercoated, nickel-plated
	Shell	Mild steel, nickel-undercoated, tin/copper alloy-plated

RoHS compliance *This product displays (LF)(SN) on a label.*

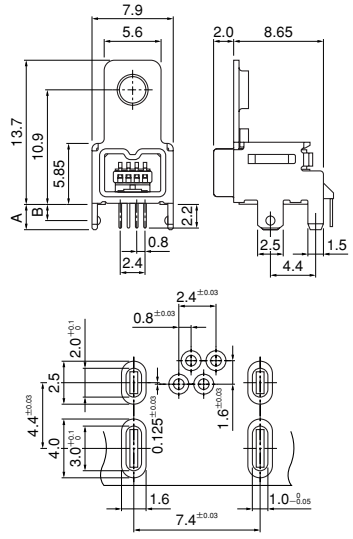
Normal <Through-hole type> with upper flange<M1.6>



Model No.	Material and Finish	
RV-SS4D-F16N-C( )	Housing	PPS, UL94V-0
	Contact	Copper alloy, overall nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated(reflow treatment)
	Shell cover	Copper alloy, copper-undercoated, nickel-plated
	Shell	Mild steel, nickel-undercoated, tin/copper alloy-plated

RoHS compliance *This product displays (LF)(SN) on a label.*

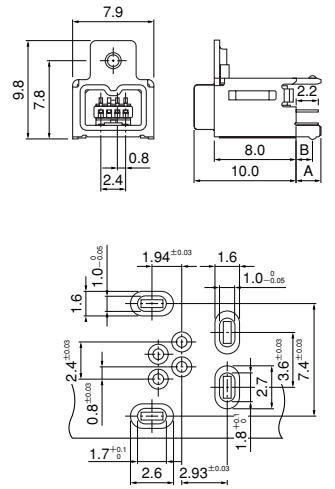
Normal <Through-hole type> with upper flange<M3>



Model No.	Material and Finish	
RV-SS4D-F30N-E( )	Housing	PPS, UL94V-0
	Contact	Copper alloy, overall nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated(reflow treatment)
	Shell cover	Copper alloy, copper-undercoated, nickel-plated
	Shell	Mild steel, nickel-undercoated, tin/copper alloy-plated

RoHS compliance *This product displays (LF)(SN) on a label.*

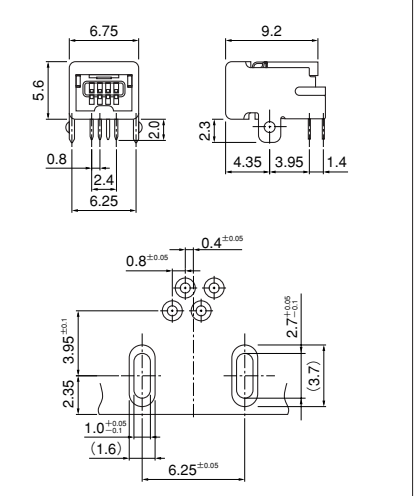
Top entry <Through-hole type> with flange<M1.6>



Model No.	Material and Finish	
RV-ST4D-F16N-D( )	Housing	PPS, UL94V-0
	Contact	Copper alloy, overall nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated(reflow treatment)
	Shell cover	Copper alloy, copper-undercoated, nickel-plated
	Shell	Mild steel, nickel-undercoated, tin/copper alloy-plated

RoHS compliance *This product displays (LF)(SN) on a label.*

Reverse <Through-hole type> Small type

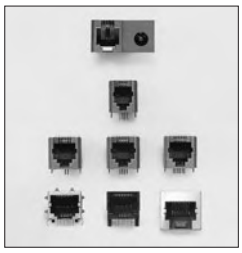


Model No.	Material and Finish	
RV-SS4D-RS-H08-1	Housing	PA9T
	Contact	Copper alloy, overall nickel-undercoated, Mating part; gold-plated Solder tail; tin-plated
	Shell cover	Copper alloy, nickel-undercoated,tin-plated
	Shell	Copper alloy, tin-plated(reflow treatment)

RoHS compliance *This product displays (LF) on a label.*

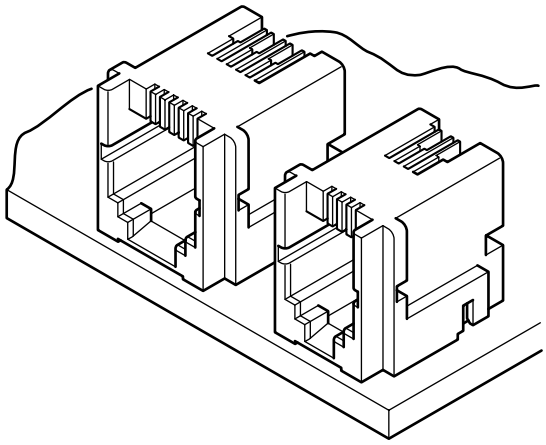
Type	Applicable PC board thickness (mm)	Dimensions (mm) A	B	C
Normal type	0.8	2.15	0.8	–
	1.6	2.45	1.6	–
Reverse type	0.8	2.3	0.8	2.0
	1.6	3.1	1.6	2.8

Note: 1. Receptacles are not UL/CSA approved.
2. Model No. : ( ) denotes the applicable PC board thickness.
08 … For 0.8mm thick PC board
16 … For 1.6mm thick PC board



MJ CONNECTOR

Modular jack connectors



- ***Upper contact point***
- ***Metal hook***
- ***Shielding effect***
- ***Grounding***
- ***Correspond to high-speed LAN transmission (MJ-88U-SD315K-T)***

Specifications

- Current rating: 1.3A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -40˚C to +80˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
  After environmental testing/40m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

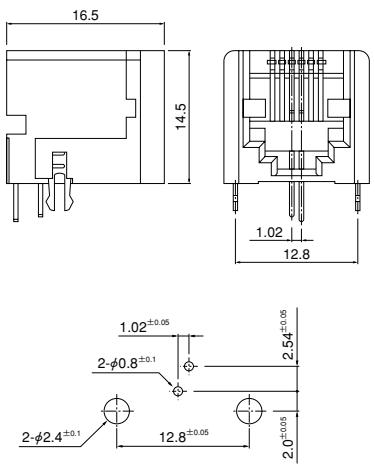
Standards

Recognized E174260

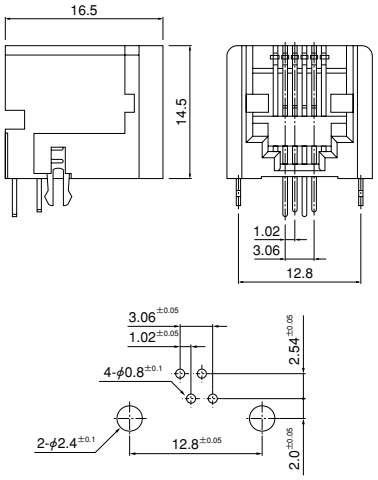
Certified LR20812
Conforms to FCC Standards
(6 circuits and 8 circuits MJ connector)

Connector

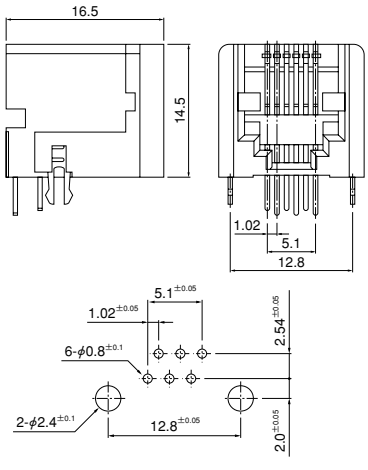
Normal type
2/6 type



4/6 type



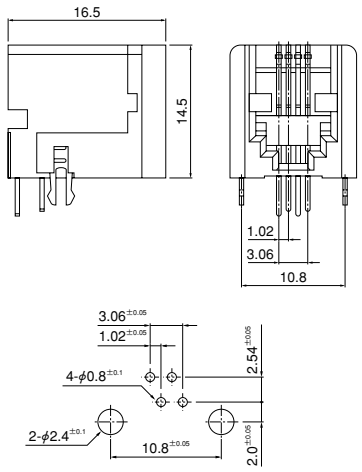
6/6 type



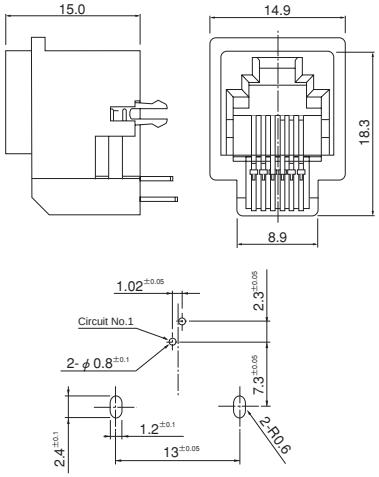
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Connector and PC board layout (viewed from component side)

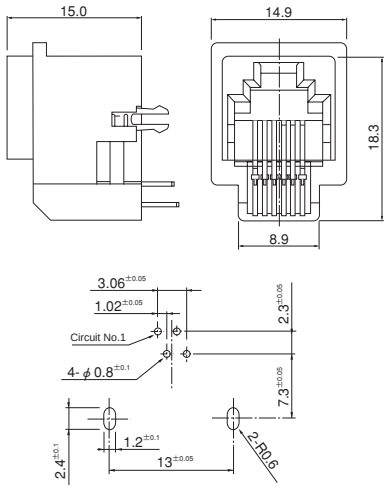
Normal type
4/4 type



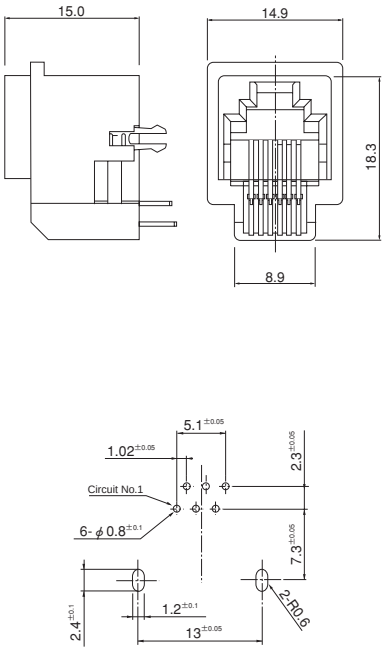
Straight type
2/6 type



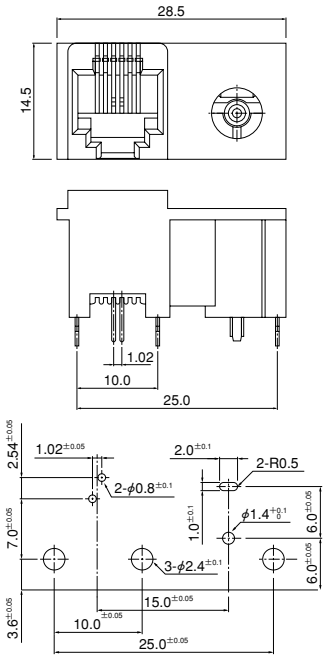
4/6 type



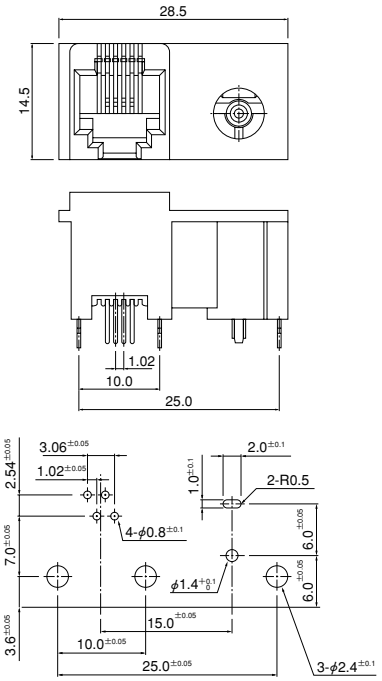
6/6 type



2/6 type with DC jack



4/6 type with DC jack



Type		Circuits	Model No.	Q'ty / box
Normal type	2/6	2	**MJ-62J-RD315**	270
	4/6	4	**MJ-64J-RD315**	270
	6/6	6	**MJ-66J-RD315**	270
	4/4	4	**MJ-44J-RD315**	306
Straight type	2/6	2	**MJ-62C-SD335**	180
	4/6	4	**MJ-64C-SD335**	180
	6/6	6	**MJ-66C-SD335**	180
	2/6 with DC jack	2	**MJ-62D-SD335**	108
	4/6 with DC jack	4	**MJ-64D-SD335**	108

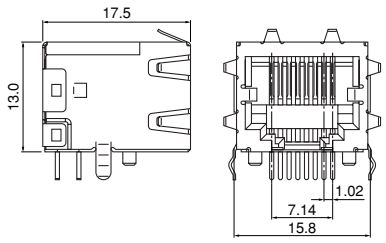
RoHS compliance *This product displays (LF)(SN) on a label.*
The product with DC jack displays (LF) on a label.

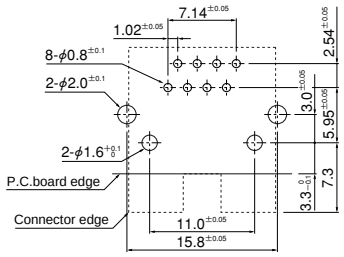
Material and Finish
Contact: Normal type/ Phosphor bronze, nickel-undercoated, Mating part; gold-plated 1.27μm min. Solder tail; tin-plated (reflow treatment) Straight type/ Phosphor bronze, nickel-undercoated, Mating part; gold-plated 1.27μm min. Overall; gold-plated (flash) Housing: Glass-filled PBT, UL94V-0 Hook pin: Brass, tin-plated (reflow treatment) Moving contact (spring): Copper alloy, tin-plated (reflow treatment) [with-DC-jack type only] Stationary contact (pin): Brass, nickel-undercoated, tin/copper alloy-plated [with-DC-jack type only]

Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

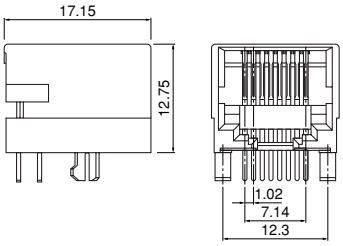
Connector and PC board layout (viewed from component side)

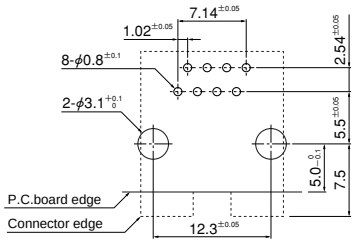
8 circuits
Normal type (with shielding)



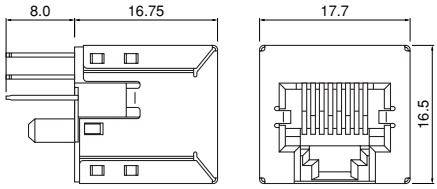


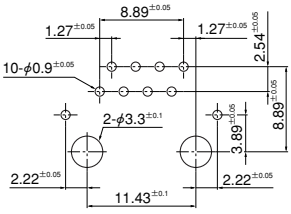
8 circuits
Normal type (with plastic hook)





8 circuits
Straight type (with shielding)





Type	Circuits	Model No.	Q'ty / box
Normal type (with shielding)	8	**MJ-88H-RD315K**	520
Normal type (with plastic hook)	8	**MJ-88R-RD315K**	520
Straight type (with shielding)	8	**MJ-88U-SD315K-T**	144

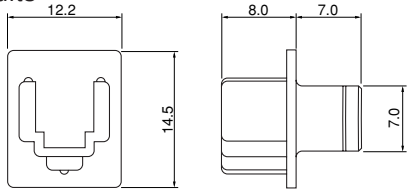
Material and Finish
Contact: Phosphor bronze, nickel-undercoated, Mating part; gold-plated 1.27μm min. Solder tail; tin-plated (reflow treatment) Housing: Glass-filled PBT, UL94V-0(Normal type) Glass-filled LCP, UL94V-0(Straight type) Shield cover: Phosphor bronze, tin-plated (reflow treatment) [Normal type,Straight type] Shield pin: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) [Straight type]

RoHS compliance *This product displays (LF)(SN) on a label.*

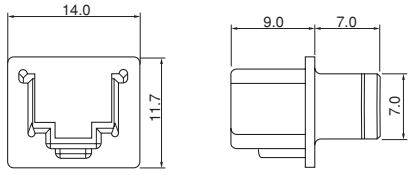
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method.
The dimensions above should serve as a guideline. Contact JST for details.

Cap for dust

6 circuits



8 circuits



Circuits	Model No.	Q'ty / box
6	**MJ-JP56K**	500
8	**MJ-JP68K**	1,000

Material
MJ-JP56K: PA 66, UL94V-0 MJ-JP68K: PBT, UL94V-0

RoHS compliance
Note: Not UL/CSA approved.

3

Wire to Wire Connectors

TABLE OF CONTENTS

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	HM CONNECTOR	342
	XA CONNECTOR	345
	XAD CONNECTOR	348
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• 3.96mm pitch	HL CONNECTOR	353
	SL CONNECTOR	356
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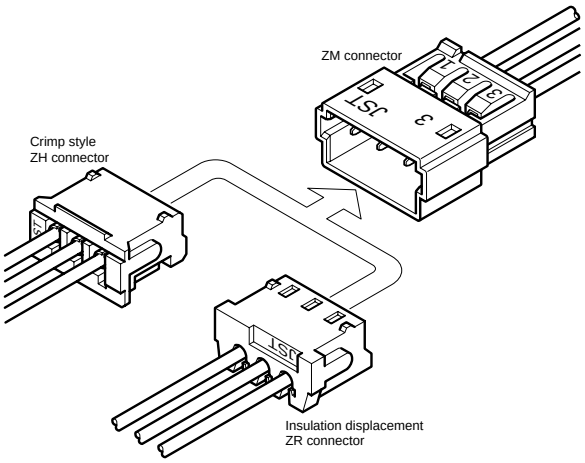
	RWZ CONNECTOR	392
	OTZ CONNECTOR	398
• 2.7mm pitch	RPJ CONNECTOR	402

ZM CONNECTOR

1.5mm pitch/Crimp style Wire-to-wire connectors Matable with ZH and ZR receptacles



1.5mm pitch connectors allow higher densities.

- **Compact design**
- **Housing-to-terminal locks**
- **Both crimp style and insulation displacement receptacles can be used**
- **Fully shrouded header resists "rocking" during mating**

Specifications

- Current rating: 0.7A AC, DC max. (AWG #28)
- Voltage rating: 50V AC, DC max. (See Note below.)
- Temperature range: -25˚C to +85˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max. After environmental testing/30m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable wire: AWG #30 to #28

Note: Contacts are exposed at the housing lances. Care should be taken so that these parts do not touch the metal section of the chasis.

* RoHS compliant products are published.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

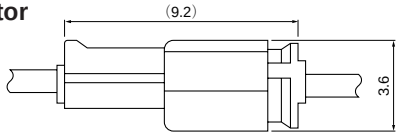
Standards

Recognized E60389

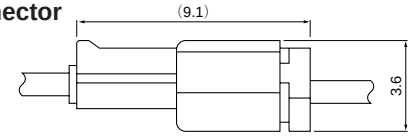
Certified LR20812

Assembly layout

ZM/ZH connector

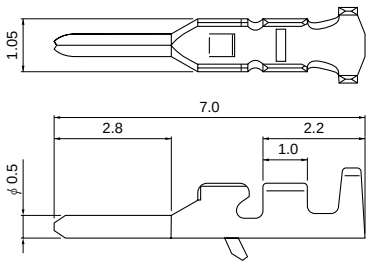


ZM/ZR connector



Plug / ZM connector

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q´ty / reel
	mm²	AWG #		
SMM-003T-P0.5	0.05 ～ 0.08	30 ～ 28	0.7 ～ 0.9	16,000

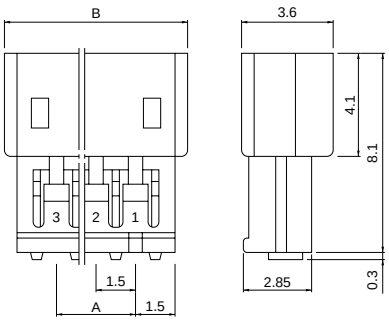
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SMM-003T-P0.5	AP-K2N	MKS-LS・MKS-L	MK/SMM-003-05	APLMK SMM003-05
		*MKS-SC	SC/SMM-003-05	APLSC SMM003-05

*Note: *Strip-crimp applicator*

Housing



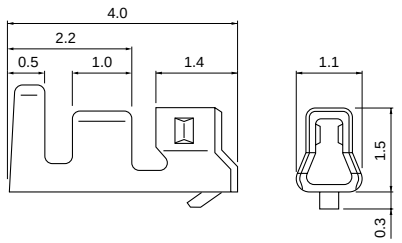
Circuits	Model No.	Dimensions (mm)		Q´ty / bag
		A	B	
2	**ZMR-02**	1.5	5.5	2,000
3	**ZMR-03**	3.0	7.0	2,000
9	**ZMR-09**	12.0	16.0	1,000
13	**ZMR-13**	18.0	22.0	1,000

Material
Glass-filled PA 66, UL94V-0

RoHS compliance

Receptacle / ZH connector (Crimp style)

Contact



Model No.	Dimensions (mm)		Insulation (mm)	Q´ty / reel
	mm²	AWG #		
SZH-003T-P0.5	0.032 ~ 0.08	32 ~ 28	0.5 ~ 0.9	16,000

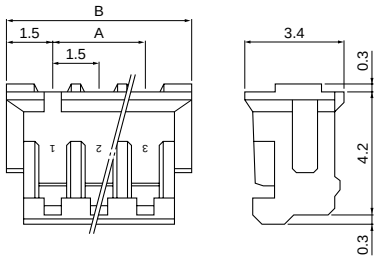
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZH-003T-P0.5	AP-K2N	MKS-L	MK/SZH-003-05	APLMK SZH003-05
		*MKS-SC	SC/SZH-003-05	APLSC SZH003-05

*Note: *Strip-crimp applicator*

Housing



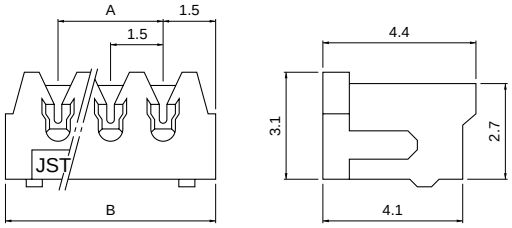
Circuits	Model No.	Dimensions (mm)		Q´ty / bag
		A	B	
2	**ZHR-2**	1.5	4.5	1,000
3	**ZHR-3**	3.0	6.0	1,000
9	**ZHR-9**	12.0	15.0	1,000
13	**ZHR-13**	18.0	21.0	1,000

Material
PA 66, UL94V-0

RoHS compliance

Receptacle / ZR connector (IDC)

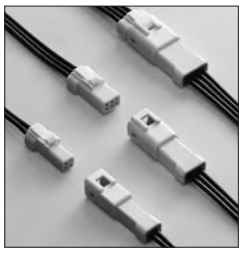
Receptacle



Circuits	Model No.		Dimensions (mm)		Q´ty / bag
	AWG #30	AWG #28	A	B	
2	**02ZR-3H-P**	**02ZR-8M-P**	1.5	4.5	2,000
3	**03ZR-3H-P**	**03ZR-8M-P**	3.0	6.0	2,000
9	**09ZR-3H-P**	**09ZR-8M-P**	12.0	15.0	2,000
13	**13ZR-3H-P**	**13ZR-8M-P**	18.0	21.0	2,000

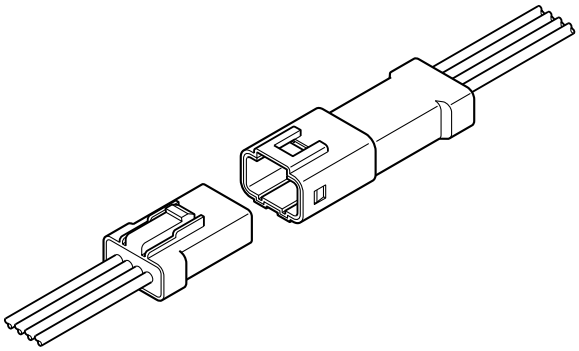
Material
Contact: Phosphor bronze, tin-plated (reflow treatment) Housing: Glass-filled PA 66, UL94V-0

RoHS compliance



JWPF CONNECTOR

2.0mm pitch/Crimp style wire-to-wire connectors



Applicable for waterproof usage. This is the wire-to-wire connector that is more than grade 7 ingress protection of JIS C 0920 (IEC 60529 IPX7).

- ***Waterproof grade***
- ***Contained seal ring***
- ***Solid rubber seal***
- ***Double-spring construction***
- ***Housing-to-terminal locks***
- ***Inner-housing lock***

Specifications

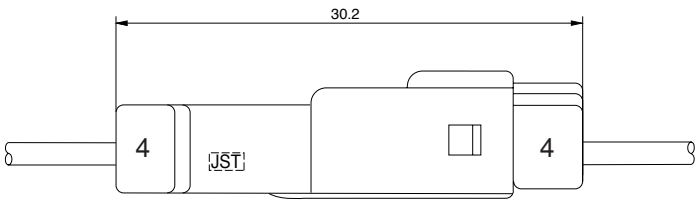
- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -40˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/5m Ω max.
  After environmental testing/10m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #26 to #22
  0.13 to 0.33mm^2
  Insulation O.D./1.4 to 1.6mm
- Waterproof grade: More than grade 7 ingress protection of JIS C 0920(IEC 60529 IPX7)

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

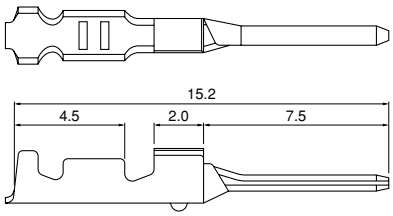
Recognized E60389

Assembly layout

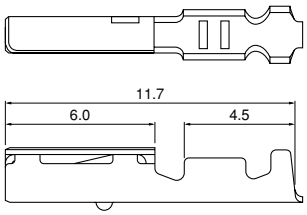


Contact

Tab contact



Receptacle contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
Tab contact	Receptacle contact	mm²	AWG #		
SWPT-001T-P025	**SWPR-001T-P025**	0.13 ～ 0.33	26 ～ 22	1.4 ～ 1.6	8,200

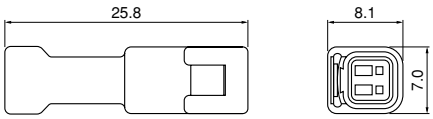
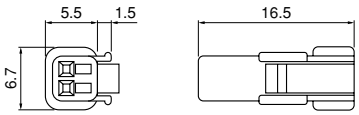
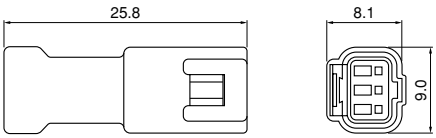
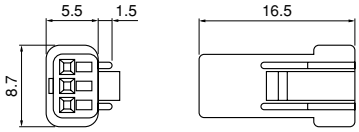
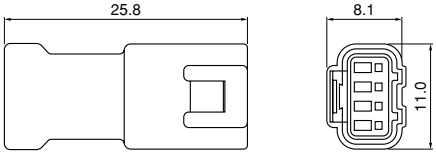
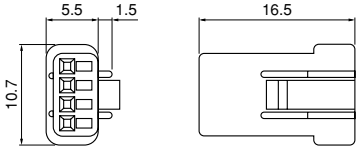
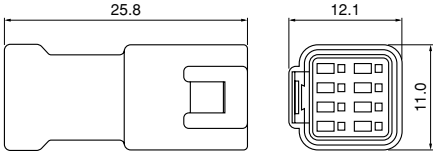
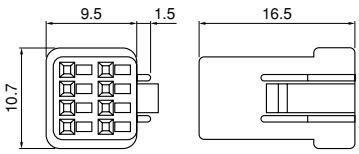
Material and Finish
Tab contact: Phosphor bronze, tin-plated (reflow treatment) Receptacle contact: Copper alloy, tin-plated (reflow treatment)

RoHS compliance
Note: Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPT-001T-P025	AP-K2N	MKS-L	MK/SWPR/T-001-025	APLMK SWPR/T001-025
SWPR-001T-P025		—	—	—

Housing

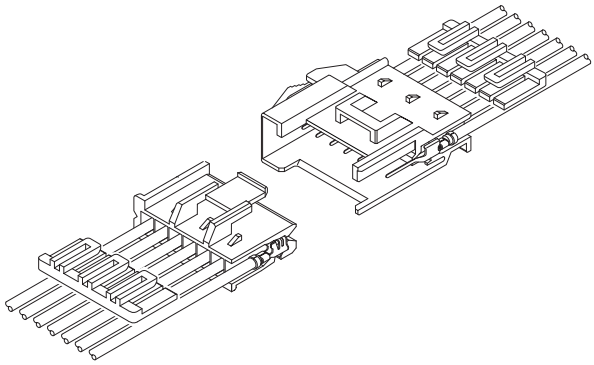
Material: PBT, UL94V-0, natural (white)

Circuits	Tab housing (for Tab contact)	Q'ty/ bag	Receptacle housing (for Receptacle contact)	Q'ty/ bag
2	**02T-JWPF-VSLE-S** 	1,000	**02R-JWPF-VSLE-S** 	1,000
3	**03T-JWPF-VSLE-S** 	1,000	**03R-JWPF-VSLE-S** 	1,000
4	**04T-JWPF-VSLE-S** 	1,000	**04R-JWPF-VSLE-S** 	1,000
8	**08T-JWPF-VSLE-D** 	1,000	**08R-JWPF-VSLE-D** 	1,000

RoHS compliance
Note: 1. Receptacle housing comes with seal rubber plate.
2. Tab housing comes with seal rubber plate, seal ring and seal ring holder.

XM CONNECTOR

2.5mm pitch/Crimp style wire-to-wire connectors



The retainer provides added protection against non-insertion or disconnection.

- ***Inner-housing lock***
- ***Secondary retainers***
- ***Housing lance***
- ***Mountable on a variety of panels***
- ***Contacts smoothly insert into the housings without colliding with internal obstacles***

Specifications

- Current rating: 3A AC, DC max.
- Voltage rating: 250V AC, DC max.
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20
  0.08 to 0.50mm^2
- Applicable panel thickness: 0.5 to 1.8mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

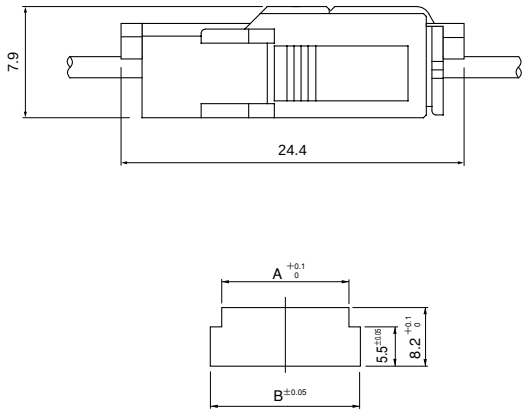
Standards

Recognized E60389

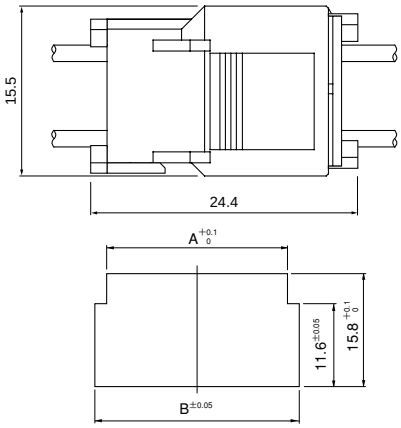
Certified LR20812

Panel Layout and Assembly layout

(2 to 12 circuits)



(18 circuits)

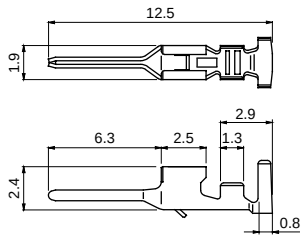


Circuits	Receptacle housing	Panel hole dimensions (mm) General tolerance		Applicable panel thickness (mm)
		$A^{+0.1}_{0}$	$B^{\pm 0.05}$	
2	**XMR-02V**	9.3	12.6	0.5 ～ 1.8
3	**XMR-03V**	10.3	13.6	
4	**XMR-04V**	12.8	16.1	
5	**XMR-05V**	15.3	18.6	
6	**XMR-06V**	17.8	21.1	
7	**XMR-07V**	20.3	23.6	
8	**XMR-08V**	22.8	26.1	
9	**XMR-09V**	25.3	28.6	
10	**XMR-10V**	27.8	31.1	
11	**XMR-11V**	30.3	33.6	
12	**XMR-12V**	32.8	36.1	
18	**XMR-18V**	25.3	28.6	

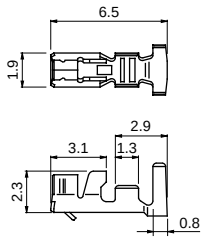
Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q´ty / reel	
Pin contact	Socket contact	mm²	AWG #		Pin contact	Socket contact
SXM-001T-P0.6	**SXA-001T-P0.6**	0.08 ～ 0.33	28 ～ 22	1.2 ～ 1.9	7,000	8,000
***SXM-01T-P0.6**	**SXA-01T-P0.6**	0.22 ～ 0.50	24 ～ 20	1.5 ～ 1.9	7,000	8,000
–	**SXA-001T-P0.6L**	0.13 ～ 0.33	26 ～ 22	1.3 ～ 1.9	–	8,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

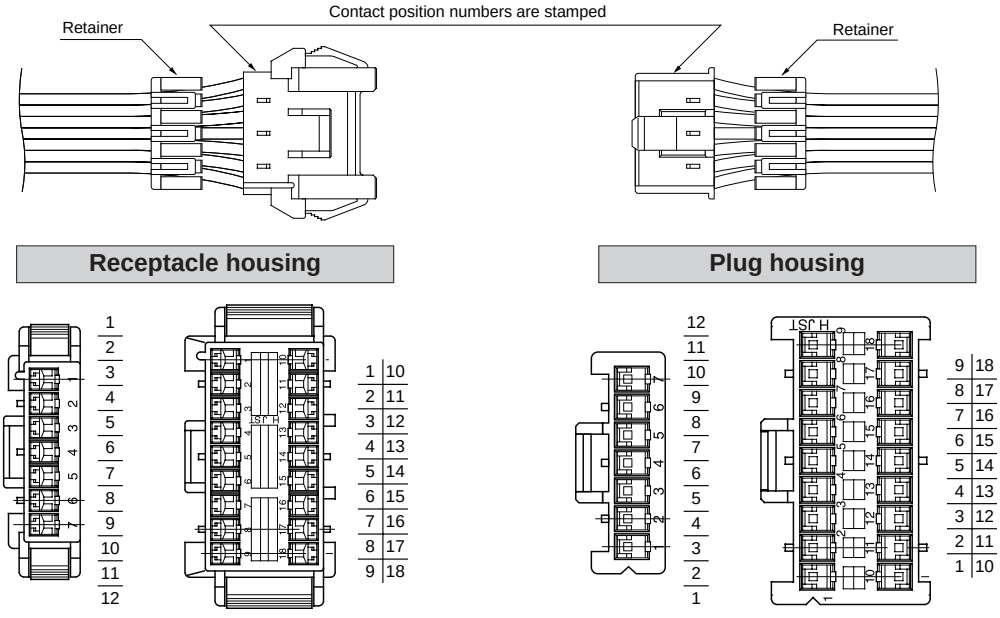
Note: 1. Contact JST for special products.
*2. *Marked product is not UL/CSA approved.*

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXM-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06
SXM-01T-P0.6		MKS-L	MK/SXA/M-01-06	APLMK SXA/M01-06
		*MKS-SC	SC/SXA/M-01-06	APLSC SXA/M01-06

*Note: *Strip-crimp applicator*

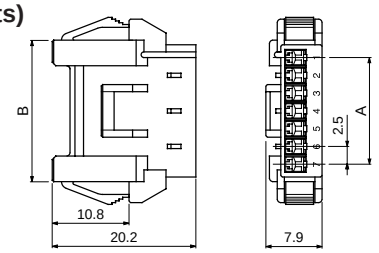
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXA/M-001-06	APLMK SXA/M001-06
		*MKS-SC	SC/SXA/M-001-06	APLSC SXA/M001-06
SXA-01T-P0.6		MKS-L	MK/SXA/M-01-06	APLMK SXA/M01-06
		*MKS-SC	SC/SXA/M-01-06	APLSC SXA/M01-06
SXA-001T-P0.6L		MKS-L	MK/SXA-001-06L	APLMK SXA001-06L
		*MKS-SC	SC/SXA-001-06L	APLSC SXA001-06L

Contact position location numbers

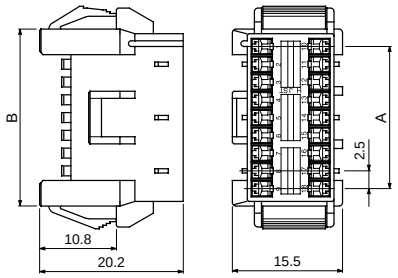


Receptacle housing (for Pin contact)

(2 to 12 circuits)



(18 circuits)



Circuits	Model No.	Dimensions (mm)		Q´ty/bag
		A	B	
2	**XMR-02V**	2.5	8.9	1,000
3	**XMR-03V**	5.0	9.9	1,000
4	**XMR-04V**	7.5	12.4	500
5	**XMR-05V**	10.0	14.9	500
6	**XMR-06V**	12.5	17.4	500
7	**XMR-07V**	15.0	19.9	500
8	**XMR-08V**	17.5	22.4	500
9	**XMR-09V**	20.0	24.9	500
10	**XMR-10V**	22.5	27.4	500
11	**XMR-11V**	25.0	29.9	500
12	**XMR-12V**	27.5	32.4	500
18	**XMR-18V**	20.0	24.9	500

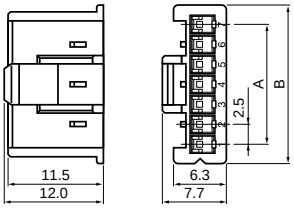
Material
PA 66, UL94V-0

RoHS compliance

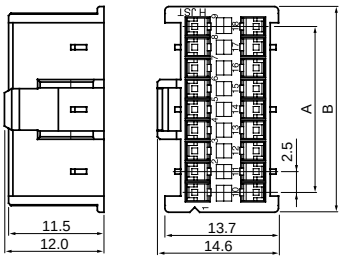
Note: Receptacle housings without panel lock device are also available for 2, 3, 4, 6, 7, 8 and 9 circuits.

Plug housing (for Socket contact)

(2 to 12 circuits)



(18 circuits)

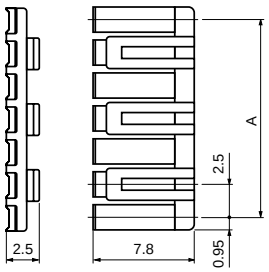


Circuits	Model No.	Dimensions (mm)		Q´ty/bag
		A	B	
2	**XMP-02V**	2.5	8.8	1,000
3	**XMP-03V**	5.0	9.8	1,000
4	**XMP-04V**	7.5	12.3	1,000
5	**XMP-05V**	10.0	14.8	500
6	**XMP-06V**	12.5	17.3	500
7	**XMP-07V**	15.0	19.8	500
8	**XMP-08V**	17.5	22.3	500
9	**XMP-09V**	20.0	24.8	500
10	**XMP-10V**	22.5	27.3	500
11	**XMP-11V**	25.0	29.8	500
12	**XMP-12V**	27.5	32.3	500
18	**XMP-18V**	20.0	24.8	500

Material
PA 66, UL94V-0

RoHS compliance

Retainer



Circuits	Model No.	Dimensions A (mm)	Q´ty / bag
2	**XMS-02V**	2.5	1,000
3	**XMS-03V**	5.0	1,000
4	**XMS-04V**	7.5	1,000
5	**XMS-05V**	10.0	1,000
6	**XMS-06V**	12.5	1,000
7	**XMS-07V**	15.0	1,000
8	**XMS-08V**	17.5	1,000
9・18	**XMS-09V**	20.0	1,000
10	**XMS-10V**	22.5	1,000
11	**XMS-11V**	25.0	1,000
12	**XMS-12V**	27.5	1,000

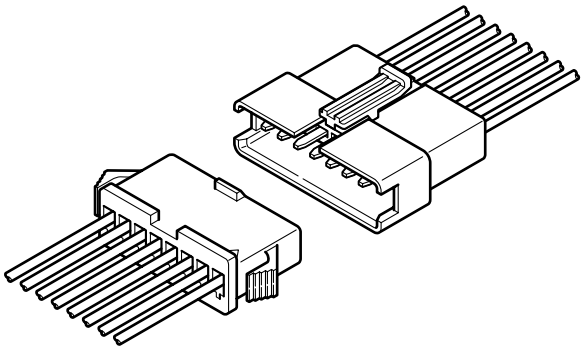
Material
Glass-filled PA 66, UL94V-0

RoHS compliance

Note: Commonly used for 9-circuit and 18-circuit housings.

SM CONNECTOR

2.5mm pitch/Disconnectable Crimp style wire-to-wire connectors



The SM series are 2.5mm pitch, wire-to-wire connectors that perform reliably in high-density, small current applications.

- ***High contact pressure***
- ***Highly reliable housing construction***
- ***Mountable on a variety of panels***
- ***Arm lock mechanism***

Specifications

- Current rating: 3A AC, DC max.
- Voltage rating: 250V AC, DC max.
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #22
  0.08 to 0.33mm^2
- Applicable panel thickness: 0.5 to 2.0mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

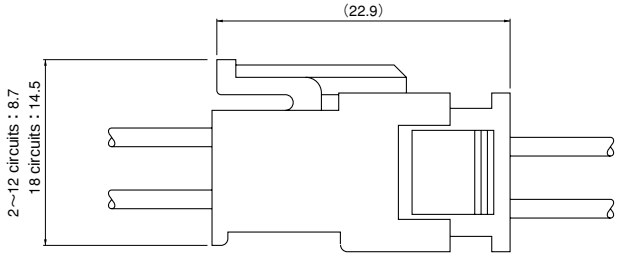
Standards

Recognized E60389

Certified LR20812

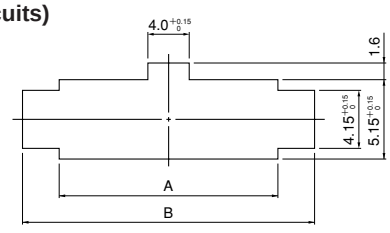
R50120150

Assembly layout

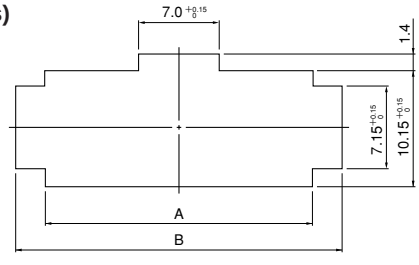


Panel layout

(2 to 12 circuits)



(18 circuits)

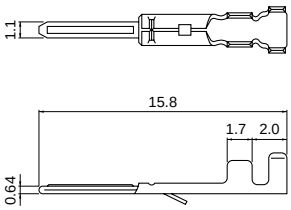


Circuits	Plug housing Model No.	Panel thickness (mm)					
		0.5～0.9		1.0～1.5		1.5～2.0	
		Panel hole dimensions (mm) General tolerance					
		A +0.15 0	B ±0.1	A +0.15 0	B ±0.1	A +0.15 0	B ±0.1
2	**SMP-02V-B(N)C**	5.7	9.6	5.7	9.8	5.7	10.0
3	**SMP-03V-B(N)C**	8.2	12.1	8.2	12.3	8.2	12.5
4	**SMP-04V-B(N)C**	10.7	14.6	10.7	14.8	10.7	15.0
5	**SMP-05V-B(N)C**	13.2	17.1	13.2	17.3	13.2	17.5
6	**SMP-06V-B(N)C**	15.7	19.6	15.7	19.8	15.7	20.0
7	**SMP-07V-B(N)C**	18.2	22.1	18.2	22.3	18.2	22.5
8	**SMP-08V-B(N)C**	20.7	24.6	20.7	24.8	20.7	25.0
9	**SMP-09V-B(N)C**	23.2	27.1	23.2	27.3	23.2	27.5
10	**SMP-10V-B(N)C**	25.7	29.6	25.7	29.8	25.7	30.0
11	**SMP-11V-B(N)C**	28.2	32.1	28.2	32.3	28.2	32.5
12	**SMP-12V-B(N)C**	30.7	34.6	30.7	34.8	30.7	35.0
18	**SMP-18V-B(N)C**	23.2	27.2	23.2	27.4	23.2	27.6

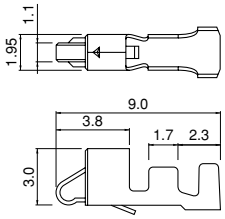
Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q´ty / reel
Pin contact	Socket contact	mm²	AWG #		
SYM-001T-P0.6	**SHF-001T-0.8BS**	0.08～0.33	28～22	1.2～1.8	Pin contact: 8,500 Socket contact: 5,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

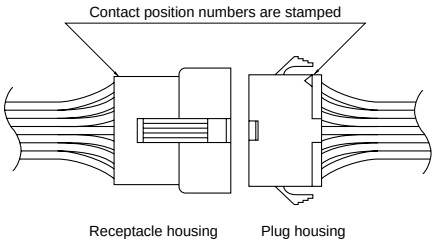
Note: 1. Contact JST for special products.
2. Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYM-001T-P0.6	AP-K2N	MKS-LS・MKS-L	MK/SYM-001-06	APLMK SYM001-06
		*MKS-SC	SC/SYM-001-06	APLSC SYM001-06

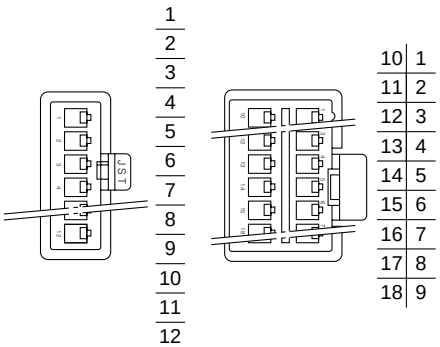
*Note: *Strip-crimp applicator*

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SHF-001T-0.8BS	AP-K2N	MKS-LS・MKS-L	MK/SHF-001-08S	APLMK SHF001-08S
		*MKS-SC	SC/SHF-001-08S	APLSC SHF001-08S

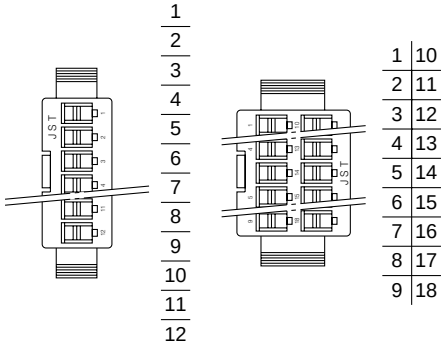
Contact position location numbers



Receptacle housing

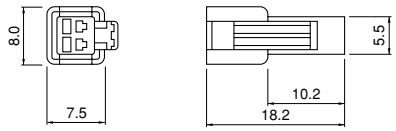
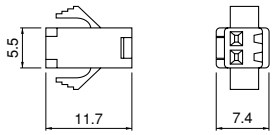
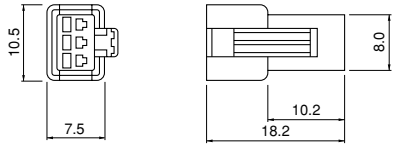
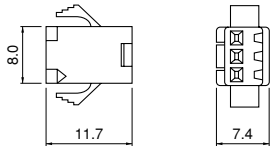
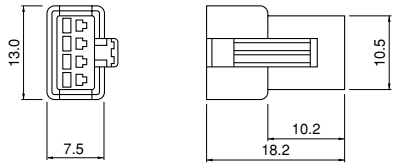
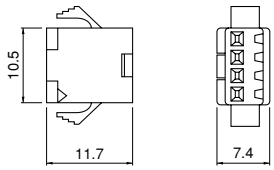
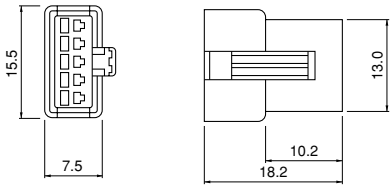
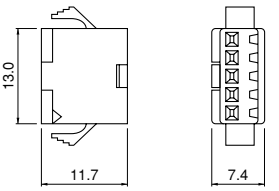
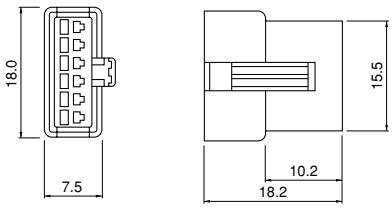
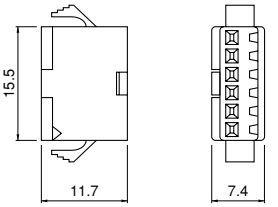


Plug housing



Housing

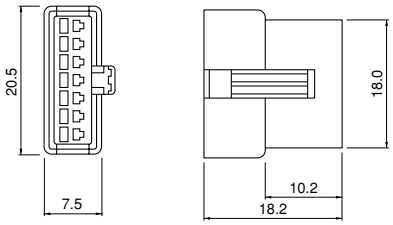
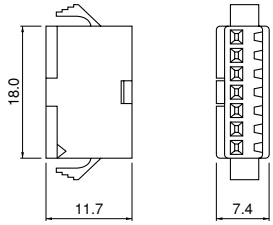
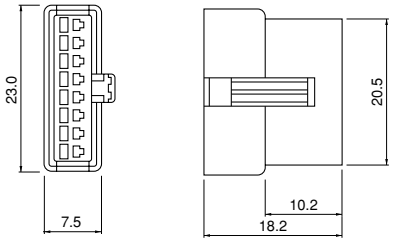
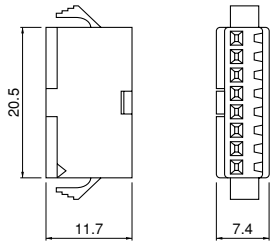
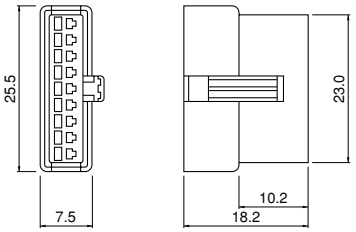
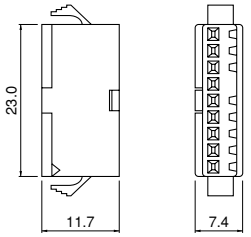
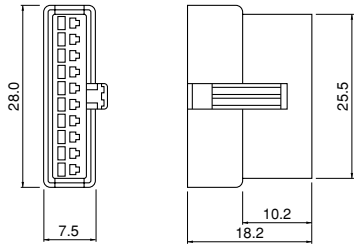
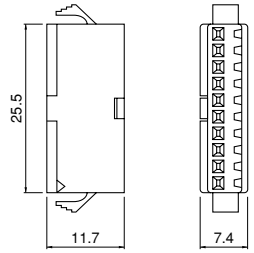
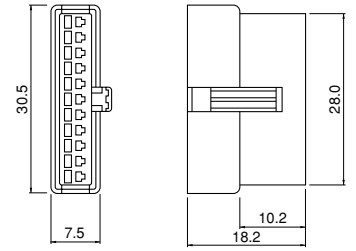
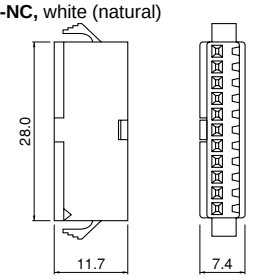
Material: PA 6, UL94V-0

Circuits	Current rating	Receptacle housing(for pin contact)	Q´ty / bag	Plug housing(for socket contact)	Q´ty / bag
2	3A	**SMR-02V-B,** black **SMR-02V-N,** white (natural) 	1,000	**SMP-02V-BC,** black **SMP-02V-NC,** white (natural) 	1,000
3	3A	**SMR-03V-B,** black **SMR-03V-N,** white (natural) 	1,000	**SMP-03V-BC,** black **SMP-03V-NC,** white (natural) 	1,000
4	3A	**SMR-04V-B,** black **SMR-04V-N,** white (natural) 	500	**SMP-04V-BC,** black **SMP-04V-NC,** white (natural) 	1,000
5	3A	**SMR-05V-B,** black **SMR-05V-N,** white (natural) 	500	**SMP-05V-BC,** black **SMP-05V-NC,** white (natural) 	1,000
6	3A	**SMR-06V-B,** black **SMR-06V-N,** white (natural) 	500	**SMP-06V-BC,** black **SMP-06V-NC,** white (natural) 	500

RoHS compliance

Housing

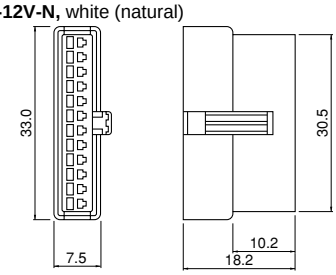
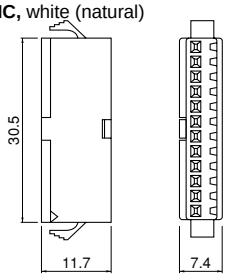
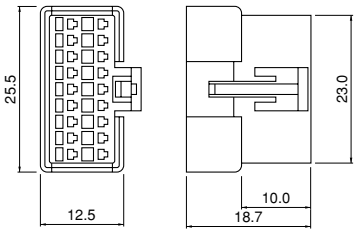
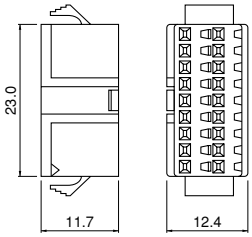
Material: PA 6, UL94V-0

Circuits	Current rating	Receptacle housing(for pin contact)	Q´ty / bag	Plug housing(for socket contact)	Q´ty / bag
7	3A	**SMR-07V-B,** black **SMR-07V-N,** white (natural) 	500	**SMP-07V-BC,** black **SMP-07V-NC,** white (natural) 	500
8	3A	**SMR-08V-B,** black **SMR-08V-N,** white (natural) 	500	**SMP-08V-BC,** black **SMP-08V-NC,** white (natural) 	500
9	3A	**SMR-09V-B,** black **SMR-09V-N,** white (natural) 	500	**SMP-09V-BC,** black **SMP-09V-NC,** white (natural) 	500
10	3A	**SMR-10V-B,** black **SMR-10V-N,** white (natural) 	200	**SMP-10V-BC,** black **SMP-10V-NC,** white (natural) 	500
11	3A	**SMR-11V-B,** black **SMR-11V-N,** white (natural) 	200	**SMP-11V-BC,** black **SMP-11V-NC,** white (natural) 	500

RoHS compliance

Housing

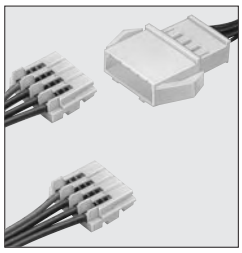
Material: PA 6, UL94V-0

Circuits	Current rating	Receptacle housing(for pin contact)	Q´ty / bag	Plug housing(for socket contact)	Q´ty / bag
12	3A	**SMR-12V-B,** black **SMR-12V-N,** white (natural) 	500	**SMP-12V-BC,** black **SMP-12V-NC,** white (natural) 	500
18	2A	**SMR-18V-B,** black **SMR-18V-N,** white (natural) 	200	**SMP-18V-BC,** black **SMP-18V-NC,** white (natural) 	200

RoHS compliance

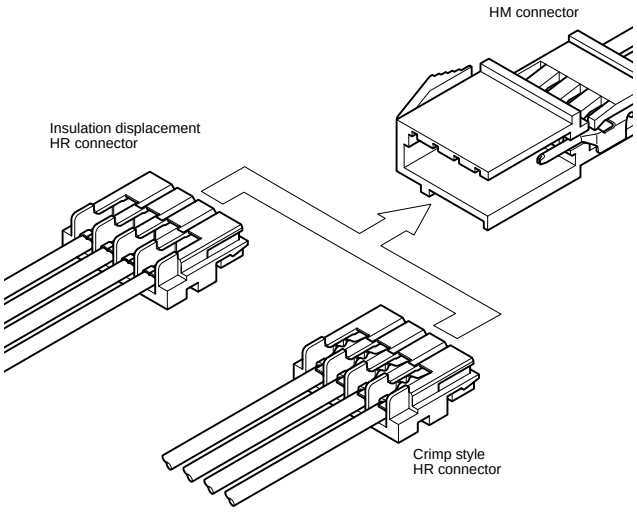
Note: 1. SM connectors with any number of circuits can be used either panel mounted or free hanging.

2. Contact JST for special products.



HM CONNECTOR

2.5mm pitch/Wire-to-wire connectors - Matable with HR receptacles



- ***Both crimp style and insulation displacement receptacles can be used***
- ***Housing-to-terminal locks***
- ***Mountable on a variety of panels***
- ***Highly reliable housing construction***

Specifications

- Current rating: Crimp style HR connectors type
  3A AC, DC max.
  Insulation displacement HR connectors type
  2A AC, DC max.
- Voltage rating: 250V AC, DC max. (See Note below.)
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #26 to #22
  0.13 to 0.33mm^2
- Applicable panel thickness: 0.8 to 1.6mm

Note: Contacts are exposed at the housing lances. Care should be taken so that these parts do not touch the metal section of the chasis.

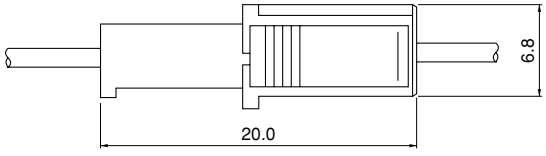
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

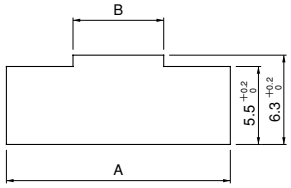
Standards

Recognized E60389

Certified LR20812

Panel layout and Assembly layout



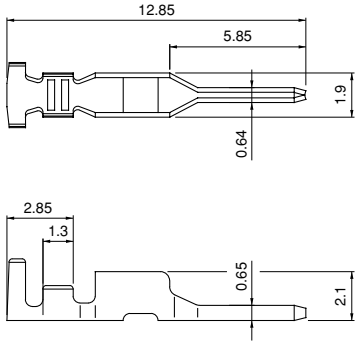


Circuits	Housing	Panel hole dimensions (mm) General tolerance		Applicable panel thickness (mm)
		A $^{+0.2}_{0}$	B $^{+0.2}_{0}$	
2	**HMR-02V**	13.3	3.9	0.8 ~ 1.6
3	**HMR-03V**	15.8	6.4	
4	**HMR-04V**	18.3	8.9	
8	**HMR-08V**	28.3	18.9	
12	**HMR-12V**	38.3	28.9	

Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Plug / HM connector

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q´ty / reel
	mm²	AWG #		
SMR-001T-0.6	0.13～0.33	26～22	1.3～1.7	9,000

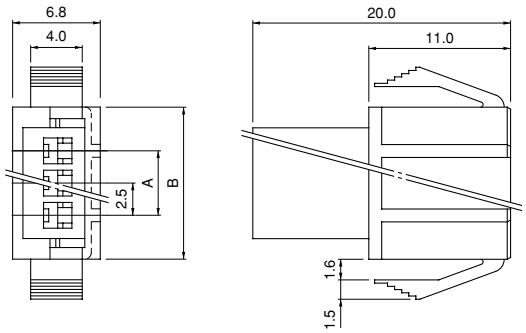
Material and Finish
Brass, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SMR-001T-0.6	AP-K2N	MKS-L	MK/SHR/MR-001-06	APLMK SHR/MR001-06
		*MKS-SC	SC/SHR/MR-001-06	APLSC SHR/MR001-06

*Note: *Strip-crimp applicator*

Housing



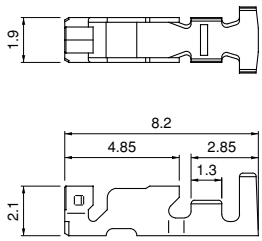
Circuits	Model No.	Dimensions (mm)		Q´ty / bag
		A	B	
2	**HMR-02V**	2.5	9.3	1,000
3	**HMR-03V**	5.0	11.8	500
4	**HMR-04V**	7.5	14.3	500
8	**HMR-08V**	17.5	24.3	500
12	**HMR-12V**	27.5	34.3	500

Material
PA 66, UL94V-0

RoHS compliance

Receptacle / Crimp style HR connector

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q´ty / reel
	mm²	AWG #		
SHR-001T-P0.6	0.13～0.33	26～22	1.3～1.7	9,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SHR-001T-P0.6	AP-K2N	MKS-L	MK/SHR/MR-001-06	APLMK SHR/MR001-06
		*MKS-SC	SC/SHR/MR-001-06	APLSC SHR/MR001-06

*Note: *Strip-crimp applicator*

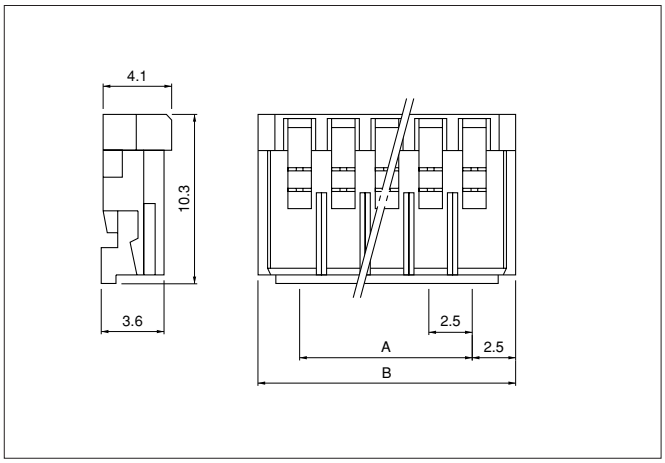
Housing

Circuits	Model No.	Dimensions (mm)		Q´ty / bag
		A	B	
2	**HRP-02-S**	2.5	7.5	2,000
3	**HRP-03-S**	5.0	10.0	2,000
4	**HRP-04-S**	7.5	12.5	1,000
8	**HRP-08-S**	17.5	22.5	500
12	**HRP-12-S**	27.5	32.5	500

Material
PA 66, UL94V-0

RoHS compliance

Receptacle / Insulation displacement HR connector



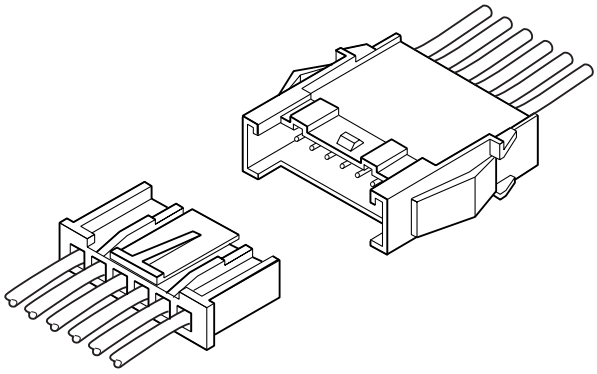
Circuits	Model No.			Dimensions (mm)		Q´ty / bag
	# 28	# 26	# 24	A	B	
2	**02HR-8M-P-N**	**02HR-6S-P-N**	**02HR-4K-P-N**	2.5	7.5	1,000
3	**03HR-8M-P-N**	**03HR-6S-P-N**	**03HR-4K-P-N**	5.0	10.0	1,000
4	**04HR-8M-P-N**	**04HR-6S-P-N**	**04HR-4K-P-N**	7.5	12.5	1,000
8	**08HR-8M-P-N**	**08HR-6S-P-N**	**08HR-4K-P-N**	17.5	22.5	500
12	**12HR-8M-P-N**	**12HR-6S-P-N**	**12HR-4K-P-N**	27.5	32.5	500

Material and Finish
Contact: Phosphor bronze, tin-plated (reflow treatment) Housing: PA 66, UL94V-0

RoHS compliance

XA CONNECTOR

2.5mm pitch/Disconnectable Crimp style wire-to-wire connectors



2.5mm pitch wire-to-wire connector that can mate with the socket of XA connector (board-to-wire type). Reliable secondary retainer is available. Panel mount is applicable.

- ***Possible to mate with the existing XA socket***
- ***Inner type contact lance***
- ***Mountable on a variety of panels***
- ***Secondary retainer***
- ***Secure lock construction***

Specifications

- Current rating: 3A AC, DC max. (AWG #20)
- Voltage rating: 250V AC, DC max.
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

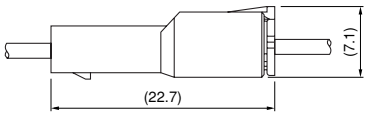
Recognized E60389

Certified LR20812

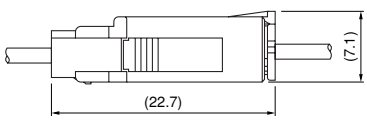
R9851220

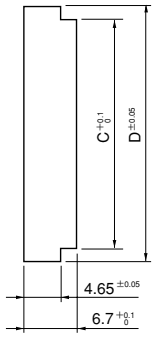
Assembly layout and Panel layout

Without panel locks



With panel locks

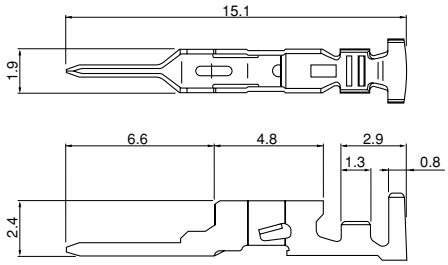




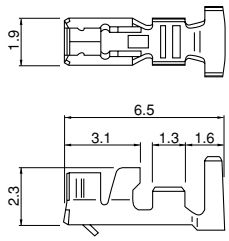
Note: C and D dimensions: Refer to receptacle housing.

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D.(mm)	Q'ty / reel	
Pin contact	Socket contact	mm²	AWG #		Pin contact	Socket contact
SXAM-001T-P0.6	**SXA-001T-P0.6**	0.08～0.33	28～22	1.2～1.9	7,000	8,000
SXAM-01T-P0.6	**SXA-01T-P0.6**	0.22～0.5	24～20	1.5～1.9	7,000	8,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: Contact JST for gold-plated products.

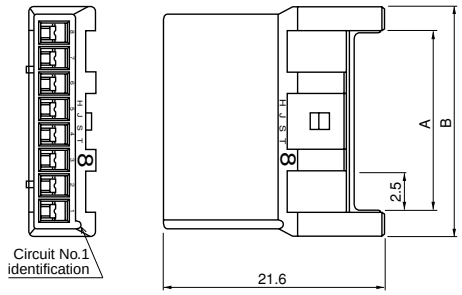
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-001-06	APLMK SXAM/XA001-06
		*MKS-SC	SC/SXAM/XA-001-06	APLSC SXAM/XA001-06
SXA-01T-P0.6		MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06

*Note: *Strip-crimp applicator*

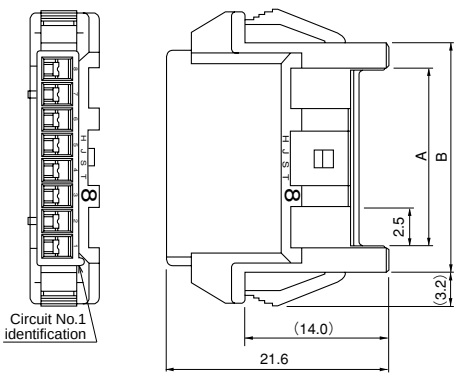
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXAM-001T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-001-06	APLMK SXAM/XA001-06
		*MKS-SC	SC/SXAM/XA-001-06	APLSC SXAM/XA001-06
SXAM-01T-P0.6		MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06

Receptacle housing

Without panel locks



With panel locks



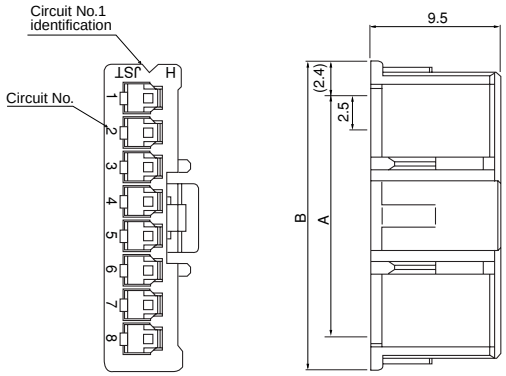
Circuits	Model No.		Dimensions (mm)				Q'ty / bag
	Without panel locks	With panel locks	A	B	C	D	
2	**XARR-02VF**	**XARR-02V**	2.5	7.5	7.9	11.2	1,000
3	**XARR-03VF**	**XARR-03V**	5.0	10.0	10.4	13.7	1,000
4	**XARR-04VF**	**XARR-04V**	7.5	12.5	12.9	16.2	1,000
5	**XARR-05VF**	**XARR-05V**	10.0	15.0	15.4	18.7	1,000
6	**XARR-06VF**	**XARR-06V**	12.5	17.5	17.9	21.2	500
7	—	**XARR-07V**	15.0	20.0	20.4	23.7	500
8	**XARR-08VF**	**XARR-08V**	17.5	22.5	22.9	26.2	500
9	**XARR-09VF**	**XARR-09V**	20.0	25.0	25.4	28.7	500
10	**XARR-10VF**	**XARR-10V**	22.5	27.5	27.9	31.2	500
11	—	**XARR-11V**	25.0	30.0	30.4	33.7	500
12	**XARR-12VF**	**XARR-12V**	27.5	32.5	32.9	36.2	500
13	—	**XARR-13V**	30.0	35.0	35.4	38.7	500
14	—	**XARR-14V**	32.5	37.5	37.9	41.2	500
15	—	**XARR-15V**	35.0	40.0	40.4	43.7	500

Material
PA 66, UL94V-0, natural (white)

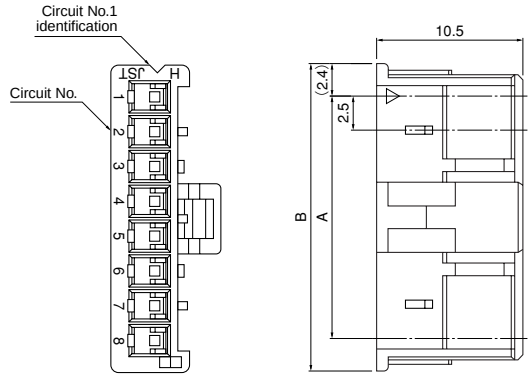
RoHS compliance
Note: C and D dimensions: Panel layout dimensions

Plug housing

Standard type



Retainer mountable type

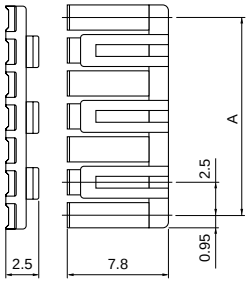


Circuits	Model No.		Dimensions (mm)		Q'ty / bag	
	Standard type	Retainer mountable type	A	B	Standard type	Retainer mountable type
2	**XAP-02V-1**	**XARP-02V**	2.5	7.3	1,000	1,000
3	**XAP-03V-1**	**XARP-03V**	5.0	9.8	1,000	1,000
4	**XAP-04V-1**	**XARP-04V**	7.5	12.3	1,000	1,000
5	**XAP-05V-1**	**XARP-05V**	10.0	14.8	1,000	1,000
6	**XAP-06V-1**	**XARP-06V**	12.5	17.3	1,000	1,000
7	**XAP-07V-1**	**XARP-07V**	15.0	19.8	1,000	1,000
8	**XAP-08V-1**	**XARP-08V**	17.5	22.3	1,000	1,000
9	**XAP-09V-1**	**XARP-09V**	20.0	24.8	1,000	1,000
10	**XAP-10V-1**	**XARP-10V**	22.5	27.3	1,000	1,000
11	**XAP-11V-1**	**XARP-11V**	25.0	29.8	1,000	1,000
12	**XAP-12V-1**	**XARP-12V**	27.5	32.3	1,000	1,000
13	**XAP-13V-1**	**XARP-13V**	30.0	34.8	1,000	1,000
14	**XAP-14V-1**	**XARP-14V**	32.5	37.3	500	1,000
15	**XAP-15V-1**	**XARP-15V**	35.0	39.8	500	1,000

Material
PA 66, UL94V-0, natural (white)

RoHS compliance

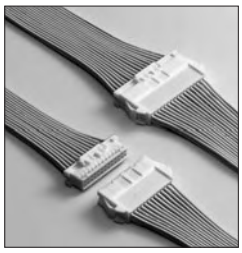
Retainer



Circuits	Model No.	A	Q'ty / bag
2	**XMS-02V**	2.5	1,000
3	**XMS-03V**	5.0	1,000
4	**XMS-04V**	7.5	1,000
5	**XMS-05V**	10.0	1,000
6	**XMS-06V**	12.5	1,000
7	**XMS-07V**	15.0	1,000
8	**XMS-08V**	17.5	1,000
9	**XMS-09V**	20.0	1,000
10	**XMS-10V**	22.5	1,000
11	**XMS-11V**	25.0	1,000
12	**XMS-12V**	27.5	1,000
13	**XMS-13V**	30.0	1,000
14	**XMS-14V**	32.5	1,000
15	**XMS-15V**	35.0	1,000

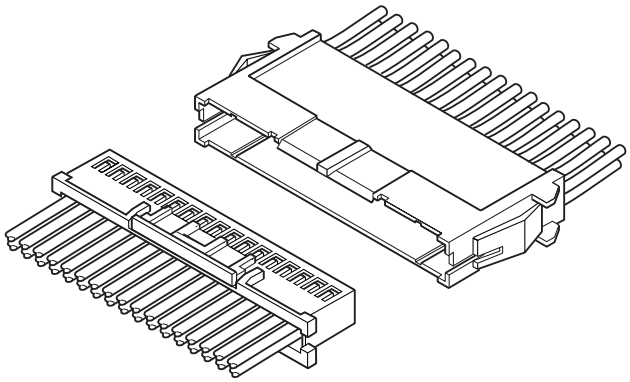
Material
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance



XAD CONNECTOR

2.5mm pitch/Disconnectable Crimp style wire-to-wire connectors



2.5mm pitch grid (dual in raw) wire-to-wire connector that can mate with the socket of XAD connector (board-to-wire type).

- ***Possible to mate with the existing XAD socket***
- ***Inner type contact lance***
- ***Mountable on a variety of panels***
- ***Secure lock construction***

Specifications

- Current rating: 3A AC, DC max. (AWG #20)
- Voltage rating: 250V AC, DC max.
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20

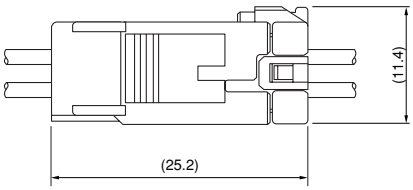
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

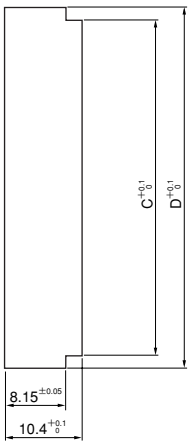
Standards

Recognized E60389

Certified LR20812

Assembly layout and Panel layout

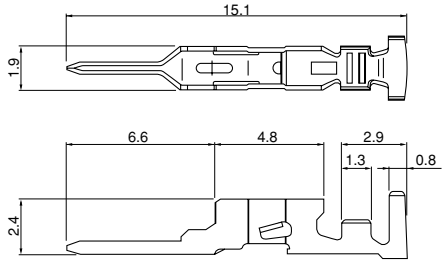




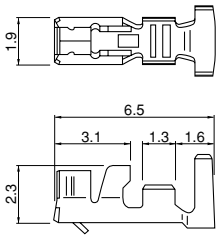
Note: C and D dimensions: Refer to receptacle housing.

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D.(mm)	Q'ty / reel	
Pin contact	Socket contact	mm²	AWG #		Pin contact	Socket contact
SXAM-001T-P0.6	**SXA-001T-P0.6**	0.08～0.33	28～22	1.2～1.9	7,000	8,000
SXAM-01T-P0.6	**SXA-01T-P0.6**	0.22～0.5	24～20	1.5～1.9	7,000	8,000
—	**SXA-001T-P0.6L**	0.13～0.33	26～22	1.3～1.7	—	8,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: Contact JST for gold-plated products.

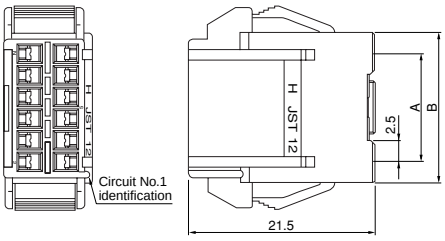
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXA-001T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-001-06	APLMK SXAM/XA001-06
		*MKS-SC	SC/SXAM/XA-001-06	APLSC SXAM/XA001-06
SXA-01T-P0.6		MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06
SXA-001T-P0.6L		MKS-L	MK/SXA-001-06L	APLMK SXA001-06L
		*MKS-SC	SC/SXA-001-06L	APLSC SXA001-06L

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SXAM-001T-P0.6	AP-K2N	MKS-L	MK/SXAM/XA-001-06	APLMK SXAM/XA001-06
		*MKS-SC	SC/SXAM/XA-001-06	APLSC SXAM/XA001-06
SXAM-01T-P0.6		MKS-L	MK/SXAM/XA-01-06	APLMK SXAM/XA01-06
		*MKS-SC	SC/SXAM/XA-01-06	APLSC SXAM/XA01-06

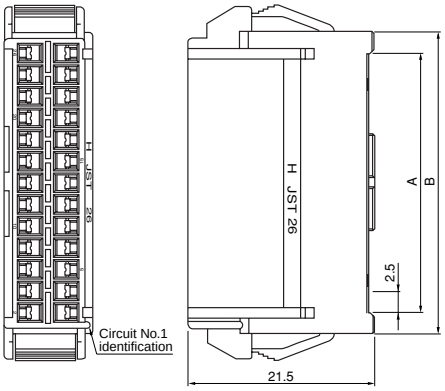
*Note: *Strip-crimp applicator*

Receptacle housing

8 to 16 circuits



18 to 40 circuits



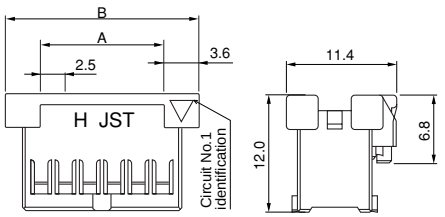
Circuits	Model No.	Dimensions (mm)				Q'ty/bag
		A	B	C	D	
8	**XADR-08V**	7.5	12.5	12.9	16.2	1,000
10	**XADR-10V**	10.0	15.0	15.4	18.7	500
12	**XADR-12V**	12.5	17.5	17.9	21.2	500
14	**XADR-14V**	15.0	20.0	20.4	23.7	500
16	**XADR-16V**	17.5	22.5	22.9	26.2	300
18	**XADR-18V**	20.0	25.0	25.4	28.7	300
20	**XADR-20V**	22.5	27.5	27.9	31.2	300
22	**XADR-22V**	25.0	30.0	30.4	33.7	300
24	**XADR-24V**	27.5	32.5	32.9	36.2	300
26	**XADR-26V**	30.0	35.0	35.4	38.7	300
28	**XADR-28V**	32.5	37.5	37.9	41.2	300
30	**XADR-30V**	35.0	40.0	40.4	43.7	300
32	**XADR-32V**	37.5	42.5	42.9	46.2	300
34	**XADR-34V**	40.0	45.0	45.4	48.7	200
36	**XADR-36V**	42.5	47.5	47.9	51.2	200
40	**XADR-40V**	47.5	52.5	52.9	56.2	200

Material
PA 66, UL94V-0, natural (white)

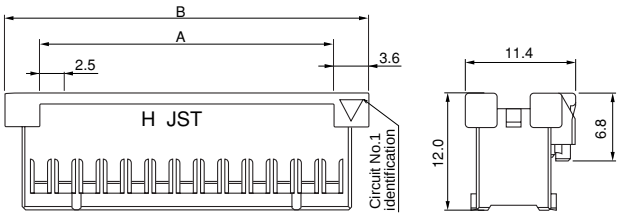
RoHS compliance
Note: C and D dimensions: Panel layout dimensions

Plug housing

8 to 16 circuits



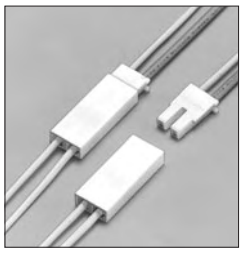
18 to 40 circuits



Circuits	Model No.	Dimensions (mm)		Q'ty/bag
		A	B	
8	**XADRP-08V**	7.5	14.7	1,000
10	**XADRP-10V**	10.0	17.2	1,000
12	**XADRP-12V**	12.5	19.7	1,000
14	**XADRP-14V**	15.0	22.2	1,000
16	**XADRP-16V**	17.5	24.7	1,000
18	**XADRP-18V**	20.0	27.2	1,000
20	**XADRP-20V**	22.5	29.7	500
22	**XADRP-22V**	25.0	32.2	500
24	**XADRP-24V**	27.5	34.7	500
26	**XADRP-26V**	30.0	37.2	500
28	**XADRP-28V**	32.5	39.7	500
30	**XADRP-30V**	35.0	42.2	500
32	**XADRP-32V**	37.5	44.7	500
34	**XADRP-34V**	40.0	47.2	500
36	**XADRP-36V**	42.5	49.7	500
40	**XADRP-40V**	47.5	54.7	250

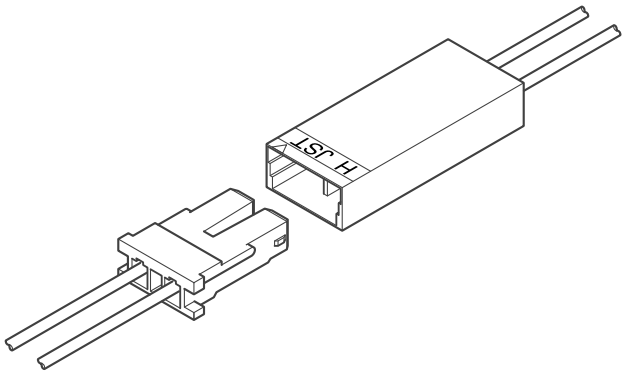
Material
PA 66, UL94V-0, natural (white)

RoHS compliance



BHS CONNECTOR

3.5mm pitch/Disconnectable Crimp style Wire-to-wire connectors



Wire-to-wire version connectors, designed for connecting liquid crystal display back light lamp to their starters.

- ***Compact and applicable to high voltage***
- ***Adopt wide large for socket contact***

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 1,400V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 3,800V AC/minute
- Applicable wire: Socket contact Conductor AWG #28 to #24
  Insulation O.D./ 0.9 to1.7mm
  Pin contact Conductor AWG #28 to #24
  Insulation O.D./ 0.9 to1.8mm

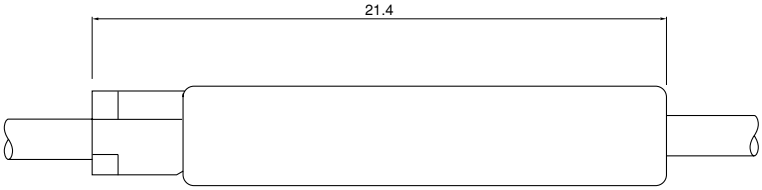
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

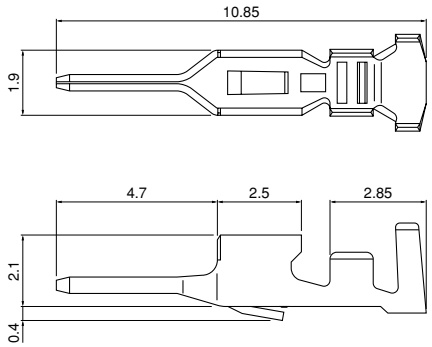
Certified LR20812

Assembly layout

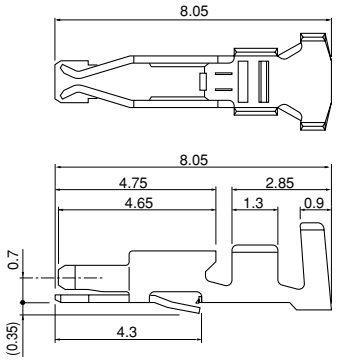


Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)		Q'ty / reel	
Pin contact	Socket contact	mm²	AWG #	Pin contact	Socket contact	Pin contact	Socket contact
SBHSM-002T-P0.5	**SBHS-002T-P0.5A**	0.08～ 0.22	28～24	0.9～ 1.8	0.9～ 1.7	5,000	10,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

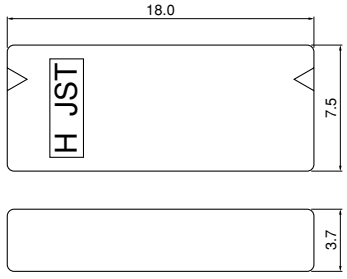
RoHS compliance
Note: Contact JST for SBHS-002T-P0.5.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHSM-002T-P0.5	AP-K2N	MKS-L	MK／SBHSM-002-05	APLMK SBHSM002-05
		—	—	—

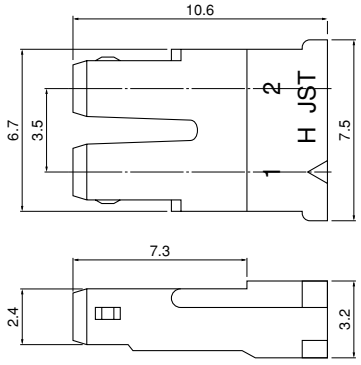
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHS-002T-P0.5A	AP-K2N	MKS-L	MK／SBHS-002-05	APLMK SBHS002-05
		—	—	—

Housing

Receptacle housing



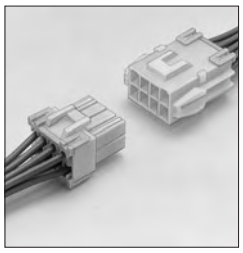
Socket housing



Model No.		Q'ty / bag
Receptacle housing	Socket housing	
BHSMR-02VS	**BHSR-02VS-1（N）**	1,000

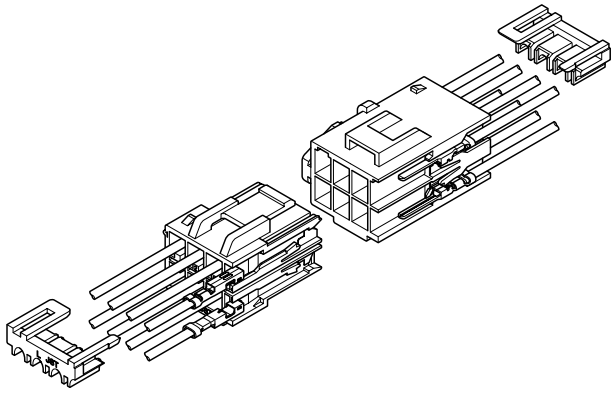
Material
PA 66, UL94V-0, natural (white)

RoHS compliance
Note: Contact JST for BHSR-02VS-1.



HL CONNECTOR

3.96mm pitch/Disconnectable Crimp style Wire-to-wire connectors



- ***Low insertion force contact***
- ***Housing lance***
- ***Inner-housing lock***
- ***Secondary retainers***
- ***Panel lock construction***

Standards

Recognized E60389
Certified LR20812
R9551072

Specifications

- Current rating: 7A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -25˚C to +90˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
  After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #18
  0.3 to 0.75mm²
- Applicable panel thickness: 0.7 to 2.0mm

* RoHS compliant products are published.
* Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105˚C.
*Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

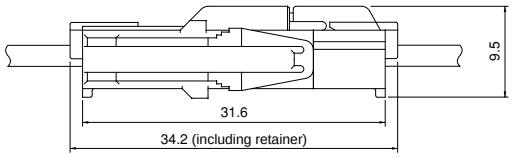
Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and wire size.

Current unit: A

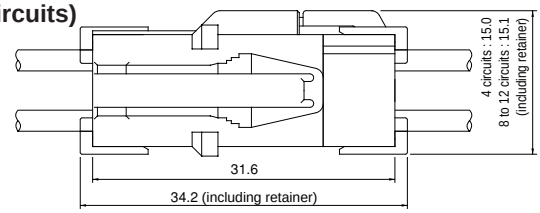
Circuits	Wire size (AWG)		
	#18	#20	#22
2	7	5	4
3	6	4	4
4	6	4	4
8	4	3	3
9	4	3	3
12	3	2	2

Panel layout and Assembly layout

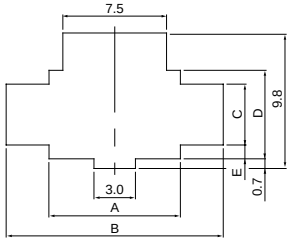
(2 and 3 circuits)



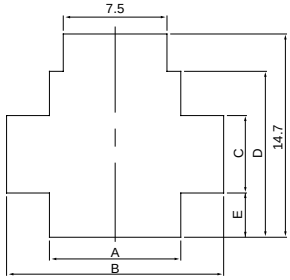
(4, 8 and 12 circuits)



Shape Ⅰ



Shape Ⅱ

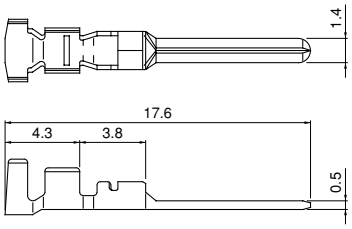


Circuits	Receptacle housing	Panel hole shape	Panel hole dimensions (mm) General tolerance					Applicable panel thickness (mm)
			A ±0.13	B ±0.13	C ±0.1	D ±0.13	E ±0.1	
2	**HLR-02V**	Ⅰ	9.5	15.7	4.4	6.4	1.0	0.7 ～ 2.0
3	**HLR-03V**	Ⅰ	13.5	19.7	4.4	6.4	1.0	
4	**HLR-04V**	Ⅱ	9.5	15.7	5.6	12.0	3.2	
8	**HLR-08V**	Ⅱ	17.4	23.6	5.6	12.0	3.2	
12	**HLR-12V**	Ⅱ	25.3	31.6	5.6	12.0	3.2	

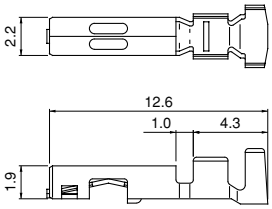
Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Contact

Pin contact



Socket contact



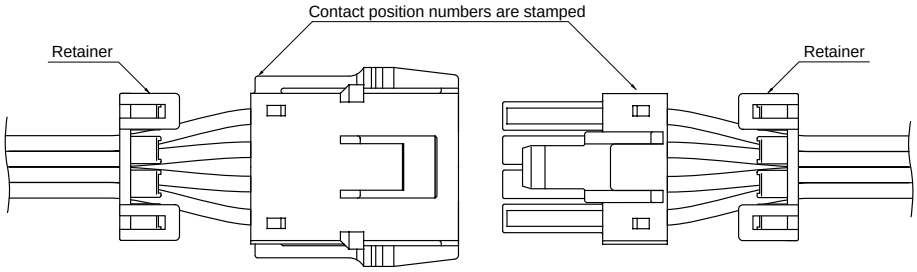
Model No.		Applicable wire		Insulation O.D. (mm)	Q´ty / reel
Pin contact	Socket contact	mm²	AWG #		
SSM-21T-P1.4	**SSF-21T-P1.4**	0.3 ～ 0.75	22 ～ 18	1.5 ～ 2.2	6,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: Contact JST for special products.

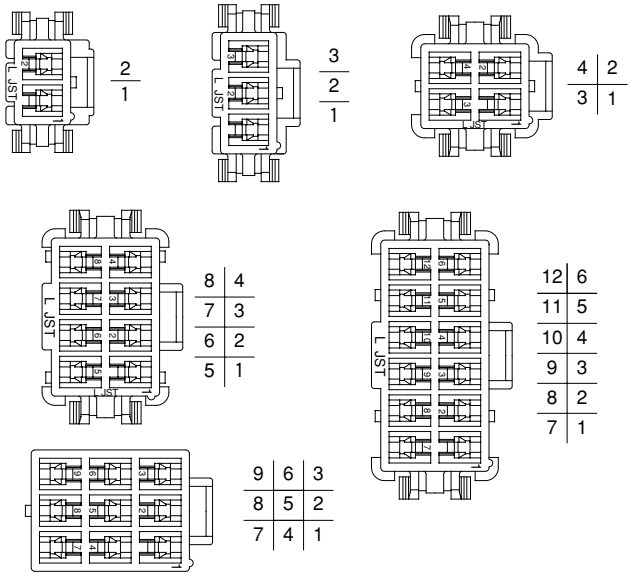
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSM-21T-P1.4	AP-K2N	MKS-L	MK/SSF/M-21-14	APLMK SSF/M21-14
SSF-21T-P1.4		—	—	—

Contact position location numbers

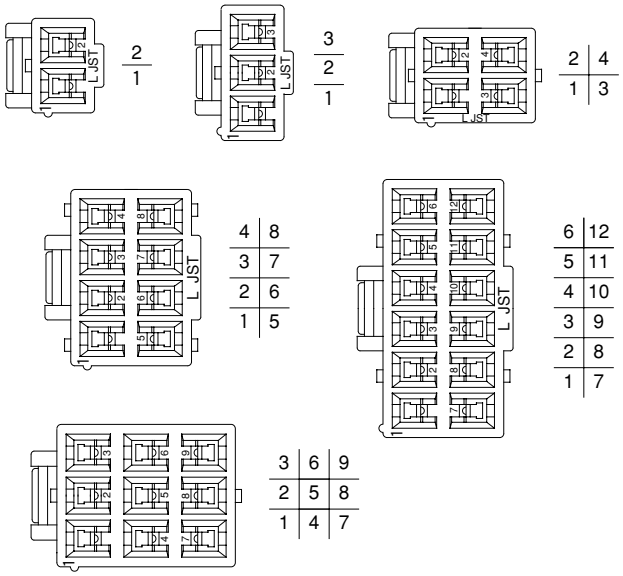


Receptacle housing Plug housing

Receptacle housing

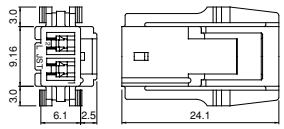
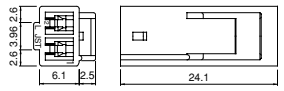
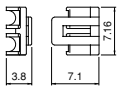
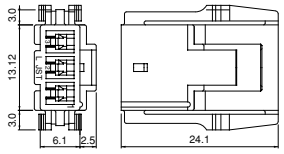
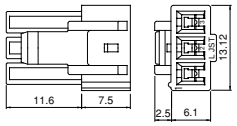
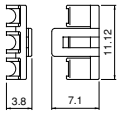
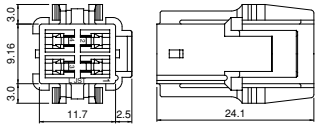
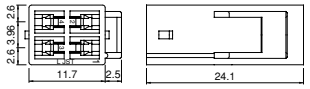
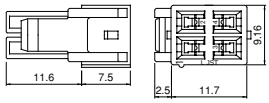
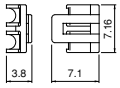
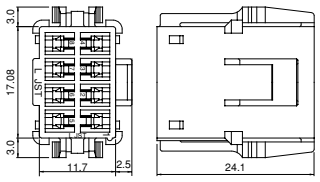
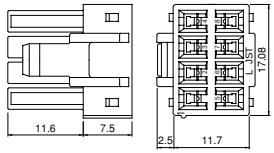
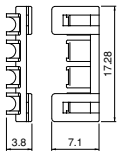
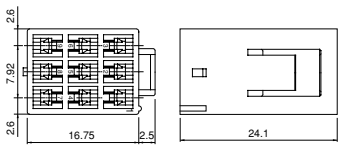
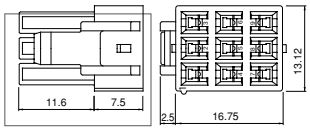
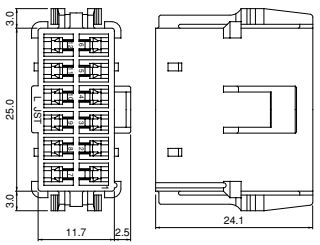
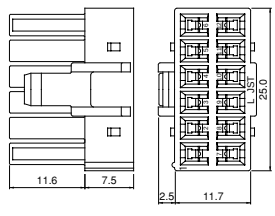
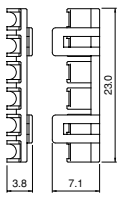


Plug housing

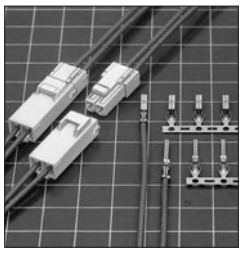


Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

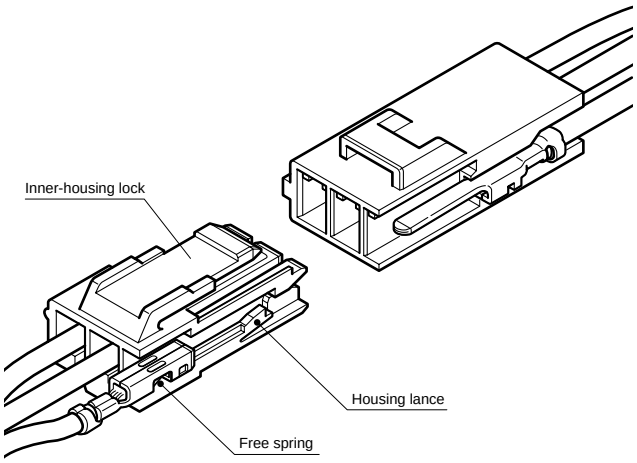
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q´ty / bag	Plug housing(for socket contact)	Q´ty / bag	Retainer	Q´ty / bag
2	300V	7A	**HLR-02V**  **HLR-02VF** 	1,000	**HLP-02V** 	1,000	**HLS-02V** (commonly used for 2-circuit housing and 4-circuit housing) 	1,000
3	300V	6A	**HLR-03V** 	500	**HLP-03V** 	1,000	**HLS-03V** 	1,000
4	300V	6A	**HLR-04V**  **HLR-04VF** 	500	**HLP-04V** 	500	**HLS-02V** (commonly used for 2-circuit housing and 4-circuit housing) 	1,000
8	300V	4A	**HLR-08V** 	500	**HLP-08V** 	500	**HLS-08V** 	1,000
9	300V	4A	**HLR-09VF** 	500	**HLP-09V** 	500	—	—
12	300V	3A	**HLR-12V** 	500	**HLP-12V** 	500	**HLS-12V** 	1,000

RoHS compliance



SL CONNECTOR

3.96mm pitch/Disconnectable Crimp style Wire-to-wire connectors



- **Low insertion force contact**
- **Housing lance**
- **Inner-housing lock**

Specifications

- Current rating: 7A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -25˚C to +90˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
  After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #18
  0.13 to 0.75mm^2

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit: A

Circuits	Wire size (AWG)				
	#18	#20	#22	#24	#26
1	7	5	4	3	2
2	7	5	4	3	2
3	6	4	4	3	2
4	6	4	4	3	2
6	6	4	4	3	2

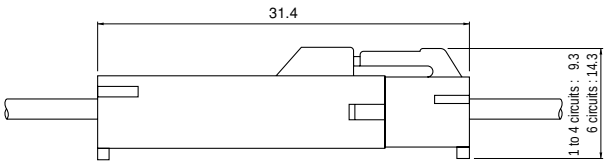
Standards

Recognized E60389

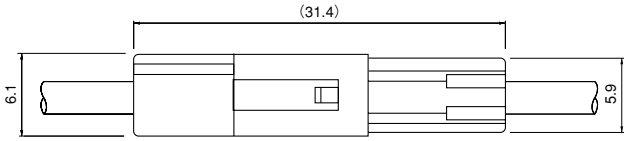
Certified LR20812

R9351104

Assembly layout

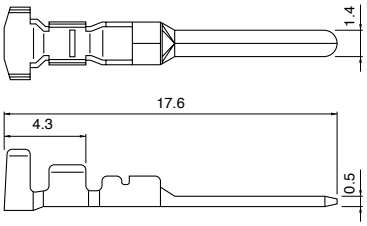


Both side lock product

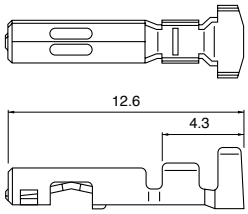


Contact

Pin contact



Socket contact



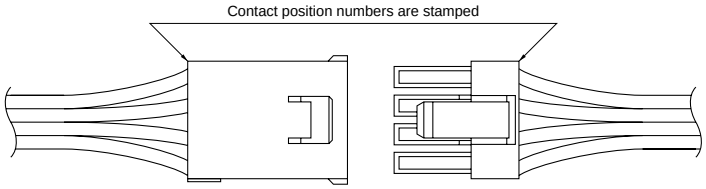
Model No.		Applicable wire		Insulation O.D. (mm)	Q´ty / reel
Pin contact	Socket contact	mm²	AWG #		
SSM-01T-P1.4	**SSF-01T-P1.4**	0.13 ～ 0.5	26 ～ 20	1.3 ～ 2.5	6,000
SSM-21T-P1.4	**SSF-21T-P1.4**	0.3 ～ 0.75	22 ～ 18	1.5 ～ 2.5	

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

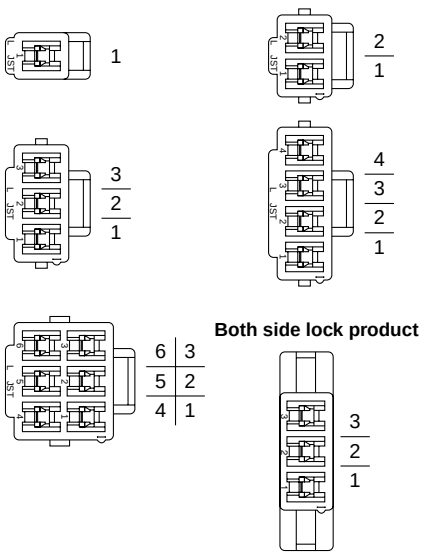
RoHS compliance
Note: Contact JST for special products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSM-01T-P1.4	AP-K2N	MKS-L	MK/SSF/M-01-14	APLMK SSF/M01-14
SSF-01T-P1.4		—	—	—
SSM-21T-P1.4		MKS-L	MK/SSF/M-21-14	APLMK SSF/M21-14
SSF-21T-P1.4		—	—	—

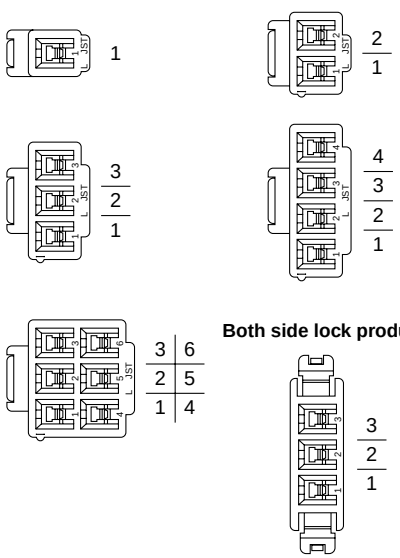
Contact position location numbers



Receptacle housing

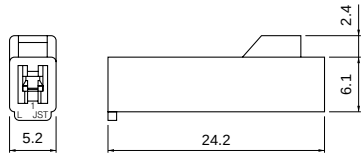
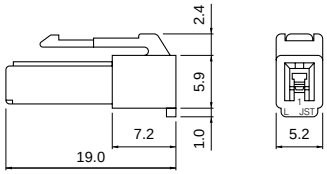
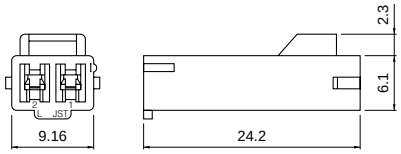
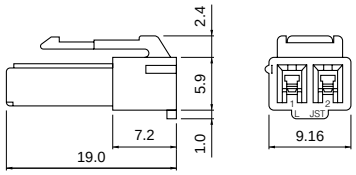
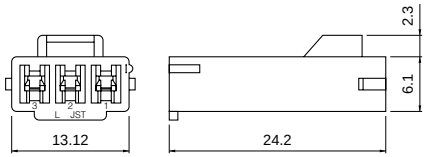
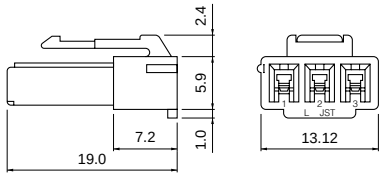
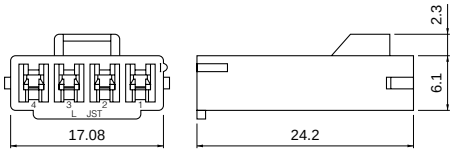
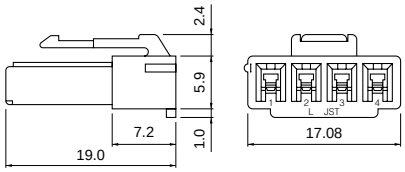
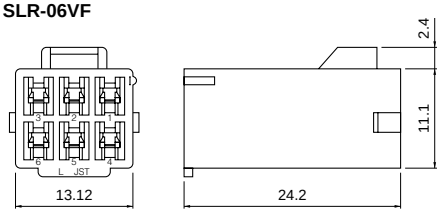
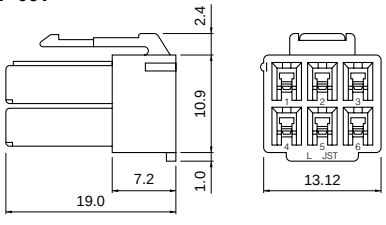
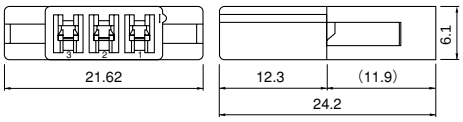
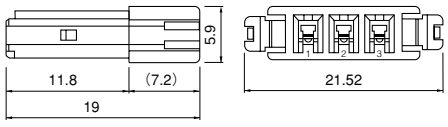


Plug housing



Housing

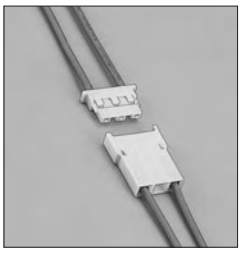
Material: PA 66, UL94V-0, white

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q´ty / bag	Plug housing(for socket contact)	Q´ty / bag
1	300V	7A	**SLR-01VF** 	1,000	**SLP-01V** 	1,000
2	300V	7A	**SLR-02VF** 	500	**SLP-02V** 	500
3	300V	6A	**SLR-03VF** 	500	**SLP-03V** 	500
4	300V	6A	**SLR-04VF** 	500	**SLP-04V** 	500
6	300V	6A	**SLR-06VF** 	500	**SLP-06V** 	500
3	300V	6A	**Both side lock product** ***SLR-03VF-MD** 	500	**Both side lock product** ***SLP-03V-MD** 	500

RoHS compliance

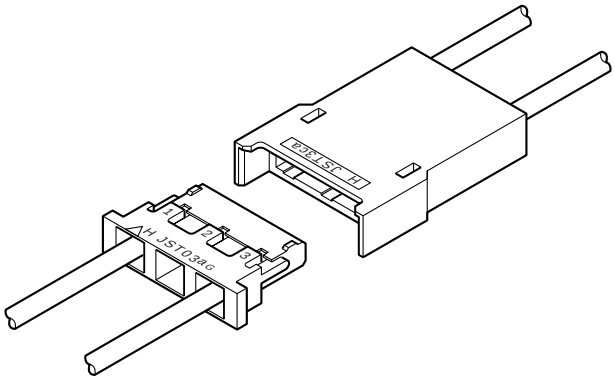
Note: 1. SLR-03VF-MD and SLP-03V-MD are not CSA/TÜV approved.

*2. *Contact JST for special products.*



BHM CONNECTOR

4.0/8.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



Wire-to-wire version connectors, designed for liquid crystal display back light lamps.

- ***Contact lances***
- ***Box shaped housing***

Specifications

- Current rating: 1.0A AC, DC max.
- Voltage rating: 600V AC, DC max.
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,800V AC/minute
- Applicable wire: AWG #28 to #22
  0.08 to 0.33mm^2

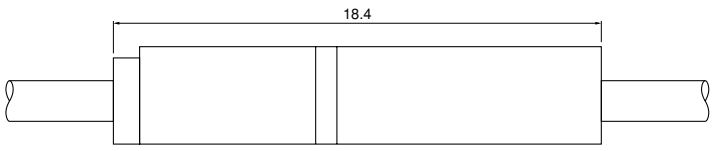
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

Recognized E60389

Certified LR20812

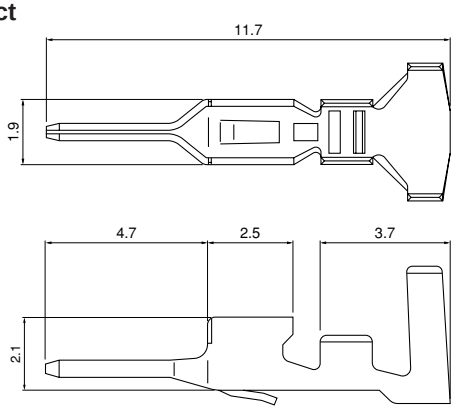
Assembly layout



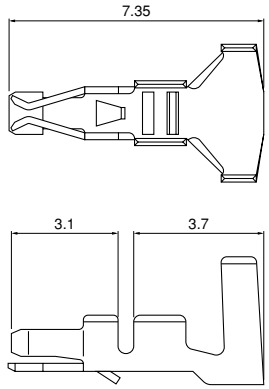
BHM CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm²	AWG #		
SBHM-001T-P0.5	**SBH-001T-P0.5**	0.08 ～ 0.33	28 ～ 22	1.6 ～ 2.4	4,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

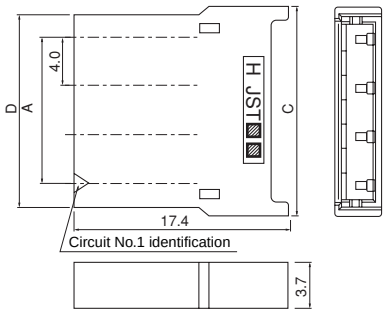
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SBHM-001T-P0.5	AP-K2N	MKS-L	MK/SBH/M-001-05	APLMK SBH/M001-05
		*MKS-SC1-1	SC/SBH/M-001-05	APLSC SBH/M001-05
SBH-001T-P0.5		MKS-L	MK/SBH/M-001-05	APLMK SBH/M001-05
		*MKS-SC1-1	SC/SBH/M-001-05	APLSC SBH/M001-05

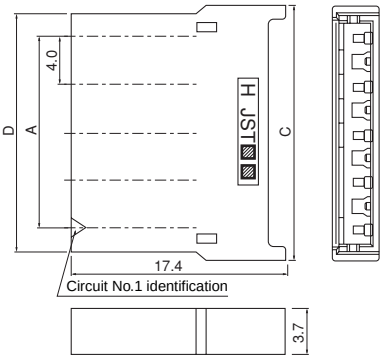
*Note: *Strip-crimp applicator*

Housing

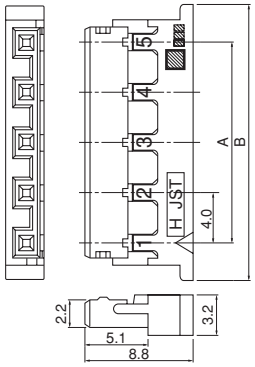
Receptacle housing (2 to 4 circuits)



(5 circuits)



Socket housing

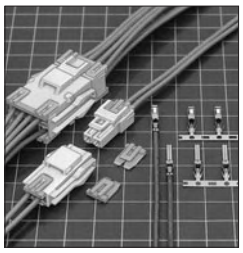


Circuits	Model No.		Dimensions (mm)				Q'ty / bag
	Receptacle housing	Socket housing	A	B	C	D	
2	**BHMR-02V**	**BHR-02VS-1**	4.0	9.8	9.1	7.8	1,000
3	**BHMR-03V**	**BHR-03VS-1**	8.0	13.8	13.1	11.8	1,000
4	**BHMR-04V**	**BHR-04VS-1**	12.0	17.8	17.1	15.8	1,000
5	**BHMR-05V-R**	**BHR-05VS-1**	16.0	21.8	21.1	19.8	1,000

Material
PA 66, UL94V-0, natural (white)

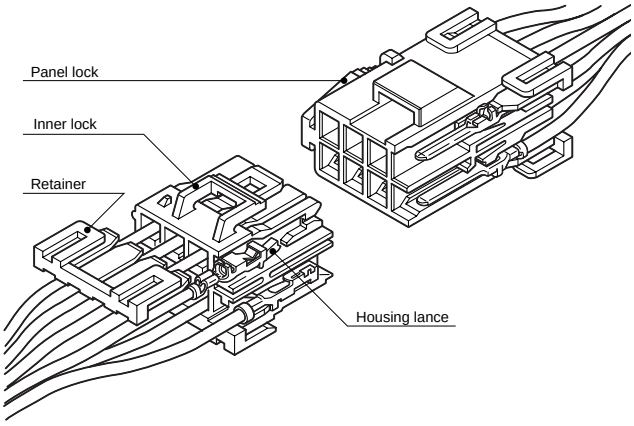
RoHS compliance

Note: BHMR-05V-R and BHR-05VS-1 have ribs against prying.



YL CONNECTOR

4.5mm pitch/Disconnectable Crimp style Wire-to-wire connectors



The retainer features added protection against non-insertion or disconnection.

- ***Housing lance***
- ***Secondary retainers***
- ***Inner-housing lock***
- ***Panel lock construction***

Standards

Recognized E60389

Certified LR20812

R9351052

Specifications

- Current rating: 10A AC, DC max. (7A when retainers are mounted)
- Voltage rating: 300V AC, DC max.
- Temperature range: -25˚C to +90˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
  After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
  0.13 to 1.25mm^2
- Applicable panel thickness: 0.7 to 2.0mm

* RoHS compliant products are published.

* Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105˚C.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

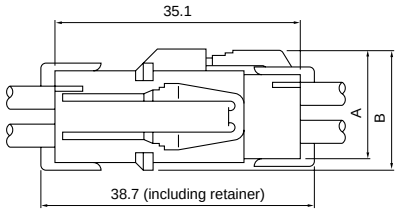
Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit: A

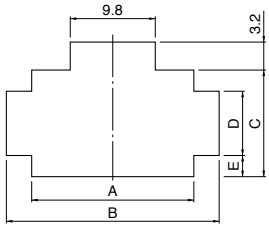
Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
1	10	7	5	4	3	2
2	10	7	5	4	3	2
3	9	6	4	4	3	2
4	9	6	4	4	3	2
6	8	5	3	3	2	2
8	7	4	3	3	2	2
9	6	4	3	3	2	2
12	6	3	2	2	2	2
15	5	3	2	2	2	1
16	5	3	2	2	2	1
21	5	3	2	2	2	1

Note: Secondary retainers cannot be used with AWG #16 wires.

Assembly layout and Panel Layout



Type	Circuits	Dimensions (mm)	
		A	B
Single row	2 · 3	9.5	10.8
2-row	4 · 6 · 8 · 12 · 16	15.3	16.6
3-row	9 · 12 · 15 · 21	20.5	21.8

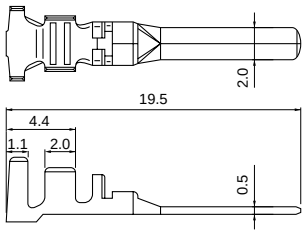


Cir-cuits	Receptacle housing Model No.	Panel thickness (mm)	0.7 to 2.0			0.7 to 0.8		0.9 to 1.3		1.4 to 2.0	
		Dimensions (mm)	A	B	C	$D^{\pm0.1}$	$E^{\pm0.1}$	$D^{\pm0.1}$	$E^{\pm0.1}$	$D^{\pm0.1}$	$E^{\pm0.1}$
2	**YLR-02V**		10.7	16.8	7.1	4.4	1.35	5.0	1.05	5.6	0.75
3	**YLR-03V**		15.3	21.3	7.1	4.4	1.35	5.0	1.05	5.6	0.75
4	**YLR-04V**		10.7	16.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3
6	**YLR-06V**		15.3	21.3	12.9	7.1	2.9	7.7	2.6	8.3	2.3
8	**YLR-08V**		19.8	25.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3
9	**YLR-09V**		15.3	21.3	18.2	7.1	5.55	7.7	5.25	8.3	4.95
12	**YLR-12V**		19.8	25.8	18.2	7.1	5.55	7.7	5.25	8.3	4.95
	YLR-12VA		28.9	34.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3
15	**YLR-15V**		24.4	30.3	18.2	7.1	5.55	7.7	5.25	8.3	4.95
16	**YLR-16V**		37.9	43.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3
21	**YLR-21V**		33.5	39.3	18.2	7.1	5.55	7.7	5.25	8.3	4.95

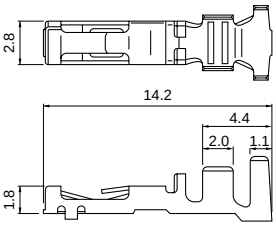
Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
Pin contact	Socket contact	mm²	AWG #		
SYM-01T-P0.5A	**SYF-01T-P0.5A**	0.13 ～ 0.5	26 ～ 20	1.3 ～ 2.5	4,000 (SYM-01T-P0.5A 5,000)
SYM-41T-P0.5A	**SYF-41T-P0.5A**	0.5 ～ 1.25	20 ～ 16	2.0 ～ 3.4	
		*0.3+0.3～ 0.5+0.5	*22+22～ 20+20	*1.5+1.5～ 2.0+2.0	

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

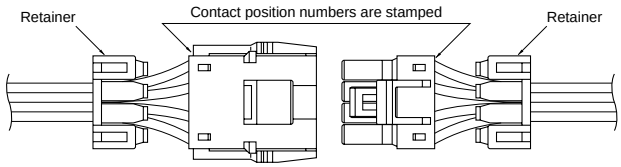
RoHS compliance

Note: 1. Contact JST for special products.
2. Retainers cannot be used with electric wire whose insulation O.D. exceeds 2.7mm and AWG #16.
*3. *Marked products are not TÜV approved.*

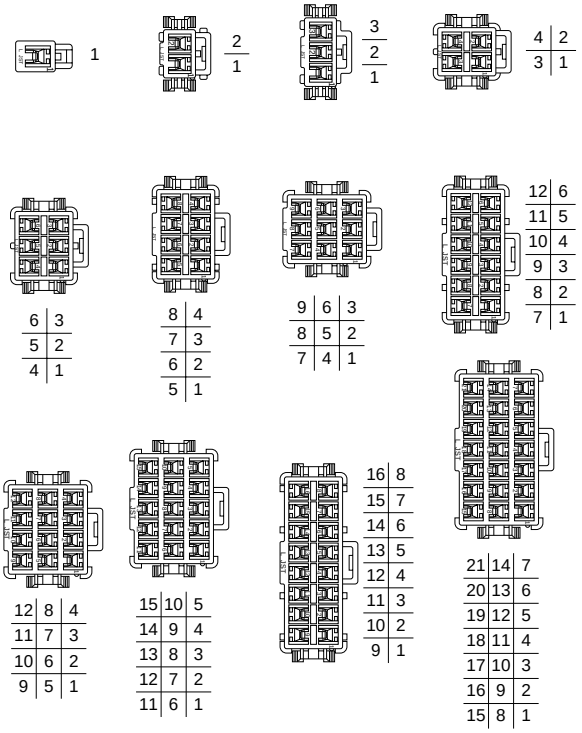
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYM-01T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-01-05	APLMK SYF/M01-05
SYF-01T-P0.5A		*MKS-SC-YL	SC/SYF/M-01-05	APLSC SYF/M01-05
SYM-41T-P0.5A		MKS-L	MK/SYF/M-41-05	APLMK SYF/M41-05
SYF-41T-P0.5A		*MKS-SC-YL	SC/SYF/M-41-05	APLSC SYF/M41-05

*Note: *Strip-crimp applicator*

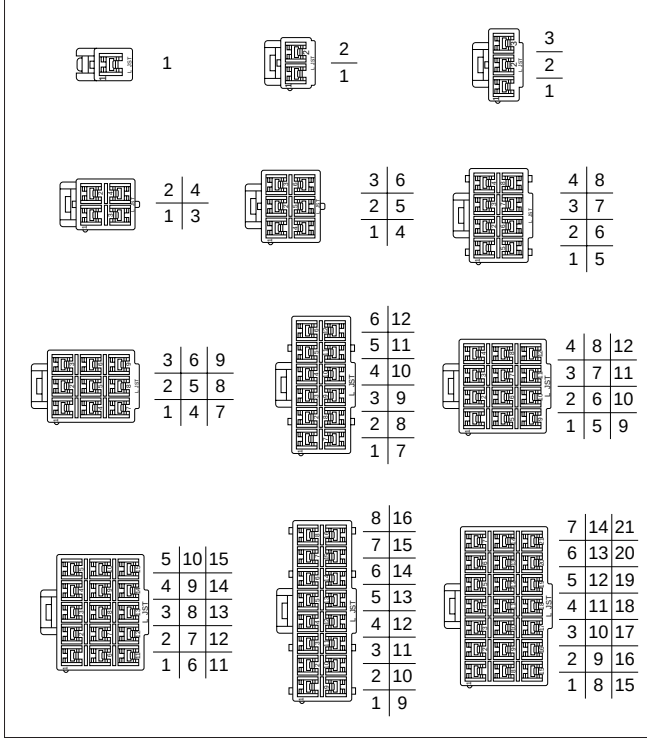
Contact position location numbers



Receptacle housing

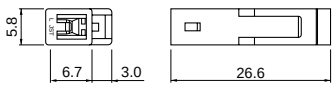
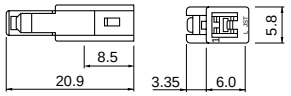
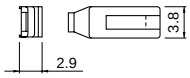
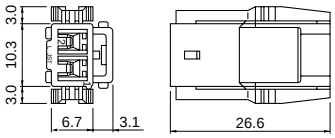
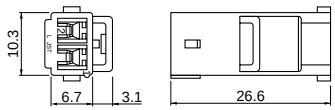
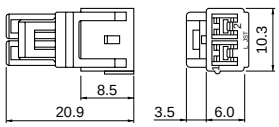
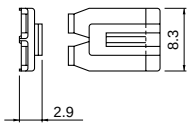
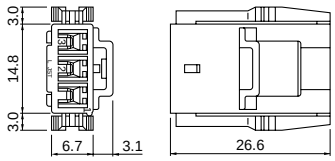
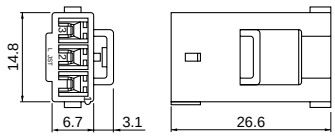
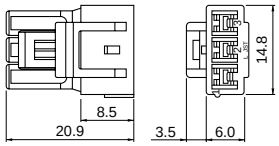
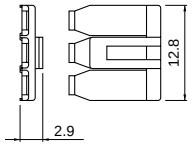


Plug housing



Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

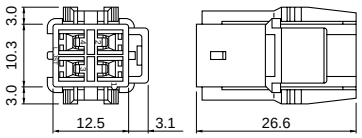
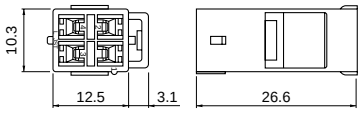
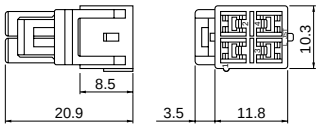
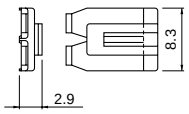
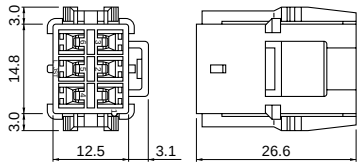
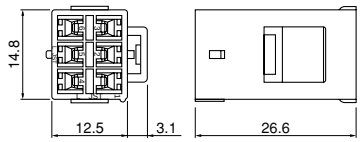
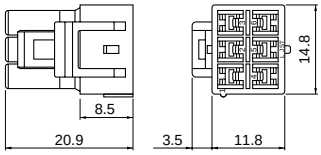
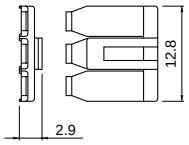
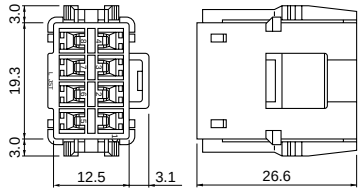
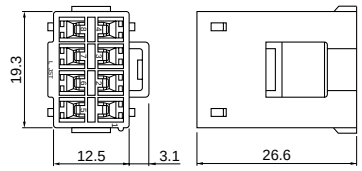
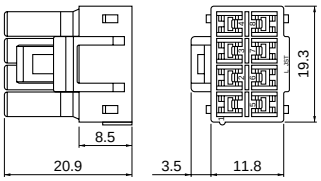
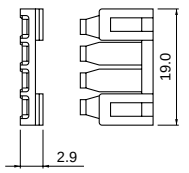
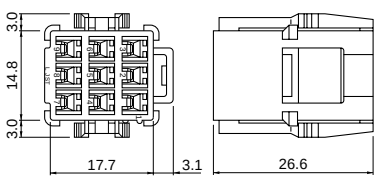
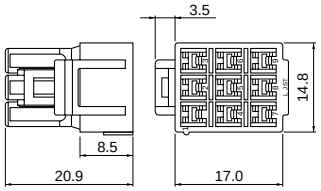
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q´ty / bag	Plug housing(for socket contact)	Q´ty / bag	Retainer	Q´ty / bag
1	300V	7A (10A)	**YLR-01VF** 	500	**YLP-01V** 	500	**YLS-01V** 	1,000
2	300V	7A (10A)	**YLR-02V**  **YLR-02VF** 	500	**YLP-02V** 	500	**YLS-02V** 	1,000
3	300V	6A (9A)	**YLR-03V**  **YLR-03VF** 	500	**YLP-03V** 	500	**YLS-03V** (commonly used for 3-circuit housing and 6-circuit housing) 	1,000

RoHS compliance

Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)

Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

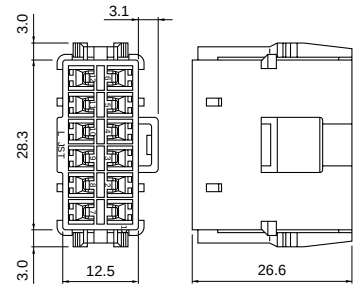
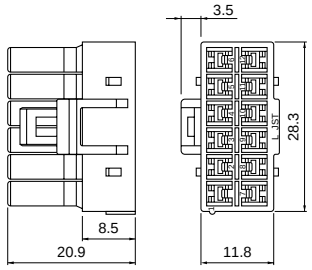
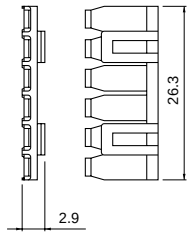
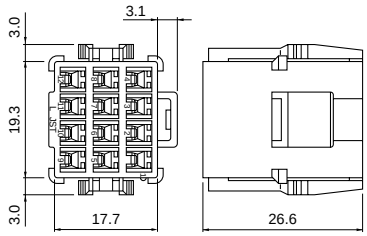
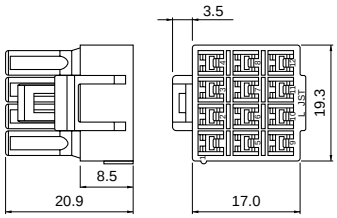
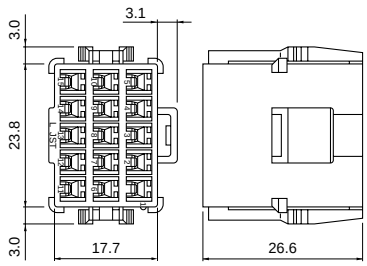
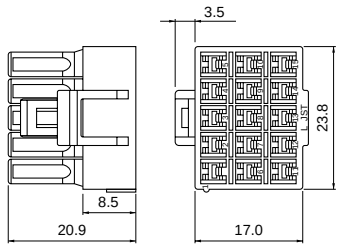
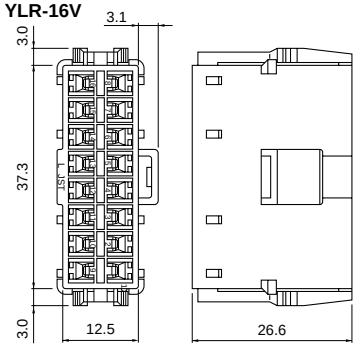
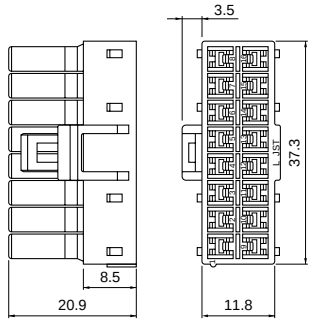
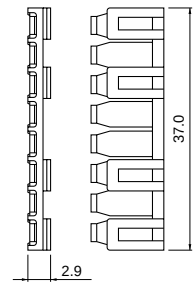
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q´ty / bag	Plug housing(for socket contact)	Q´ty / bag	Retainer	Q´ty / bag
4	300V	6A (9A)	**YLR-04V**  **YLR-04VF** 	500	**YLP-04V** 	500	**YLS-02V** 	1,000
6	300V	5A (8A)	**YLR-06V**  **YLR-06VF** 	500	**YLP-06V** 	500	**YLS-03V** (commonly used for 3-circuit housing and 6-circuit housing) 	1,000
8	300V	4A (7A)	**YLR-08V**  **YLR-08VF** 	250	**YLP-08V** 	500	**YLS-08V** 	1,000
9	300V	4A (6A)	**YLR-09V** 	250	**YLP-09V** 	500	—	—

RoHS compliance

Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)

Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

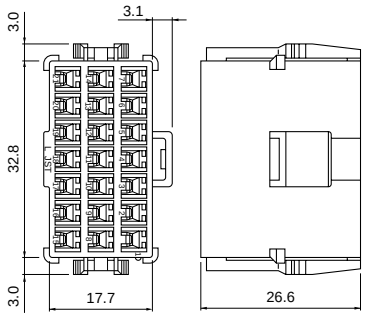
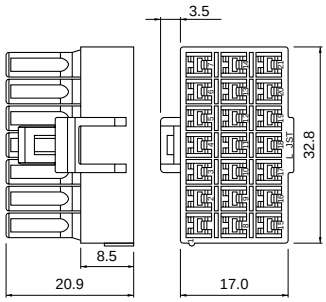
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty / bag	Plug housing(for socket contact)	Q'ty / bag	Retainer	Q'ty / bag
12	300V	3A (6A)	**YLR-12VA** 	200	**YLP-12VA** 	200	**YLS-12V** 	1,000
			YLR-12V 	200	**YLP-12V** 	200	—	—
15	300V	3A (5A)	**YLR-15V** 	200	**YLP-15V** 	200	—	—
16	300V	3A (5A)	**YLR-16V** 	100	**YLP-16V** 	200	**YLS-16V** 	1,000

RoHS compliance

Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)

Housing

Material: Housing...PA 66, UL94V-0, white

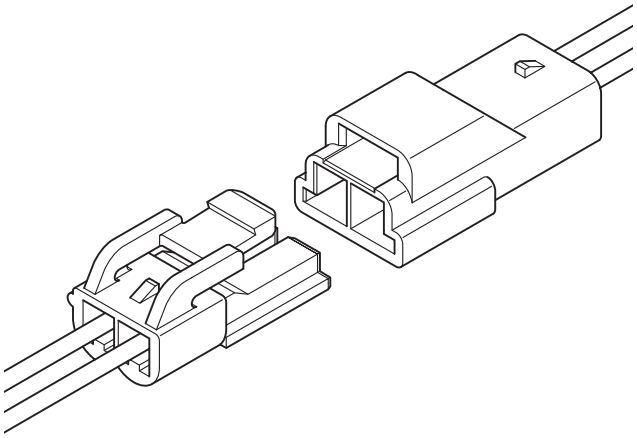
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty / bag	Plug housing(for socket contact)	Q'ty / bag	Retainer	Q'ty / bag
21	300V	3A (5A)	**YLR-21V** 	100	**YLP-21V** 	200	—	—

RoHS compliance

Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)

YLN CONNECTOR

4.5mm pitch/Disconnectable Crimp style Wire-to-wire connectors



The YLN connector adds variations in shape to the existing color variations of the YL connector in order to improve identification of connectors. Moreover, this connector has a mechanism to prevent incomplete mating by utilizing the inertial force generated when the plug and receptacle are mated and therefore, ensures complete mating.

- ***Design to prevent incidental mating with the YL connector***
- ***Inertial force mechanism***
- ***Interchangeability***
- ***Finger friendly design***

Specifications

- Current rating: 10A max. AC, DC
  (7A when retainers are mounted)
- Voltage rating: 300V max. AC, DC
- Temperature range: -25˚C to +90˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
  After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
  0.13 to 1.25mm^2

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Note: The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit : A

Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	7	5	4	3	2
3	9	6	4	4	3	2
4	9	6	4	4	3	2
6	8	5	3	3	2	2

Note: Secondary retainers cannot be used with AWG #16 wires.

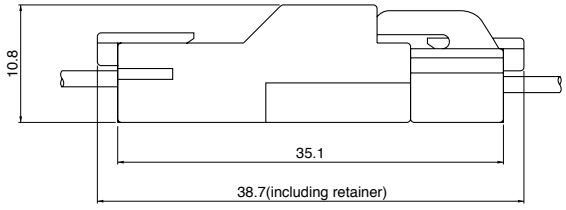
Standards

Recognized E60389

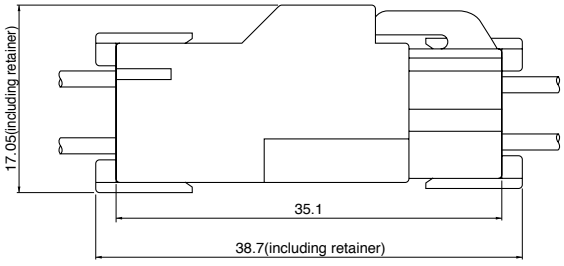
Certified LR20812

Assembly layout

(2, 3 circuits)



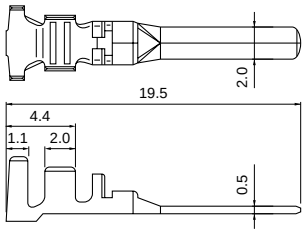
(4, 6 circuits)



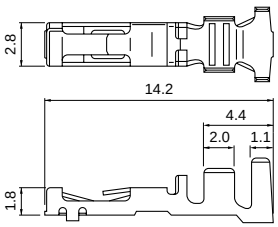
YLN CONNECTOR

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm²	AWG #		
SYM-01T-P0.5A	SYF-01T-P0.5A	0.13 ～ 0.5	26 ～ 20	1.3 ～ 2.5	4,000 (SYM-01T-P0.5A 5,000)
SYM-41T-P0.5A	SYF-41T-P0.5A	0.5 ～ 1.25	20 ～ 16	2.0 ～ 3.4	
		0.3+0.3 ～ 0.5+0.5	22+22 ～ 20+20	1.5+1.5 ～ 2.0+2.0	

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Note: 1. Contact JST for special products.

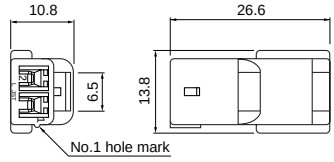
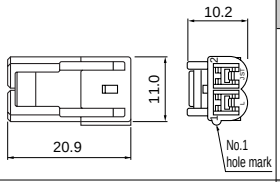
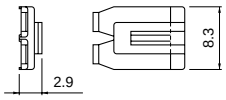
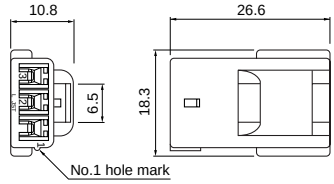
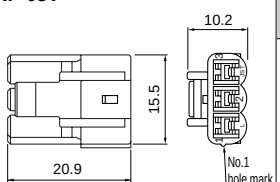
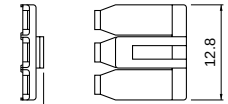
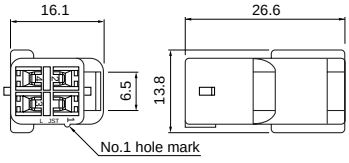
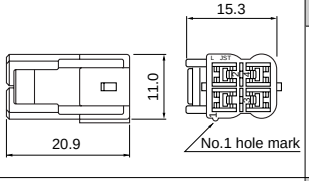
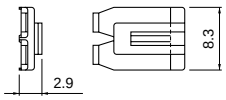
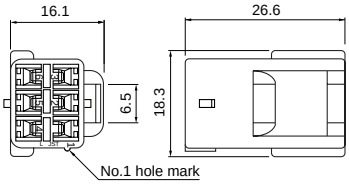
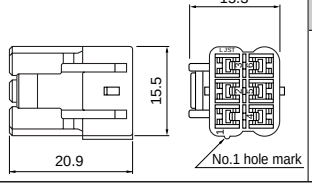
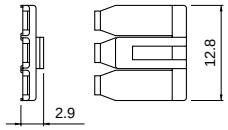
2. Retainers cannot be used with electric wire whose insulation O.D. exceeds 2.7mm and AWG #16.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYM-01T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-01-05	APLMK SYF/M01-05
SYF-01T-P0.5A		*MKS-SC-YL	SC/SYF/M-01-05	APLSC SYF/M01-05
SYM-41T-P0.5A		MKS-L	MK/SYF/M-41-05	APLMK SYF/M41-05
SYF-41T-P0.5A		*MKS-SC-YL	SC/SYF/M-41-05	APLSC SYF/M41-05

*Note: *Strip-crimp applicator*

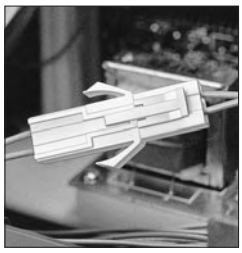
Housing

Material: Housing...PA 66, UL94V-0, natural (white)
Retainer...Glass-filled PA 66, UL94V-0, natural (ivory)

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty/ bag	Plug housing(for socket contact)	Q'ty/ bag	Retainer	Q'ty/ bag
2	300V	7A (10A)	**YLNR-02VF** 	250	**YLNP-02V** 	500	**YLS-02V** (Used with both housings with 2 and 4 circuits) 	1,000
3	300V	6A (9A)	**YLNR-03VF** 	250	**YLNP-03V** 	500	**YLS-03V** (Used with both housings with 3 and 6 circuits) 	1,000
4	300V	6A (9A)	**YLNR-04VF** 	250	**YLNP-04V** 	250	**YLS-02V** (Used with both housings with 2 and 4 circuits) 	1,000
6	300V	5A (8A)	**YLNR-06VF** 	200	**YLNP-06V** 	200	**YLS-03V** (Used with both housings with 3 and 6 circuits) 	1,000

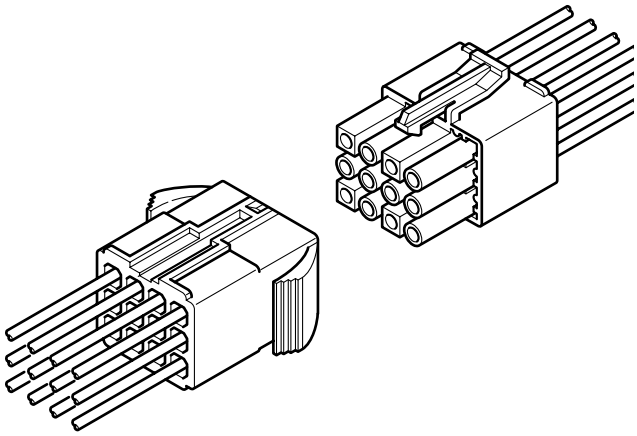
RoHS compliance

Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)



EL CONNECTOR

4.5mm pitch/Disconnectable Crimp style Wire-to-wire connectors



The contacts for the compact EL connector can be easily inserted into the connector housings. The plug housing and the receptacle housing can be smoothly mated even if they are mechanically distorted.

- ***Easy insertion and secure installation of contacts***
- ***A smooth connection even when pried during mating***
- ***Durable arm lock mechanism***
- ***Two contact styles***
- ***Interchangeability with ML connector***

Specifications

- Current rating: 10A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -25˚C to +90˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
  After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
  0.13 to 1.25mm^2
- Applicable panel thickness: 0.8 to 2.0mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

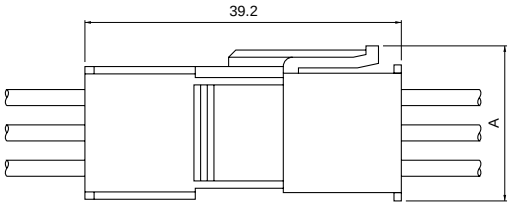
Current unit : A

Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	6	5	4	4	3
3	10	6	5	4	4	3
4	10	6	5	4	4	3
6	8	5	4	3	3	3
9	6	4	3	3	2	2
12	6	4	3	3	2	2
15	6	4	3	3	2	2

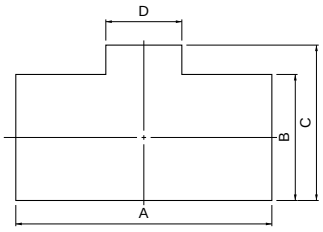
Standards

Recognized E60389
Certified LR20812
R75052

Assembly layout and Panel layout



Circuits	Dimensions A (mm)
2 ～ 4 (Single-line arrangement)	10.4
4 (Double-line arrangement)	15.0
6	14.9
9 ～ 15	19.4

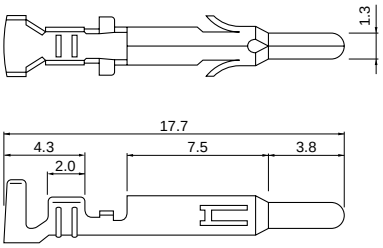


Circuits	Receptacle housing Model No.	Panel hole dimensions (mm) General tolerance ±0.13				Applicable panel thickness (mm)
		A	B	C	D	
2	**ELR-02V**	15.0	6.0	6.85	5.2	0.8～2.0
3	**ELR-03V**	19.7	6.0	6.85	5.2	
4	**ELR-04V**	24.2	6.0	6.85	5.2	
	ELR-04NV	15.6	10.6	11.6	5.2	
6	**ELR-06V**	19.7	10.2	11.1	5.2	
9	**ELR-09V**	19.7	14.8	15.7	5.2	
12	**ELR-12V**	24.2	14.8	15.7	5.2	
15	**ELR-15V**	28.7	14.8	15.7	5.2	

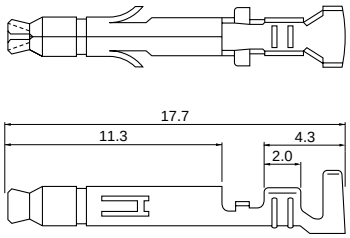
Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q´ty/reel
Pin contact	Socket contact	mm²	AWG #		
SLM-01T-P1.3E	SLF-01T-P1.3E	0.13 ～ 0.5	26 ～ 20	1.3 ～ 2.7	6,000
SLM-41T-P1.3E	SLF-41T-P1.3E	0.5 ～ 1.25	20 ～ 16	1.9 ～ 3.4	4,000
*SLM-42T-P1.3E	*SLF-42T-P1.3E	0.3+0.3 ～ 0.5+0.5	22+22 ～ 20+20	1.7+1.7 ～ 2.0+2.0	

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

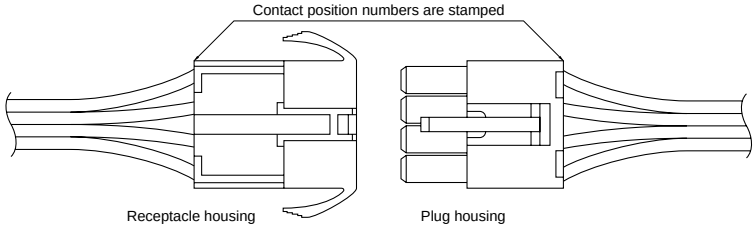
RoHS compliance

*Note: 1. Contact denoted by * is used for two wires.*
2. Contact JST for special products.
3. Contact JST for brass products.

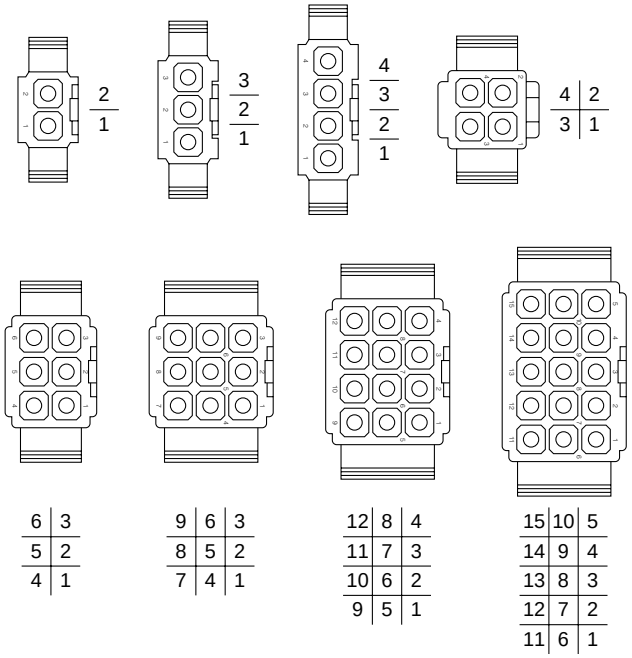
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SLM-01T-P1.3E	AP-K2N	MKS-L	MK/SLF/M-01-13E	APLMK SLF/M01-13E
SLF-01T-P1.3E		*MKS-SC	SC/SLF/M-01-13E	APLSC SLF/M01-13E
SLM-42T-P1.3E		MKS-L	MK/SLF/M-42-13E	APLMK SLF/M42-13E
SLF-42T-P1.3E		—	—	—
SLM-41T-P1.3E		MKS-L	MK/SLF/M-41-13E	APLMK SLF/M41-13E
SLF-41T-P1.3E		*MKS-SC	SC/SLF/M-41-13E	APLSC SLF/M41-13E

*Note: *Strip-crimp applicator*

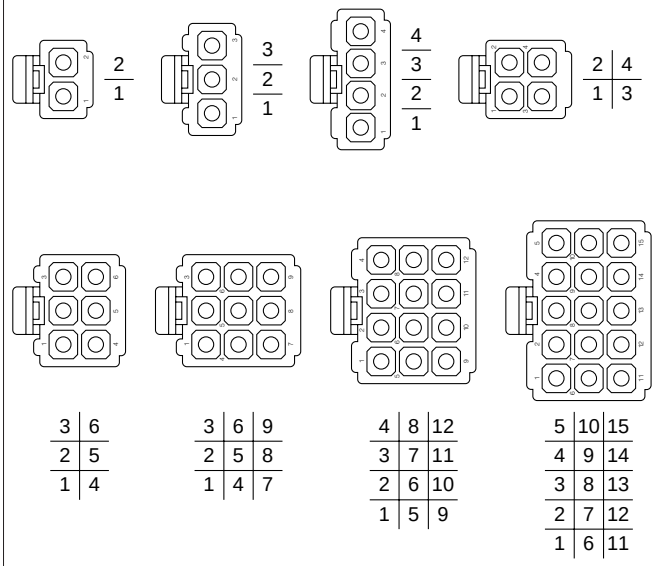
Contact position location numbers



Receptacle housing

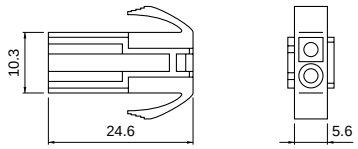
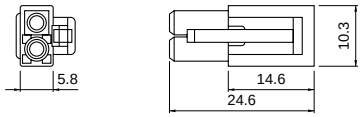
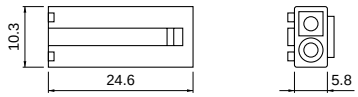
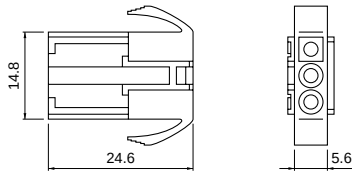
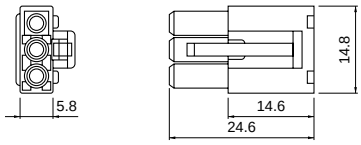
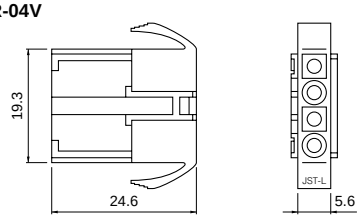
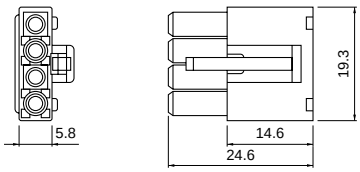
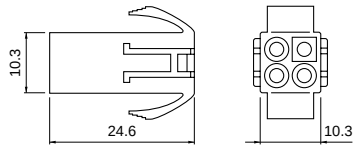
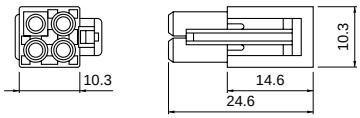
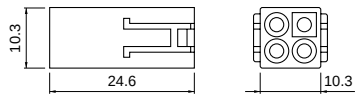
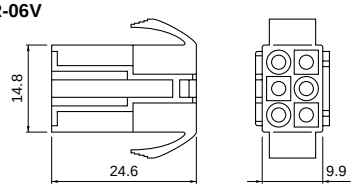
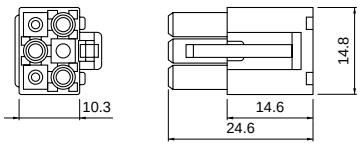


Plug housing



Housing

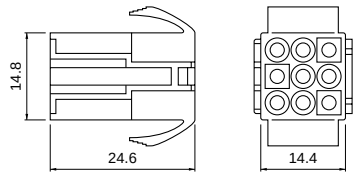
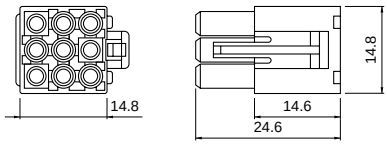
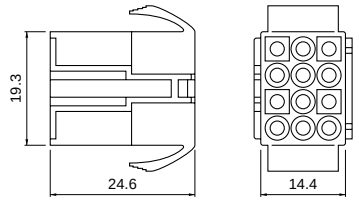
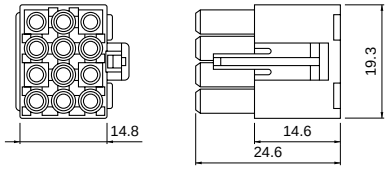
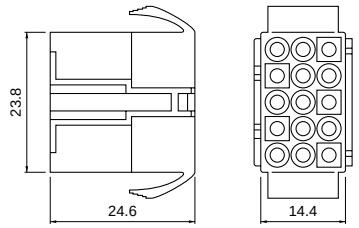
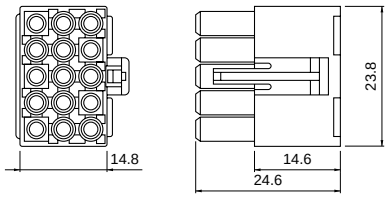
Material: PA 6, UL94V-0, white

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q´ty/ bag	Plug housing(for socket contact)	Q´ty/ bag
2	300V	10A	**ELR-02V** 	500	**ELP-02V** 	500
			ELR-02VF 	500		
3	300V	10A	**ELR-03V** 	500	**ELP-03V** 	500
4	300V	10A	**ELR-04V** 	500	**ELP-04V** 	500
			ELR-04NV 	500	**ELP-04NV** 	500
			ELR-04NVF 			
6	300V	8A	**ELR-06V** 	500	**ELP-06V** 	500

RoHS compliance

Housing

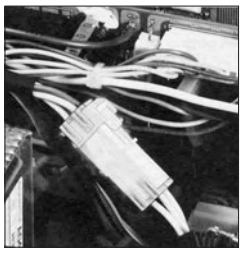
Material: PA 6, UL94V-0, white

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q´ty/ bag	Plug housing(for socket contact)	Q´ty/ bag
9	300V	6A	**ELR-09V** 	500	**ELP-09V** 	500
12	300V	6A	**ELR-12V** 	500	**ELP-12V** 	500
15	300V	6A	**ELR-15V** 	500	**ELP-15V** 	500

RoHS compliance

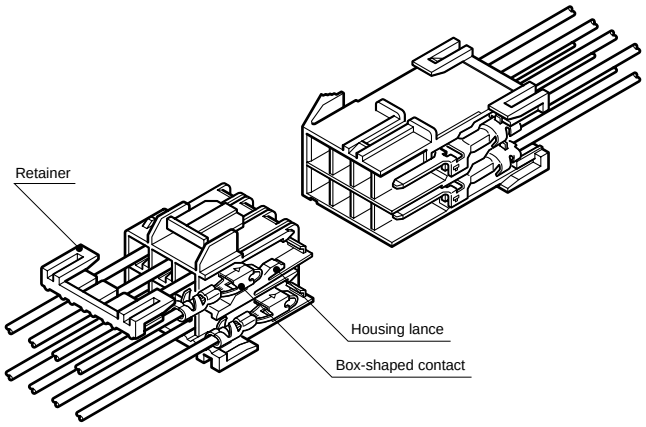
Note: 1. ELR-02VF and ELR-04NVF are exclusively for free hanging. The other circuits can be used either for panel mounted or free hanging. The panel hole dimensions are given on the next page.

2. Contact JST for special products.



ZL CONNECTOR

5.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



ZL connectors are reliable, smoothly mating wire-to-wire connectors.

- ***Housing lances***
- ***Retainer***
- ***Box-shaped contacts***
- ***Mountable on a variety of panels***

Specifications

- Current rating: 10A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -25˚C to +90˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
  After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
  0.13 to 1.25mm^2
- Applicable panel thickness: 0.7 to 2.4mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector.
The table below lists the current rating as a function of the number of circuits and wire size.

Current unit: A

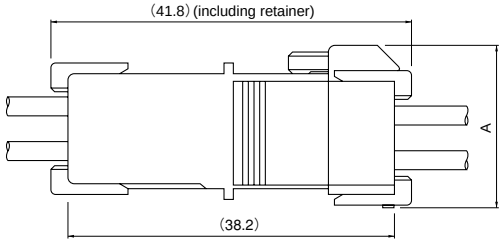
Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	6	5	4	3	2
4	9	5	4	3	3	2
6	8	4	3	3	2	2
8	6	4	3	3	2	2
12	6	4	3	3	2	2
16	5	3	2	2	1	1

Standards

Recognized E60389

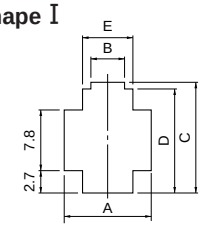
Certified LR20812

Assembly layout and Panel layout

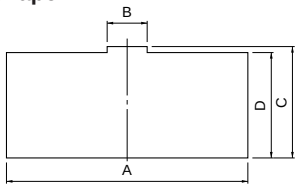


Circuits	Dimensions A (mm)
2・4	18.2
6・8・12・16	17.5

Shape Ⅰ



Shape Ⅱ

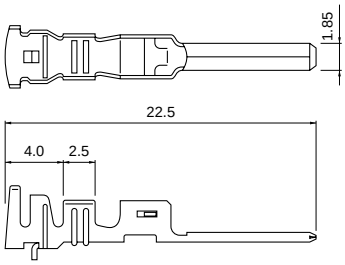


Circuits	Receptacle housing	Panel hole shape	Panel hole dimensions (mm) General tolerance ±0.13					Applicable panel thickness (mm)
			A	B	C	D	E	
2	**ZLR-02V**	Ⅰ	11.5	4.4	13.95	13.2	6.5	0.7 ～ 2.4
4	**ZLR-04V**	Ⅰ	16.5	5.2	13.95	13.2	11.6	
6	**ZLR-06V**	Ⅱ	21.5	5.2	13.95	13.2	—	
8	**ZLR-08V**	Ⅱ	26.5	5.2	13.95	13.2	—	
12	**ZLR-12V**	Ⅱ	36.5	5.2	13.95	13.2	—	
16	**ZLR-16V**	Ⅱ	46.5	5.2	13.95	13.2	—	

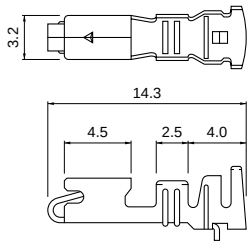
Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q´ty/ reel
Pin contact	Socket contact	mm²	AWG #		
SZM-01T-P0.7	**SZF-01T-P0.7**	0.13 ～ 0.5	26 ～ 20	1.3 ～ 2.7	3,000
SZM-41T-P0.7	**SZF-41T-P0.7**	0.75 ～1.25	18 ～16	1.9 ～ 3.1	
		0.3+0.3 ～ 0.5+0.5	22+22 ～ 20+20	1.7+1.7 ～ 2.0+2.0	

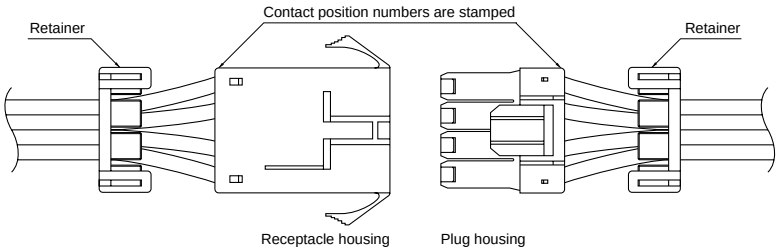
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

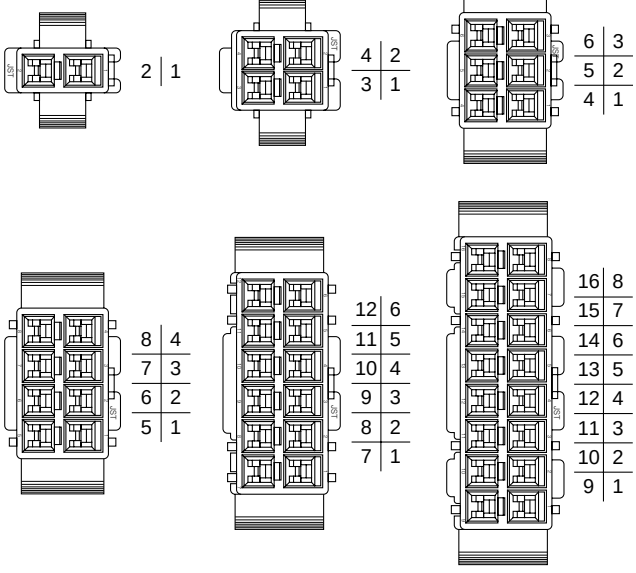
Note: 1. Contact JST for special products.
2. Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SZM-01T-P0.7	AP-K2N	MKS-L	MK/SZF/M-01-07	APLMK SZF/M01-07
SZF-01T-P0.7		—	—	—
SZM-41T-P0.7		MKS-L	MK/SZF/M-41-07	APLMK SZF/M41-07
SZF -41T-P0.7		—	—	—

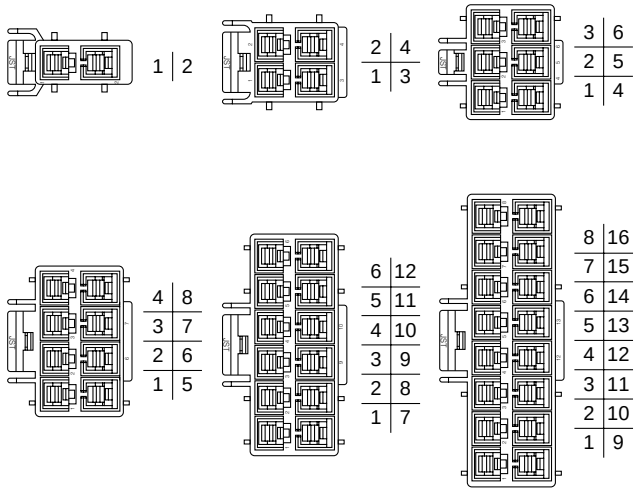
Contact position location numbers



Receptacle housing

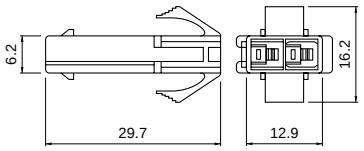
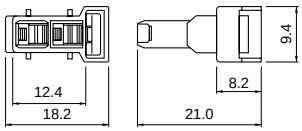
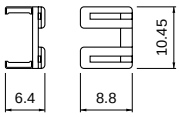
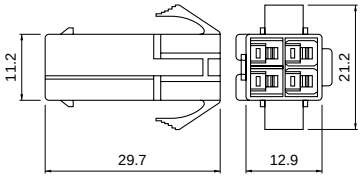
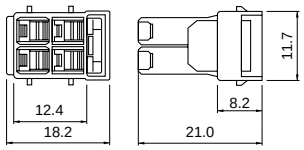
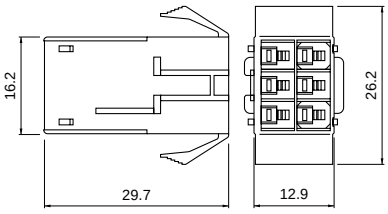
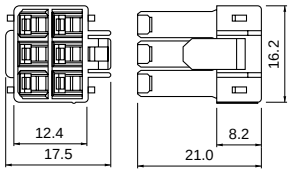
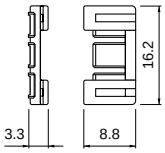
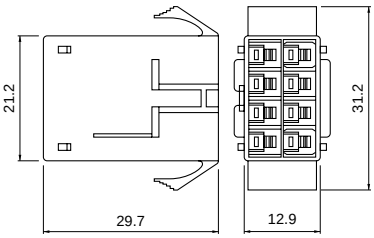
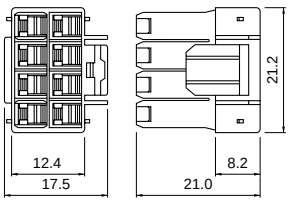
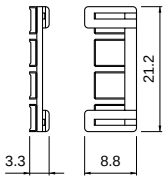


Plug housing



Contact

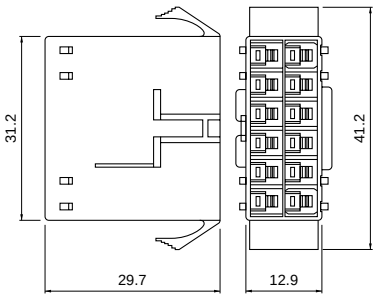
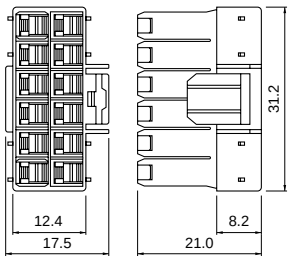
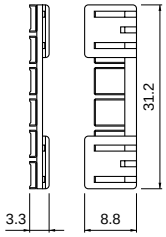
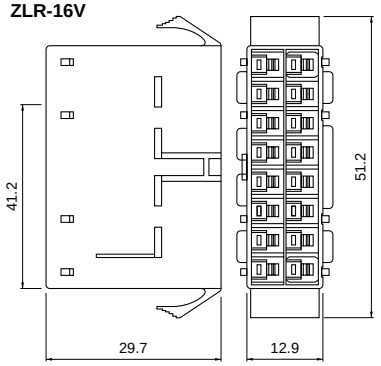
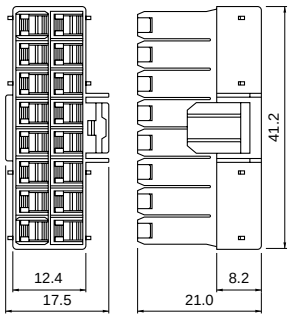
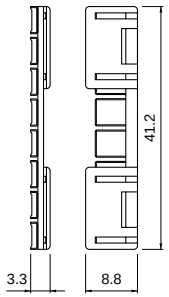
Material: Housing...PA 6, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty/ bag	Plug housing(for socket contact)	Q'ty/ bag	Retainer	Q'ty/ bag
2	300V	10A	**ZLR-02V** 	500	**ZLP-02V** 	500	**ZLS-02V** (Used with both housings with 2 and 4 circuits) 	1,000
4	300V	9A	**ZLR-04V** 	500	**ZLP-04V** 	500		
6	300V	8A	**ZLR-06V** 	500	**ZLP-06V** 	500	**ZLS-03V** 	1,000
8	300V	6A	**ZLR-08V** 	500	**ZLP-08V** 	500	**ZLS-08V** 	1,000

RoHS compliance

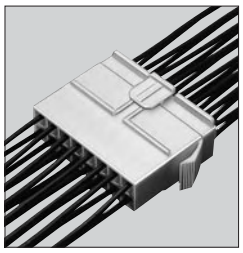
Contact

Material: Housing...PA 6, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty/ bag	Plug housing(for socket contact)	Q'ty/ bag	Retainer	Q'ty/ bag
12	300V	6A	**ZLR-12V** 	200	**ZLP-12V** 	200	**ZLS-12V** 	1,000
16	300V	5A	**ZLR-16V** 	200	**ZLP-16V** 	200	**ZLS-16V** 	1,000

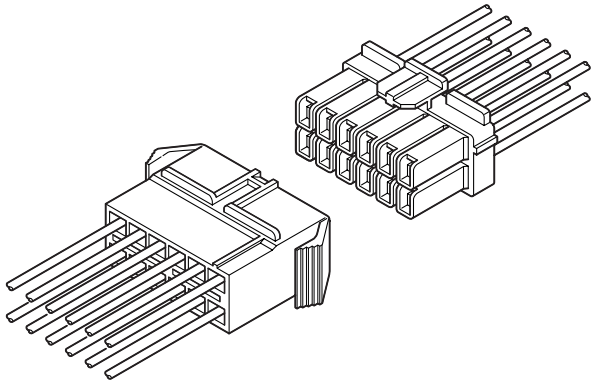
RoHS compliance

Note: 1. ZL connectors with any number of circuits can be used either panel mounted or free hanging. The panel hole dimensions are given on the next page.
2. Contact JST for special products.



XL CONNECTOR

5.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



XL connectors are reliable wire-to-wire connectors, used for such electrical and electronic equipment as home appliances, vending machines, and office machines.

- ***Reliable housing construction***
- ***Easy contact insertion***
- ***Box-shaped contact***
- ***Two kinds of connections***

Specifications

- Current rating: 10A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -25˚C to +90˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
  After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
  0.13 to 1.25mm²
- Applicable panel thickness: 0.7 to 2.4mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector.
The table below lists the current rating as a function of the number of circuits and wire size.

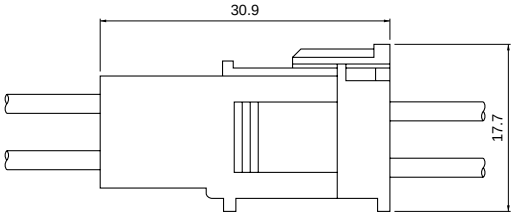
Current unit: A

Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	6	5	4	3	3
4	9	5	4	3	3	2
8	6	4	3	3	2	2
12	6	4	3	3	2	2
16	5	3	2	2	1	1

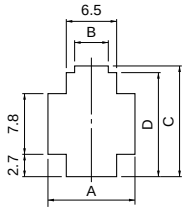
Standards

Recognized E60389
Certified LR20812
R75052

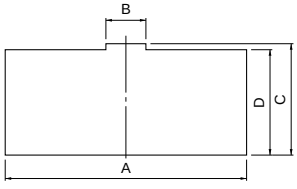
Assembly layout and Panel layout



Shape Ⅰ



Shape Ⅱ

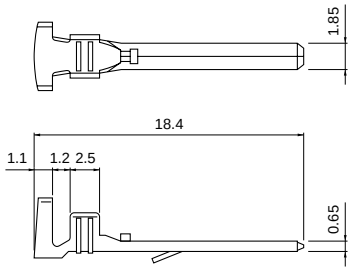


Circuits	Receptacle housing	Panel hole shape	Panel hole dimensions (mm) General tolerance ±0.13				Applicable panel thickness (mm)
			A	B	C	D	
2	**XLR-02V**	Ⅰ	11.5	4.4	13.95	13.2	0.7 ～ 2.4
4	**XLR-04V**	Ⅱ	16.5	5.2	13.95	13.2	
8	**XLR-08V**	Ⅱ	26.5	5.2	13.95	13.2	
12	**XLR-12V**	Ⅱ	36.5	5.2	13.95	13.2	
16	**XLR-16V**	Ⅱ	46.5	5.2	13.95	13.2	

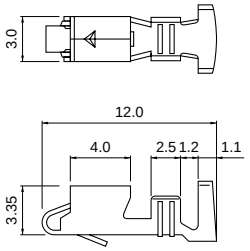
Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm²	AWG #		
SYM-01T-P0.7	**SXF-01T-P0.7**	0.13 ～ 0.5	26 ～ 20	1.3 ～ 2.7	Pin contact SYM-01T-P0.7 : 6,000 SYM-41T-P0.7 : 4,000 Socket contact: : 3,000
SYM-41T-P0.7	**SXF-41T-P0.7**	0.5 ～1.25	20 ～16	1.9 ～ 3.1	
		0.3+0.3～ 0.5+0.5	22+22～ 20+20	1.7+1.7～ 2.0+2.0	

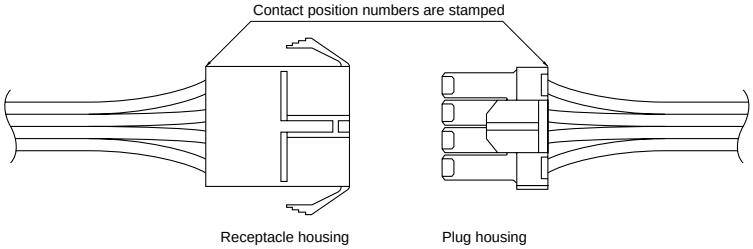
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

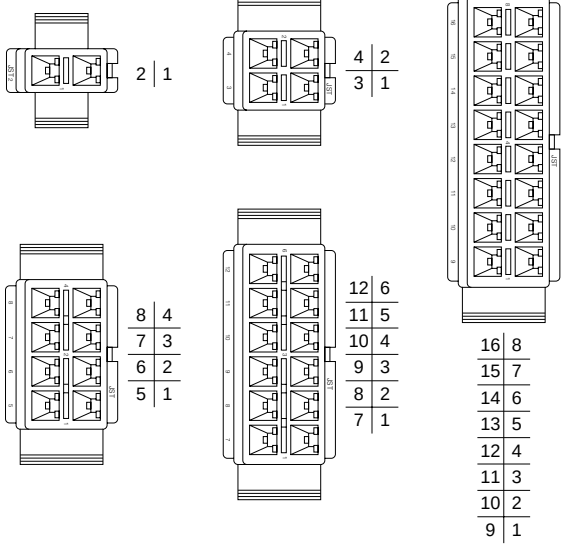
Note: 1. Contact JST for special products.
2. Contact JST for brass products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYM-01T-P0.7	AP-K2N	MKS-L	MK/SYM-01-07	APLMK SYM01-07
		–	–	–
SXF-01T-P0.7		MKS-L	MK/SXF-01-07	APLMK SXF01-07
		–	–	–
SYM-41T-P0.7		MKS-L	MK/SYM-41-07	APLMK SYM41-07
		–	–	–
SXF-41T-P0.7		MKS-L	MK/SXF-41-07	APLMK SXF41-07
		–	–	–

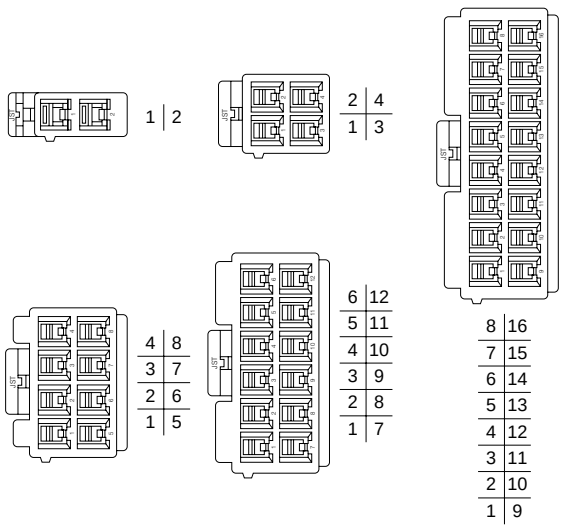
Contact position location numbers



Receptacle housing

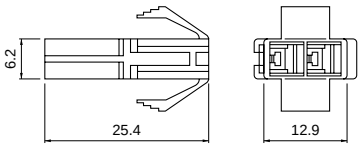
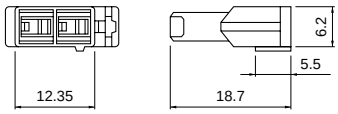
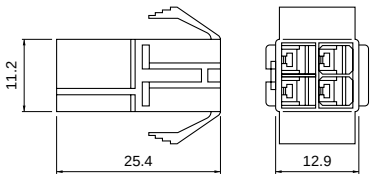
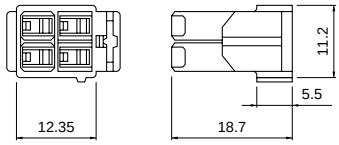
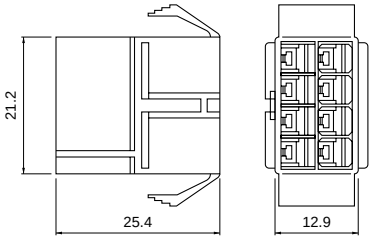
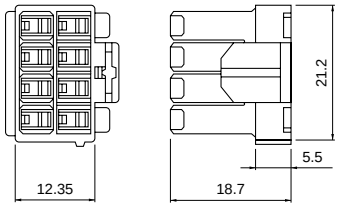
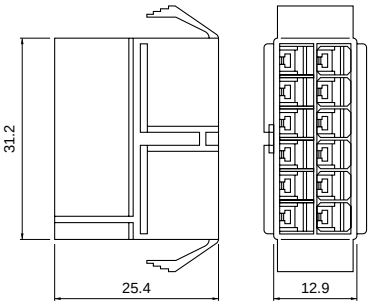
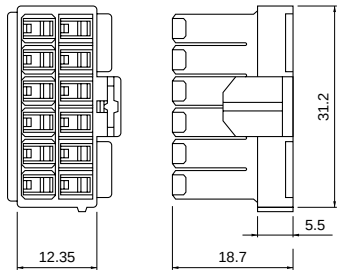
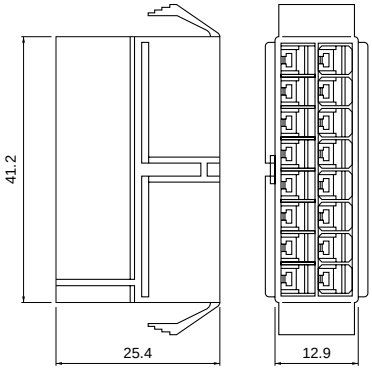
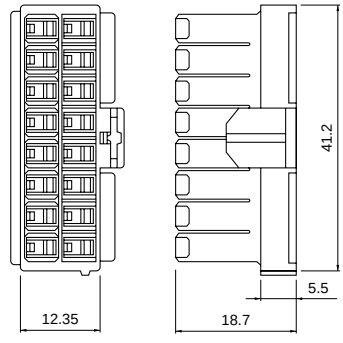


Plug housing



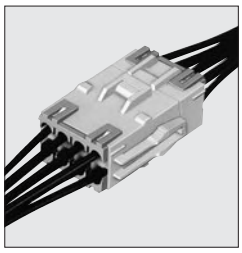
Housing

Material: PA 66, UL94V-0, white

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty/ bag	Plug housing(for socket contact)	Q'ty/ bag
2	300V	10A	**XLR-02V** 	500	**XLP-02V** 	500
4	300V	9A	**XLR-04V** 	500	**XLP-04V** 	500
8	300V	6A	**XLR-08V** 	500	**XLP-08V** 	500
12	300V	6A	**XLR-12V** 	200	**XLP-12V** 	200
16	300V	5A	**XLR-16V** 	100	**XLP-16V** 	200

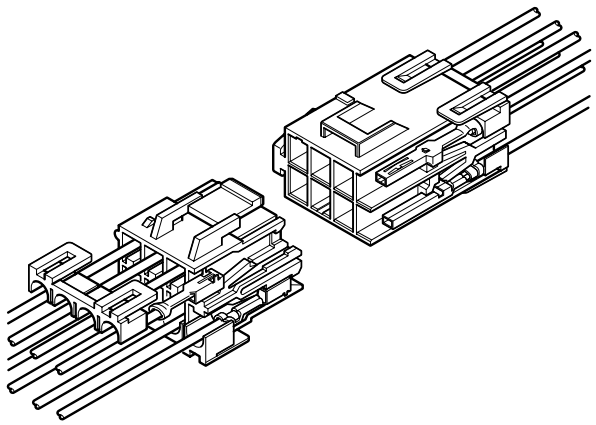
RoHS compliance

Note: 1. XL connectors with any number of circuits can be used either panel mounted or free hanging. The panel hole dimensions are given on the next page.
2. Contact JST for special products.



VL CONNECTOR

6.2mm pitch/Disconnectable Crimp style Wire-to-wire connectors



The VL connector is a 6.2mm pitch wire-to-wire connector designed for circuits requiring up to 20A (1 or 2-circuit with AWG #12 wire).

- ***Housing lances for contact retention***
- ***Secondary retainer***
- ***Suited for circuits with high power requirements***
- ***Panel lock construction***

Standards

Recognized E60389

Certified LR20812

R9351103

Specifications

- Current rating: 20A AC, DC max.
- Voltage rating: 600V AC, DC max.(300V in accordance with the Electrical Appliance and Material Safety Law in Japan)
- Temperature range: -25˚C to +90˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max. After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 2,000V AC/minute
- Applicable wire: AWG #22 to #12 0.3 to 3.5mm^2
- Applicable panel thickness: 0.5 to 2.0mm

* RoHS compliant products are published.

* Temperature Range:
The aforementioned temperature range of this connector is described in JST Standard Product Specification.
Maximum temperature registered in UL is 105˚C.

* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.

* Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

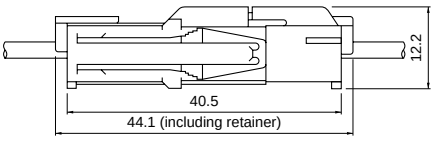
Current unit: A

Circuits	Wire size (AWG)					
	#12	#14	#16	#18	#20	#22
1	20	15	10	8	6	4
2	20	15	10	8	6	4
3	19	14	9	8	6	4
4	18	13	9	7	6	4
6	16	12	8	7	5	3
8	16	11	7	6	5	3
12	15	10	7	6	4	3

Assembly layout and Panel layout

(2, 3 and single-row 4 circuits)

<Inner-housing lock>



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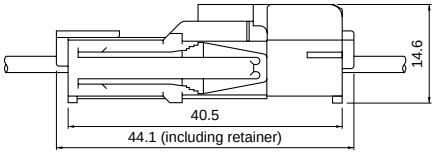
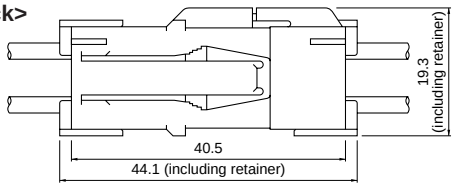


(4, 6, 8 and 12 circuits)

<Inner-housing lock>



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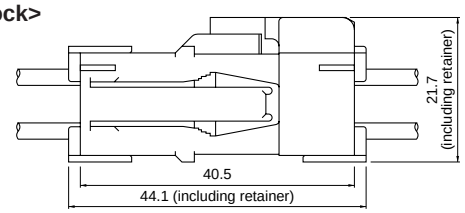
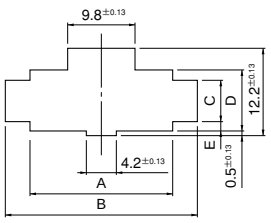
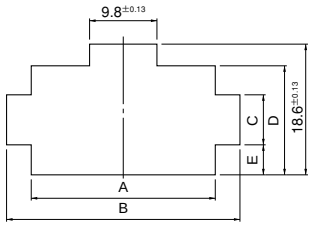


Shape Ⅰ



Shape Ⅱ

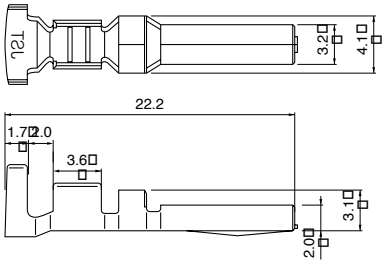


Circuits	Receptacle housing Model No.	Panel hole shape	Panel hole dimensions (mm) General tolerance A, B, D: ±0.13 C, E: ±0.1					Applicable panel thickness (mm)
			A	B	C	D	E	
2	**VLR-02V**	Ⅰ	13.8	20.6	5.7	8.5	1.4	0.5 ～ 2.0
3	**VLR-03V**	Ⅰ	20.0	26.8	5.7	8.5	1.4	
4	**VLR-04V**	Ⅱ	13.8	20.6	7.0	15.4	4.2	
4 (Single-row)	**VLR-04VN**	Ⅰ	26.2	33.0	5.7	8.5	1.4	
6	**VLR-06V**	Ⅱ	20.0	26.8	7.0	15.4	4.2	
8	**VLR-08V**	Ⅱ	26.2	33.0	7.0	15.4	4.2	
12	**VLR-12V**	Ⅱ	38.9	45.4	7.0	15.4	4.2	

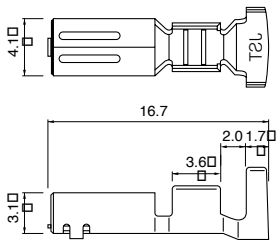
Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm²	AWG #		
*SVM-42T-P2.0	*SVF-42T-P2.0	0.3 ～ 1.25	22 ～ 16	1.7 ～ 3.2	2,000
		0.3+0.3～0.5+0.75	22+22～20+18	1.7+1.7～2.5+2.7	
SVM-61T-P2.0	SVF-61T-P2.0	0.5 ～ 2.0	20 ～ 14	1.9 ～ 3.4	
		0.5+0.5～0.75+1.25	20+20～18+16	1.9+1.9～2.1+2.7	
SVM-81T-P2.0	SVF-81T-P2.0	3.5	12	4.1	

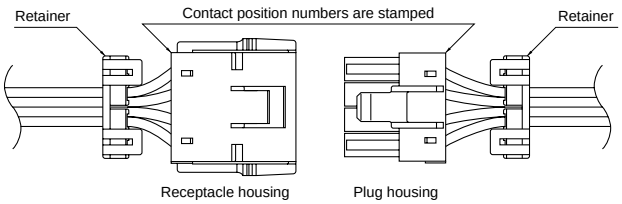
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

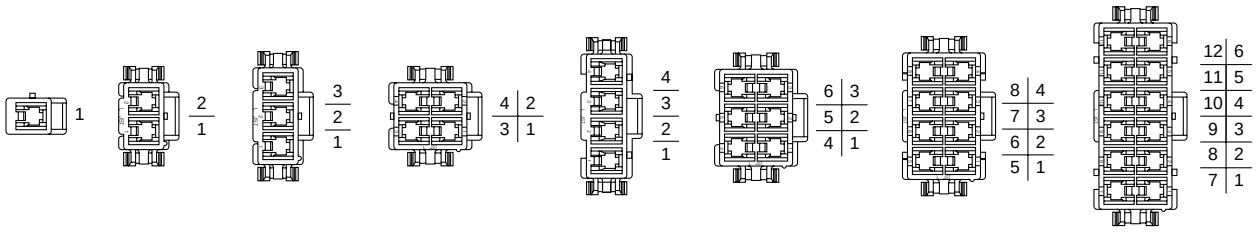
Note: 1. Contact JST for special products.
*2. *Marked products are not TÜV approved.*

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVM-42T-P2.0	AP-K2N	MKS-L	MK/SVF/M-42-20	APLMK SVF/M42-20
SVF-42T-P2.0		—	—	—
SVM-61T-P2.0		MKS-L	MK/SVF/M-61-20	APLMK SVF/M61-20
SVF-61T-P2.0		—	—	—
SVM-81T-P2.0		MKS-L	MK/SVF/M-81-20	APLMK SVF/M81-20
SVF-81T-P2.0		—	—	—

Contact position location numbers

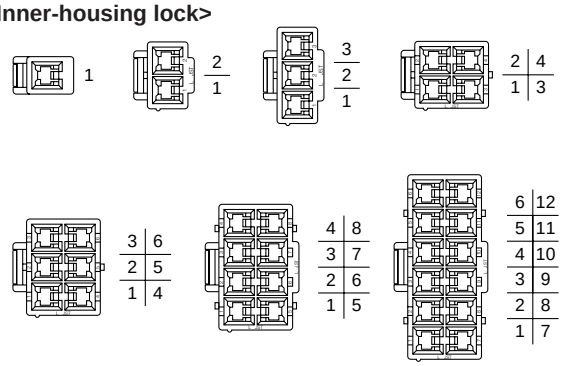


Receptacle housing



Plug housing

<Inner-housing lock>



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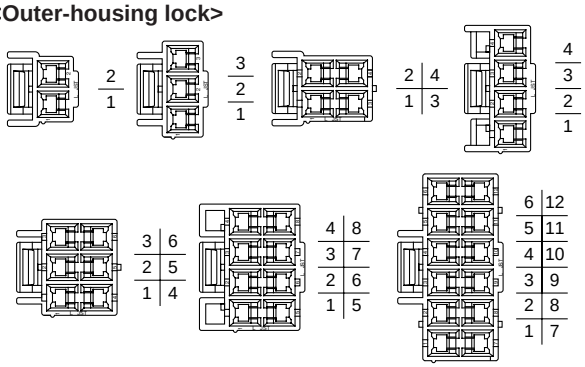
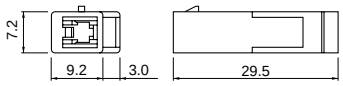
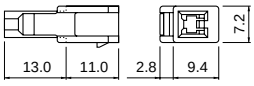
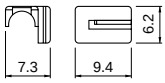
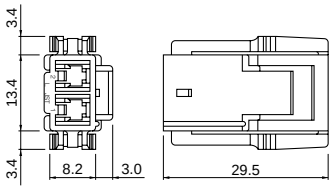
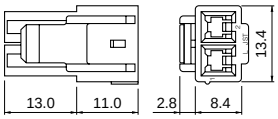
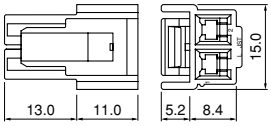
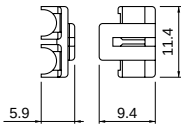
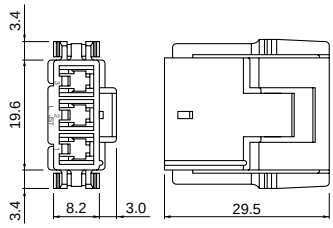
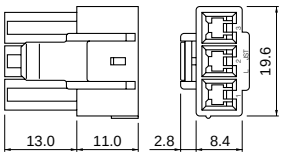
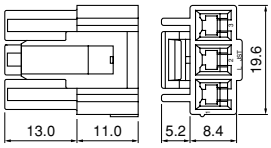
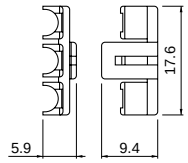
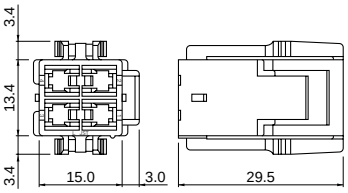
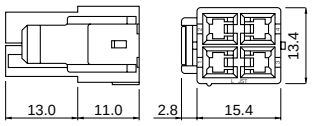
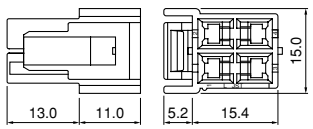
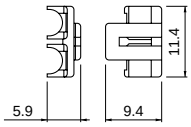
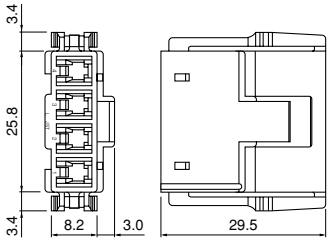
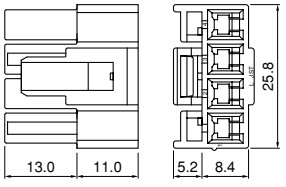
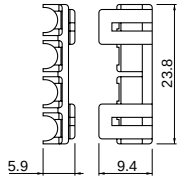


Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

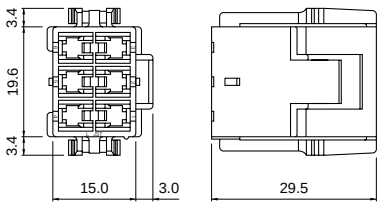
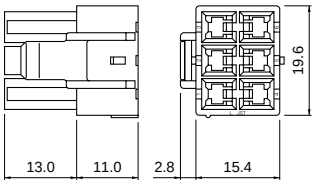
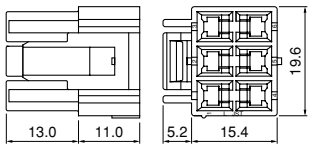
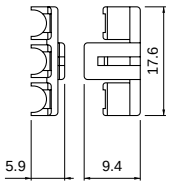
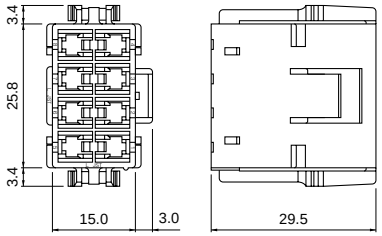
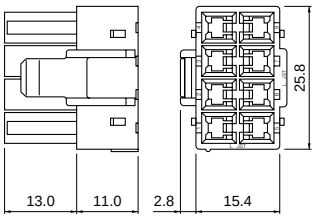
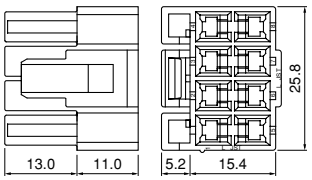
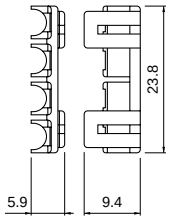
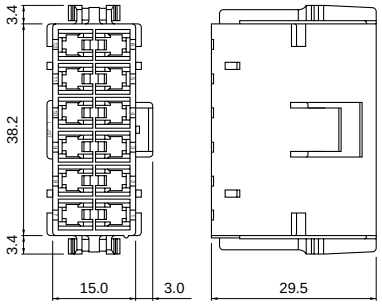
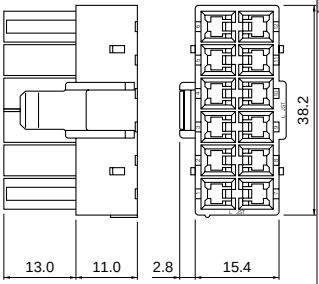
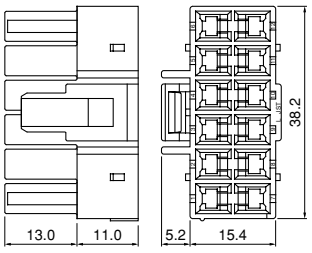
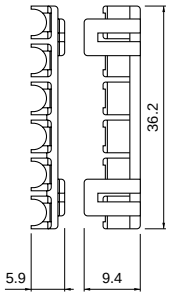
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty/ bag	Plug housing(for socket contact)	Q'ty/ bag	Retainer	Q'ty/ bag
1	600V	20A	**VLR-01VF** 	500	**VLP-01V** 	500	**VLS-01V** 	1,000
2	600V	20A	**VLR-02V** 	500	**VLP-02V**  **VLP-02V-1** 	500	**VLS-02V** (commonly used for 2-circuit housing and 4-circuit housing) 	1,000
3	600V	19A	**VLR-03V** 	500	**VLP-03V**  **VLP-03V-1** 	500	**VLS-03V** (commonly used for 3-circuit housing and 6-circuit housing) 	1,000
4	600V	18A	**VLR-04V** 	500	**VLP-04V**  **VLP-04V-1** 	500	**VLS-02V** 	1,000
			VLR-04VN 	500	**VLP-04VN-1** 	500	**VLS-08V** (commonly used for 4-circuit housing and 8-circuit housing) 	1,000

RoHS compliance

Note: 1. VLR-01VF is exclusively for free hanging. The other circuits can be used either for panel mounted or free hanging.
2. Contact JST for special products.

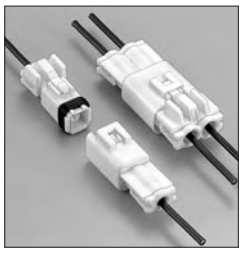
Housing

Material: Housing...PA 66, UL94V-0, white
Retainer...Glass-filled PA 66, UL94V-0, ivory

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty/ bag	Plug housing(for socket contact)	Q'ty/ bag	Retainer	Q'ty/ bag
6	600V	16A	**VLR-06V** 	500	**VLP-06V**  **VLP-06V-1** 	500	**VLS-03V** (commonly used for 3-circuit housing and 6-circuit housing) 	1,000
8	600V	16A	**VLR-08V** 	100	**VLP-08V**  **VLP-08V-1** 	200	**VLS-08V** (commonly used for 4-circuit housing and 8-circuit housing) 	1,000
12	600V	15A	**VLR-12V** 	100	**VLP-12V**  **VLP-12V-1** 	100	**VLS-12V** 	1,000

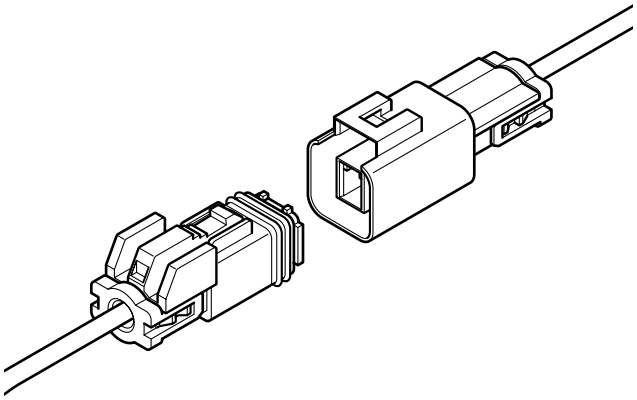
RoHS compliance

Note: Contact JST for special products.



MWP CONNECTOR

7.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



Waterproof wire-to-wire connector for electric power supply.

- ***Low insertion force contact***
- ***Housing lance***
- ***Inner-housing lock***
- ***Slider locking mechanism***
- ***Interchangeability***

Specifications ––––––––––––––––––

- Current rating: 7A AC, DC max.
- Voltage rating: 300V AC, DC max.
- Temperature range: -40˚C to +105˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/7m Ω max.
  After environmental testing/10m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #18
  0.13 to 0.75mm^2
  Insulation O.D./2.1 to 2.5mm
- Waterproof grade: Grade 4 ingress protection of JIS C 0920(IEC 60529 IPX4)

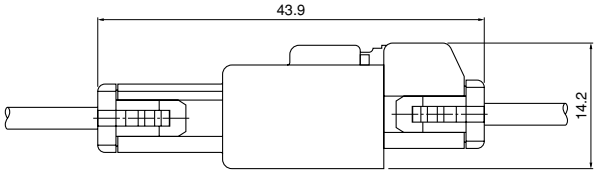
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Note: The current rating varies depending on the number of circuits and the wire size used in each connector.
The table below lists the current rating as a function of the number of circuits and wire size.

Current unit: A

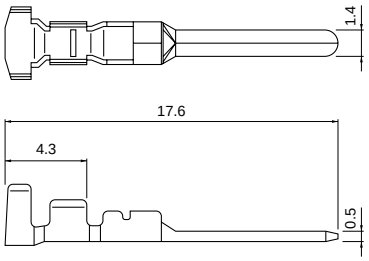
Circuits	Wire size (AWG)				
	#18	#20	#22	#24	#26
1	7	5	4	3	2
2	7	5	4	3	2

Assembly layout

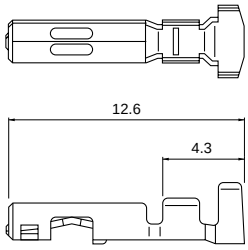


Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
Pin contact	Socket contact	mm²	AWG #		
SSM-01T-P1.4	**SSF-01T-P1.4**	0.13 ～ 0.5	26 ～ 20	2.1 ～ 2.5	6,000
SSM-21T-P1.4	**SSF-21T-P1.4**	0.3 ～ 0.75	22 ～ 18		

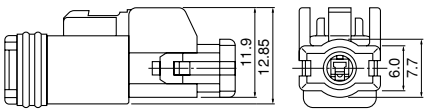
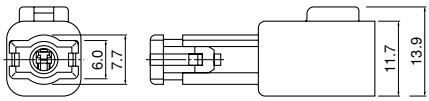
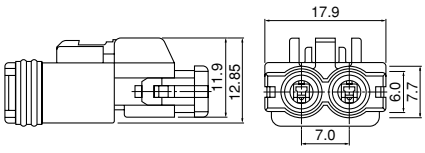
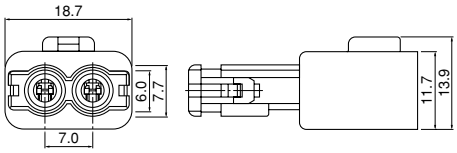
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance
Note: Contact JST for special products.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSM-01T-P1.4	AP-K2N	MKS-L	MK/SSF/M-01-14	APLMK SSF/M01-14
SSF-01T-P1.4		–	–	–
SSM-21T-P1.4		MKS-L	MK/SSF/M-21-14	APLMK SSF/M21-14
SSF-21T-P1.4		–	–	–

Housing

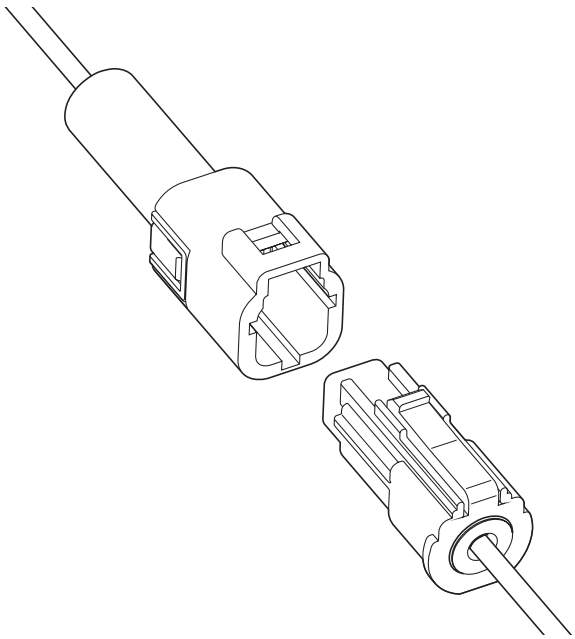
Material: PBT, UL94V-0, white

Circuits	Voltage rating	Current rating	Receptacle housing(for socket contact)	Q'ty/ box	Plug housing(for pin contact)	Q'ty/ box
1	300V	7A	**01R-MWPV-SSRR** 	252	**01P-MWPV-SSR** 	228
2	300V	7A	**02R-MWPV-SSRR** 	144	**02P-MWPV-SSR** 	144

RoHS compliance
Note: 1. Model ( )P-MWPV-SSR comes with the wire end seal and slider.
2. Model ( )R-MWPV-SSRR comes with the rubber ring, wire end seal and slider.

WPK CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors



This connector is compact and excels in waterproof and durability. This wire-to-wire connector can be used for the place of which especially waterproof is required. Its waterproof grade is 7 ingress protection of JIS C 0920 (IEC 60529 IPX7).

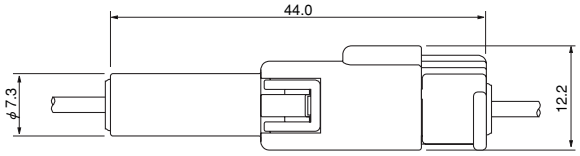
- ***Waterproof performance***
- ***Contained seal ring***
- ***Proven contact configuration***
- ***Inner-housing lock***
- ***Compact design***

Specifications

- Current rating: 7A AC, DC (0.85mm^2)
- Voltage rating: 12V AC, DC
- Temperature range: -40˚C to +105˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/5m Ω max.
  After environmental testing/10m Ω max.
- Insulation resistance: 100M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: 0.5 to 0.85mm^2
  Insulation O.D./1.6 to 1.9mm
- Waterproof grade: Grade 7 ingress protection of JIS C 0920 (IEC 60529 IPX7)

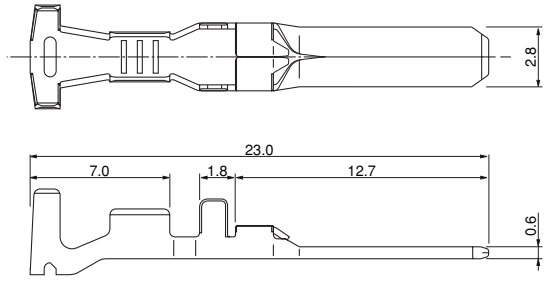
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Assembly layout

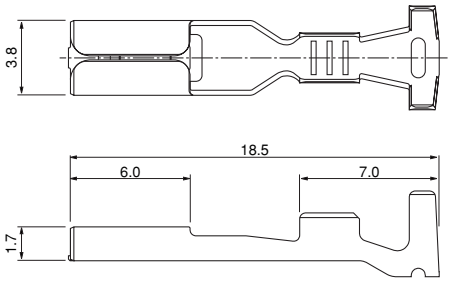


Terminal

Male terminal



Female terminal



Model No.		Applicable wire (mm²)	Insulation O.D. (mm)	Q'ty/reel
Male terminal	Female terminal			
SWPKP-21T-0.6	**SWPKR-21T-0.6**	0.5 ～ 0.85	1.6 ～ 1.9	3,000

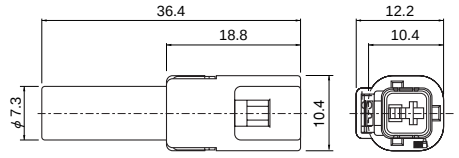
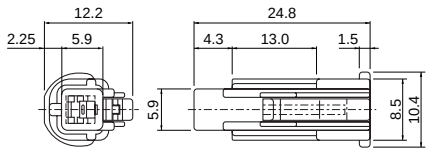
Material and Finish
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Terminal	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SWPKP-21T-0.6	AP-K2N	MKS-L	MK/SWPKP/R-21-06	APLMK SWPKP/R21-06
		—	—	—
SWPKR-21T-0.6		MKS-L	MK/SWPKP/R-21-06	APLMK SWPKP/R21-06
		—	—	—

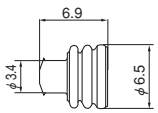
Housing

Material: PBT, black

Circuit	Voltage rating	Current rating	Male housing(for male terminal)	Q'ty/box	Female housing(for female terminal)	Q'ty/box
1	12V	7A	**01P-WPKH-KN** 	100	**WPKR-01H-K** 	1,000

RoHS compliance

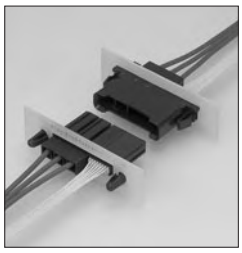
Wire end seal



Model No.	Rubber inner diameter (mm)	Insulation O.D. (mm)	Q'ty / bag
WPKS-1.3N	1.3	1.6～1.9	1,500

Color	Material
Brown	NBR

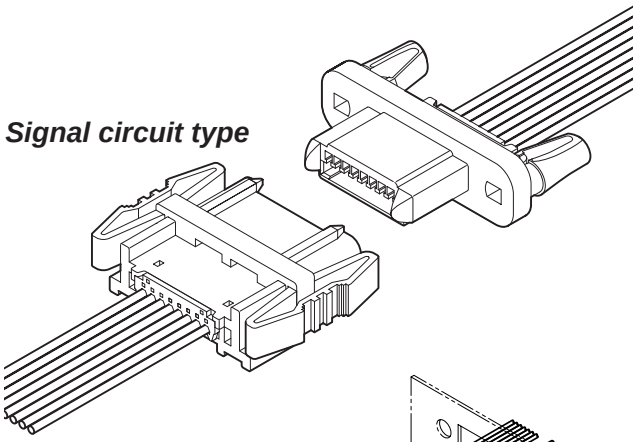
RoHS compliance
Note: Contact JST for applicable wire.



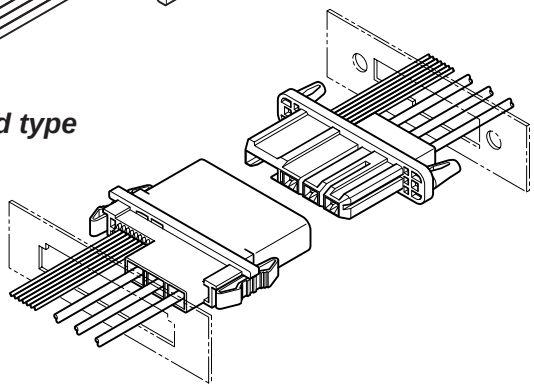
RIZ CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors

Signal circuit type



Hybrid type



In unit connection, this RIZ connector is a hybrid type single row drawer connector with combined signal and power supply circuits, absorbs misalignment between

- ***Space saving***
- ***Panel locking device***
- ***Durability***
- ***Hybrid type***

Specifications

- Current rating: Signal circuit 1.0A AC, DC (AWG #26)
  Power supply circuit 15A AC, DC (AWG #14)
- Voltage rating: Signal circuit 50V AC, DC
  Power supply circuit 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Signal circuit Initial value/40m Ω max.
  After environmental testing/60m Ω max.
  Power supply circuit Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 500m Ω min.
- Withstanding voltage: Signal circuit 500V AC
  Power supply circuit 1,500V AC
- Applicable wire: Power supply circuit Conductor AWG #24 to #14
  Insulation O.D. 1.4 to 3.6mm
  Signal circuit Applicable receptacle CZ, CZH

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

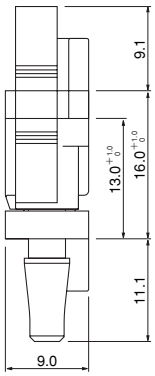
Standards

Recognized E60389

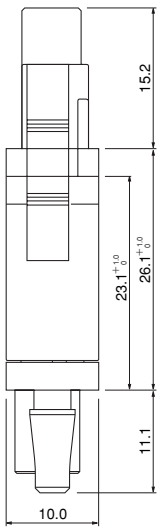
Certified LR20812

Assembly layout

Signal circuit type



Hybrid type



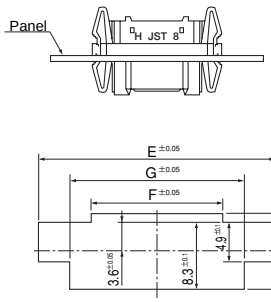
Panel layout

Plug

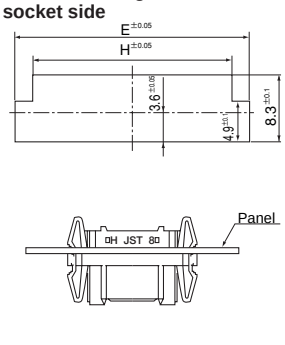
Signal circuit type

Panel thickness: 1.2mm, 1.6mm, 2.0mm

When mounting from mating side



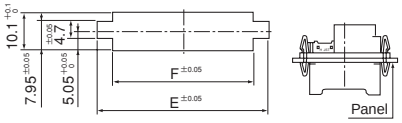
When mounting from socket side



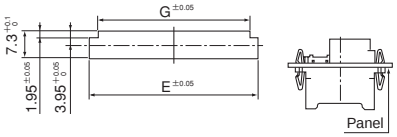
Hybrid type

Panel thickness: 1.2mm, 1.6mm, 2.0mm

When mounting from mating side



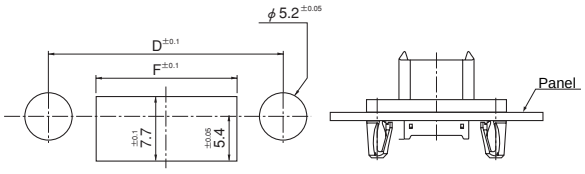
When mounting from socket side



Receptacle

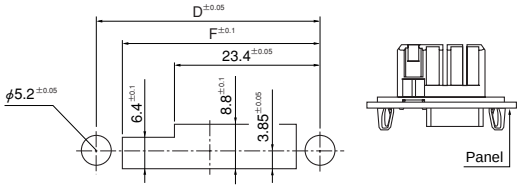
Signal circuit type

Panel thickness: 2.0mm



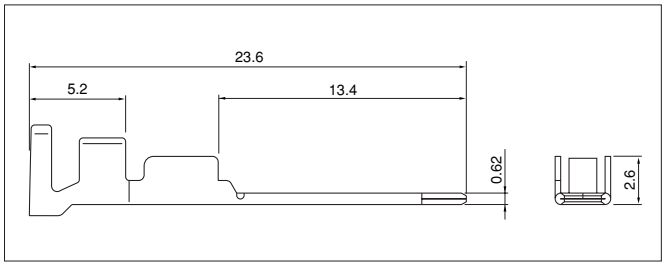
Hybrid type

Panel thickness: 2.0mm



Note: 1. Punch holes in the panel according to the figures shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Plug contact for power supply circuit



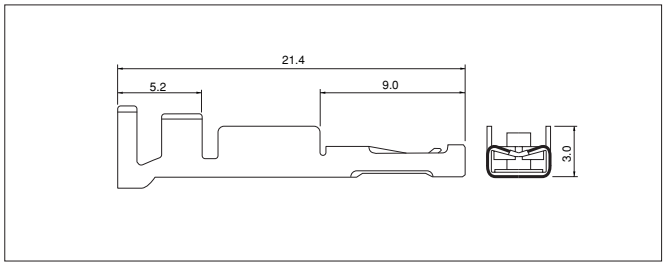
Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm²	AWG #		
SRWM-01GG-S0.6	0.2 ～0.5	24～20	1.4 ～1.9	4,000
SRWM-21GG-S0.6	0.3 ～0.75	22～18	1.55～3.1	–
SRWM-61GG-S0.6	0.75～2.0	18～14	2.0 ～3.6	3,000

Material and Finish
Copper alloy, nickel-undercoated, Mating part; gold-plated Crimping part; tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWM-01GG-S0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	APLMK SRPF/M01-06
		–	–	–
SRWM-21GG-S0.6		MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		–	–	–
SRWM-61GG-S0.6		MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		–	–	–

Receptacle contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm²	AWG #		
SRWF-01GG-M0.6	0.2 ～0.5	24～20	1.4 ～1.9	4,000
SRWF-21GG-M0.6	0.3 ～0.75	22～18	1.55～3.1	3,000
SRWF-61GG-M0.6	0.75～2.0	18～14	2.0 ～3.6	3,000

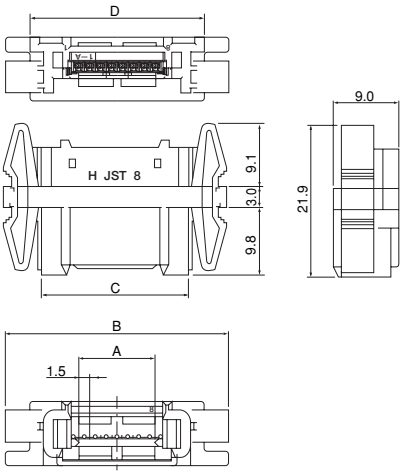
Material and Finish
Copper alloy, nickel-undercoated, Mating part; gold-plated Crimping part; tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWF-01GG-M0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	APLMK SRPF/M01-06
		–	–	–
SRWF-21GG-M0.6		MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		–	–	–
SRWF-61GG-M0.6		MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		–	–	–

Plug

Signal circuit type



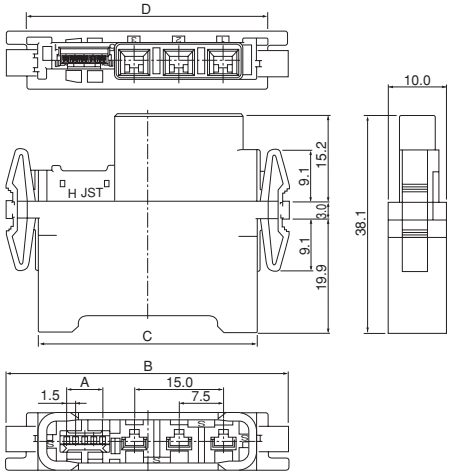
Circuits		Model No.	Dimensions (mm)									Q'ty/ box
Power supply	Signal		A	B	C	D	E t=1.2	E t=1.6,2.0	F	G	H	
-	4	**04P-RIZ-K2GG-RL**	4.5	24.7	14.1	17.8	22.1	22.3	9.4	14.5	18.2	80
	6	**06P-RIZ-K2GG-RL**	7.5	27.7	17.1	20.8	25.1	25.3	12.4	17.5	21.2	80
	8	**08P-RIZ-K2GG-RL**	10.5	30.7	20.1	23.8	28.1	28.3	15.4	20.5	24.2	80
	10	**10P-RIZ-K2GG-RL**	13.5	33.7	23.1	26.8	31.1	31.3	18.4	23.5	27.2	80
	14	**14P-RIZ-K2GG-RL**	19.5	39.7	29.1	32.8	37.1	37.3	24.4	29.5	33.2	80

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow-treatment)
Housing: PBT, UL94V-0, black

RoHS compliance *This product displays (LF)(SN) on a label.*

Hybrid type



Circuits		Model No.	Dimensions (mm)								Q'ty/ box
Power supply	Signal		A	B	C	D	E t=1.2	E t=1.6,2.0	F	G	
3	7	**07P-RIZ-K2GG-S3RL**	9.0	50.3	39.7	43.4	47.7	47.9	39.9	43.6	60
	8	**08P-RIZ-K2GG-S3RL**	10.5	51.8	41.2	44.9	49.2	49.4	41.4	45.1	80
	13	**13P-RIZ-K2GG-S3RL**	18.0	59.3	48.7	52.4	56.7	56.9	48.9	52.6	45

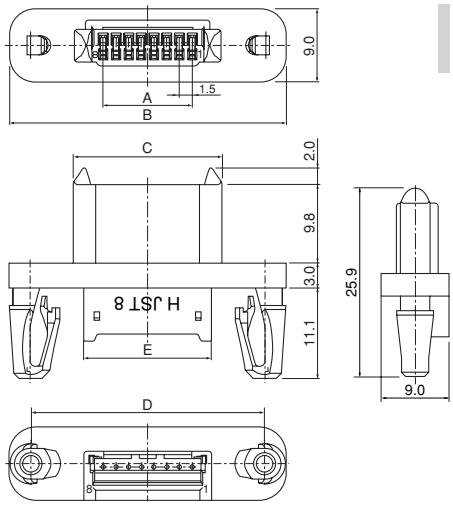
Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance *This product displays (LF)(SN) on a label.*

Receptacle

Signal circuit type



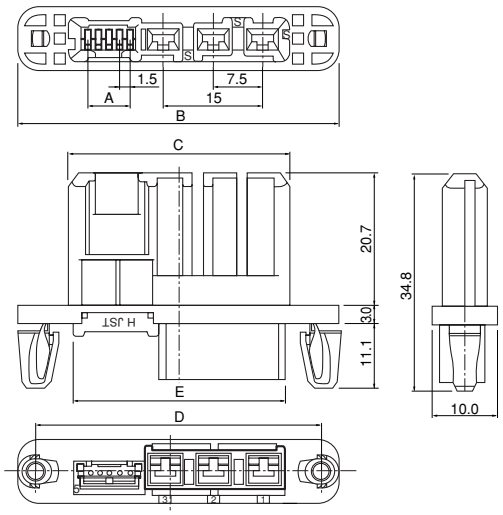
Circuits		Model No.	Dimensions (mm)						Q'ty/ box
Power supply	Signal		A	B	C	D	E	F	
-	4	**04R-RIZ-K4GG-FL**	4.5	26.5	11.3	21.6	9.0	10.8	80
	6	**06R-RIZ-K4GG-FL**	7.5	29.5	14.3	24.6	12.0	13.8	80
	8	**08R-RIZ-K4GG-FL**	10.5	32.5	17.3	27.6	15.0	16.8	80
	10	**10R-RIZ-K4GG-FL**	13.5	35.5	20.3	30.6	18.0	19.8	80
	14	**14R-RIZ-K4GG-FL**	19.5	41.5	26.3	36.6	24.0	25.8	60

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow-treatment)
Housing: PBT, UL94V-0, black

RoHS compliance *This product displays (LF)(SN) on a label.*

Hybrid type



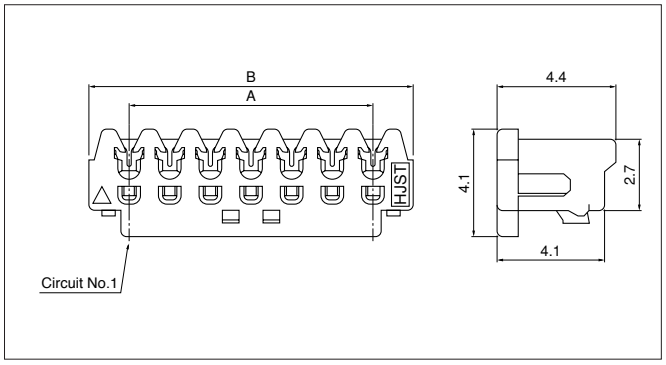
Circuits		Model No.	Dimensions (mm)						Q'ty/ box
Power supply	Signal		A	B	C	D	E	F	
3	7	**07R-RIZ-K4GG-SQ3FL**	9.0	52.6	36.5	47.7	35.1	36.9	75
	8	**08R-RIZ-K4GG-SQ3FL**	10.5	54.1	38.0	49.2	36.6	38.4	75
	13	**13R-RIZ-K4GG-SQ3FL**	18.0	61.6	45.5	56.7	44.1	45.9	60

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow-treatment)
Housing: PBT, UL94V-0, black

RoHS compliance *This product displays (LF)(SN) on a label.*

CZ connector socket

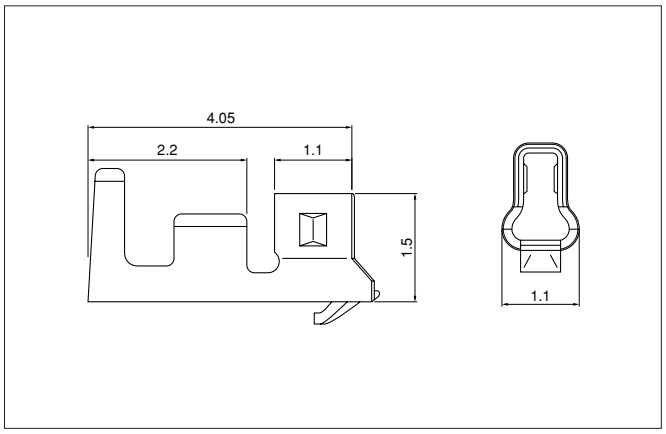


Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Gray	Yellow	A	B	
4	**04CZ-6H**	**04CZ-6Y**	4.5	7.5	2,000
6	**06CZ-6H**	**06CZ-6Y**	7.5	10.5	2,000
7	**07CZ-6H**	**07CZ-6Y**	9.0	12.0	2,000
8	**08CZ-6H**	**08CZ-6Y**	10.5	13.5	2,000
10	**10CZ-6H**	**10CZ-6Y**	13.5	16.5	1,000
13	**13CZ-6H**	**13CZ-6Y**	18.0	21.0	1,000
14	**14CZ-6H**	**14CZ-6Y**	19.5	22.5	1,000

Material and Finish
Contact: Copper alloy, tin-plated (reflow treatment) Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

CZH connector contact



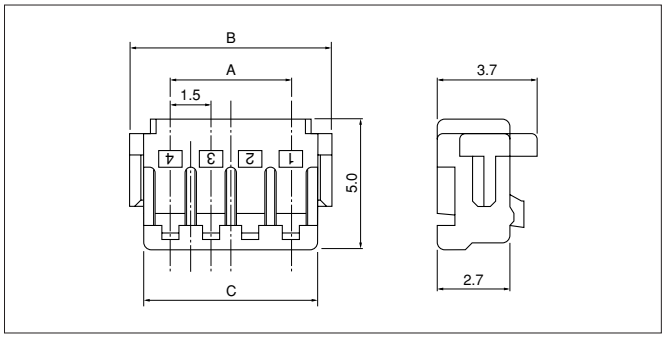
Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm²	AWG #		
SCZH-002T-P0.5	0.08～0.13	28～26	0.8～1.1	13,000

Material and Finish
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05
		—	—	—

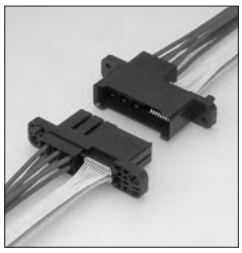
CZH connector housing



Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
4	**CZHR-04V-S**	4.5	7.5	6.5	1,000
6	**CZHR-06V-S**	7.5	10.5	9.5	1,000
7	**CZHR-07V-S**	9.0	12.0	11.0	1,000
8	**CZHR-08V-S**	10.5	13.5	12.5	1,000
10	**CZHR-10V-S**	13.5	16.5	15.5	1,000
13	**CZHR-13V-S**	18.0	21.0	20.0	1,000
14	**CZHR-14V-S**	19.5	22.5	21.5	1,000

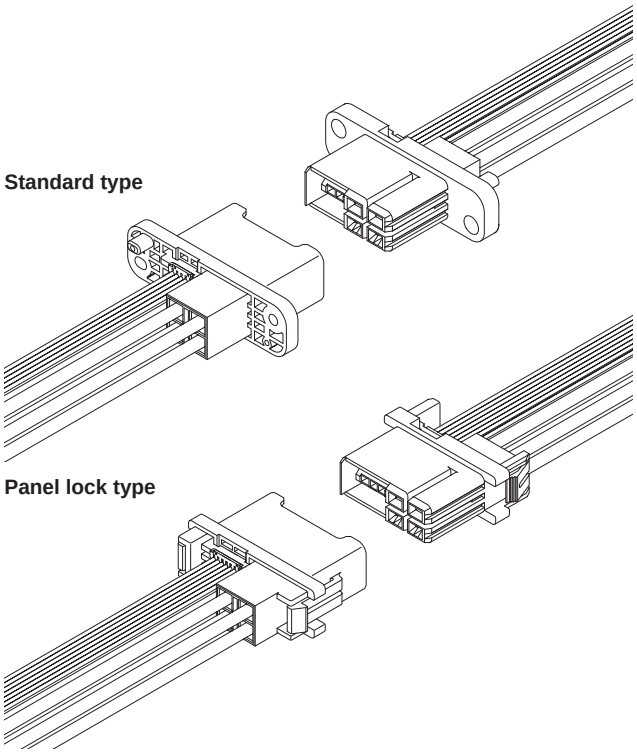
Material
PBT, UL94V-0, natural (white)

RoHS compliance



RWZ CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors



In unit connection, this RWZ connector is a hybrid type double row drawer connector with combined signal and power supply circuits, absorbs misalignment between units, and excels durability.

- ***Durability***
- ***Absorbed misalignment mechanism***
- ***Space saving***
- ***Hybrid type***

Specifications

- Current rating: Signal circuit 1.0A AC, DC (AWG #26)
  Power supply circuit 15A AC, DC (AWG #14)
- Voltage rating: Signal circuit 50V AC, DC
  Power supply circuit 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Signal circuit Initial value/40m Ω max.
  After environmental testing/60m Ω max.
  Power supply circuit Initial value/10mΩ max.
  After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: Signal circuit 500V AC
  Power supply circuit 1,500V AC
- Applicable wire: Power supply circuit Conductor AWG #24 to #14
  Insulation O.D. 1.4 to 3.6mm
  Signal circuit Applicable receptacle CZ, CZH
- Mounting method: Screw, panel lock

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

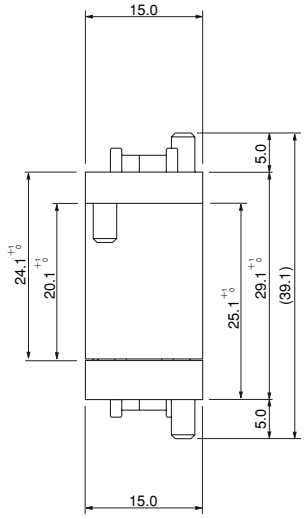
Recognized E60389

Certified LR20812

Assembly layout

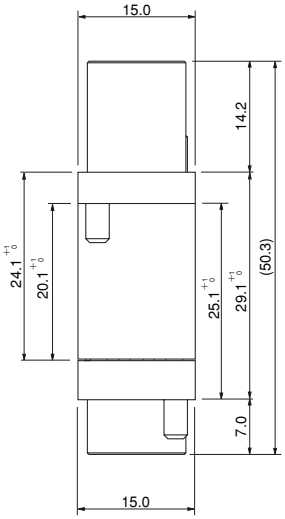
Standard type

Signal type



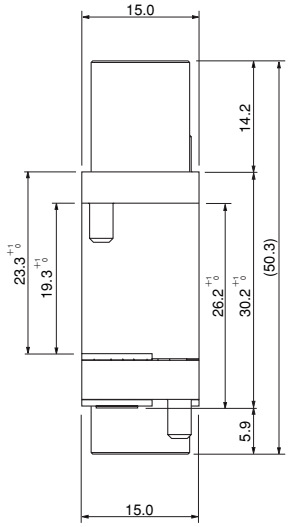
Standard type

Hybrid type



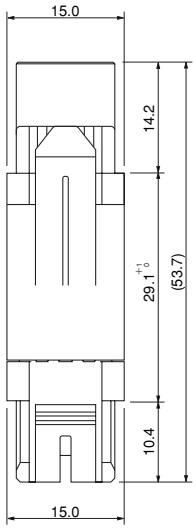
Floating bushing type

Hybrid type



Panel lock type

Hybrid type

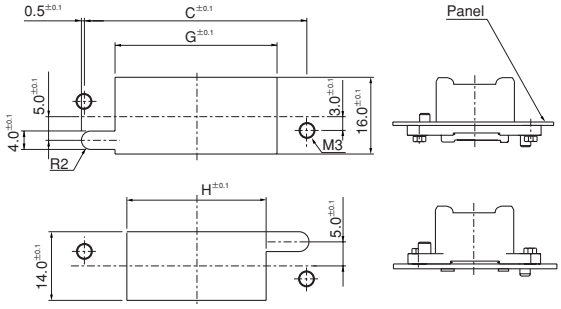


Panel layout

Plug

Standard type

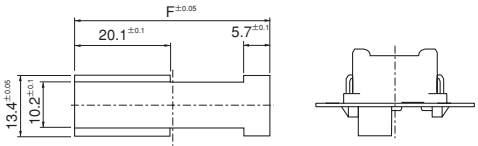
Panel thickness: 0.8 to 2.0mm



Plug

Panel lock type

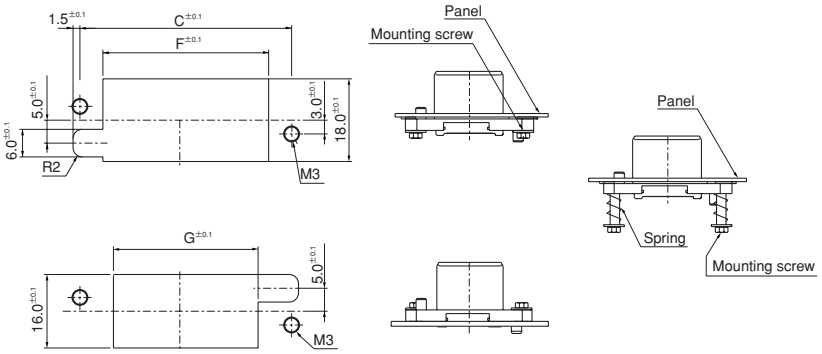
Panel thickness: 2.0mm



Receptacle

Standard type

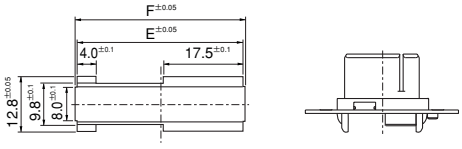
Panel thickness: 0.8 to 2.0mm



Receptacle

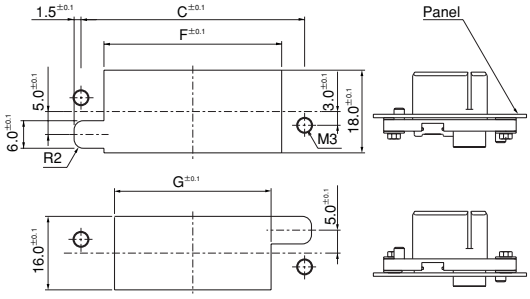
Panel lock type

Panel thickness: 1.2mm, 1.6mm, 2.0mm



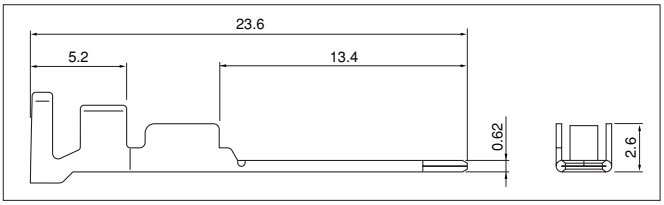
Floating bushing type

Panel thickness: 0.8 to 2.0mm



Note: 1. Punch holes in the panel according to the figures shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Plug contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm²	AWG #		
SRWM-01GG-S0.6	0.2 ～0.5	24～20	1.4 ～1.9	4,000
SRWM-21GG-S0.6	0.3 ～0.75	22～18	1.55～3.1	3,000
SRWM-61GG-S0.6	0.75～2.0	18～14	2.0 ～3.6	3,000

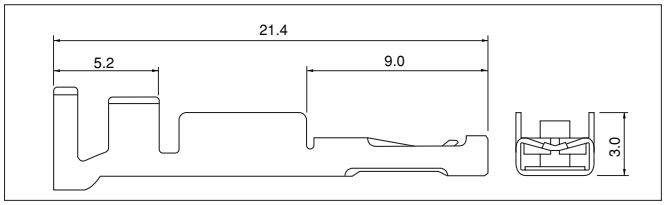
Material and Finish

Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWM-01GG-S0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	APLMK SRPF/M01-06
		—	—	—
SRWM-21GG-S0.6		MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		—	—	—
SRWM-61GG-S0.6		MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		—	—	—

Receptacle contact for power supply circuit



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm²	AWG #		
SRWF-01GG-M0.6	0.2 ～0.5	24～20	1.4 ～1.9	4,000
SRWF-21GG-M0.6	0.3 ～0.75	22～18	1.55～3.1	3,000
SRWF-61GG-M0.6	0.75～2.0	18～14	2.0 ～3.6	3,000

Material and Finish

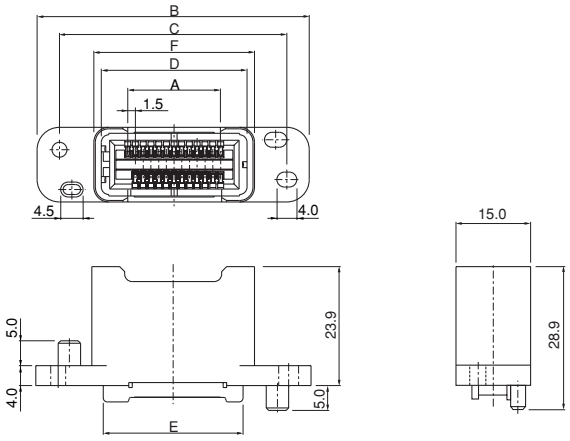
Copper alloy, nickel-undercoated, Mating part; gold-plated
Crimping part; tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRWF-01GG-M0.6	AP-K2N	MKS-L	MK/SRPF/M-01-06	PLMK SRPF/M01-06
		—	—	—
SRWF-21GG-M0.6		MKS-L	MK/SRPF/M-21-06	APLMK SRPF/M21-06
		—	—	—
SRWF-61GG-M0.6		MKS-L	MK/SRPF/M-61-06	APLMK SRPF/M61-06
		—	—	—

Plug

Standard/Signal circuits type



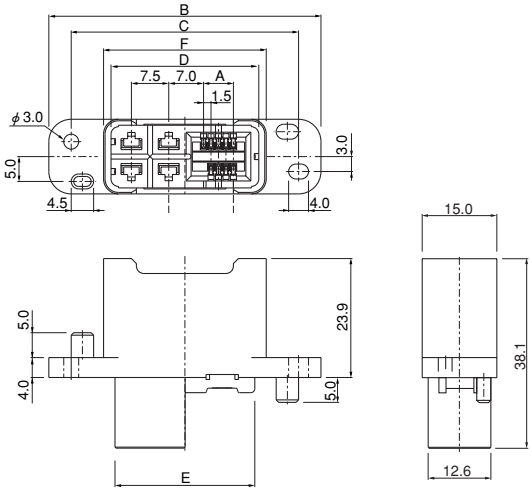
Circuits		Model No.	Dimensions (mm)								Q'ty/ box
Power supply	Signal		A	B	C	D	E	F	G	H	
–	25	**25P-RWZV-K4GG**	18.0	53.2	44.2	28.2	26.6	31.2	32.2	27.6	240
	31	**31P-RWZV-K4GG**	22.5	57.7	48.7	32.7	31.1	35.7	36.7	32.1	216
	33	**33P-RWZV-K4GG**	24.0	59.2	50.2	34.2	32.6	37.2	38.2	33.6	192

Material and Finish

Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance *This product displays (LF)(SN) on a label.*

Standard/Hybrid type



Circuits		Model No.	Dimensions (mm)								Q'ty/ box
Power supply	Signal		A	B	C	D	E	F	G	H	
2	39	**39P-RWZV-K4GG-P2**	28.5	69.7	60.7	44.7	43.1	47.7	48.7	44.1	168
4	9	**09P-RWZV-K4GG-P4**	6.0	54.7	45.7	29.7	28.1	32.7	33.7	29.1	216
	13	**13P-RWZV-K4GG-P4**	9.0	57.7	48.7	32.7	31.1	35.7	36.7	32.1	216
	21	**21P-RWZV-K4GG-P4**	15.0	63.7	54.7	38.7	37.1	41.7	42.7	38.1	192
6	19	**19P-RWZV-K4GG-P6**	13.5	69.7	60.7	44.7	43.1	47.7	48.7	44.1	168
	23	**23P-RWZV-K4GG-P6**	16.5	72.7	63.7	47.7	46.1	50.7	51.7	47.1	144

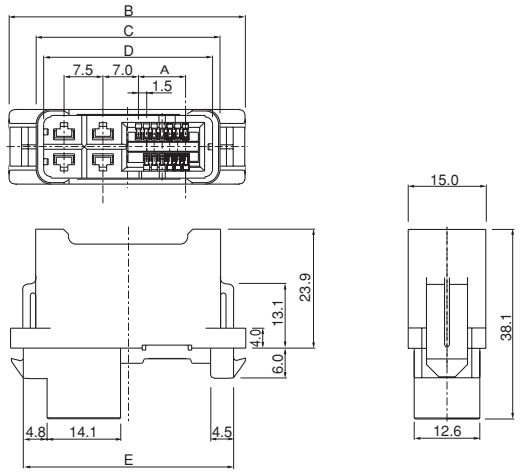
Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance *This product displays (LF)(SN) on a label.*

Plug

Panel lock/Hybrid type



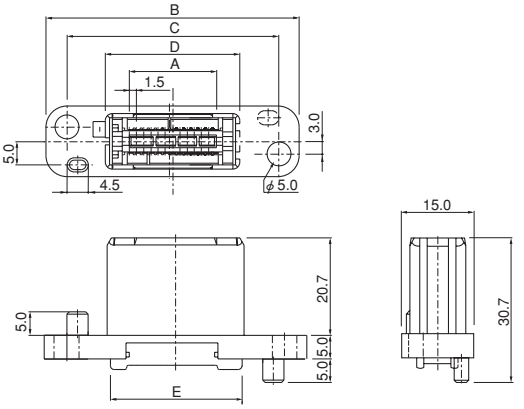
Circuits		Model No.	Dimensions (mm)						Q'ty/ box
Power supply	Signal		A	B	C	D	E	F	
4	13	**13P-RWZV-K4GG-P4FL**	9.0	45.5	35.7	32.7	40.7	41.5	216

Material and Finish
Signal contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment) Housing: PBT, UL94V-0, black

RoHS compliance *This product displays (LF)(SN) on a label.*

Receptacle

Standard/Signal circuits type

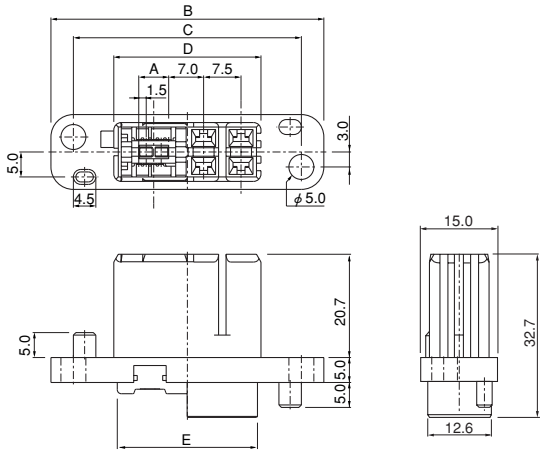


Circuits		Model No.	Dimensions (mm)							Q'ty/ box
Power supply	Signal		A	B	C	D	E	F	G	
–	25	**25R-RWZV-K2GG**	18.0	53.2	44.2	28.0	26.6	34.2	29.6	240
	31	**31R-RWZV-K2GG**	22.5	57.7	48.7	32.5	31.1	38.7	34.1	216
	33	**33R-RWZV-K2GG**	24.0	59.2	50.2	34.0	32.6	40.2	35.6	240

Material and Finish
Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment) Housing: PBT, UL94V-0, black

RoHS compliance *This product displays (LF)(SN) on a label.*

Standard/Hybrid type



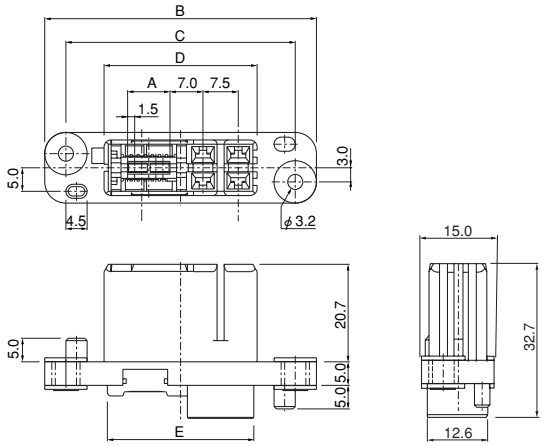
Circuits		Model No.	Dimensions (mm)							Q'ty/ box
Power supply	Signal		A	B	C	D	E	F	G	
2	39	**39R-RWZV-K2GG-P2**	28.5	69.7	60.7	44.5	43.1	50.7	46.1	168
4	9	**09R-RWZV-K2GG-P4**	6.0	54.7	45.7	29.5	28.1	35.7	31.1	216
	13	**13R-RWZV-K2GG-P4**	9.0	57.7	48.7	32.5	31.1	38.7	34.1	216
	21	**21R-RWZV-K2GG-P4**	15.0	63.7	54.7	38.5	37.1	44.7	40.1	192
6	19	**19R-RWZV-K2GG-P6**	13.5	69.7	60.7	44.5	43.1	50.7	46.1	168
	23	**23R-RWZV-K2GG-P6**	16.5	72.7	63.7	47.5	46.1	53.7	49.1	144

Material and Finish
Signal contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment) Housing: PBT, UL94V-0, black

RoHS compliance *This product displays (LF)(SN) on a label.*

Receptacle

Floating bushing/Hybrid type



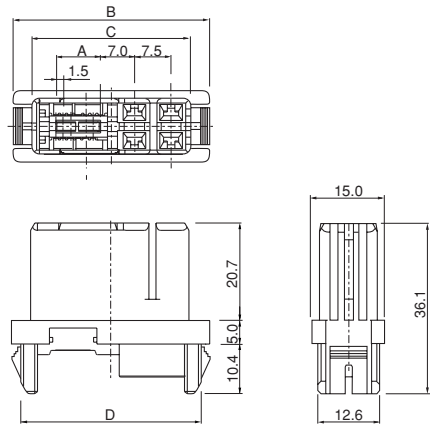
Circuits		Model No.	Dimensions (mm)							Q'ty/ box
Power supply	Signal		A	B	C	D	E	F	G	
2	39	**39R-RWZV-K2GG-P2BM**	28.5	69.7	60.7	44.5	43.1	50.7	46.1	168
4	21	**21R-RWZV-K2GG-P4BM**	15.0	63.7	54.7	38.5	37.1	44.7	40.1	192

Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment
Housing: PBT, UL94V-0, black
Washer: Copper alloy, nickel-plated
Floating rivet: Copper alloy, nickel-plated

RoHS compliance *This product displays (LF)(SN) A on a label.*

Panel lock/Hybrid type



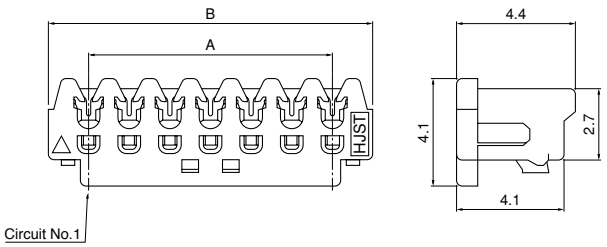
Circuits		Model No.	Dimensions (mm)							Q'ty/ box
Power supply	Signal		A	B	C	D	E	F		
								t=1.2	t=1.6,2.0	
4	13	**13R-RWZV-K2GG-Q4RL**	9.0	40.3	32.5	36.5	36.7	37.2	37.5	264

Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)
Housing: PBT, UL94V-0, black

RoHS compliance *This product displays (LF)(SN) on a label.*

CZ connector socket

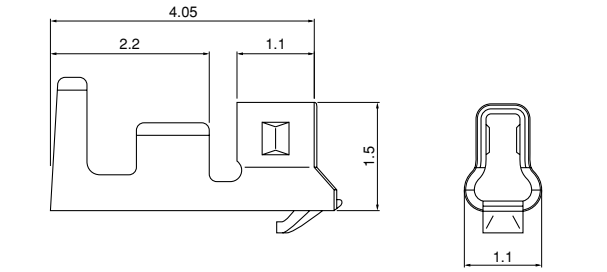


Circuits	Model No.		Dimensions (mm)		Q'ty/box
	Gray	Yellow	A	B	
4	**04CZ-6H**	**04CZ-6Y**	4.5	7.5	2,000
5	**05CZ-6H**	**05CZ-6Y**	6.0	9.0	2,000
6	**06CZ-6H**	**06CZ-6Y**	7.5	10.5	2,000
7	**07CZ-6H**	**07CZ-6Y**	9.0	12.0	2,000
9	**09CZ-6H**	**09CZ-6Y**	12.0	15.0	1,000
10	**10CZ-6H**	**10CZ-6Y**	13.5	16.5	1,000
11	**11CZ-6H**	**11CZ-6Y**	15.0	18.0	1,000
12	**12CZ-6H**	**12CZ-6Y**	16.5	19.5	1,000
13	**13CZ-6H**	**13CZ-6Y**	18.0	21.0	1,000
15	**15CZ-6H**	**15CZ-6Y**	21.0	24.0	1,000
16	**16CZ-6H**	**16CZ-6Y**	22.5	25.5	1,000
17	**17CZ-6H**	**17CZ-6Y**	24.0	27.0	1,000
19	**19CZ-6H**	**19CZ-6Y**	27.0	30.0	1,000
20	**20CZ-6H**	**20CZ-6Y**	28.5	31.5	1,000

Material and Finish
Contact: Copper alloy, tin-plated (reflow treatment)□ Housing: Glass-filled PA 66, UL94V-0□

RoHS compliance

CZH connector contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm²	AWG #		
SCZH-002T-P0.5	0.08～0.13	28～26	0.8～1.1	13,000

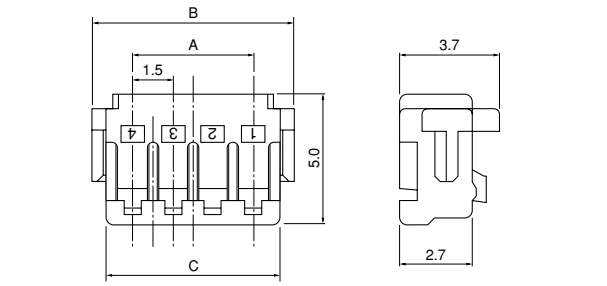
Material and Finish
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Note: The product listed above is not CSA approved in combination with RWZ connector. (CZH connector itself is approved.)

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05
		—	—	—

CZH connector housing



Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
4	**CZHR-04V-S**	4.5	7.5	6.5	1,000
5	**CZHR-05V-S**	6.0	9.0	8.0	1,000
6	**CZHR-06V-S**	7.5	10.5	9.5	1,000
7	**CZHR-07V-S**	9.0	12.0	11.0	1,000
9	**CZHR-09V-S**	12.0	15.0	14.0	1,000
10	**CZHR-10V-S**	13.5	16.5	15.5	1,000
11	**CZHR-11V-S**	15.0	18.0	17.0	1,000
12	**CZHR-12V-S**	16.5	19.5	18.5	1,000
13	**CZHR-13V-S**	18.0	21.0	20.0	1,000
15	**CZHR-15V-S**	21.0	24.0	23.0	1,000
16	**CZHR-16V-S**	22.5	25.5	24.5	1,000
17	**CZHR-17V-S**	24.0	27.0	26.0	1,000
19	**CZHR-19V-S**	27.0	30.0	29.0	1,000
20	**CZHR-20V-S**	28.5	31.5	30.5	1,000

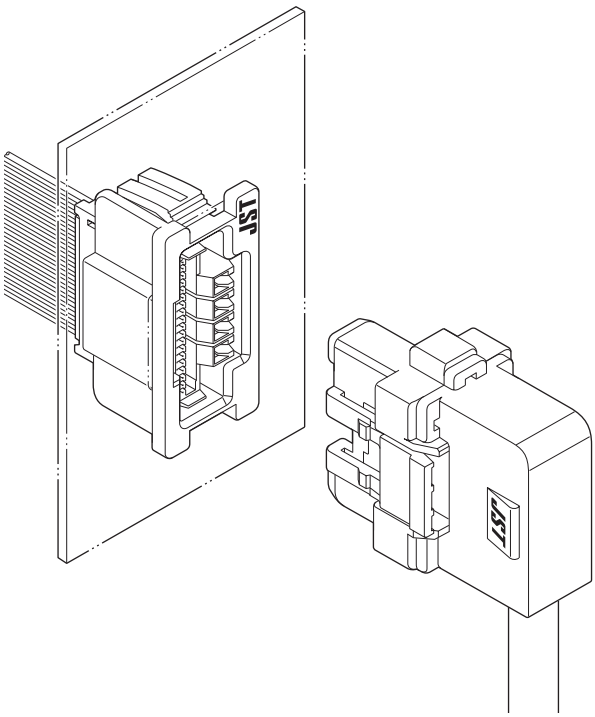
Material
PBT, UL94V-0, natural (white)

RoHS compliance

Note: The products listed above are not CSA approved in combination with RWZ connector. (CZH connector itself is approved.)

OTZ CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors



Hybrid type I/O connector with combined signal and power supply circuits.

- ***Curtailment of number of component***
- ***Space saving***
- ***Lever lock function***

Specifications

- Current rating: Signal circuit 1.0A AC, DC (AWG #26)
  Power supply circuit 5A AC, DC (AWG #20)
- Voltage rating: Signal circuit 50V AC, DC (AWG #26)
  Power supply circuit 300V AC, DC (AWG #20)
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Applicable wire: Signal circuit AWG #28 to #26
  Power supply circuit AWG #26 to #20
- Number of circuits: Signal circuit 16 circuits
  Power supply circuit 4 circuits

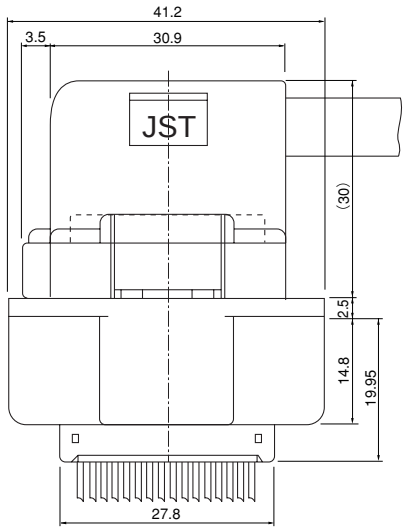
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

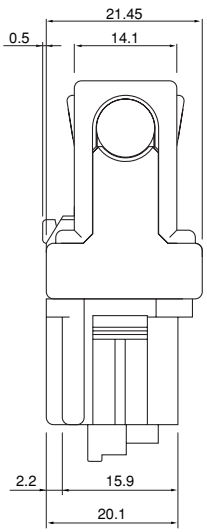
Standards

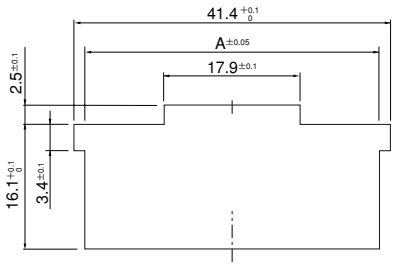
Recognized E60389

Certified LR20812

Assembly layout and Panel layout



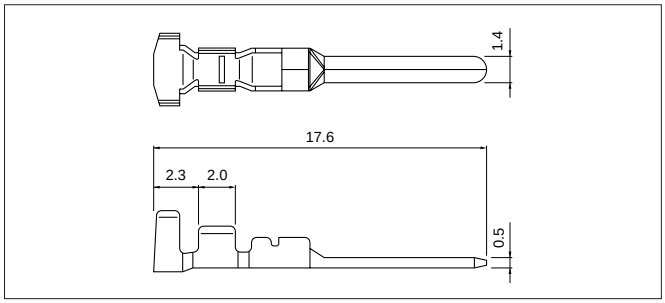




Panel thickness	t 1.2	t 1.6	t 2.0
A dimension	38.4	38.6	

Note: 1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Power supply circuit contact plug



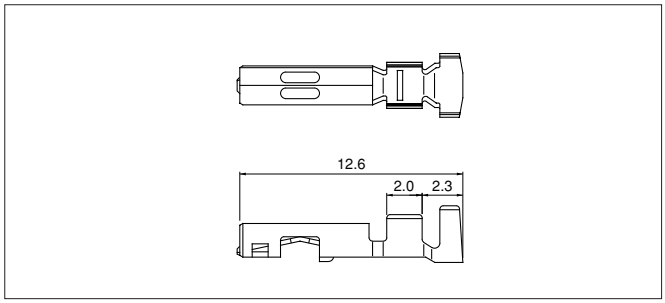
Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SSM-01GD-P1.4	0.13～0.5	26～20	1.3～2.5	6,000

Material and Finish
Copper alloy, nickel-undercoated, Mating part; gold-plated Crimping part; tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSM-01GD-P1.4	AP-K2N	MKS-L	MK/SSF/M-01-14	APLMK SSF/M01-14
		—	—	—

Power supply circuit contact receptacle



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SSF-01GW-P1.4	0.13～0.5	26～20	1.3～2.5	6,000

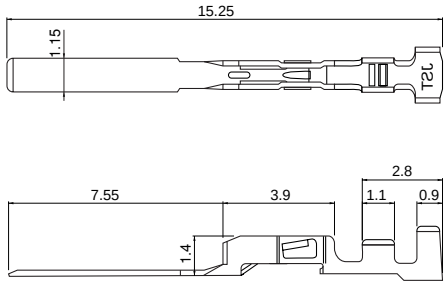
Material and Finish
Copper alloy, nickel-undercoated, overall gold-plated

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SSF-01GW-P1.4	AP-K2N	MKS-L	MK/SSF/M-01-14	APLMK SSF/M01-14
		—	—	—

Plug

Plug contact for signal



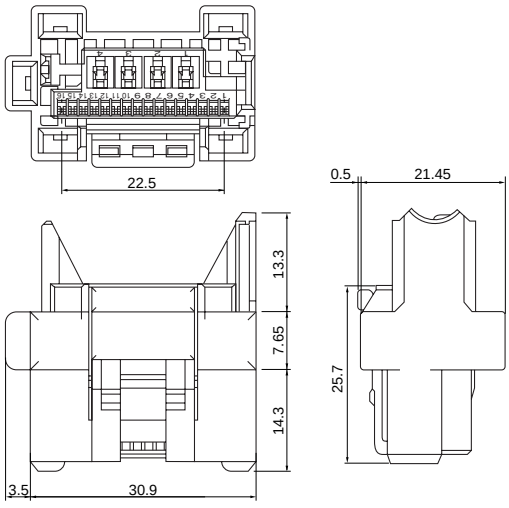
Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SOTZP-002GG-P0.18	0.08～0.13	28・26	0.7 ～0.93	13,000

Material and Finish
Copper alloy, nickel-undercoated, Mating part; gold-plated Crimping part; tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SOTZP-002GG-P0.18	AP-K2N	MKS-L	MK/SOTZP-002-018	APLMK SOTZP002-018
		—	—	—

Signal 16 circuit / power 4 circuit



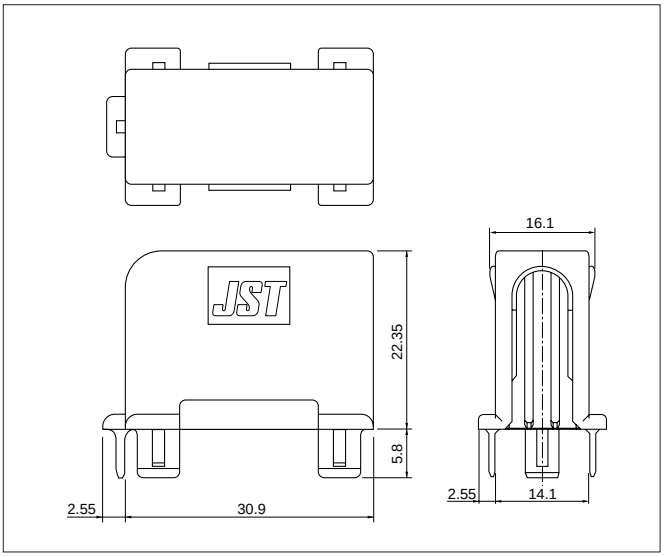
Model No.	Q'ty / box
OTZP-16-H-P4	100

Material
PBT, UL94V-0, gray

RoHS compliance

OTZ CONNECTOR

Plug cover

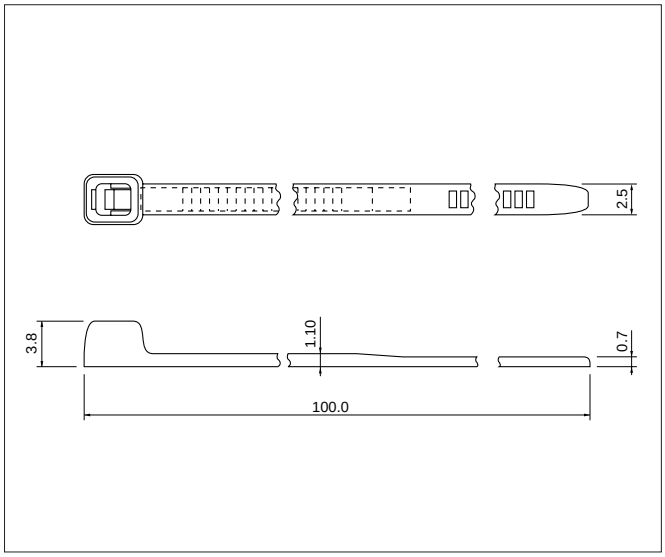


Model No.	Q'ty / box
OTZC-16-H-P4	200

Material
PBT, UL94V-0, gray

RoHS compliance

Tie lock



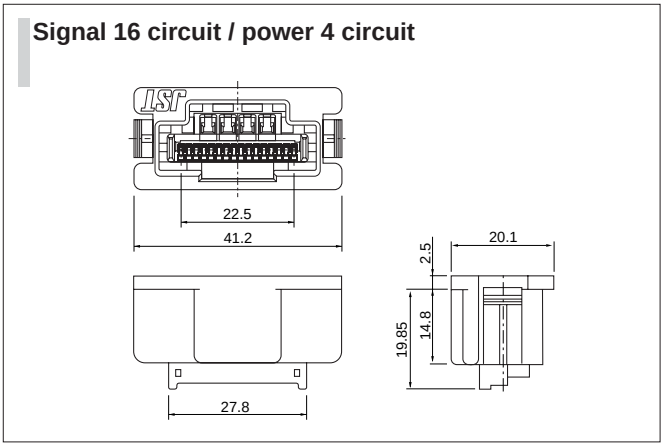
Model No.	Q'ty / box
KB-100-1	1,000

Material
PA 66, natural

RoHS compliance
Note: Not UL/CSA approved.

Receptacle

Signal 16 circuit / power 4 circuit

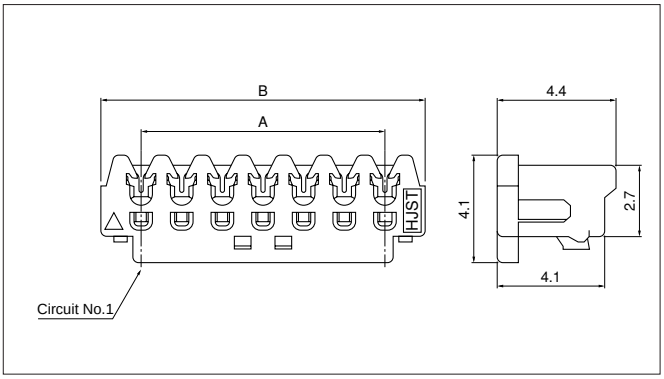


Model No.	Q'ty / box
16R-OTZ-H4GG-P4RL	40

Material and Finish
Housing: PBT, UL94V-0, gray Contact: Copper alloy, nickel-undercoated, selective gold-plated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*

CZ connector socket

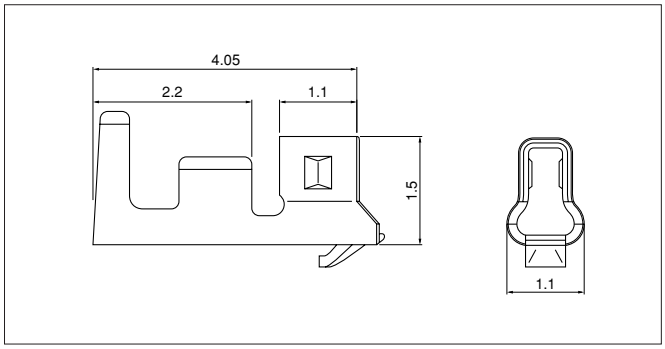


Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Gray	Yellow	A	B	
16	**16CZ-6H**	**16CZ-6Y**	22.5	25.5	1,000

Material and Finish
Contact: Copper alloy, tin-plated (reflow treatment) Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

CZH connector contact



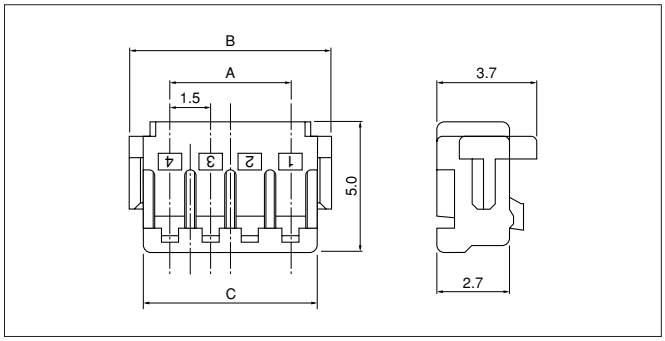
Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SCZH-002T-P0.5	0.08～0.13	28～26	0.8～1.1	13,000

Material and Finish
Copper alloy, tin-plated (reflow treatment)

RoHS compliance

Note: The product listed above is not UL/CSA approved in combination with OTZ connector. (CZH connector itself is approved.)

CZH connector housing



Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
16	**CZHR-16V-S**	22.5	25.5	24.5	1,000

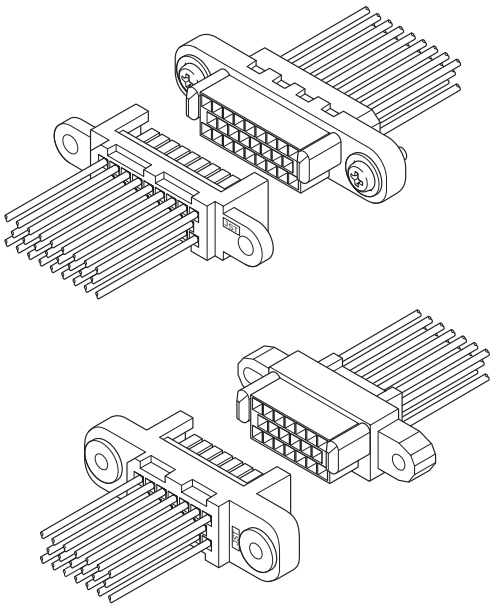
Material
PBT, UL94V-0, natural (white)

RoHS compliance

Note: The product listed above is not UL/CSA approved in combination with OTZ connector. (CZH connector itself is approved.)

RPJ CONNECTOR

2.7mm pitch/Disconnectable Crimp style Wire-to-wire connectors



The pin and socket are adopted for use as the small rack panel connector.

- ***Compact design***
- ***Structure***
- ***Contact lance***

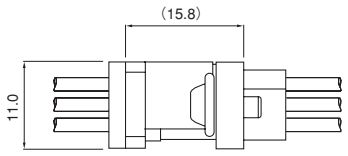
Specifications ––––––––––––––––––

- Current rating: 2A AC, DC (AWG #24)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/20m Ω max.
  After environmental testing/30m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable wire: AWG #28 to #24

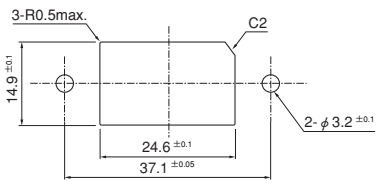
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Assembly layout and Panel layout

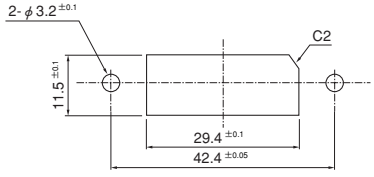
Plug



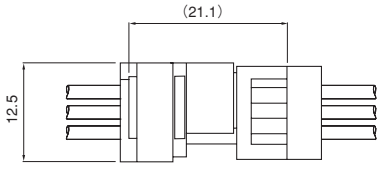
(20 circuits)



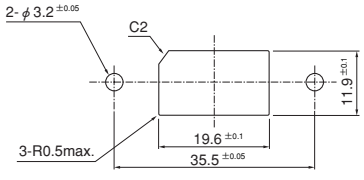
(26 circuits)



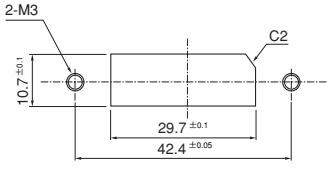
Receptacle



(20 circuits)

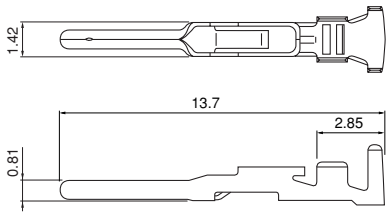


(26 circuits)

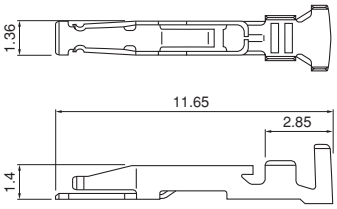


Contact

Pin contact



Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty / reel
Pin contact	Socket contact	mm²	AWG #		
RPJ-SP2331	**RPJ-SS2331**	0.08～0.22	28～24	0.9～1.5	10,000

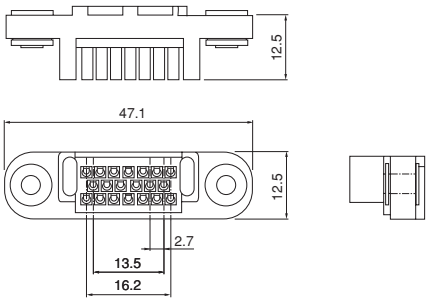
Material and Finish
Phosphor bronze, nickel-undercoated, gold-plated

RoHS compliance

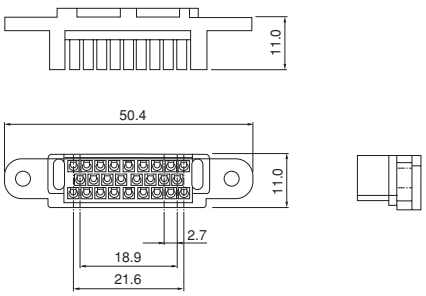
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
RPJ-SP2331	AP-K2N	MKS-L	MK/RPJ-SP/SS2	APLMK RPJ-SP/SS2
RPJ-SS2331		—	—	—

Plug housing

(20 circuits)



(26 circuits)



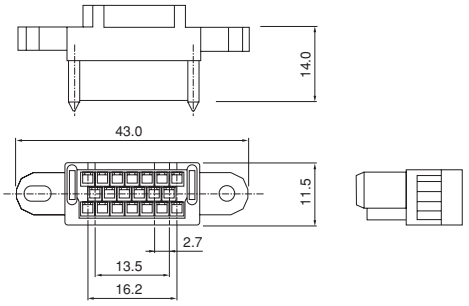
Circuits	Model No.	Q'ty / box
20	**RPJ-20PRW**	50
26	**RPJ-26P**	50

Material and Finish
Plug housing: Glass-filled PBT, UL94V-0 Washer: Brass, nickel-plated (RPJ-20PRW) Rivet: Brass, nickel-plated (RPJ-20PRW)

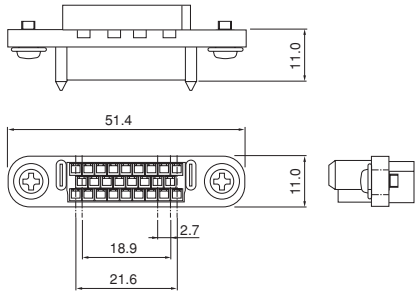
RoHS compliance

Receptacle housing

(20 circuits)



(26 circuits)

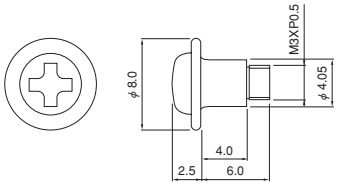


Circuits	Model No.	Q'ty / box
20	**RPJ-20R**	50
26	**RPJ-26RS**	50

Material
Receptacle housing: Glass-filled PBT, UL94V-0

RoHS compliance
Note: Two screws are supplied under the same package of RPJ-26RS.

Screw



Note: Two screws are supplied for one receptacle housing, RPJ-26RS.

4

Connector Series

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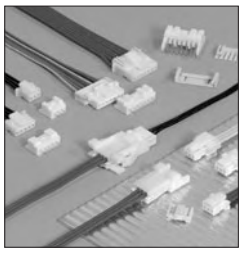
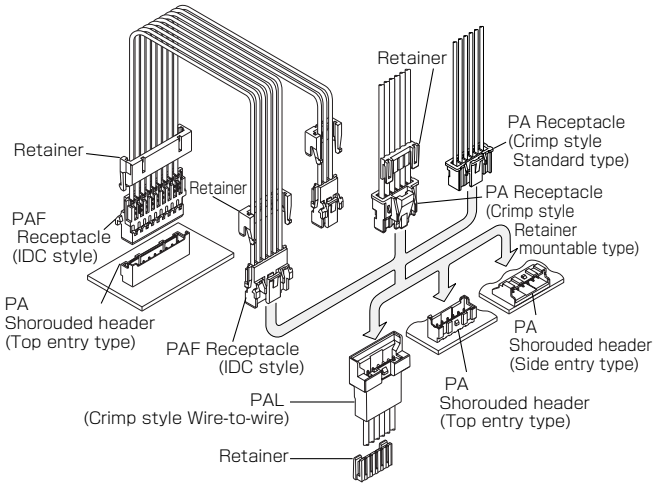


PA FAMILY SERIES/PA•PAF•PAL CONNECTOR

2.0mm pitch/Wire-to-board (Crimp style/IDC) / Wire-to-wire (Crimp style/IDC)



Based upon wire-to-board crimp style PA connectors, the PA series family of connector have been expanded to meet the requirement of complex wire harness of 2.0mm pitch connectors with secure locking mechanism thanks to the additional line up of wire-to-board IDC style PAF connectors and wire-to-wire crimp style PAL connectors.

- ***Secure locking device***
- ***Interchangeable between crimp and IDC socket***
- ***Secondary retainers***
- ***Harness variation***

PA connector (Standard type, Retainer mountable type)

- ***Highly reliable contact***
- ***Insertion guide mechanism***
- ***Flanged press pin***

PAF connector

- ***The industry's first secure lock ID connectors***
- ***Metallic strain relief***
- ***Retainer with four locking points***

PAL connector

- ***The industry's first wire to wire 2.0mm pitch retainer mountable type connector.***
- ***Either with or without panel lock can be selected according to application.***

Standards

Recognized E60389

Certified LR20812

Specifications

PA Connector (Standard type)

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: Initial/1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable PC board thickness: 1.6mm

PA Connector (Retainer mountable type)

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/15m Ω max.
  After environmental testing/25m Ω max.
- Insulation resistance: Initial/1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22

PAF Connector

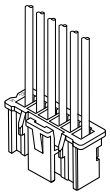
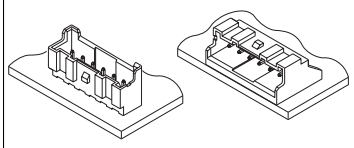
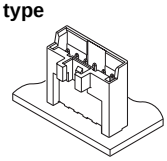
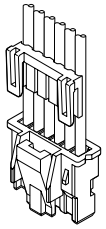
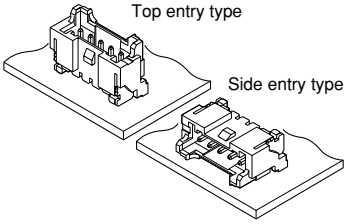
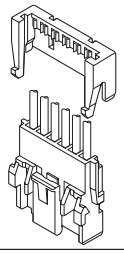
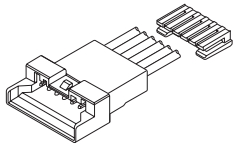
- Current rating: 1.0A AC, DC (AWG #26)
- Voltage rating: 100V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/15m Ω max.
  After environmental testing/25m Ω max.
- Insulation resistance: Initial/1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: UL1061(Contact JST for details regarding other UL wires.)
  AWG #26
  Conductor/7 strands, tin-coated annealed copper
  Insulation O.D./0.9 to 1.0mm

PAL Connector

- Current rating: 3A AC, DC (AWG #22)
- Voltage rating: 100V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/15m Ω max.
  After environmental testing/25m Ω max.
- Insulation resistance: Initial/1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable wire: AWG #28 to #22
- Applicable panel thickness : 0.5 to 2.0mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

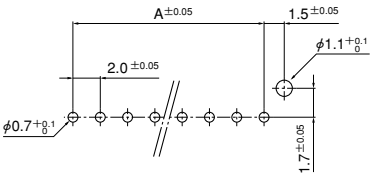
List of combinations

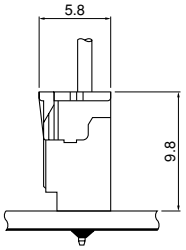
Crimp style Standard type 	Contact SPHD-001T-P0.5 SPHD-002T-P0.5 Housing PAP-( )V-S	Shrouded header B( )B-PASK B( )B-PASK-1 S( )B-PASK-2	**Top entry type** **Side entry type** 
		Shrouded header BH( )B-PASK BH( )B-PASK-1	**High box type** 
Crimp style Retainer mountable type 	Contact SPA-001T-P0.5 Housing PARP-( )V Retainer PMS-( )V-S	Shrouded header BM( )B-PASS BM( )B-PASS-1 SM( )B-PASS SM( )B-PASS-1	**SMT type** Top entry type Side entry type 
Insulation displacement type 	Receptacle ( )PAF-6S Retainer PAFS-( )V-S	Contact SPAL-001T-P0.5 SPAL-002T-P0.5 Receptacle housing PALR-( )V(F) Retainer PMS-( )V-S	**Wire to wire Connectors** 

PC board layout (viewed from component side) and Assembly layout

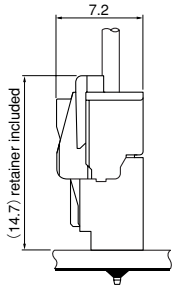
Through-hole type

Top entry type

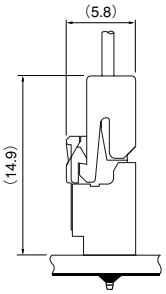




PA Receptacle + PA Header
(Standard type)

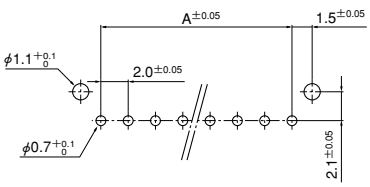


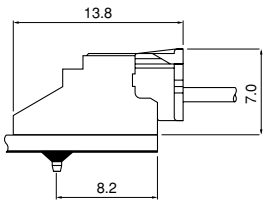
PA Receptacle + PA Header
(Retainer mountable type)



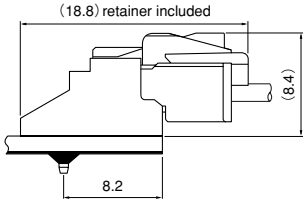
PAF Receptacle + PA Header

Side entry type

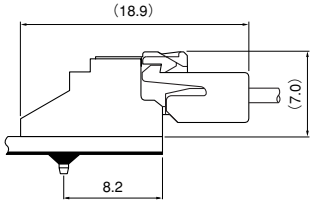




PA Receptacle
+ PA side entry type header
(Standard type)



PA Receptacle
+ PA side entry type header
(Retainer mountable type)



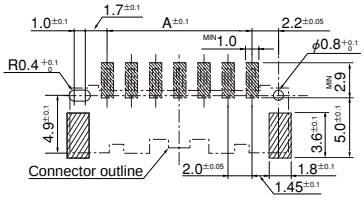
PAF Receptacle +
PA side entry type header

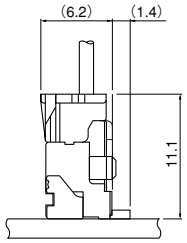
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

PC board layout (viewed from component side) and Assembly layout

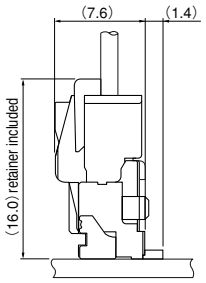
SMT type

Top entry type

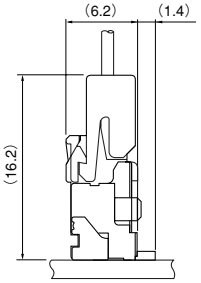




PA Receptacle + PA Header
(Standard type)

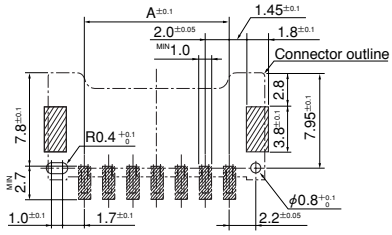


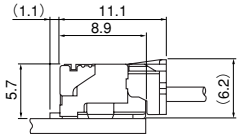
PA Receptacle + PA Header
(Retainer mountable type)



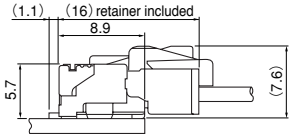
PAF Receptacle + PA Header

Side entry type

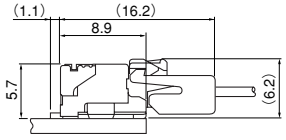




PA Receptacle +
PA side entry type header (SMT)
(Standard type)



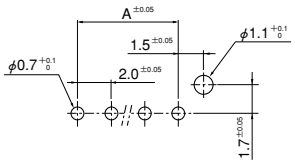
PA Receptacle +
PA side entry type header (SMT)
(Retainer mountable type)

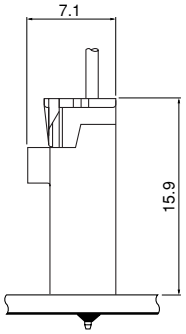


PAF Receptacle +
PA side entry type header (SMT)

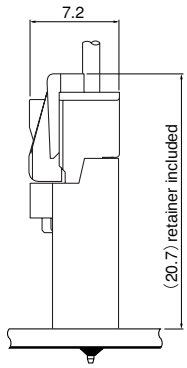
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

High box type

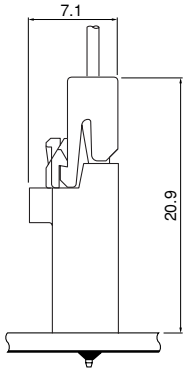




PA Receptacle +
PA high box type header
(Standard type)



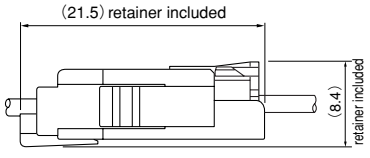
PA Receptacle +
PA high box type header
(Retainer mountable type)



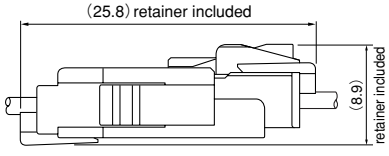
PAF Receptacle +
PA high box type header

Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

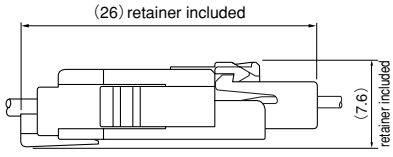
Wire-to-wire



PA Receptacle + PAL Receptacle
(Standard type)

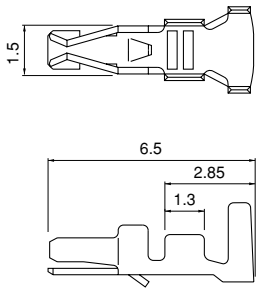


PA Receptacle + PAL Receptacle
(Retainer mountable type)



PAF Receptacle + PAL Receptacle

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SPHD-001T-P0.5	0.13～0.33	26～22	1.0～1.5	8,000
SPHD-002T-P0.5	0.08～0.21	28～24	0.9～1.5	8,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

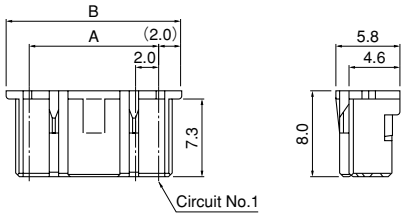
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPHD-002T-P0.5	AP-K2N	MKS-LS-10・MKS-L-10	MK/SPHD-002-05	APLMK SPHD002-05
		*MKS-SC-10	SC/SPHD-002-05	APLSC SPHD002-05
SPHD-001T-P0.5		MKS-LS-10・MKS-L-10	MK/SPHD-001-05	APLMK SPHD001-05
		*MKS-SC-10	SC/SPHD-001-05	APLSC SPHD001-05

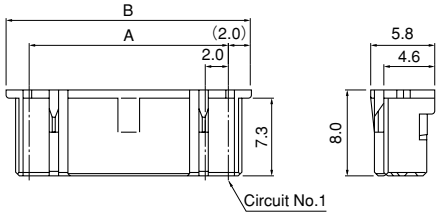
Note: *Strip-crimp applicator

Housing

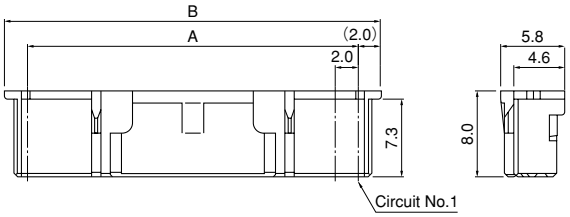
(2 to 9 circuits)



(10 to 15 circuits)



(16 circuits)



Circuits	Model No.	Dimensions (mm)		Q'ty / bag
		A	B	
2	**PAP-02V-S**	2.0	6.0	1,000
3	**PAP-03V-S**	4.0	8.0	1,000
4	**PAP-04V-S**	6.0	10.0	1,000
5	**PAP-05V-S**	8.0	12.0	1,000
6	**PAP-06V-S**	10.0	14.0	1,000
7	**PAP-07V-S**	12.0	16.0	1,000
8	**PAP-08V-S**	14.0	18.0	1,000
9	**PAP-09V-S**	16.0	20.0	1,000
10	**PAP-10V-S**	18.0	22.0	1,000
11	**PAP-11V-S**	20.0	24.0	1,000
12	**PAP-12V-S**	22.0	26.0	1,000
13	**PAP-13V-S**	24.0	28.0	1,000
14	**PAP-14V-S**	26.0	30.0	1,000
15	**PAP-15V-S**	28.0	32.0	1,000
16	**PAP-16V-S**	30.0	34.0	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

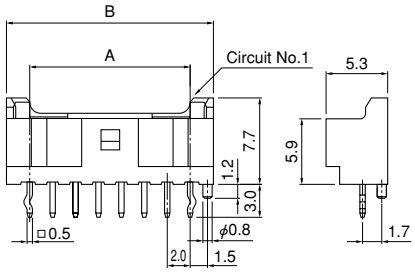
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **PAP-02V-S**
S…natural (white)
K…black R…red E…blue M…green O…orange N…brown
P…purple PK…pink Y…yellow L…lemon yellow FY…vivid yellow
LE…light blue H…gray TR…tomato red

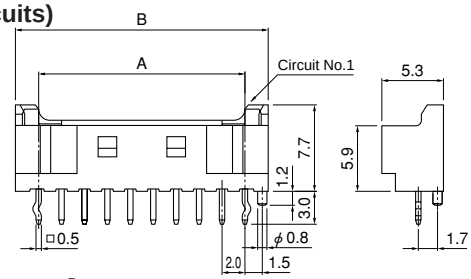
Through-hole type shrouded header

Top entry type

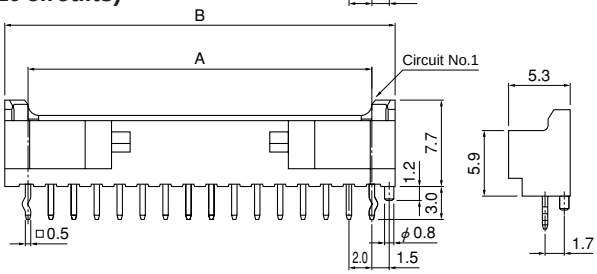
(2 to 9 circuits)



(10 to 15 circuits)

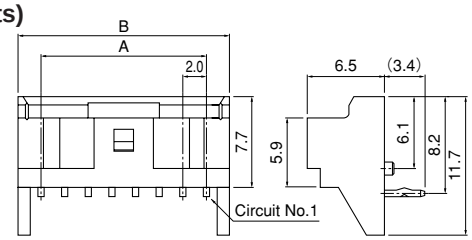


(16 circuits)

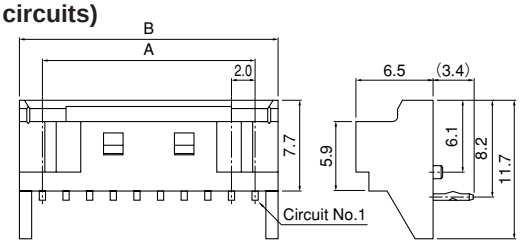


Side entry type

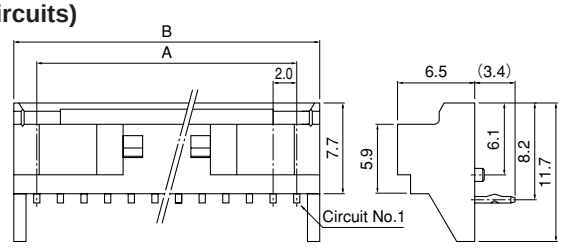
(2 to 9 circuits)



(10 to 15 circuits)



(16 circuits)



Top entry type

Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2 (Note1)	**B02B-PAFYK-A**	**B02B-PAFYK-1A**	2.0	6.0	1,000
2	**B02B-PASK**	**B02B-PASK-1**	2.0	6.0	1,000
3	**B03B-PASK**	**B03B-PASK-1**	4.0	8.0	1,000
4	**B04B-PASK**	**B04B-PASK-1**	6.0	10.0	1,000
5	**B05B-PASK**	**B05B-PASK-1**	8.0	12.0	500
6	**B06B-PASK**	**B06B-PASK-1**	10.0	14.0	500
7	**B07B-PASK**	**B07B-PASK-1**	12.0	16.0	500
8	**B08B-PASK**	**B08B-PASK-1**	14.0	18.0	500
9	**B09B-PASK**	**B09B-PASK-1**	16.0	20.0	500
10	**B10B-PASK**	**B10B-PASK-1**	18.0	22.0	500
11	**B11B-PASK**	**B11B-PASK-1**	20.0	24.0	250
12	**B12B-PASK**	**B12B-PASK-1**	22.0	26.0	250
13	**B13B-PASK**	**B13B-PASK-1**	24.0	28.0	250
14	**B14B-PASK**	**B14B-PASK-1**	26.0	30.0	250
15	**B15B-PASK**	**B15B-PASK-1**	28.0	32.0	250
16	**B16B-PASK**	**B16B-PASK-1**	30.0	34.0	250

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, natural (white)
(Note1) PA 66, UL94V-0, vivid yellow

RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B02B-PASK**
S…natural (white)
K…black R…red E…blue M…green O…orange N…brown
P…purple PK…pink Y…yellow L…lemon yellow FY…vivid yellow
LE…light blue H…gray TR…tomato red

Side entry type

Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
2	**S02B-PASK-2**	2.0	6.0	1,000
3	**S03B-PASK-2**	4.0	8.0	1,000
4	**S04B-PASK-2**	6.0	10.0	500
5	**S05B-PASK-2**	8.0	12.0	500
6	**S06B-PASK-2**	10.0	14.0	500
7	**S07B-PASK-2**	12.0	16.0	250
8	**S08B-PASK-2**	14.0	18.0	250
9	**S09B-PASK-2**	16.0	20.0	250
10	**S10B-PASK-2**	18.0	22.0	250
11	**S11B-PASK-2**	20.0	24.0	250
12	**S12B-PASK-2**	22.0	26.0	250
13	**S13B-PASK-2**	24.0	28.0	200
14	**S14B-PASK-2**	26.0	30.0	200
15	**S15B-PASK-2**	28.0	32.0	200
16	**S16B-PASK-2**	30.0	34.0	200

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*

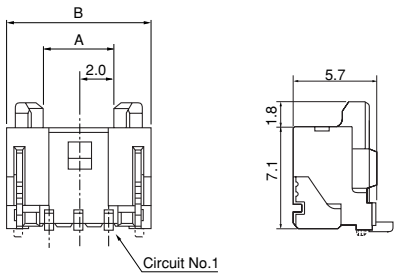
<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **S03B-PASK-2**
S…natural (white)
K…black R…red E…blue M…green O…orange N…brown
P…purple PK…pink Y…yellow L…lemon yellow LE…light blue
H…gray TR…tomato red

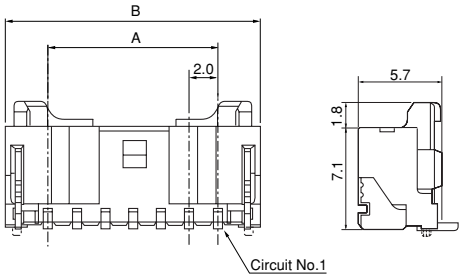
SMT type shrouded header

Top entry type

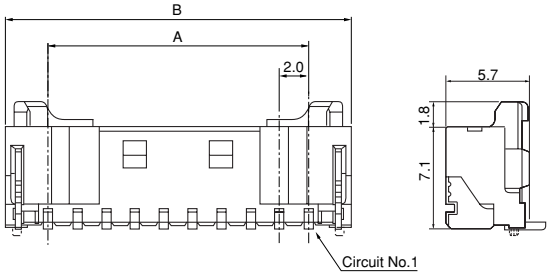
(2 to 3 circuits)



(4 to 9 circuits)

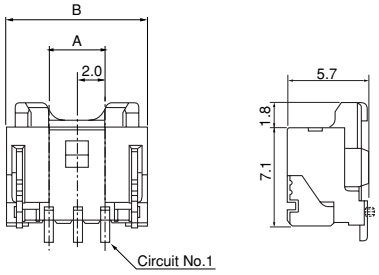


(10 to 13 circuits)

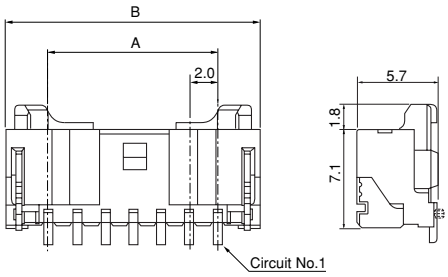


Side entry type

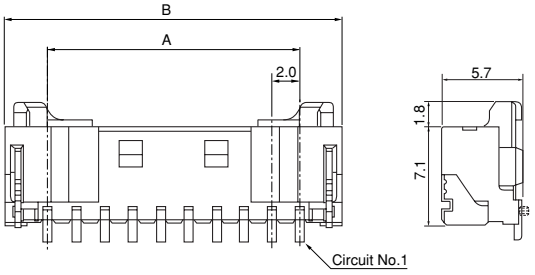
(2 to 3 circuits)



(4 to 9 circuits)



(10 to 12 circuits)



Top entry type

Circuits	Model No.		Dimensions(mm)		Q'ty / reel
	Without a boss	With a boss	A	B	
2	**BM02B-PASS-(*)**	**BM02B-PASS-1-(*)**	2.0	8.0	500
3	**BM03B-PASS-(*)**	**BM03B-PASS-1-(*)**	4.0	10.0	500
4	**BM04B-PASS-(*)**	**BM04B-PASS-1-(*)**	6.0	12.0	500
5	**BM05B-PASS-(*)**	**BM05B-PASS-1-(*)**	8.0	14.0	500
6	**BM06B-PASS-(*)**	**BM06B-PASS-1-(*)**	10.0	16.0	500
7	**BM07B-PASS-(*)**	**BM07B-PASS-1-(*)**	12.0	18.0	500
8	**BM08B-PASS-(*)**	**BM08B-PASS-1-(*)**	14.0	20.0	500
9	**BM09B-PASS-(*)**	**BM09B-PASS-1-(*)**	16.0	22.0	500
10	**BM10B-PASS-(*)**	**BM10B-PASS-1-(*)**	18.0	24.0	500
11	**BM11B-PASS-(*)**	**BM11B-PASS-1-(*)**	20.0	26.0	500
12	**BM12B-PASS-(*)**	**BM12B-PASS-1-(*)**	22.0	28.0	500
13	**BM13B-PASS-(*)**	**BM13B-PASS-1-(*)**	24.0	30.0	500

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: (*): TF…taping product
TFT…taping product with suction tape.

Side entry type

Circuits	Model No.		Dimensions(mm)		Q'ty / reel
	Without a boss	With a boss	A	B	
2	**SM02B-PASS-(*)**	**SM02B-PASS-1-(*)**	2.0	8.0	1,000
3	**SM03B-PASS-(*)**	**SM03B-PASS-1-(*)**	4.0	10.0	1,000
4	**SM04B-PASS-(*)**	**SM04B-PASS-1-(*)**	6.0	12.0	1,000
5	**SM05B-PASS-(*)**	**SM05B-PASS-1-(*)**	8.0	14.0	1,000
6	**SM06B-PASS-(*)**	**SM06B-PASS-1-(*)**	10.0	16.0	1,000
7	**SM07B-PASS-(*)**	**SM07B-PASS-1-(*)**	12.0	18.0	1,000
8	**SM08B-PASS-(*)**	**SM08B-PASS-1-(*)**	14.0	20.0	1,000
9	**SM09B-PASS-(*)**	**SM09B-PASS-1-(*)**	16.0	22.0	1,000
10	**SM10B-PASS-(*)**	**SM10B-PASS-1-(*)**	18.0	24.0	1,000
11	**SM11B-PASS-(*)**	**SM11B-PASS-1-(*)**	20.0	26.0	1,000
12	**SM12B-PASS-(*)**	**SM12B-PASS-1-(*)**	22.0	28.0	1,000

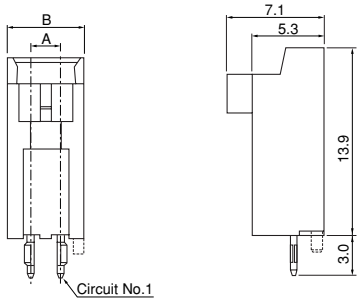
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

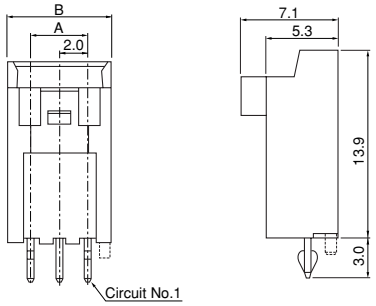
RoHS compliance *This product displays (LF)(SN) on a label.*
Note: (*): TB…taping product
TBT…taping product with suction tape.

Shrouded header <High box type>

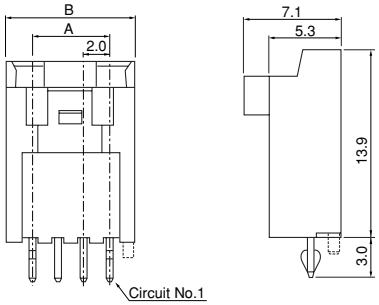
(2 circuits)



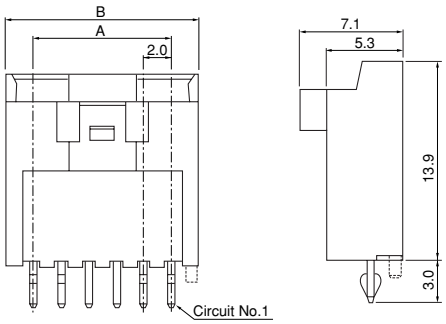
(3 circuits)



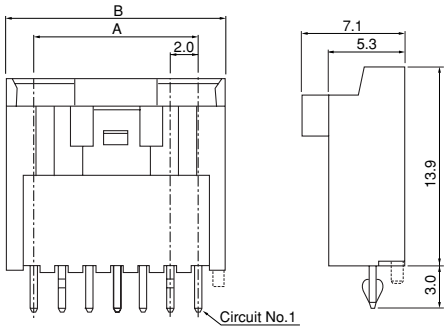
(4 circuits)



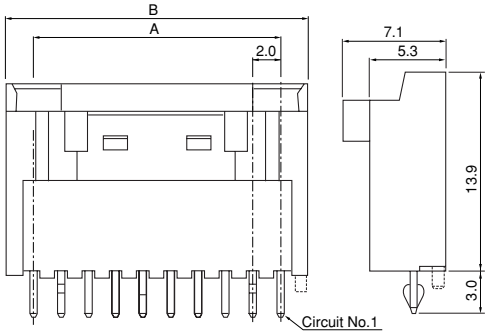
(5, 6 circuits)



(7 to 9 circuits)



(10 to 12, 15 circuits)

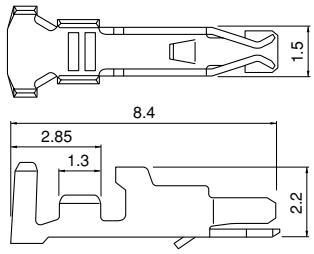


Circuits	Model No.		Dimensions(mm)		Q'ty / box
	Without a boss	With a boss	A	B	
2	**BH02B-PASK**	**BH02B-PASK-1**	2.0	6.0	900
3	**BH03B-PASK**	**BH03B-PASK-1**	4.0	8.0	675
4	**BH04B-PASK**	**BH04B-PASK-1**	6.0	10.0	525
5	**BH05B-PASK**	**BH05B-PASK-1**	8.0	12.0	450
6	**BH06B-PASK**	**BH06B-PASK-1**	10.0	14.0	375
7	**BH07B-PASK**	**BH07B-PASK-1**	12.0	16.0	325
8	**BH08B-PASK**	**BH08B-PASK-1**	14.0	18.0	300
9	**BH09B-PASK**	**BH09B-PASK-1**	16.0	20.0	250
10	**BH10B-PASK**	**BH10B-PASK-1**	18.0	22.0	225
11	**BH11B-PASK**	**BH11B-PASK-1**	20.0	24.0	225
12	**BH12B-PASK**	**BH12B-PASK-1**	22.0	26.0	200
15	**BH15B-PASK**	**BH15B-PASK-1**	28.0	32.0	150

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PBT, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SPA-001T-P0.5	0.13～0.33	26～22	0.9～1.5	10,000

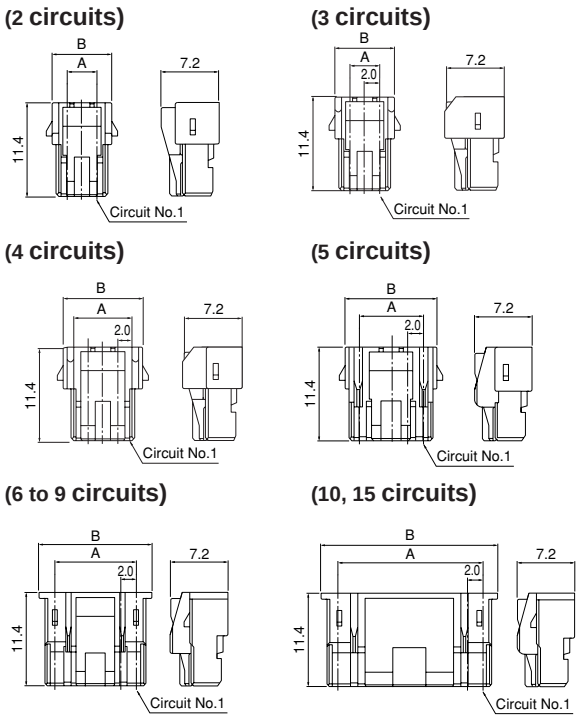
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPA-001T-P0.5	AP-K2N	MKS-L	MK/SPA-001-05	APLMK SPA001-05
		—	—	—

Housing



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	**PARP-02V**	2.0	5.4	1,000
3	**PARP-03V**	4.0	7.4	1,000
4	**PARP-04V**	6.0	9.4	1,000
5	**PARP-05V**	8.0	11.4	1,000
6	**PARP-06V**	10.0	14.0	1,000
7	**PARP-07V**	12.0	16.0	1,000
8	**PARP-08V**	14.0	18.0	1,000
9	**PARP-09V**	16.0	20.0	1,000
10	**PARP-10V**	18.0	22.0	1,000
*15	**PARP-15V**	28.0	32.0	500

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

*Note: *Marked product is not CSA approved.*

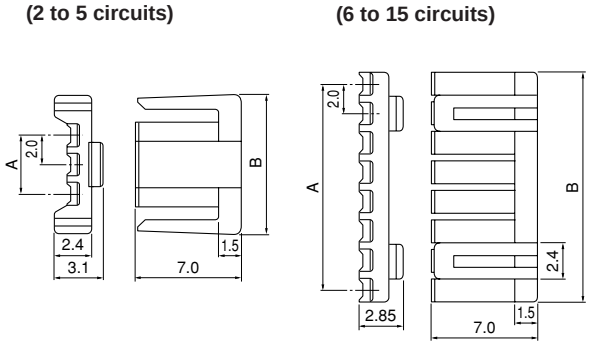
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **PARP-02V-oo**

(blank)…natural (white)

R…red E…blue Y…yellow M…green

Retainer



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	**PMS-02V-S**	2.0	7.3	1,000
3	**PMS-03V-S**	4.0	9.3	1,000
4	**PMS-04V-S**	6.0	11.3	1,000
5	**PMS-05V-S**	8.0	13.3	1,000
6	**PMS-06V-S**	10.0	11.55	1,000
7	**PMS-07V-S**	12.0	13.55	1,000
8	**PMS-08V-S**	14.0	15.55	1,000
* 9	**PMS-09V-S**	16.0	17.55	1,000
*10	**PMS-10V-S**	18.0	19.55	1,000
*15	**PMS-15V-S**	28.0	29.55	1,000

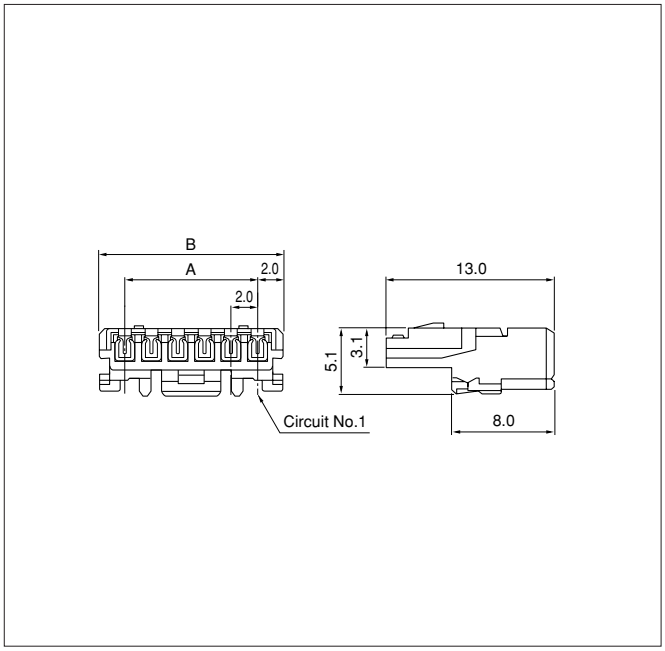
Material

Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

*Note: *Marked products are not CSA approved.*

Receptacle



Circuits	Model No.	Dimensions(mm)		Q'ty / box
		A	B	
2	**02PAF-6S**	2.0	6.0	1,000
3	**03PAF-6S**	4.0	8.0	1,000
4	**04PAF-6S**	6.0	10.0	500
5	**05PAF-6S**	8.0	12.0	500
6	**06PAF-6S**	10.0	14.0	500
7	**07PAF-6S**	12.0	16.0	500
8	**08PAF-6S**	14.0	18.0	250
9	**09PAF-6S**	16.0	20.0	250
10	**10PAF-6S**	18.0	22.0	250
11	**11PAF-6S**	20.0	24.0	250
12	**12PAF-6S**	22.0	26.0	250
13	**13PAF-6S**	24.0	28.0	250
14	**14PAF-6S**	26.0	30.0	250
15	**15PAF-6S**	28.0	32.0	250
*16	**16PAF-6S**	30.0	34.0	250

Material and Finish
Contact: Phosphor bronze, tin-plated (reflow treatment) Housing: PA 66, UL94V-0, natural (white)

RoHS compliance

*Note: *Marked product is not UL/CSA approved.*

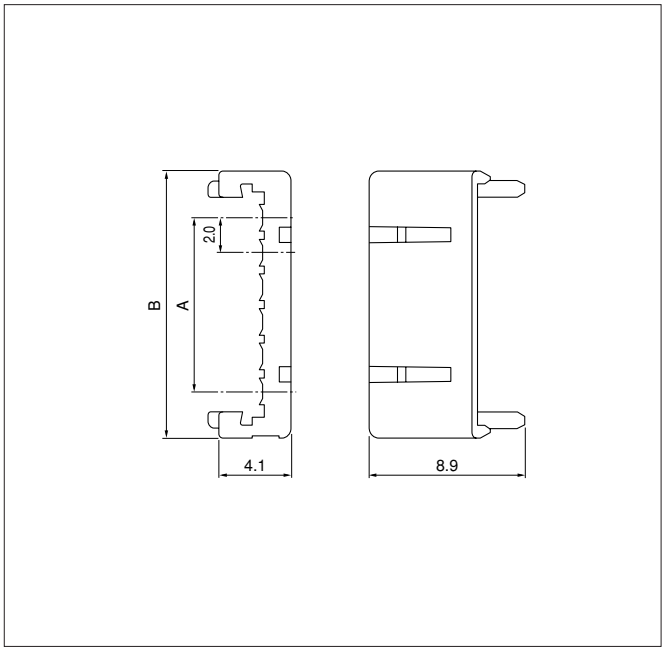
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **02PAF-6S**

S…natural (white)

R…red E…blue M…green Y…yellow

Retainer



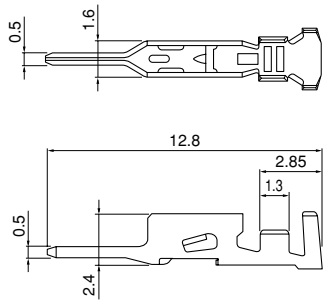
Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	**PAFS-02V-S**	2.0	7.4	1,000
3	**PAFS-03V-S**	4.0	9.4	1,000
4	**PAFS-04V-S**	6.0	11.4	1,000
5	**PAFS-05V-S**	8.0	13.4	1,000
6	**PAFS-06V-S**	10.0	15.4	1,000
7	**PAFS-07V-S**	12.0	17.4	1,000
8	**PAFS-08V-S**	14.0	19.4	1,000
* 9	**PAFS-09V-S**	16.0	21.4	1,000
*10	**PAFS-10V-S**	18.0	23.4	1,000
*11	**PAFS-11V-S**	20.0	25.4	1,000
*12	**PAFS-12V-S**	22.0	27.4	1,000
*13	**PAFS-13V-S**	24.0	29.4	1,000
*14	**PAFS-14V-S**	26.0	31.4	1,000
*15	**PAFS-15V-S**	28.0	33.4	1,000

Material
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS compliance

*Note: *Marked products are not UL/CSA approved.*

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SPAL-001T-P0.5	0.13～0.33	26～22	1.0～1.5	10,000
SPAL-002T-P0.5	0.08～0.21	28～24	0.9～1.5	10,000

Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

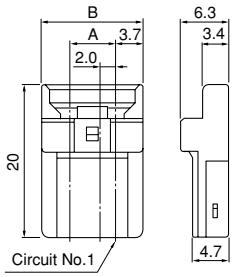
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPAL-001T-P0.5	AP-K2N	MKS-L	MK/SPAL-001-05	APLMK SPAL001-05
		—	—	—
SPAL-002T-P0.5		MKS-L	MK/SPAL-002-05	APLMK SPAL002-05
		—	—	—

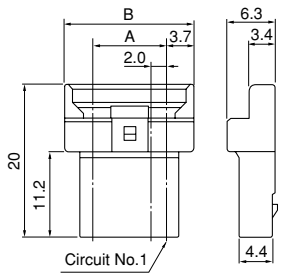
Housing

Without panel locks

(2 to 5 circuits)



(6 to 8 circuits)



Circuits	Model No.	Dimensions(mm)		Q'ty / bag
		A	B	
2	**PALR-02VF**	2.0	9.4	1,000
3	**PALR-03VF**	4.0	11.4	1,000
4	**PALR-04VF**	6.0	13.4	1,000
5	**PALR-05VF**	8.0	15.4	1,000
6	**PALR-06VF**	10.0	17.4	1,000
7	**PALR-07VF**	12.0	19.4	1,000
8	**PALR-08VF**	14.0	21.4	1,000

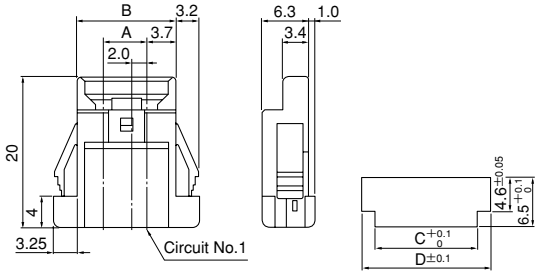
Material

PA 66, UL94V-0, natural (white)

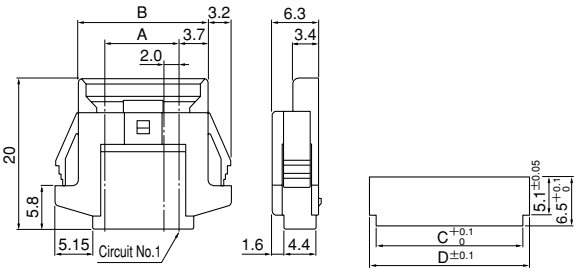
RoHS compliance

With panel locks

(2 to 4 circuits)



(6 to 8 circuits)



Circuits	Model No.	Dimensions(mm)				Q'ty / bag
		A	B	C	D	
2	**PALR-02V**	2.0	9.4	9.8	13.4	1,000
3	**PALR-03V**	4.0	11.4	11.8	15.4	1,000
4	**PALR-04V**	6.0	13.4	13.8	17.4	1,000
6	**PALR-06V**	10.0	17.4	19.8	21.4	1,000
7	**PALR-07V**	12.0	19.4	21.8	23.4	1,000
8	**PALR-08V**	14.0	21.4	23.8	25.4	1,000

Material

PA 66, UL94V-0, natural (white)

RoHS compliance

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

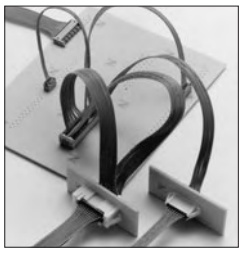
ex. **PALR-02V(F)-oo**

(blank)…natural (white)

R…red E…blue M…green Y…yellow

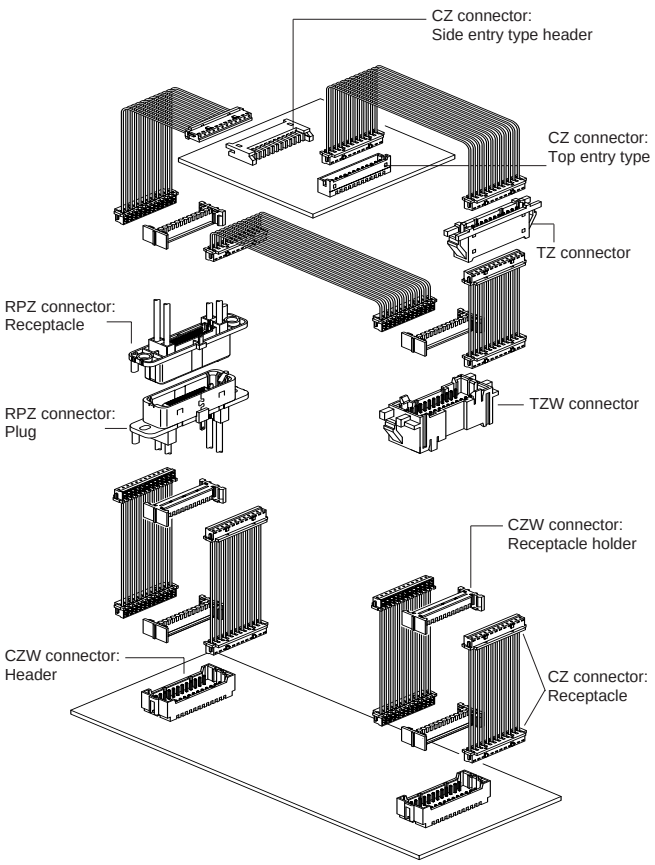
Retainer

Retainers are interchangeable with those of the PA crimp style retainer mountable type.



CZ FAMILY SERIES/CZ・CZW・CZH・CZHW・TZ・TZW

1.5mm pitch/Disconnectable Insulation displacement connectors



※ CZ connector used for the harness shown in the above-mentioned figure can be replaced to CZH connector.

Based upon the 1.5mm pitch CZ connectors, the CZ family connectors have been expanded to meet the requirements of high density packaging. The CZW connector holder allows dual-row wire-to-board connection using the CZ receptacles, while the TZ (single-row) or TZW (dual-row) allows wire-to-wire connection, also using the CZ receptacles.

CZ connector

- ***Distortion resistant construction***
- ***Compact and low profile***

CZW connector

- ***Low insertion force***
- ***Locking construction***

CZH connector

- ***Housing lance***
- ***Intarchangeability***

TZ/TZW connector

- ***The TZ connector is applicable to single-row connection, while the TZW connector is for dual-row connection.***
- ***Applicable to wide range of panel thickness***
- ***The design of the panel lock part does not allow the wires to be caught there before mounting on the panel.***

Standards

Recognized E60389
Certified LR20812

Specifications

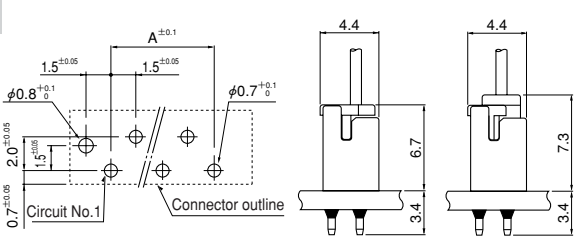
Item \ Series	CZ・CZW connector	CZH・CZHW connector	TZ・TZW connector
Current rating	2A AC・DC (AWG #26)		
Voltage rating	100V AC, DC		
Temperature rise	−25℃～+85℃ (including temperature rise)		
Contact resistance	Initial value / 10mΩ max. After environmental testing / 20mΩ max.		Initial value / 20mΩ max. After environmental testing / 40mΩ max.
Insulation resistance	500MΩ min		
Withstanding voltage	500V AC/minute		
Applicable wire	UL10272 (Contact JST for other UL style wires.) AWG#28, #26 Conductor / 7-strands, tincoated annealed copper Insulation O.D. / 0.7～0.83mm	AWG#28～#26	—
Applicable PC board thickness	1.6mm		—
Applicable panel thickness	—		0.5～2.0mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

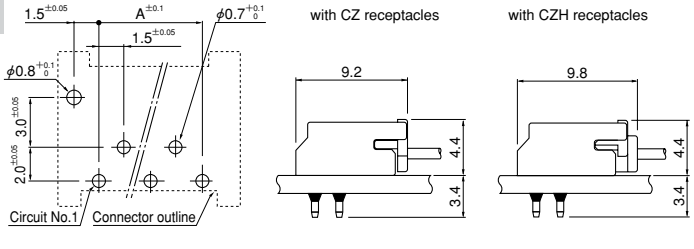
PC board layout (viewed from component side) and Assembly layout

<CZ connector through-hole type>

Top entry type



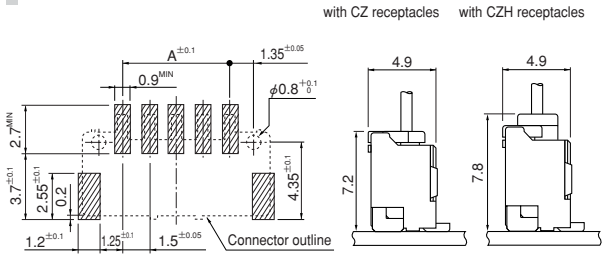
Side entry type



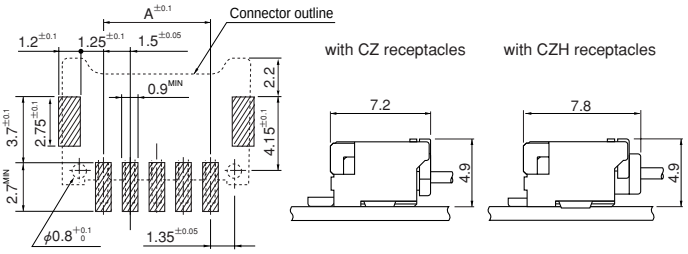
Note:1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

<CZ connector SMT type>

Top entry type

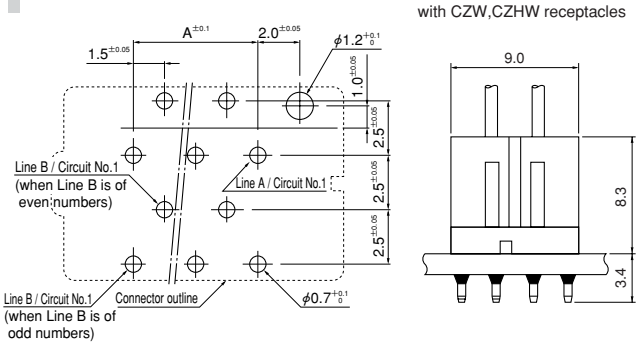


Side entry type

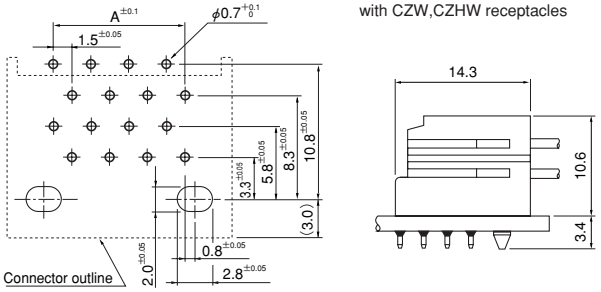


<CZW connector through-hole type>

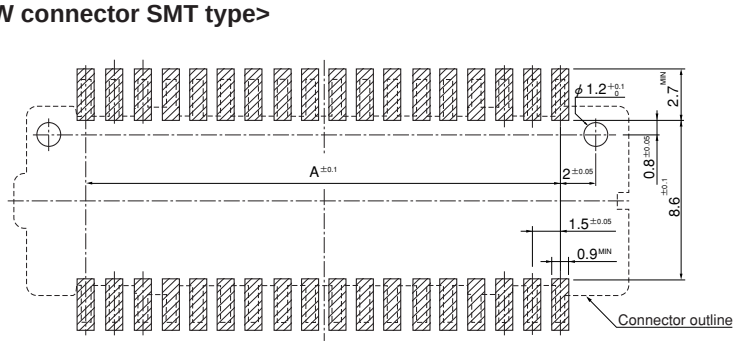
Top entry type



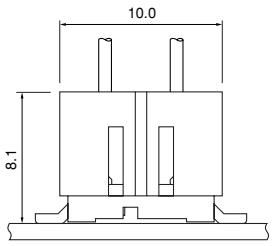
Side entry type



<CZW connector SMT type>

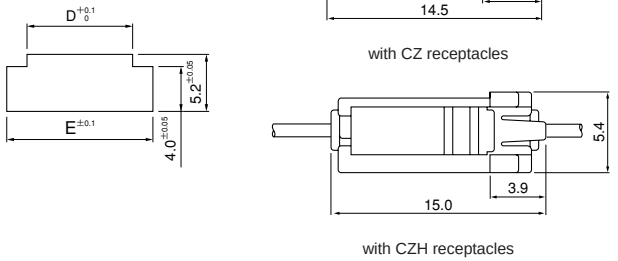


with CZHW receptacles



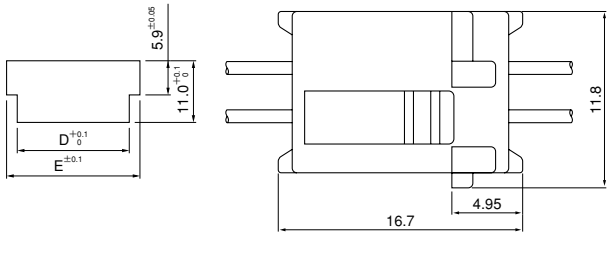
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

<TZ connector>



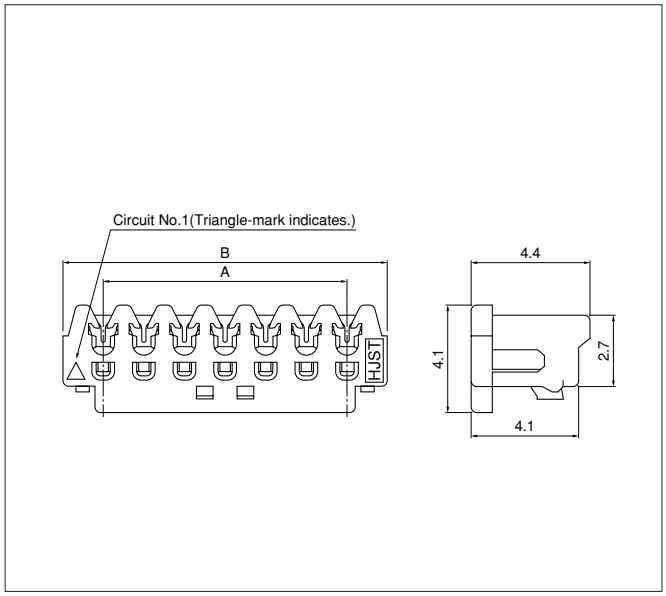
D,E dimensions: Refer to TZ connector (Until for wire-to-wire connection).

<TZW connector>



D,E dimensions: Refer to TZ connector (Dual-row until for wire-to-wire connection).

CZ connector receptacle



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Gray	Yellow	A	B	
2	**02CZ-6H**	**02CZ-6Y**	1.5	4.5	2,000
3	**03CZ-6H**	**03CZ-6Y**	3.0	6.0	2,000
4	**04CZ-6H**	**04CZ-6Y**	4.5	7.5	2,000
5	**05CZ-6H**	**05CZ-6Y**	6.0	9.0	2,000
6	**06CZ-6H**	**06CZ-6Y**	7.5	10.5	2,000
7	**07CZ-6H**	**07CZ-6Y**	9.0	12.0	2,000
8	**08CZ-6H**	**08CZ-6Y**	10.5	13.5	2,000
9	**09CZ-6H**	**09CZ-6Y**	12.0	15.0	1,000
10	**10CZ-6H**	**10CZ-6Y**	13.5	16.5	1,000
11	**11CZ-6H**	**11CZ-6Y**	15.0	18.0	1,000
12	**12CZ-6H**	**12CZ-6Y**	16.5	19.5	1,000
13	**13CZ-6H**	**13CZ-6Y**	18.0	21.0	1,000
14	**14CZ-6H**	**14CZ-6Y**	19.5	22.5	1,000
15	**15CZ-6H**	**15CZ-6Y**	21.0	24.0	1,000
16	**16CZ-6H**	**16CZ-6Y**	22.5	25.5	1,000
17	**17CZ-6H**	**17CZ-6Y**	24.0	27.0	1,000
18	**18CZ-6H**	**18CZ-6Y**	25.5	28.5	1,000
19	**19CZ-6H**	**19CZ-6Y**	27.0	30.0	1,000
20	**20CZ-6H**	**20CZ-6Y**	28.5	31.5	1,000

Material and Finish

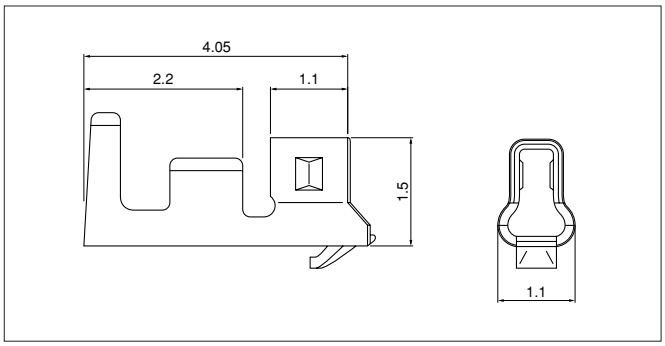
Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **02CZ-6H**
Y…yellow H…natural (grayish color)

CZH connector Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty / reel
	mm²	AWG #		
SCZH-002T-P0.5	0.08～0.13	28～26	0.8～1.1	13,000

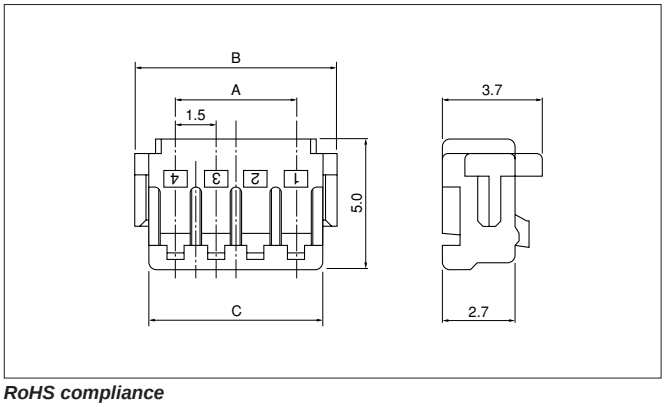
Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCZH-002T-P0.5	AP-K2N	MKS-L	MK/SCZH-002-05	APLMK SCZH002-05
		—	—	—

CZH connector Housing



RoHS compliance

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

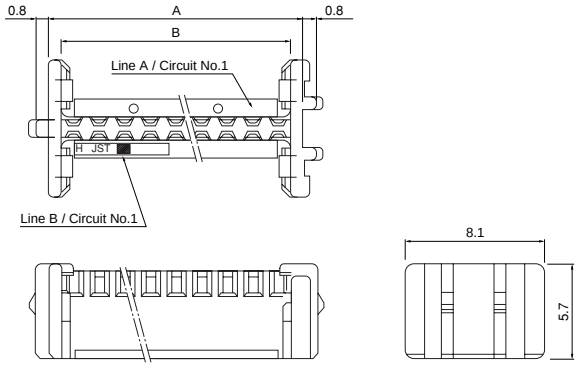
ex. **CZHR-02V-S**
S…natural (white)
K…black H…gray Y…yellow

Circuits	Model No.	Dimensions(mm)			Q'ty / box
		A	B	C	
2	**CZHR-02V-S**	1.5	4.5	3.5	1,000
3	**CZHR-03V-S**	3.0	6.0	5.0	1,000
4	**CZHR-04V-S**	4.5	7.5	6.5	1,000
5	**CZHR-05V-S**	6.0	9.0	8.0	1,000
6	**CZHR-06V-S**	7.5	10.5	9.5	1,000
7	**CZHR-07V-S**	9.0	12.0	11.0	1,000
8	**CZHR-08V-S**	10.5	13.5	12.5	1,000
9	**CZHR-09V-S**	12.0	15.0	14.0	1,000
10	**CZHR-10V-S**	13.5	16.5	15.5	1,000
11	**CZHR-11V-S**	15.0	18.0	17.0	1,000
12	**CZHR-12V-S**	16.5	19.5	18.5	1,000
13	**CZHR-13V-S**	18.0	21.0	20.0	1,000
14	**CZHR-14V-S**	19.5	22.5	21.5	1,000
15	**CZHR-15V-S**	21.0	24.0	23.0	1,000
16	**CZHR-16V-S**	22.5	25.5	24.5	1,000
17	**CZHR-17V-S**	24.0	27.0	26.0	1,000
19	**CZHR-19V-S**	27.0	30.0	29.0	1,000
20	**CZHR-20V-S**	28.5	31.5	30.5	1,000

Material

PBT, UL94V-0, natural (white)

CZW connector holder



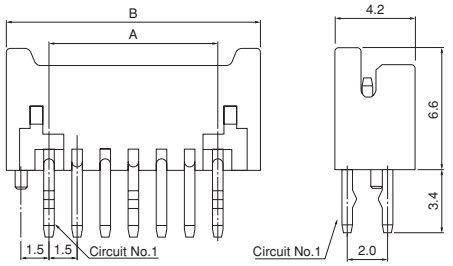
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
16	**CZWH-16-S**	14.9	13.5	1,000
18	**CZWH-18-S**	16.4	15.0	1,000
20	**CZWH-20-S**	17.9	16.5	1,000
22	**CZWH-22-S**	19.4	18.0	1,000
24	**CZWH-24-S**	20.9	19.5	1,000
26	**CZWH-26-S**	22.4	21.0	1,000
28	**CZWH-28-S**	23.9	22.5	1,000
30	**CZWH-30-S**	25.4	24.0	1,000
32	**CZWH-32-S**	26.9	25.5	1,000
34	**CZWH-34-S**	28.4	27.0	1,000
36	**CZWH-36-S**	29.9	28.5	1,000
38	**CZWH-38-S**	31.4	30.0	1,000
40	**CZWH-40-S**	32.9	31.5	1,000

Material
PBT, UL94V-0, natural (white)

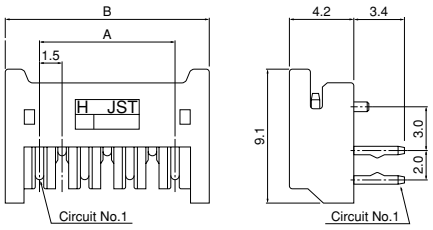
RoHS compliance

CZ connector through-hole type shrouded header

Top entry type



Side entry type



<For reference> *As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.*

ex. **B02B-CZHK-B-1** *H…natural (grayish color) Y…yellow K…black*

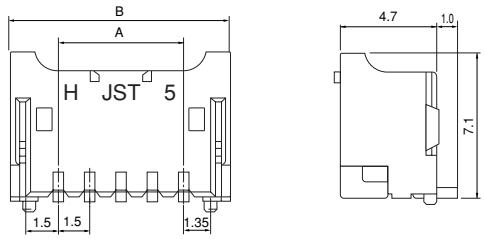
Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	**B02B-CZHK-B-1**	**S02B-CZHK-B-1**	1.5	6.0	2,072	1,480
3	**B03B-CZHK-B-1**	**S03B-CZHK-B-1**	3.0	7.5	1,624	1,160
4	**B04B-CZHK-B-1**	**S04B-CZHK-B-1**	4.5	9.0	1,344	960
5	**B05B-CZHK-B-1**	**S05B-CZHK-B-1**	6.0	10.5	1,176	840
6	**B06B-CZHK-B-1**	**S06B-CZHK-B-1**	7.5	12.0	1,008	720
7	**B07B-CZHK-B-1**	**S07B-CZHK-B-1**	9.0	13.5	896	640
8	**B08B-CZHK-B-1**	**S08B-CZHK-B-1**	10.5	15.0	784	560
9	**B09B-CZHK-B-1**	**S09B-CZHK-B-1**	12.0	16.5	728	520
10	**B10B-CZHK-B-1**	**S10B-CZHK-B-1**	13.5	18.0	672	480
11	**B11B-CZHK-B-1**	**S11B-CZHK-B-1**	15.0	19.5	616	440
12	**B12B-CZHK-B-1**	**S12B-CZHK-B-1**	16.5	21.0	560	400
13	**B13B-CZHK-B-1**	**S13B-CZHK-B-1**	18.0	22.5	504	360
14	**B14B-CZHK-B-1**	**S14B-CZHK-B-1**	19.5	24.0	504	360
15	**B15B-CZHK-B-1**	**S15B-CZHK-B-1**	21.0	25.5	448	320
16	**B16B-CZHK-B-1**	**S16B-CZHK-B-1**	22.5	27.0	448	320
17	**B17B-CZHK-B-1**	**S17B-CZHK-B-1**	24.0	28.5	392	280
18	**B18B-CZHK-B-1**	**S18B-CZHK-B-1**	25.5	30.0	392	280
19	**B19B-CZHK-B-1**	**S19B-CZHK-B-1**	27.0	31.5	392	280
20	**B20B-CZHK-B-1**	**S20B-CZHK-B-1**	28.5	33.0	336	240

Material and Finish
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural (grayish color) *Note: Models B( )B-CZHK-B are the headers without the boss.* *Note: Models S( )B-CZHK-B are the headers without the boss.*

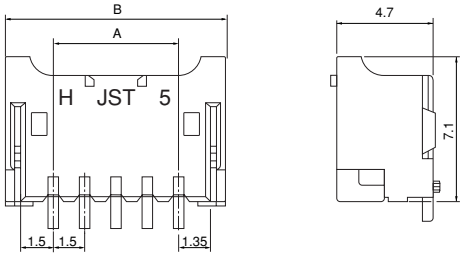
RoHS compliance *This product displays (LF)(SN) on a label.*

CZ connector SMT type shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions(mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	**BM02B-CZSS-1-TF**	**SM02B-CZSS-1-TB**	1.5	6.0	800	1,250
4	**BM04B-CZSS-1-TF**	**SM04B-CZSS-1-TB**	4.5	9.0	800	1,250
5	**BM05B-CZSS-1-TF**	**SM05B-CZSS-1-TB**	6.0	10.5	800	1,250
6	**BM06B-CZSS-1-TF**	—	7.5	12.0	800	—
8	**BM08B-CZSS-1-TF**	—	10.5	15.0	800	—
10	**BM10B-CZSS-1-TF**	**SM10B-CZSS-1-TB**	13.5	18.0	800	1,250
13	**BM13B-CZSS-1-TF**	**SM13B-CZSS-1-TB**	18.0	22.5	800	1,250
14	**BM14B-CZSS-1-TF**	—	19.5	24.0	800	—
15	**BM15B-CZSS-1-TF**	—	21.0	25.5	800	—
16	**BM16B-CZSS-1-TF**	**SM16B-CZSS-1-TB**	22.5	27.0	800	1,250
17	**BM17B-CZSS-1-TF**	—	24.0	28.5	800	—
20	**BM20B-CZSS-1-TF**	—	28.5	33.0	800	—

Material and Finish
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: PA, UL94V-0, natural (ivory) Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment) *Note: Models BM( )B-CZSS-TF are the headers without the boss.* *Note: Models SM( )B-CZSS-TF are the headers without the boss.*

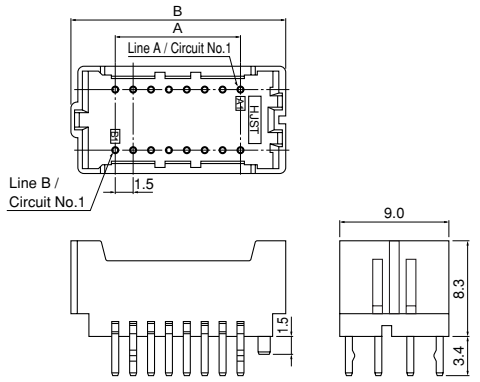
RoHS compliance *This product displays (LF)(SN) on a label.*

<For reference> *As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.*

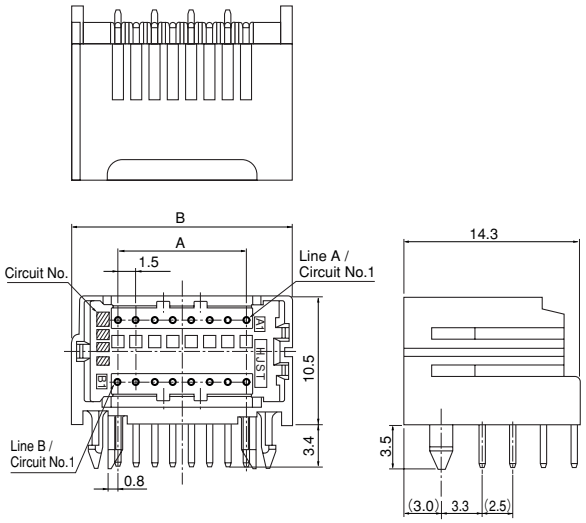
ex. **B02B-CZSS-1-TF** *S…natural (ivory) H…gray*

CZW connector through-hole type shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
16	**B16B-CZWHK-B-1**	—	10.5	18.0	420	—
18	**B18B-CZWHK-B-1**	—	12.0	19.5	385	—
20	**B20B-CZWHK-B-1**	**S20B-CZWHS-B-1**	13.5	21.0	350	280
22	**B22B-CZWHK-B-1**	—	15.0	22.5	315	—
24	**B24B-CZWHK-B-1**	—	16.5	24.0	315	—
26	**B26B-CZWHK-B-1**	**S26B-CZWHS-B-1**	18.0	25.5	280	224
28	**B28B-CZWHK-B-1**	—	19.5	27.0	280	—
30	**B30B-CZWHK-B-1**	—	21.0	28.5	245	—
32	**B32B-CZWHK-B-1**	—	22.5	30.0	245	—
34	**B34B-CZWHK-B-1**	—	24.0	31.5	245	—
36	**B36B-CZWHK-B-1**	—	25.5	33.0	210	—
38	**B38B-CZWHK-B-1**	—	27.0	34.5	210	—
40	**B40B-CZWHK-B-1**	**S40B-CZWHS-B-1**	28.5	36.0	210	168

Material and Finish
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PA 66, UL94V-0, natural (grayish color) *Note: Models B( )B-CZWHK-B are the headers without the boss.*

RoHS compliance *This product displays (LF)(SN) on a label.*

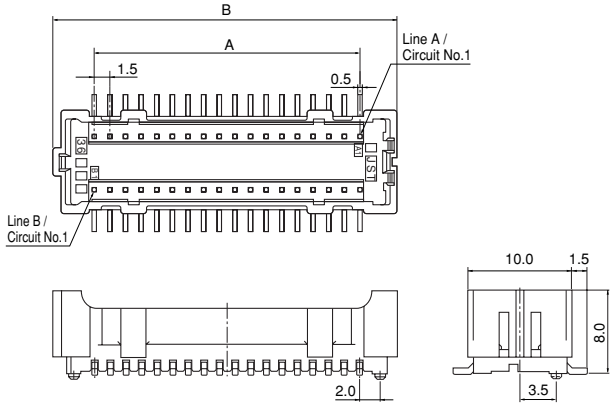
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B16B-CZWHK-B-1**

H…natural (grayish color)
Y…yellow

CZW connector SMT type shrouded header

Top entry type

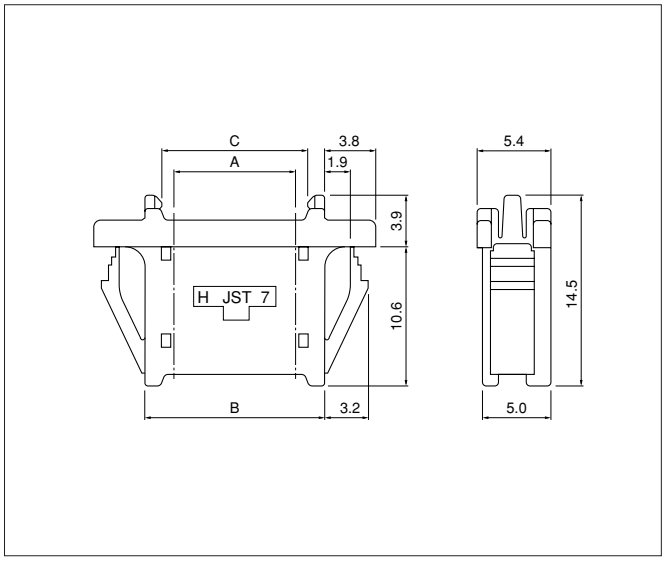


Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
36	**BM36B-CZWSS-1-TF**	25.5	33.0	300
40	**BM40B-CZWSS-1-TF**	28.5	36.0	300

Material and Finish
Press pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: PA, UL94V-0, natural (ivory) *Note: Models BM( )B-CZWSS-TF are the headers without the boss.*

RoHS compliance *This product displays (LF)(SN) on a label.*

TZ connector (Unit for wire-to-wire connection)

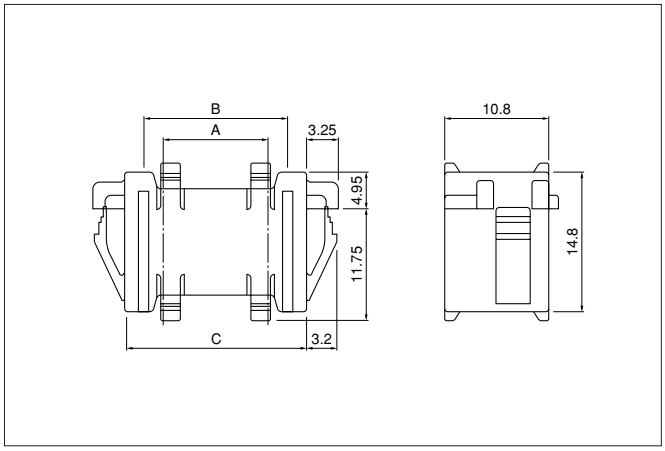


Circuits	Model No.	Dimensions (mm)					Q'ty / box
		A	B	C	D	E	
2	**BU02P-TZ-S**	1.5	5.9	3.5	6.3	9.9	500
3	**BU03P-TZ-S**	3.0	7.4	5.0	7.8	11.4	500
4	**BU04P-TZ-S**	4.5	8.9	6.5	9.3	12.9	500
5	**BU05P-TZ-S**	6.0	10.4	8.0	10.8	14.4	500
6	**BU06P-TZ-S**	7.5	11.9	9.5	12.3	15.9	250
7	**BU07P-TZ-S**	9.0	13.4	11.0	13.8	17.4	250
8	**BU08P-TZ-S**	10.5	14.9	12.5	15.3	18.9	250
9	**BU09P-TZ-S**	12.0	16.4	14.0	16.8	20.4	250
10	**BU10P-TZ-S**	13.5	17.9	15.5	18.3	21.9	250
11	**BU11P-TZ-S**	15.0	19.4	17.0	19.8	23.4	250
12	**BU12P-TZ-S**	16.5	20.9	18.5	21.3	24.9	250
13	**BU13P-TZ-S**	18.0	22.4	20.0	22.8	26.4	250
14	**BU14P-TZ-S**	19.5	23.9	21.5	24.3	27.9	250
15	**BU15P-TZ-S**	21.0	25.4	23.0	25.8	29.4	250
16	**BU16P-TZ-S**	22.5	26.9	24.5	27.3	30.9	250
17	**BU17P-TZ-S**	24.0	28.4	26.0	28.8	32.4	250
18	**BU18P-TZ-S**	25.5	29.9	27.5	30.3	33.9	150
19	**BU19P-TZ-S**	27.0	31.4	29.0	31.8	35.4	150
20	**BU20P-TZ-S**	28.5	32.9	30.5	33.3	36.9	100

Material and Finish
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*

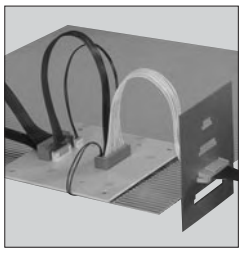
TZW connector (Dual-row unit for wire-to-wire connection)



Circuits	Model No.	Dimensions (mm)					Q'ty / box
		A	B	C	D	E	
16	**BU16P-TZW-S**	10.5	15.0	19.0	19.4	23.0	160
18	**BU18P-TZW-S**	12.0	16.5	20.5	20.9	24.5	140
20	**BU20P-TZW-S**	13.5	18.0	22.0	22.4	26.0	140
22	**BU22P-TZW-S**	15.0	19.5	23.5	23.9	27.5	140
24	**BU24P-TZW-S**	16.5	21.0	25.0	25.4	29.0	120
26	**BU26P-TZW-S**	18.0	22.5	26.5	26.9	30.5	120
28	**BU28P-TZW-S**	19.5	24.0	28.0	28.4	32.0	120
30	**BU30P-TZW-S**	21.0	25.5	29.5	29.9	33.5	100
32	**BU32P-TZW-S**	22.5	27.0	31.0	31.4	35.0	100
34	**BU34P-TZW-S**	24.0	28.5	32.5	32.9	36.5	100
36	**BU36P-TZW-S**	25.5	30.0	34.0	34.4	38.0	100
38	**BU38P-TZW-S**	27.0	31.5	35.5	35.9	39.5	100
40	**BU40P-TZW-S**	28.5	33.0	37.0	37.4	41.0	80

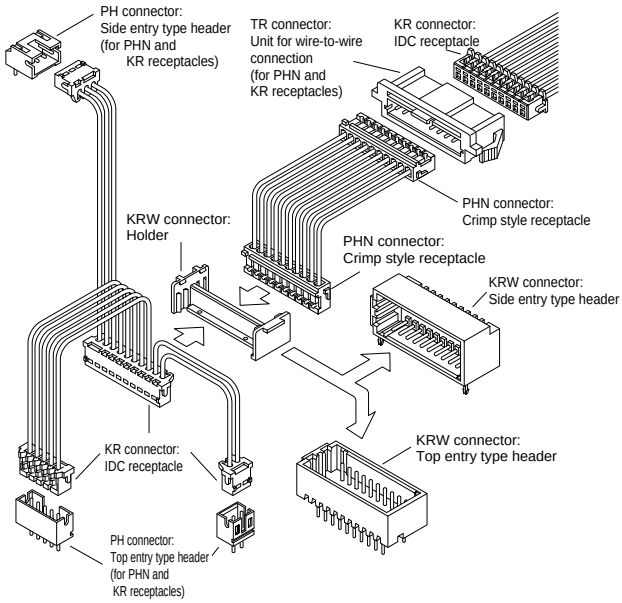
Material and Finish
Pin: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural (white)

RoHS compliance *This product displays (LF)(SN) on a label.*



KR FAMILY SERIES/KRW・KR・PHN・TR CONNECTOR

2.0mm pitch/Disconnectable Insulation displacement and Crimp style connectors



Based upon JST's field proven KR series connectors, the KR series family of connectors have been expanded to meet the requirements of high density packaging. The KRW connector allows double-row wire-to-board connection using either the KR or PHN connectors. Whilst the TR connector allows wire-to-wire connection, also using either the KR or PHN connectors.

- ***Multi-IDC-harnesses are possible***
- ***Various types of connectors***
- ***Cost reduction***
- ***Two types of circuit layouts***

Specifications

Item \ Series	KRW connector	TR・TRW connector
Curren rating	1.0A AC,DC（AWG#26）	
Voltage rating	100V AC,DC	
Temperaure rise	−25℃ to +85℃（including temperature rise）	
Contact rasistance	initial／10mΩmax. After environmental testing／20mΩmax.	
Insulation resistance	1,000MΩmin.	
Withstanding voltage	800V AC/minute	
Applicable connector	KR connector, CR connector, PHN connector	
Applicable PC board thickness	1.6mm	—
Applicable panel thickness	—	0.5mm～2.0mm

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Standards

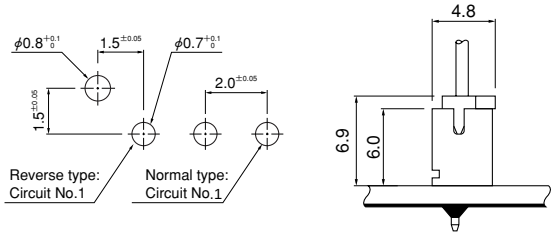
- Recognized E60389
- Certified LR20812
- R75087: PH, PHN connectors
- R75088: KR connector
- R9851222: KRW connector
- R9851223: TR connector

PC board layout and Assembly layout

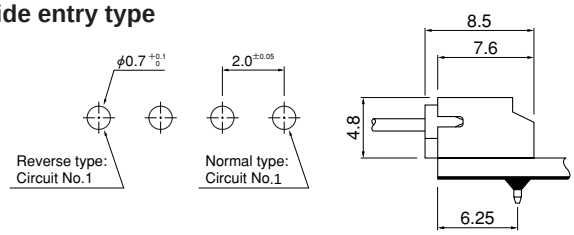
Single-row shrouded header

<Through-hole type(viewed from component side)>

Top entry type



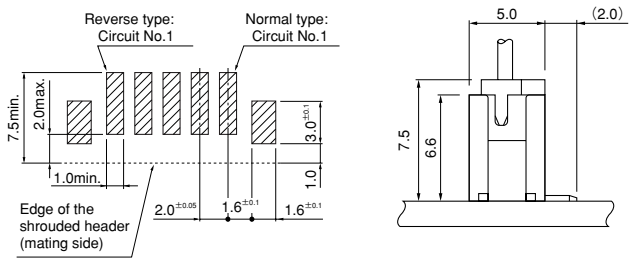
Side entry type



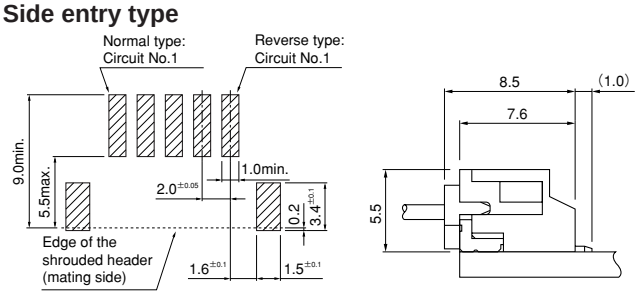
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

<SMTtype(viewed from soldering side)>

Top entry type



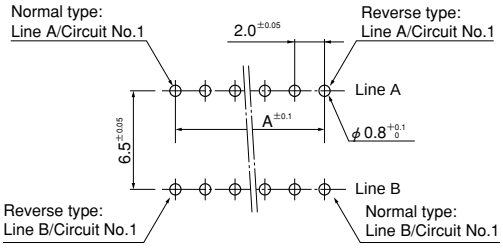
Side entry type

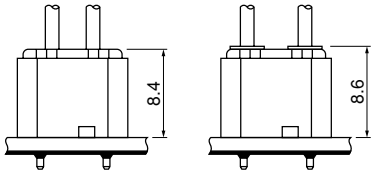


Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Double-row shrouded header
(viewed from component side)

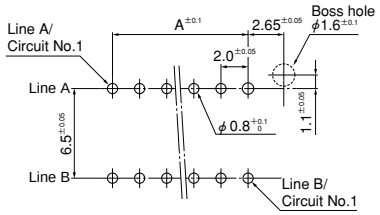
Top entry type



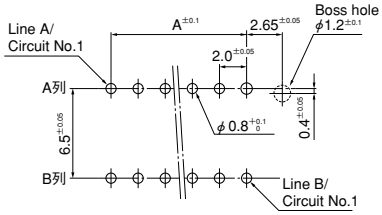


with KR receptacles with PHN receptacles

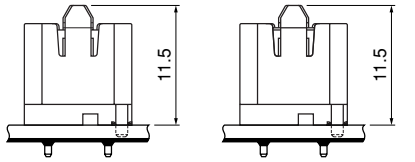
With locks



(With a standard boss)



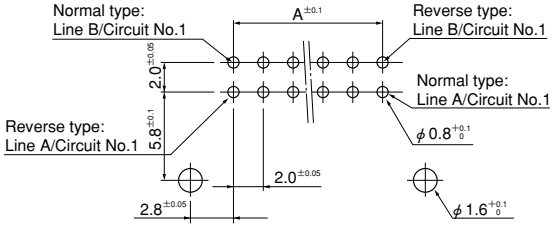
(With a compact boss)

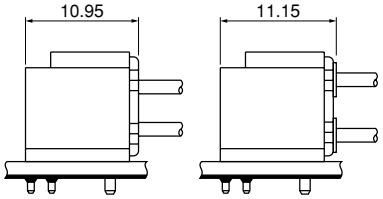


with KR receptacles (With a standard boss)

with PHN receptacles (With a standard boss)

Side entry type



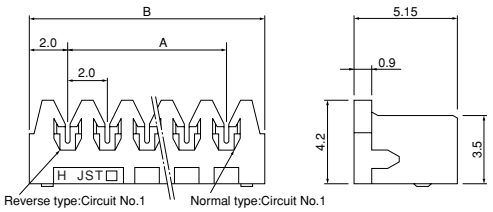


with KR receptacles with PHN receptacles

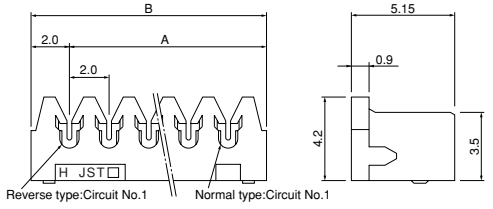
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

Insulation displacement connector (Receptacle)

(2 to 12 circuits)



(13 to 16 circuits)



Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Normal type	Reverse type	A	B	
2	**02KR-6H-P**	**02KR-6H-PC**	2.0	6.0	2,000
3	**03KR-6H-P**	**03KR-6H-PC**	4.0	8.0	2,000
4	**04KR-6H-P**	**04KR-6H-PC**	6.0	10.0	2,000
5	**05KR-6H-P**	**05KR-6H-PC**	8.0	12.0	2,000
6	**06KR-6H-P**	**06KR-6H-PC**	10.0	14.0	2,000
7	**07KR-6H-P**	**07KR-6H-PC**	12.0	16.0	1,000
8	**08KR-6H-P**	**08KR-6H-PC**	14.0	18.0	1,000
9	**09KR-6H-P**	**09KR-6H-PC**	16.0	20.0	1,000
10	**10KR-6H-P**	**10KR-6H-PC**	18.0	22.0	1,000
11	**11KR-6H-P**	**11KR-6H-PC**	20.0	24.0	1,000
12	**12KR-6H-P**	**12KR-6H-PC**	22.0	26.0	1,000
13	**13KR-6H-P**	**13KR-6H-PC**	24.0	28.0	500
14	**14KR-6H-P**	**14KR-6H-PC**	26.0	30.0	500
15	**15KR-6H-P**	**15KR-6H-PC**	28.0	32.0	500
16	**16KR-6H-P**	**16KR-6H-PC**	30.0	34.0	500

Material and Finish

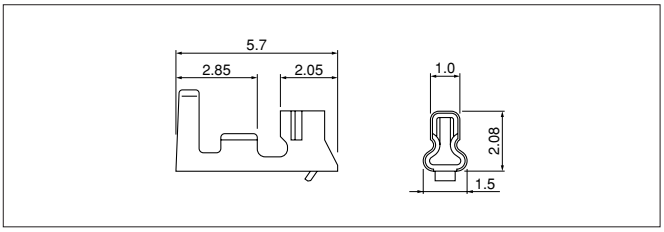
Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: 2 to 12 circuits...PA 66, UL94V-0, gray
13 to 16 circuits...Glass-filled PA 66, UL94V-0, gray

Applicable wire

UL1571, 1061(Contact JST for other UL styles.)
AWG#28, #26
Conductor / 7 strands, tin-plated annealed copper
Insulation O.D. / 0.9 to 1.0mm

RoHS compliance

Crimp style connector (Contact)



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
	mm²	AWG#		
SPH-002T-P0.5L	0.08～0.22	28～24	0.8～1.5	8,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

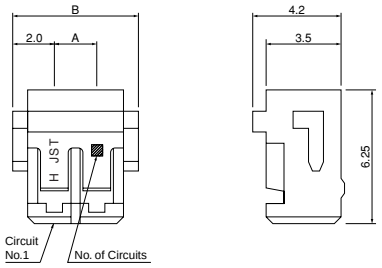
RoHS compliance
Note: SPH-002T-P0.5S is also available.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPH-002T-P0.5L	AP-K2N	MKS-LS・MKS-L	MK/SPH-002-05L	APLMK SPH002-05L
		*MKS-SC	SC/SPH-002-05L	APLSC SPH002-05L

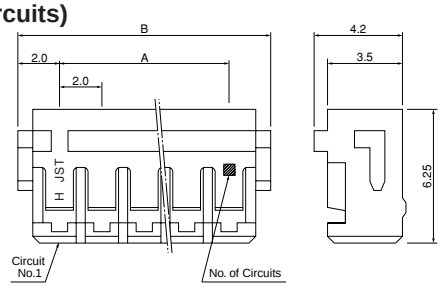
*Note: *Strip-crimp applicator*

Crimp style connector (Housing)

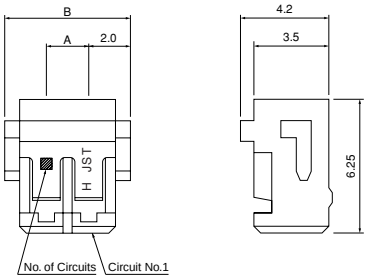
Normal type (2 circuits)



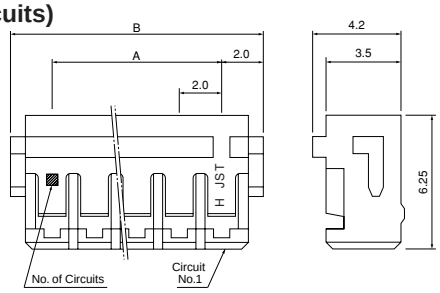
(3 to 16 circuits)



Reverse type (2 circuits)



(3 to 16 circuits)



Circuits	Model No.		Dimensions (mm)		Q'ty / bag
	Normal type	Reverse type	A	B	
2	**PHNR-02-H**	**PHNR-02C-H**	2.0	6.0	1,000
3	**PHNR-03-H**	**PHNR-03C-H**	4.0	8.0	1,000
4	**PHNR-04-H**	**PHNR-04C-H**	6.0	10.0	1,000
5	**PHNR-05-H**	**PHNR-05C-H**	8.0	12.0	1,000
6	**PHNR-06-H**	**PHNR-06C-H**	10.0	14.0	1,000
7	**PHNR-07-H**	**PHNR-07C-H**	12.0	16.0	1,000
8	**PHNR-08-H**	**PHNR-08C-H**	14.0	18.0	1,000
9	**PHNR-09-H**	**PHNR-09C-H**	16.0	20.0	1,000
10	**PHNR-10-H**	**PHNR-10C-H**	18.0	22.0	1,000
11	**PHNR-11-H**	**PHNR-11C-H**	20.0	24.0	1,000
12	**PHNR-12-H**	**PHNR-12C-H**	22.0	26.0	1,000
13	**PHNR-13-H**	**PHNR-13C-H**	24.0	28.0	1,000
14	**PHNR-14-H**	**PHNR-14C-H**	26.0	30.0	1,000
15	**PHNR-15-H**	**PHNR-15C-H**	28.0	32.0	1,000
16	**PHNR-16-H**	**PHNR-16C-H**	30.0	34.0	1,000

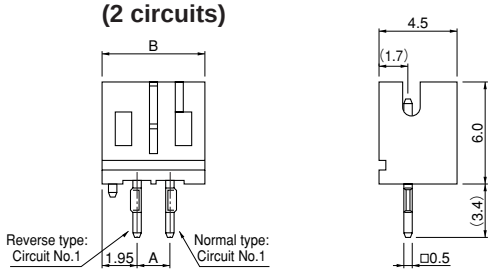
Material
PA 66, UL94V-0, gray

RoHS compliance

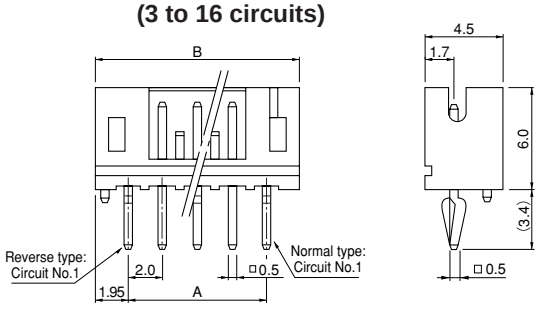
Single-row shrouded header (Through-hole type)

Top entry type

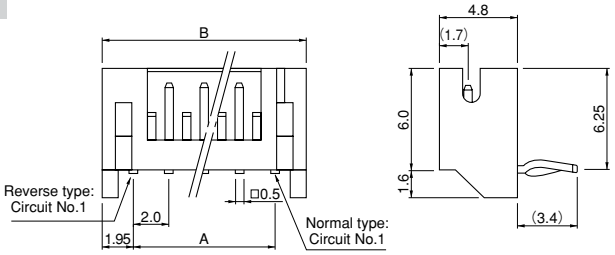
(2 circuits)



(3 to 16 circuits)



Side entry type



Circuits	Normal type Model No.		Dimensions(mm)		Q'ty / box	
	Top entry type (with a boss)	Side entry type	A	B	Top entry type (with a boss)	Side entry type
2	**B2B-PH-KBL-H**	**S2B-PH-KL**	2.0	5.9	1,000	1,000
3	**B3B-PH-KBL-H**	**S3B-PH-KL**	4.0	7.9	1,000	1,000
4	**B4B-PH-KBL-H**	**S4B-PH-KL**	6.0	9.9	1,000	500
5	**B5B-PH-KBL-H**	**S5B-PH-KL**	8.0	11.9	1,000	500
6	**B6B-PH-KBL-H**	**S6B-PH-KL**	10.0	13.9	1,000	500
7	**B7B-PH-KBL-H**	**S7B-PH-KL**	12.0	15.9	500	500
8	**B8B-PH-KBL-H**	**S8B-PH-KL**	14.0	17.9	500	250
9	**B9B-PH-KBL-H**	**S9B-PH-KL**	16.0	19.9	500	250
10	**B10B-PH-KBL-H**	**S10B-PH-KL**	18.0	21.9	500	250
11	**B11B-PH-KBL-H**	**S11B-PH-KL**	20.0	23.9	500	250
12	**B12B-PH-KBL-H**	**S12B-PH-KL**	22.0	25.9	500	250
13	**B13B-PH-KBL-H**	**S13B-PH-KL**	24.0	27.9	250	250
14	**B14B-PH-KBL-H**	**S14B-PH-KL**	26.0	29.9	250	200
15	**B15B-PH-KBL-H**	**S15B-PH-KL**	28.0	31.9	250	200
16	**B16B-PH-KBL-H**	**S16B-PH-KL**	30.0	33.9	250	200

Circuits	Reverse type Model No.		Dimensions(mm)		Q'ty / box	
	Top entry type (with a boss)	Side entry type	A	B	Top entry type (with a boss)	Side entry type
2	**B2B-PH-KBLC-H**	**S2B-PH-KLC-H**	2.0	5.9	1,000	1,000
3	**B3B-PH-KBLC-H**	**S3B-PH-KLC-H**	4.0	7.9	1,000	1,000
4	**B4B-PH-KBLC-H**	**S4B-PH-KLC-H**	6.0	9.9	1,000	500
5	**B5B-PH-KBLC-H**	**S5B-PH-KLC-H**	8.0	11.9	1,000	500
6	**B6B-PH-KBLC-H**	**S6B-PH-KLC-H**	10.0	13.9	1,000	500
7	**B7B-PH-KBLC-H**	**S7B-PH-KLC-H**	12.0	15.9	500	500
8	**B8B-PH-KBLC-H**	**S8B-PH-KLC-H**	14.0	17.9	500	250
9	**B9B-PH-KBLC-H**	**S9B-PH-KLC-H**	16.0	19.9	500	250
10	**B10B-PH-KBLC-H**	**S10B-PH-KLC-H**	18.0	21.9	500	250
11	**B11B-PH-KBLC-H**	**S11B-PH-KLC-H**	20.0	23.9	500	250
12	**B12B-PH-KBLC-H**	**S12B-PH-KLC-H**	22.0	25.9	500	250
13	**B13B-PH-KBLC-H**	**S13B-PH-KLC-H**	24.0	27.9	250	250
14	**B14B-PH-KBLC-H**	**S14B-PH-KLC-H**	26.0	29.9	250	200
15	**B15B-PH-KBLC-H**	**S15B-PH-KLC-H**	28.0	31.9	250	200
16	**B16B-PH-KBLC-H**	**S16B-PH-KLC-H**	30.0	33.9	250	200

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, gray

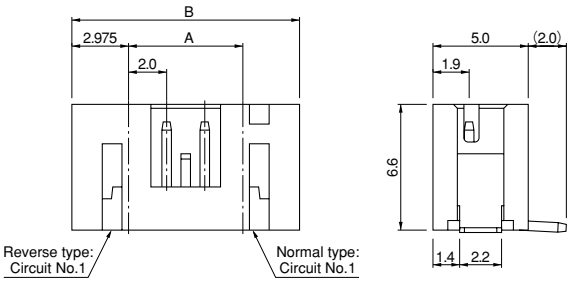
RoHS compliance *This product displays (LF)(SN) on a label.*
Note:Top entry type headers without a boss are also available.

<For reference> As the color identification,
the following alphabet shall be put in the underlined part.
For availability, delivery and minimum order quantity, contact JST.

ex. **B2B-PH-KBLC-H**
H…gray S…white Y…yellow R…red N…brown
K…black (blank)…gray (normal side entry type only)

Single-row shrouded header (SMT type)

Top entry type



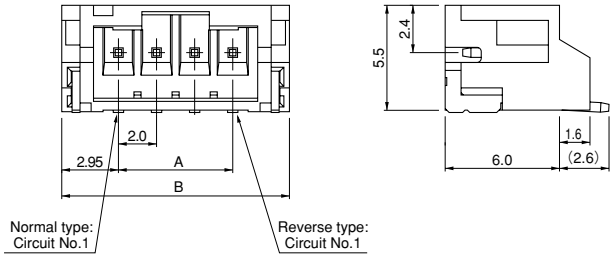
Circuits	Normal type Model No.		Dimensions (mm)			Q'ty / reel
			A	B		
	Top entry type	Side entry type		Top entry type	Side entry type	
2	**B2B-PH-SM4-TB**	**S2B-PH-SM4-TB**	2.0	7.95	7.9	1,000
3	**B3B-PH-SM4-TB**	**S3B-PH-SM4-TB**	4.0	9.95	9.9	1,000
4	**B4B-PH-SM4-TB**	**S4B-PH-SM4-TB**	6.0	11.95	11.9	1,000
5	**B5B-PH-SM4-TB**	**S5B-PH-SM4-TB**	8.0	13.95	13.9	1,000
6	**B6B-PH-SM4-TB**	**S6B-PH-SM4-TB**	10.0	15.95	15.9	1,000
7	**B7B-PH-SM4-TB**	**S7B-PH-SM4-TB**	12.0	17.95	17.9	1,000
8	**B8B-PH-SM4-TB**	**S8B-PH-SM4-TB**	14.0	19.95	19.9	1,000
9	**B9B-PH-SM4-TB**	**S9B-PH-SM4-TB**	16.0	21.95	21.9	1,000
10	**B10B-PH-SM4-TB**	**S10B-PH-SM4-TB**	18.0	23.95	23.9	1,000
11	**B11B-PH-SM4-TB**	**S11B-PH-SM4-TB**	20.0	25.95	25.9	1,000
12	**B12B-PH-SM4-TB**	**S12B-PH-SM4-TB**	22.0	27.95	27.9	1,000
13	**B13B-PH-SM4-TB**	**S13B-PH-SM4-TB**	24.0	29.95	29.9	1,000
14	**B14B-PH-SM4-TB**	**S14B-PH-SM4-TB**	26.0	31.95	31.9	1,000
15	**B15B-PH-SM4-TB**	**S15B-PH-SM4-TB**	28.0	33.95	33.9	1,000
16	**B16B-PH-SM4-TB**	—	30.0	35.95	–	1,000

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 6T, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance *This product displays (LF)(SN) on a label.*
Note: Top entry type headers with suction tape are also available.

Side entry type



Circuits	Reverse type Model No.		Dimensions (mm)		Q'ty / reel
	Top entry type	Side entry type	A	B	
2	**B2B-PH-SM4C-TB**	**S2B-PH-SM4C-TB**	2.0	7.9	1,000
3	**B3B-PH-SM4C-TB**	**S3B-PH-SM4C-TB**	4.0	9.9	1,000
4	**B4B-PH-SM4C-TB**	**S4B-PH-SM4C-TB**	6.0	11.9	1,000
5	**B5B-PH-SM4C-TB**	**S5B-PH-SM4C-TB**	8.0	13.9	1,000
6	**B6B-PH-SM4C-TB**	**S6B-PH-SM4C-TB**	10.0	15.9	1,000
7	**B7B-PH-SM4C-TB**	**S7B-PH-SM4C-TB**	12.0	17.9	1,000
8	**B8B-PH-SM4C-TB**	**S8B-PH-SM4C-TB**	14.0	19.9	1,000
9	**B9B-PH-SM4C-TB**	**S9B-PH-SM4C-TB**	16.0	21.9	1,000
10	**B10B-PH-SM4C-TB**	**S10B-PH-SM4C-TB**	18.0	23.9	1,000
11	**B11B-PH-SM4C-TB**	**S11B-PH-SM4C-TB**	20.0	25.9	1,000
12	**B12B-PH-SM4C-TB**	**S12B-PH-SM4C-TB**	22.0	27.9	1,000
13	**B13B-PH-SM4C-TB**	**S13B-PH-SM4C-TB**	24.0	29.9	1,000
14	**B14B-PH-SM4C-TB**	**S14B-PH-SM4C-TB**	26.0	31.9	1,000
15	**B15B-PH-SM4C-TB**	**S15B-PH-SM4C-TB**	28.0	33.9	1,000
16	**B16B-PH-SM4C-TB**	—	30.0	35.9	1,000

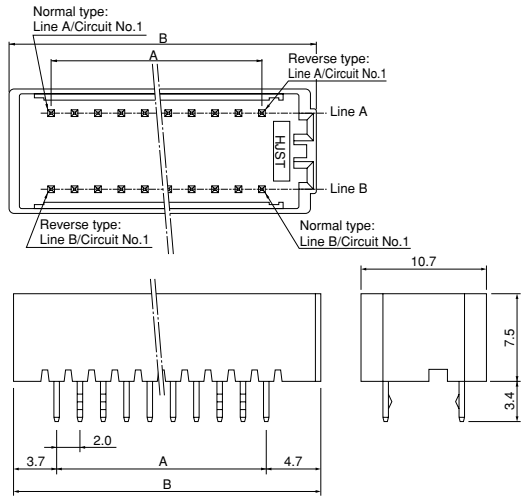
Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 6T, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

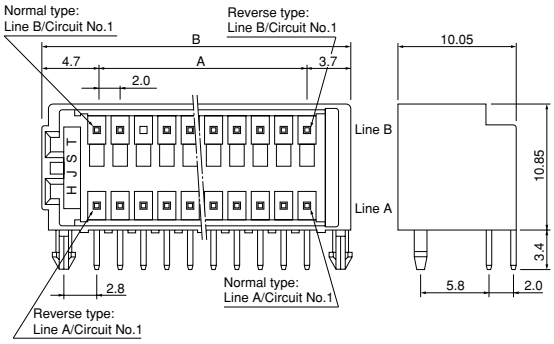
RoHS compliance *This product displays (LF)(SN) on a label.*

Double-row shrouded Header

Top entry type



Side entry type



Circuits	Model No.				Dimensions (mm)		Q'ty / box	
	Normal type		Reverse type					
	Top entry type	Side entry type	Top entry type	Side entry type	A	B	Top entry type	Side entry type
10	B10B-KRWHK	—	B10B-KRWHK-C	—	8.0	16.4	416	—
12	B12B-KRWHK	—	B12B-KRWHK-C	—	10.0	18.4	384	—
14	B14B-KRWHK	—	B14B-KRWHK-C	—	12.0	20.4	352	—
16	B16B-KRWHK	S16B-KRWHS	B16B-KRWHK-C	S16B-KRWHS-C	14.0	22.4	320	280
18	B18B-KRWHK	S18B-KRWHS	B18B-KRWHK-C	S18B-KRWHS-C	16.0	24.4	288	252
20	B20B-KRWHK	S20B-KRWHS	B20B-KRWHK-C	S20B-KRWHS-C	18.0	26.4	256	224
22	B22B-KRWHK	S22B-KRWHS	B22B-KRWHK-C	S22B-KRWHS-C	20.0	28.4	224	196
24	B24B-KRWHK	S24B-KRWHS	B24B-KRWHK-C	S24B-KRWHS-C	22.0	30.4	224	196
26	B26B-KRWHK	S26B-KRWHS	B26B-KRWHK-C	S26B-KRWHS-C	24.0	32.4	192	168
28	B28B-KRWHK	S28B-KRWHS	B28B-KRWHK-C	S28B-KRWHS-C	26.0	34.4	192	168
30	B30B-KRWHK	S30B-KRWHS	B30B-KRWHK-C	S30B-KRWHS-C	28.0	36.4	192	168
32	B32B-KRWHK	S32B-KRWHS	B32B-KRWHK-C	S32B-KRWHS-C	30.0	38.4	160	140

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, gray

RoHS compliance *This product displays (LF)(SN) on a label.*

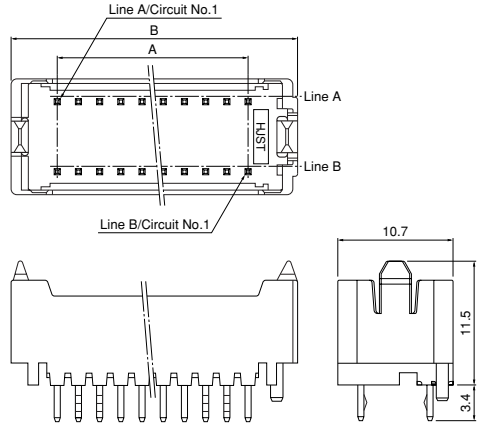
Note:1.Top entry type headers with bosses or without clinched tails are also available.
2.The products listed above are supplied packed in tray.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

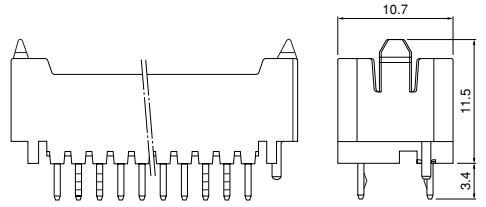
ex. **B10B-KRWHK-( )**
M…green H…gray N…brown

Double-row shrouded Header (with locks)

Top entry type



With a standard boss



With a compact boss

Circuits	Model No.			Dimensions (mm)		Q'ty / box
	Top entry type					
	Without bosses	With a standard boss	With a compact boss	A	B	
10	B10B-KRWHK-F1	B10B-KRWHK-F1-1	B10B-KRWHK-F1-1D	8.0	17.0	364
12	B12B-KRWHK-F1	B12B-KRWHK-F1-1	B12B-KRWHK-F1-1D	10.0	19.0	308
14	B14B-KRWHK-F1	B14B-KRWHK-F1-1	B14B-KRWHK-F1-1D	12.0	21.0	280
16	B16B-KRWHK-F1	B16B-KRWHK-F1-1	B16B-KRWHK-F1-1D	14.0	23.0	252
18	B18B-KRWHK-F1	B18B-KRWHK-F1-1	B18B-KRWHK-F1-1D	16.0	25.0	252
20	B20B-KRWHK-F1	B20B-KRWHK-F1-1	B20B-KRWHK-F1-1D	18.0	27.0	224
22	B22B-KRWHK-F1	B22B-KRWHK-F1-1	B22B-KRWHK-F1-1D	20.0	29.0	196
24	B24B-KRWHK-F1	B24B-KRWHK-F1-1	B24B-KRWHK-F1-1D	22.0	31.0	196
26	B26B-KRWHK-F1	B26B-KRWHK-F1-1	B26B-KRWHK-F1-1D	24.0	33.0	168
28	B28B-KRWHK-F1	B28B-KRWHK-F1-1	B28B-KRWHK-F1-1D	26.0	35.0	168
30	B30B-KRWHK-F1	B30B-KRWHK-F1-1	B30B-KRWHK-F1-1D	28.0	37.0	168
32	B32B-KRWHK-F1	B32B-KRWHK-F1-1	B32B-KRWHK-F1-1D	30.0	39.0	140

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, gray

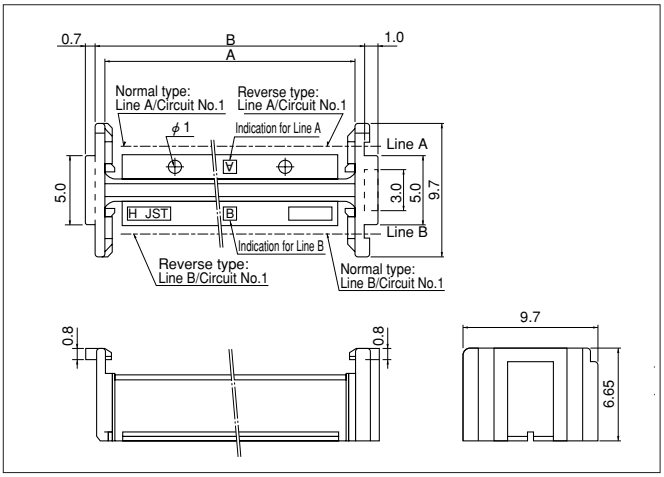
RoHS compliance *This product displays (LF)(SN) on a label.*

Note:1. The products listed above are supplied packed in tray.
2. Not UL/CSA/TÜV approved.
3. The applicable holder is "KRWH-( )( )-( )-1" only.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **B10B-KRWHK-F1-( )**
H…gray Y…yellow R…red N…brown
M…green…K…black

KRW connector Holder



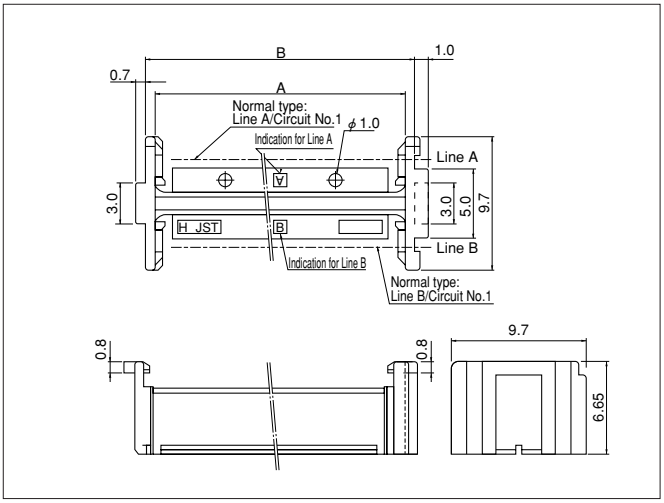
Circuits	Model No.		Dimensions (imm)	
	Normal type	Reverse type	A	B
10	**KRWH-10-H**	**KRWH-10C-H**	12.0	13.4
12	**KRWH-12-H**	**KRWH-12C-H**	14.0	15.4
14	**KRWH-14-H**	**KRWH-14C-H**	16.0	17.4
16	**KRWH-16-H**	**KRWH-16C-H**	18.0	19.4
18	**KRWH-18-H**	**KRWH-18C-H**	20.0	21.4
20	**KRWH-20-H**	**KRWH-20C-H**	22.0	23.4
22	**KRWH-22-H**	**KRWH-22C-H**	24.0	25.4
24	**KRWH-24-H**	**KRWH-24C-H**	26.0	27.4
26	**KRWH-26-H**	**KRWH-26C-H**	28.0	29.4
28	**KRWH-28-H**	**KRWH-28C-H**	30.0	31.4
30	**KRWH-30-H**	**KRWH-30C-H**	32.0	33.4
32	**KRWH-32-H**	**KRWH-32C-H**	34.0	35.4

Material

PA 66, UL94V-0, gray

RoHS compliance

KRW connector Holder (for header with locks)



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
10	**KRWH-10-H-1**	12.0	13.4	1,000
12	**KRWH-12-H-1**	14.0	15.4	1,000
14	**KRWH-14-H-1**	16.0	17.4	1,000
16	**KRWH-16-H-1**	18.0	19.4	1,000
18	**KRWH-18-H-1**	20.0	21.4	1,000
20	**KRWH-20-H-1**	22.0	23.4	1,000
22	**KRWH-22-H-1**	24.0	25.4	1,000
24	**KRWH-24-H-1**	26.0	27.4	1,000
26	**KRWH-26-H-1**	28.0	29.4	1,000
28	**KRWH-28-H-1**	30.0	31.4	1,000
30	**KRWH-30-H-1**	32.0	33.4	1,000
32	**KRWH-32-H-1**	34.0	35.4	1,000

Material

PA 66, UL94V-0, gray

RoHS compliance

Note:1. Not UL/CSA/TÜV approved.

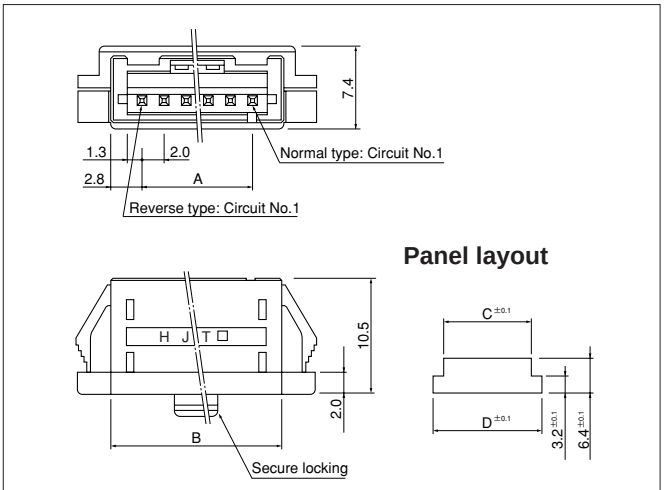
2. The applicable header is "B( )B-KRW( )K-F1-( )" only.

<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

ex. **KRWH-10-H-1**

H…gray Y…yellow R…red N…brown K…black S…natural

TR connector (Unit for wire-to-wire connection)



TR connectors without secure locking device are also available.

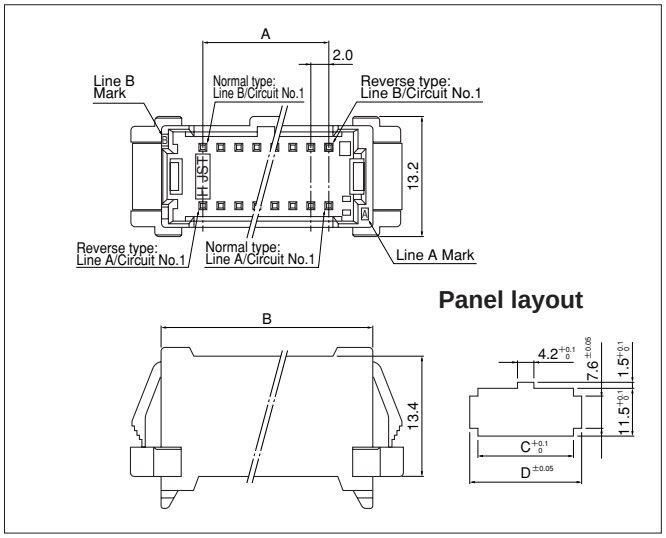
Circuits	Model No.		Dimensions (mm)				Q'ty / box
	Normal type	Reverse type	A	B	C	D	
2	**BU02P-TR-P-H**	**BU02P-TR-PC-H**	2.0	7.6	7.9	11.6	500
3	**BU03P-TR-P-H**	**BU03P-TR-PC-H**	4.0	9.6	9.9	13.6	500
4	**BU04P-TR-P-H**	**BU04P-TR-PC-H**	6.0	11.6	11.9	15.6	500
5	**BU05P-TR-P-H**	**BU05P-TR-PC-H**	8.0	13.6	13.9	17.6	250
6	**BU06P-TR-P-H**	**BU06P-TR-PC-H**	10.0	15.6	15.9	19.6	250
7	**BU07P-TR-P-H**	**BU07P-TR-PC-H**	12.0	17.6	18.0	21.6	200
8	**BU08P-TR-P-H**	**BU08P-TR-PC-H**	14.0	19.6	20.0	23.6	250
9	**BU09P-TR-P-H**	**BU09P-TR-PC-H**	16.0	21.6	22.0	25.6	250
10	**BU10P-TR-P-H**	**BU10P-TR-PC-H**	18.0	23.6	24.0	27.6	200
11	**BU11P-TR-P-H**	**BU11P-TR-PC-H**	20.0	25.6	26.0	29.6	200
12	**BU12P-TR-P-H**	**BU12P-TR-PC-H**	22.0	27.6	28.0	31.6	200
13	**BU13P-TR-P-H**	**BU13P-TR-PC-H**	24.0	29.6	30.0	33.6	150
14	**BU14P-TR-P-H**	**BU14P-TR-PC-H**	26.0	31.6	32.0	35.6	150
15	**BU15P-TR-P-H**	**BU15P-TR-PC-H**	28.0	33.6	34.0	37.6	150
16	**BU16P-TR-P-H**	**BU16P-TR-PC-H**	30.0	35.6	36.0	39.6	150

Material and Finish

Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, gray

RoHS compliance *This product displays (LF)(SN) on a label.*

TRW connector (Unit for wire-to-wire connection)



Circuits	Model No.		Dimensions (mm)				Q'ty / box
	Normal type	Reverse type	A	B	C	D	
16	**BU16P-TRW-P-H**	**BU16P-TRW-PC-H**	14.0	23.5	23.9	27.5	100
18	**BU18P-TRW-P-H**	**BU18P-TRW-PC-H**	16.0	25.5	25.9	29.5	100
20	**BU20P-TRW-P-H**	**BU20P-TRW-PC-H**	18.0	27.5	27.9	31.5	50
22	**BU22P-TRW-P-H**	**BU22P-TRW-PC-H**	20.0	29.5	29.9	33.5	50
24	**BU24P-TRW-P-H**	**BU24P-TRW-PC-H**	22.0	31.5	31.9	35.5	50
26	**BU26P-TRW-P-H**	**BU26P-TRW-PC-H**	24.0	33.5	33.9	37.5	50
28	**BU28P-TRW-P-H**	**BU28P-TRW-PC-H**	26.0	35.5	35.9	39.5	50
30	**BU30P-TRW-P-H**	**BU30P-TRW-PC-H**	28.0	37.5	37.9	41.5	50
32	**BU32P-TRW-P-H**	**BU32P-TRW-PC-H**	30.0	39.5	39.9	43.5	50

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Housing: PA 66, UL94V-0, gray

RoHS compliance *This product displays (LF)(SN) on a label.*

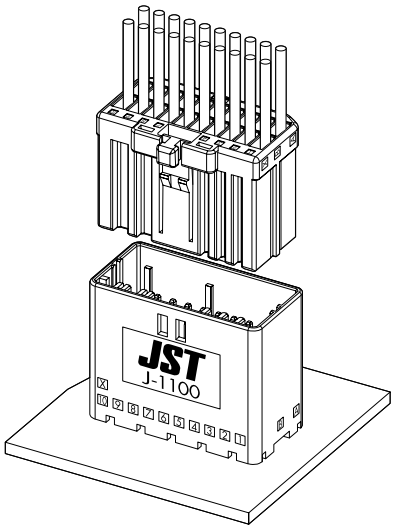
<For reference> As the color identification, the following alphabet shall be put in the underlined part. For availability, delivery and minimum order quantity, contact JST.

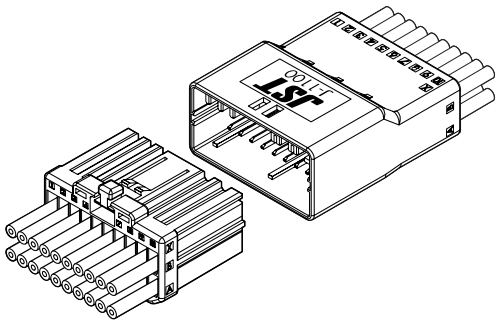
ex. **BU16P-TRW-P-H**

H…gray Y…yellow R…red N…brown S…natural (white) M…green

JFA CONNECTOR J1000 SERIES

2.2mm pitch/Disconnectable Crimp style connectors(Wire-to-board/Wire-to-wire)





It is a high reliability connector corresponding to demand of the miniaturization of electronic equipment and the wire size of AWG#18.

- ***Double-spring construction***
- ***Housing lance***
- ***Clear "click feeling"***

Specifications

- Current rating: Refer to the following matrix table.
- Voltage rating: 125V AC, DC
- Temperature range: –55°C to +105°C
  (including temperature rise in applying electrical current)
- Applicable wire: AWG #28 to #18 (0.08 to 0.82mm^2)
  (Tin-plated annealed copper wire [stranded wire])
  (Insulation O.D./0.85 to 2.1mm)
- Applicable PC board thickness: 1.6mm

*Contact JST for details.
*RoHS compliant products are published

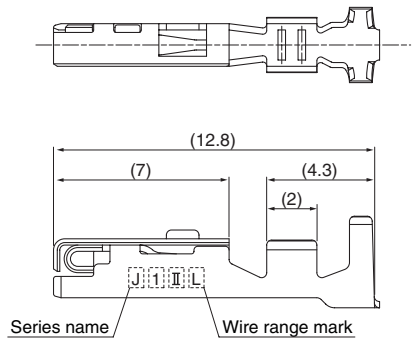
Current rating Unit: A

Circuits	Wire size (AWG)					
	#18	#20	#22	#24	#26	#28
1 (Note)	6.8	5.9	5.0	4.2	3.2	2.5
3	6.2	5.2	4.6	3.6	3.1	2.5
6	5.5	4.6	4.0	3.0	2.5	2.1
8	5.5	4.6	4.0	3.0	2.4	2.0
12	4.7	3.9	3.4	2.6	2.1	1.7
20	3.9	3.3	2.9	2.2	1.8	1.6

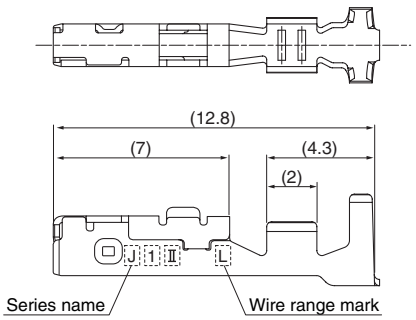
Note: Current rating value when applying only to 1-circuit of 3-circuit connector.

Receptacle contact

Tin-plated



Gold-plated

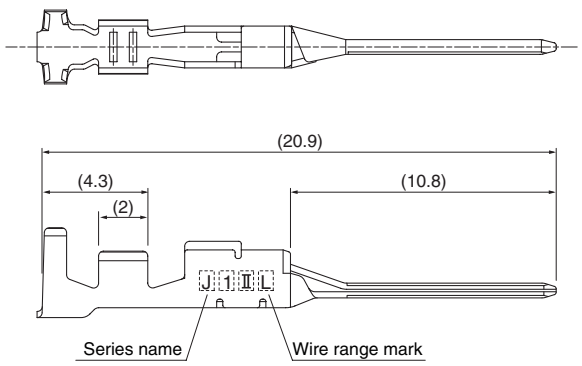


Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm²	AWG#		
SF1F-002 (*) -P0.6	M	0.08～0.22	28～24	0.85～1.43	—
SF1F-21 (*) -P0.6	L	0.30～0.82	22～18	1.60～2.10	5,000

Material and Finish
Copper alloy, tin-plated, gold-plated

RoHS compliance
Note: Finish(*):T .....Tin-plated
GC ...Gold-plated

Tab contact



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm²	AWG#		
SF1M-002 (*) -M0.6A	M	0.08～0.22	28～24	0.85～1.43	—
SF1M-21 (*) -M0.6A	L	0.30～0.82	22～18	1.60～2.10	5,000

Material and Finish
Copper alloy, tin-plated, gold-plated

RoHS compliance
Note: Finish(*):T .....Tin-plated
GC ...Gold-plated

Crimping machine, Applicator

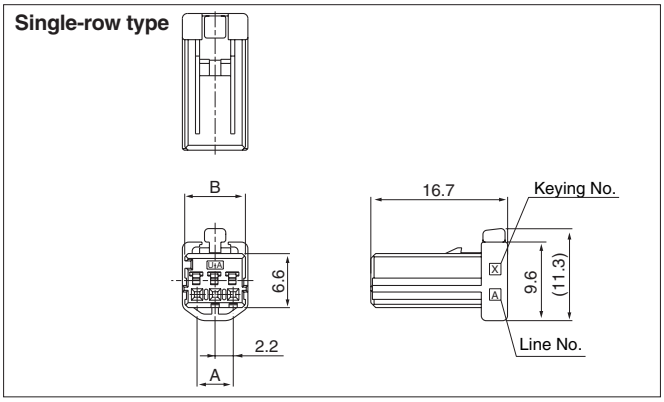
Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SF1F-002 (*) -P0.6	AP-K2N	MKS-L	MK/SF1F/M002-06	APLMK SF1F/M002-06	Refer to page 576, 577.
SF1M-002 (*) -M0.6A		—	—	—	
SF1F-21 (*) -P0.6	AP-K2N	MKS-L	MK/SF1F/M21-06	APLMK SF1F/M21-06	Refer to page 576, 577.
SF1M-21 (*) -M0.6A		—	—	—	

• Extraction tool for J1000 series: EJ-JFAJ1100
• Hand crimp tool uses the YRK series and refer to page 576, 577 for details

Note 1. Contact JST for fully automatic crimping applicator.
2. Finish(*):T .....Tin-plated
GC ...Gold-plated

Receptacle housing

Single-row type



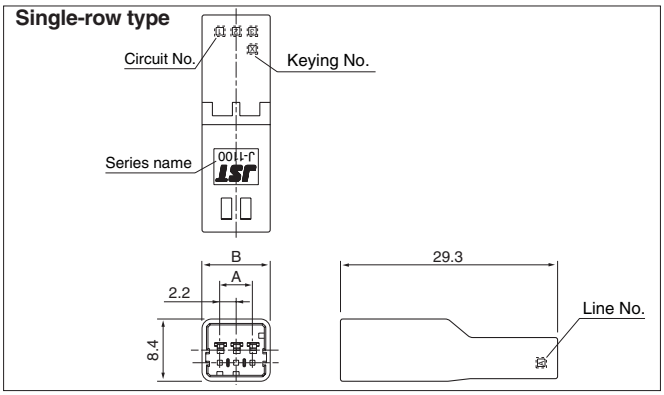
Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	**J11SF-03V-KX**	4.4	7.4	1,200
	Y	**J11SF-03V-KY**	4.4	7.4	1,200

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing

Single-row type



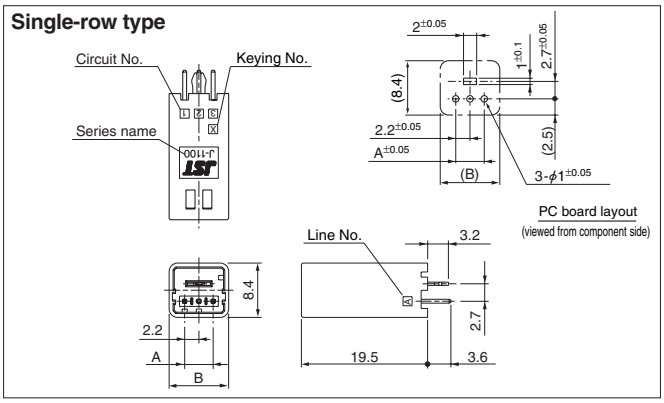
Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	**J11SFM-03V-KX**	4.4	9.2	500
	Y	**J11SFM-03V-KY**	4.4	9.2	500

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Header Top entry type (Center locking type)

Single-row type



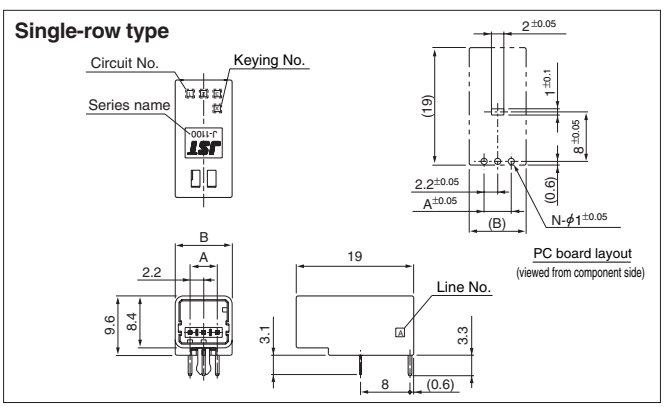
Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	**B03B-J11SK-(*)XR**	4.4	9.2	625
	Y	**B03B-J11SK-(*)YR**	4.4	9.2	625

Material and Finish
Post: Copper alloy, tin-plated, gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcing metal fixture: Copper alloy, tin-plated

RoHS compliance *Gold-plated product displays (LF) on a label.*
Note: Finish(*):T .....Tin-plated
GW ...Gold-plated

Header Side entry type (Center locking type)

Single-row type



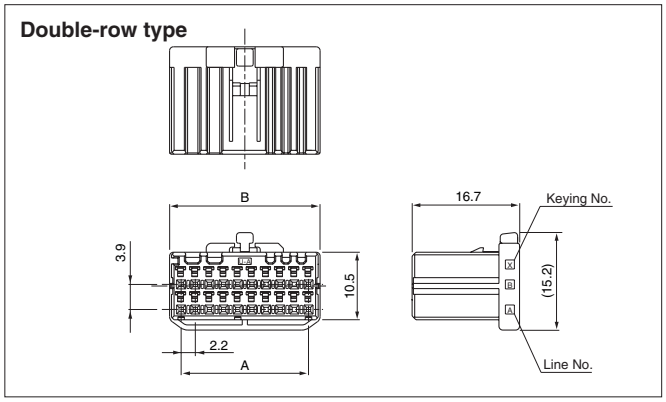
Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	**S03B-J11SK-(*)XR**	4.4	9.2	600
	Y	**S03B-J11SK-(*)YR**	4.4	9.2	600

Material and Finish
Post: Copper alloy, tin-plated, gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcing metal fixture: Copper alloy, tin-plated

RoHS compliance *Gold-plated product displays (LF) on a label.*
Note: Finish(*):T .....Tin-plated
GW ...Gold-plated

Receptacle housing

Double-row type

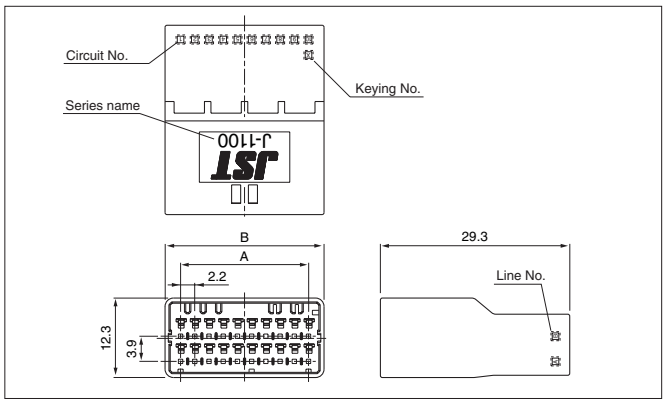


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
6	X	**J11DF-06V-KX**	4.4	8.0	800
	Y	**J11DF-06V-KY**	4.4	8.0	800
8	X	**J11DF-08V-KX**	6.6	10.2	500
	Y	**J11DF-08V-KY**	6.6	10.2	500
12	X	**J11DF-12V-KX**	11.0	14.6	400
	Y	**J11DF-12V-KY**	11.0	14.6	400
20	X	**J11DF-20V-KX**	19.8	23.4	250
	Y	**J11DF-20V-KY**	19.8	23.4	250
22	X	**J11DF-22V-KX**	22.0	25.6	—
	Y	**J11DF-22V-KY**	22.0	25.6	—
26	X	**J11DF-26V-KX**	26.4	30.0	—
	Y	**J11DF-26V-KY**	26.4	30.0	—
30	X	**J11DF-30V-KX**	30.8	34.4	—
	Y	**J11DF-30V-KY**	30.8	34.4	—

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing

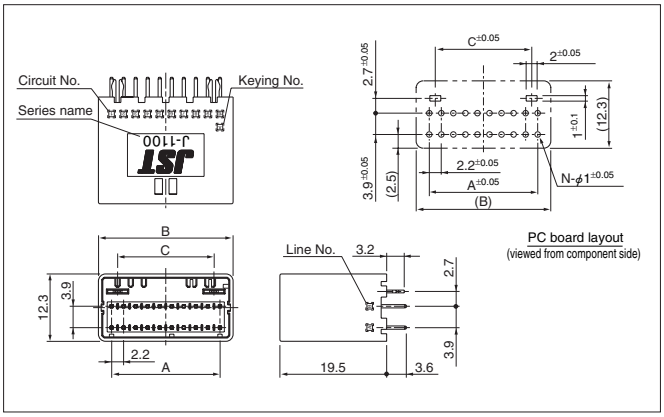


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
6	X	**J11DFM-06V-KX**	4.4	9.2	400
8	X	**J11DFM-08V-KX**	6.6	11.4	300
12	X	**J11DFM-12V-KX**	11.0	15.8	200
20	X	**J11DFM-20V-KX**	19.8	24.6	150

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Header Top entry type (Center locking type)

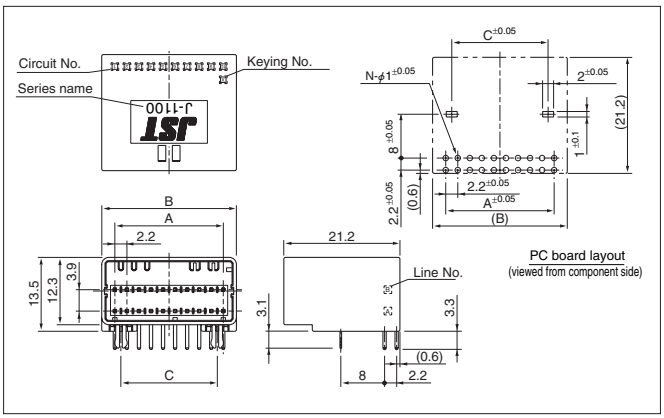


Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	X	**B06B-J11DK-(*)XR**	4.4	9.2	—	500
	Y	**B06B-J11DK-(*)YR**	4.4	9.2	—	500
8	X	**B08B-J11DK-(*)XR**	6.6	11.4	4.4	400
	Y	**B08B-J11DK-(*)YR**	6.6	11.4	4.4	400
12	X	**B12B-J11DK-(*)XR**	11.0	15.8	8.8	280
	Y	**B12B-J11DK-(*)YR**	11.0	15.8	8.8	280
20	X	**B20B-J11DK-(*)XR**	19.8	24.6	17.6	180
	Y	**B20B-J11DK-(*)YR**	19.8	24.6	17.6	180
22	X	**B22B-J11DK-(*)XR**	22.0	26.8	19.8	—
	Y	**B22B-J11DK-(*)YR**	22.0	26.8	19.8	—
26	X	**B26B-J11DK-(*)XR**	26.4	31.2	24.2	—
	Y	**B26B-J11DK-(*)YR**	26.4	31.2	24.2	—
30	X	**B30B-J11DK-(*)XR**	30.8	35.6	28.6	—
	Y	**B30B-J11DK-(*)YR**	30.8	35.6	28.6	—

Material and Finish
Post: Copper alloy, tin-plated, gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcing metal fixture: Copper alloy, tin-plated

RoHS compliance *Gold-plated product displays (LF) on a label.*
Note: Finish(*):T .....Tin-plated
GW ...Gold-plated

Header Side entry type (Center locking type)



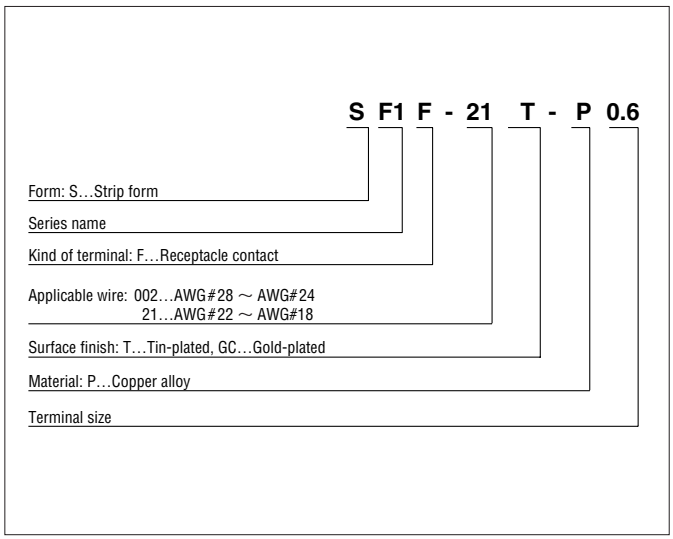
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	X	**S06B-J11DK-(*)XR**	4.4	9.2	—	375
	Y	**S06B-J11DK-(*)YR**	4.4	9.2	—	375
8	X	**S08B-J11DK-(*)XR**	6.6	11.4	—	300
	Y	**S08B-J11DK-(*)YR**	6.6	11.4	—	300
12	X	**S12B-J11DK-(*)XR**	11.0	15.8	8.8	225
	Y	**S12B-J11DK-(*)YR**	11.0	15.8	8.8	225
20	X	**S20B-J11DK-(*)XR**	19.8	24.6	17.6	135
	Y	**S20B-J11DK-(*)YR**	19.8	24.6	17.6	135

Material and Finish
Post: Copper alloy, tin-plated, gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcing metal fixture: Copper alloy, tin-plated

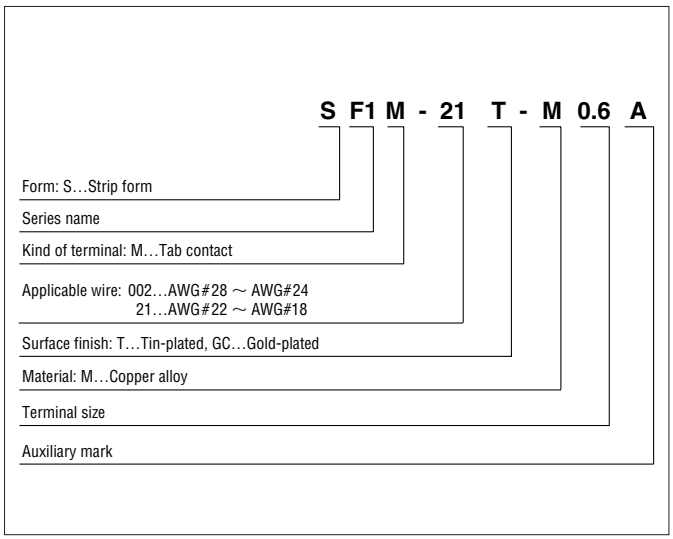
RoHS compliance *Gold-plated product displays (LF) on a label.*
Note: Finish(*):T .....Tin-plated
GW ...Gold-plated

Model number identification

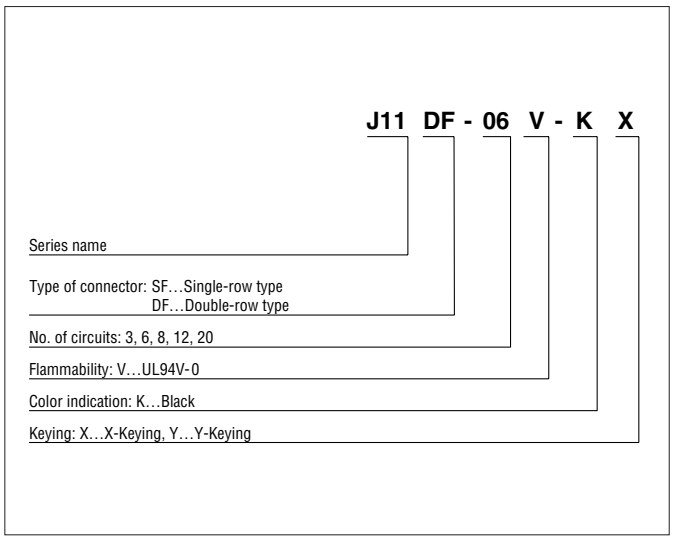
Receptacle contact



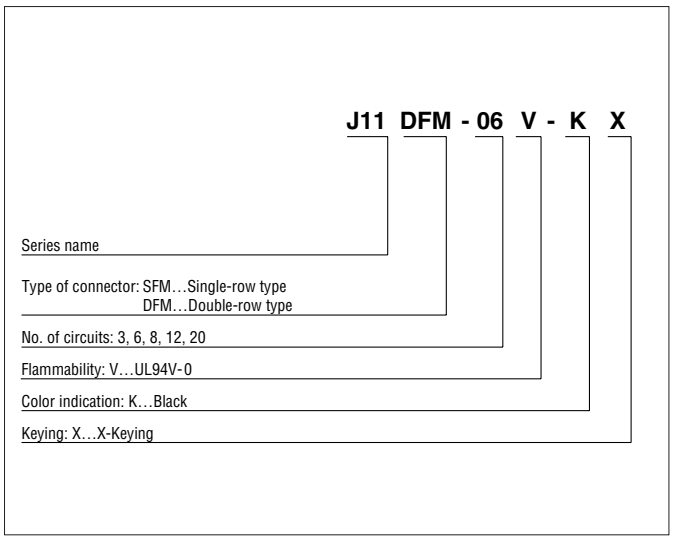
Tab contact



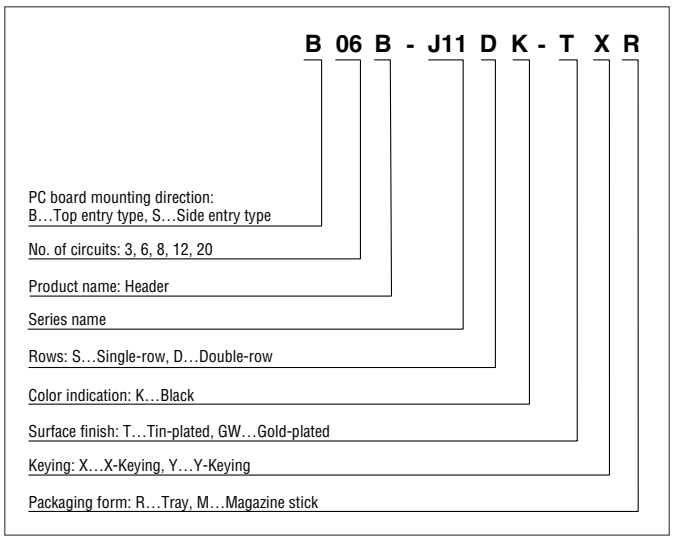
Receptacle housing



Tab housing

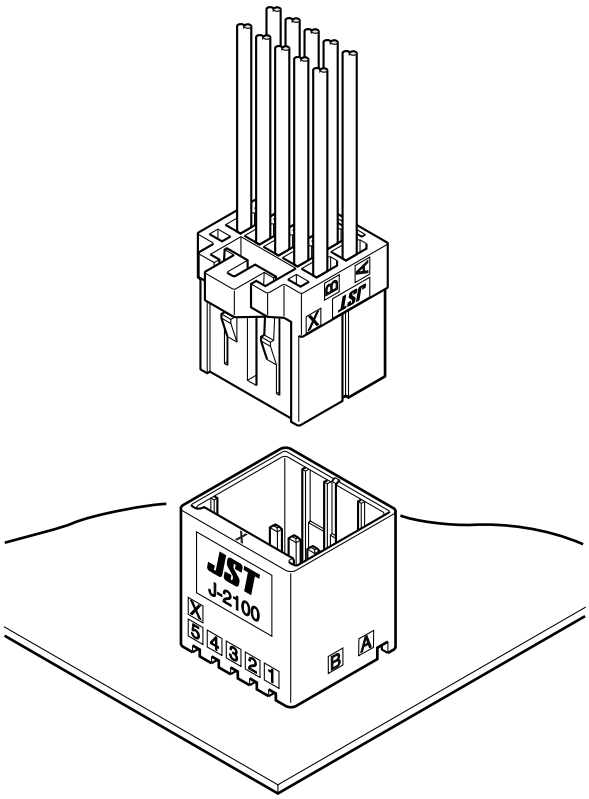


Header



JFA CONNECTOR J2000 SERIES

2.5mm pitch/Disconnectable Crimp style connectors(Wire-to-board/Wire-to-wire)



2.5mm pitch connector for miniaturization of electronic equipment.
Center locking or side locking options can be used depending on the required application.
Receptacle contacts are designed to be common with all JFA connector J2000 series.

- ***Double-spring construction***
- ***2 kinds of locking method***
- ***Housing lance***
- ***Clear "click feeling"***

Specifications

- Current rating: 4.6A max. AC, DC (3 circuits/AWG #20)
- Voltage rating: 250V AC, DC
- Temperature range: –55°C to +105°C
  (including temperature rise in applying electrical current)
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20 (0.08 to 0.75mm2)
- Applicable PC board thickness: 1.6mm

*Contact JST for details.
*RoHS compliant products are published.

Current rating Unit: A

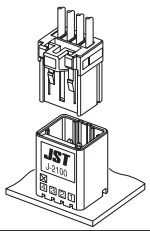
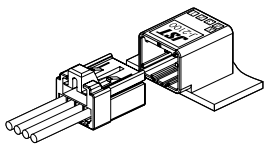
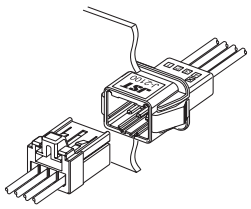
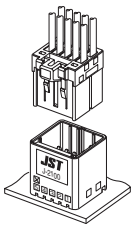
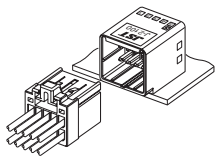
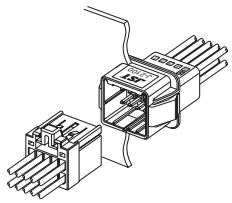
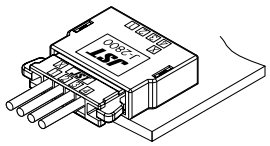
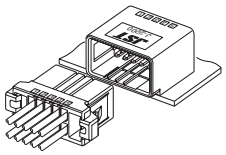
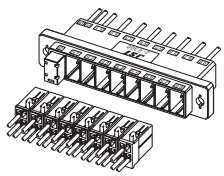
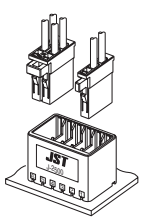
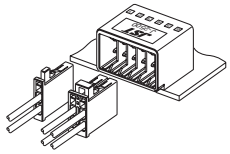
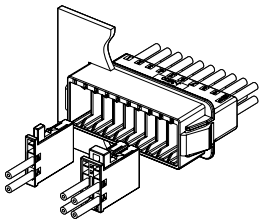
Circuits	Wire size (AWG)				
	#20	#22	#24	#26	#28
3	4.6	4.4	3.4	3.0	2.4
4	4.5	4.3	3.2	2.8	2.3
6	4.3	4.1	2.8	2.6	2.1
8	4.1	3.6	2.6	2.3	1.9
10	3.9	3.4	2.5	2.2	1.8
12	3.6	3.1	2.4	2.0	1.6
16	3.2	2.8	2.2	1.8	1.4
20	2.9	2.5	2.1	1.7	1.3

Standards

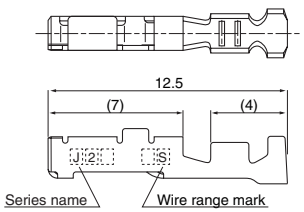
Recognized E60389

List of J2000 series products

2.5mm pitch/ Voltage rating 250V AC, DC

Type		Wire-to-board		Wire-to-wire
		Top entry type	Side entry type	Panel mounting type
Center locking type	**J2100** Single-row type			
	Circuits	3, 4	3, 4	3, 4
	J2100 Double-row type			
	Circuits	6, 8, 10, 12, 16, 20	6, 8, 10, 12, 16, 20	6, 10, 12, 16, 20
Side locking type	**J2800** Single-row type			
	Circuits		4	
	J2200 Double-row type			
	Circuits		10	
Common type for sensors	**J2300**			
	Circuits			Output 10 / Input 24
Module type	**J2500**			
	Circuits	12, 20	12, 20	20

Receptacle contact



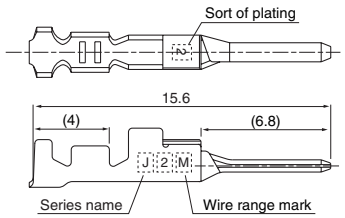
Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm²	AWG#		
SJ2F-002GF-P1.0	S	0.08 ～ 0.20	28 ～ 24	0.88 ～ 1.43	6,000
SJ2F-01GF-P1.0	M	0.20 ～ 0.50	24 ～ 20	1.11 ～ 1.53	6,000
SJ2F-21GF-P1.0	L	0.30 ～ 0.75	—	1.30 ～ 1.90	5,000

Material and Finish
Copper alloy (superior conductivity), nickel-underplated, selective gold-plated

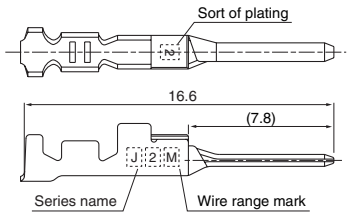
RoHS compliance

Tab contact

• Standard Tab



• Sequential Tab



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm²	AWG#		
SJ2M-002GF-M1.0N	S	0.08 ～ 0.20	28 ～ 24	0.88 ～ 1.43	5,500
SJ2M-01GF-M1.0N	M	0.20 ～ 0.50	24 ～ 20	1.11 ～ 1.53	5,500
SJ2M-21GF-M1.0N	L	0.30 ～ 0.75	—	1.30 ～ 1.90	5,000
SJ2M-01GF-M1.0S	Seqential	0.20 ～ 0.50	24 ～ 20	1.11 ～ 1.53	5,500

Material and Finish
Copper alloy (superior conductivity), nickel-underplated, selective gold-plated

RoHS compliance

Crimping machine, Applicator

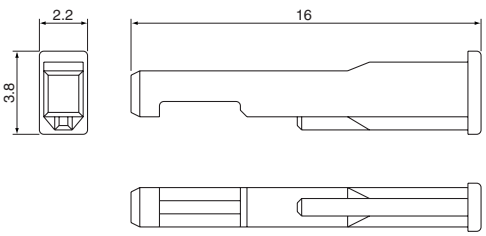
Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SJ2F-002GF-P1.0 **SJ2M-002GF-M1.0N**	AP-K2N	MKS-L	MK/SJ2F/M-002-10	APLMK SJ2F/M002-10	YRS-8851
		—	—	—	
SJ2F-21GF-P1.0 **SJ2M-21GF-M1.0N**	AP-K2N	MKS-L	MK/SJ2F/M-21-10	APLMK SJ2F/M21-10	YRF-1120
		*MKS-SC-J2	SC/SJ2F/M-21-10	APLSC SJ2F/M21-10	

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SJ2F-01GF-P1.0 **SJ2M-01GF-M1.0N** **SJ2M-01GF-M1.0S**	AP-K2N	MKS-L	MK/SJ2F/M-01-10	APLMK SJ2F/M01-10	YRS-8861
		*MKS-SC-J2	SC/SJ2F/M-01-10	APLSC SJ2F/M01-10	

• Extraction tool for J2000 series: EJ-JFAJ2N
• Refer to page 654,655 for details of YRK series hand crimping tool.
Note 1.: Strip-crimp applicator*
2. Contact JST for fully automatic crimping applicator.

Keying plug

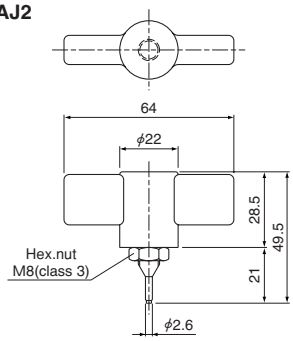
Model No.: J2KP-VY



RoHS compliance

Tab contact cutting tool

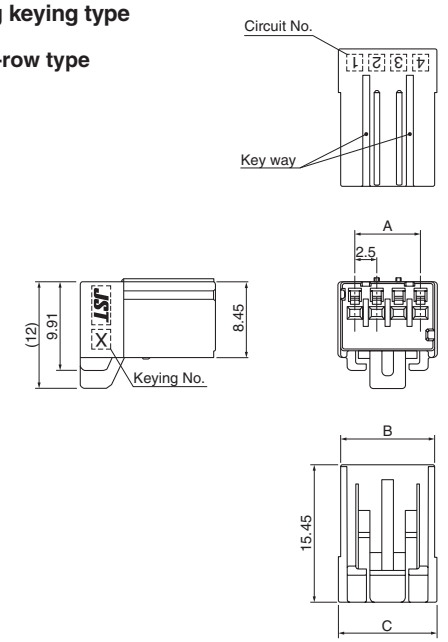
Model No.: CT-JFAJ2



Receptacle housing (Center locking type)

Long keying type

Single-row type



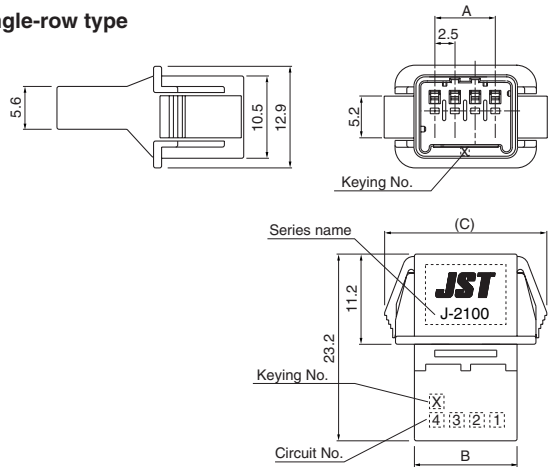
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	**J21SF-03V-KX-L**	5.0	8.3	8.9	400
	Y	**J21SF-03V-KY-L**	5.0	8.3	8.9	400
4	X	**J21SF-04V-KX-L**	7.5	10.8	11.4	400
	Y	**J21SF-04V-KY-L**	7.5	10.8	11.4	400

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)

Single-row type



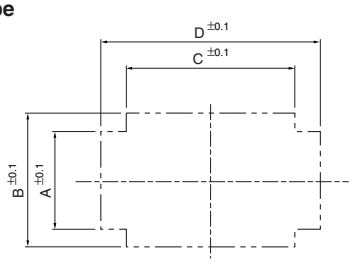
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	(C)	
3	X	**J21SPM-03V-KX**	5.0	10.2	17.6	208
	Y	**J21SPM-03V-KY**	5.0	10.2	17.6	208
4	X	**J21SPM-04V-KX**	7.5	12.7	20.1	192
	Y	**J21SPM-04V-KY**	7.5	12.7	20.1	192

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Panel layout

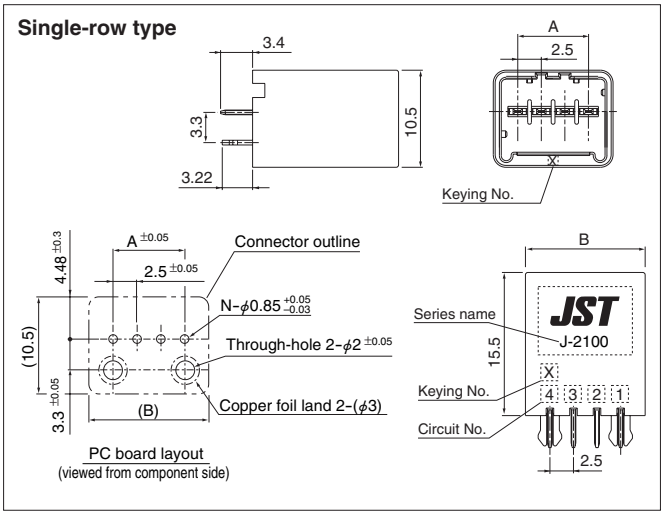
Single-row type



Circuits	Dimensions (mm)			
	A	B	C	D
3	7.8	10.8	10.5	15.2
4	7.8	10.8	13.0	17.7

Header Top entry type (Center locking type)

Single-row type



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	**B03B-J21SK-GGXR**	5.0	10.2	378
	Y	**B03B-J21SK-GGYR**	5.0	10.2	378
4	X	**B04B-J21SK-GGXR**	7.5	12.7	306
	Y	**B04B-J21SK-GGYR**	7.5	12.7	306

Material and Finish

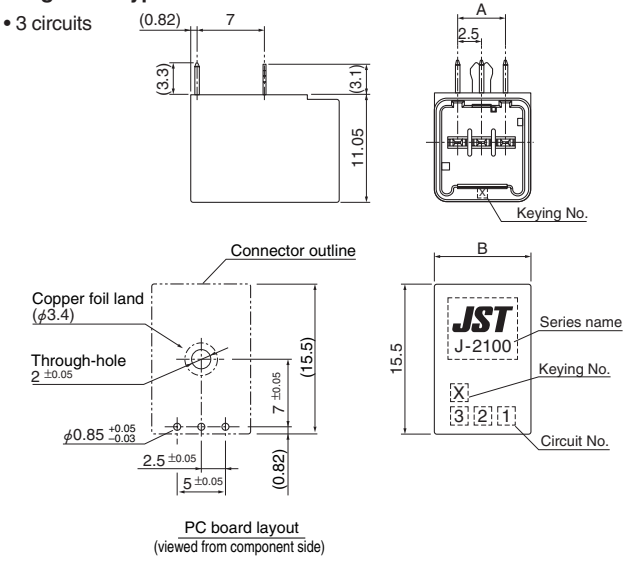
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF)(AU) on a label.*

Header Side entry type (Center locking type)

Single-row type

• 3 circuits



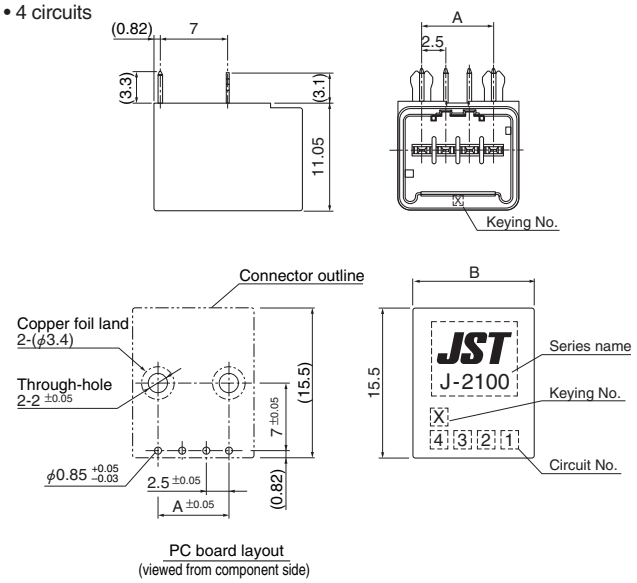
Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
3	X	**S03B-J21SK-GGXR**	5.0	10.2	294
	Y	**S03B-J21SK-GGYR**	5.0	10.2	294
4	X	**S04B-J21SK-GGXR**	7.5	12.7	238
	Y	**S04B-J21SK-GGYR**	7.5	12.7	238

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF)(AU) on a label.*

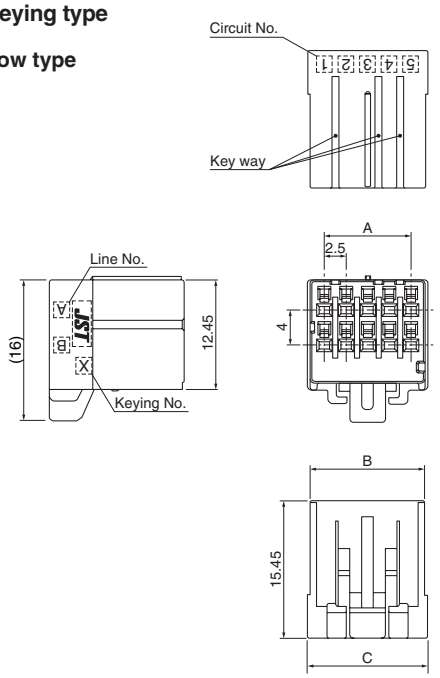
• 4 circuits



Receptacle housing (Center locking type)

Long keying type

Double-row type



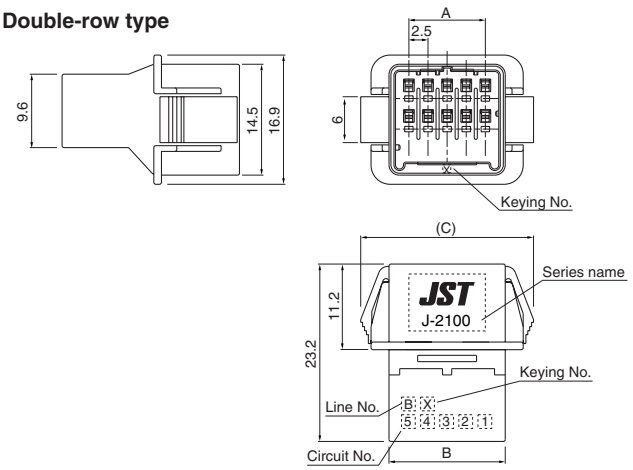
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	X	**J21DF-06V-KX**	5.0	8.3	8.9	300
	Y	**J21DF-06V-KY**	5.0	8.3	8.9	300
	X	**J21DF-06V-KX-L**	5.0	8.3	8.9	300
	Y	**J21DF-06V-KY-L**	5.0	8.3	8.9	300
8	X	**J21DF-08V-KX-L**	7.5	10.8	11.4	300
	Y	**J21DF-08V-KY-L**	7.5	10.8	11.4	300
10	X	**J21DF-10V-KX-L**	10.0	13.3	13.9	200
	Y	**J21DF-10V-KY-L**	10.0	13.3	13.9	200
12	X	**J21DF-12V-KX-L**	12.5	15.8	16.4	200
	Y	**J21DF-12V-KY-L**	12.5	15.8	16.4	200
16	X	**J21DF-16V-KX-L**	17.5	20.8	21.4	200
	Y	**J21DF-16V-KY-L**	17.5	20.8	21.4	200
20	X	**J21DF-20V-KX-L**	22.5	25.8	26.4	100
	Y	**J21DF-20V-KY-L**	22.5	25.8	26.4	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)

Double-row type



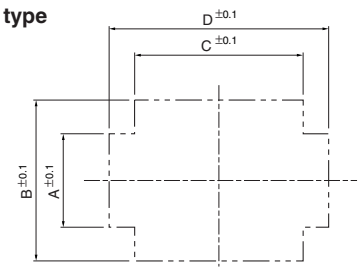
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	(C)	
6	X	**J21DPM-06V-KX**	5.0	10.2	17.6	156
	Y	**J21DPM-06V-KY**	5.0	10.2	17.6	156
10	X	**J21DPM-10V-KX**	10.0	15.2	22.6	120
	Y	**J21DPM-10V-KY**	10.0	15.2	22.6	120
12	X	**J21DPM-12V-KX**	12.5	17.7	25.1	108
	Y	**J21DPM-12V-KY**	12.5	17.7	25.1	108
16	X	**J21DPM-16V-KX**	17.5	22.7	30.1	84
	Y	**J21DPM-16V-KY**	17.5	22.7	30.1	84
20	X	**J21DPM-20V-KX**	22.5	27.7	35.1	72
	Y	**J21DPM-20V-KY**	22.5	27.7	35.1	72

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

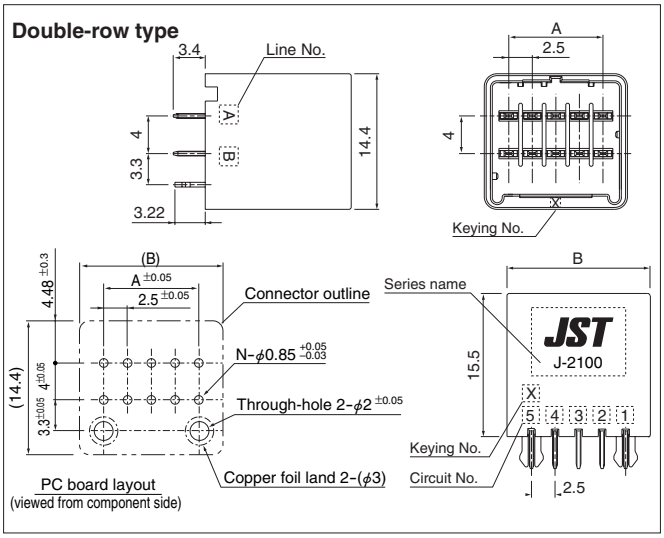
Panel layout

Double-row type



Circuits	Dimensions (mm)			
	A	B	C	D
6	8.6	14.8	10.5	15.2
10	8.6	14.8	15.5	20.2
12	8.6	14.8	18.0	22.7
16	8.6	14.8	23.0	27.7
20	8.6	14.8	28.0	32.7

Header Top entry type (Center locking type)

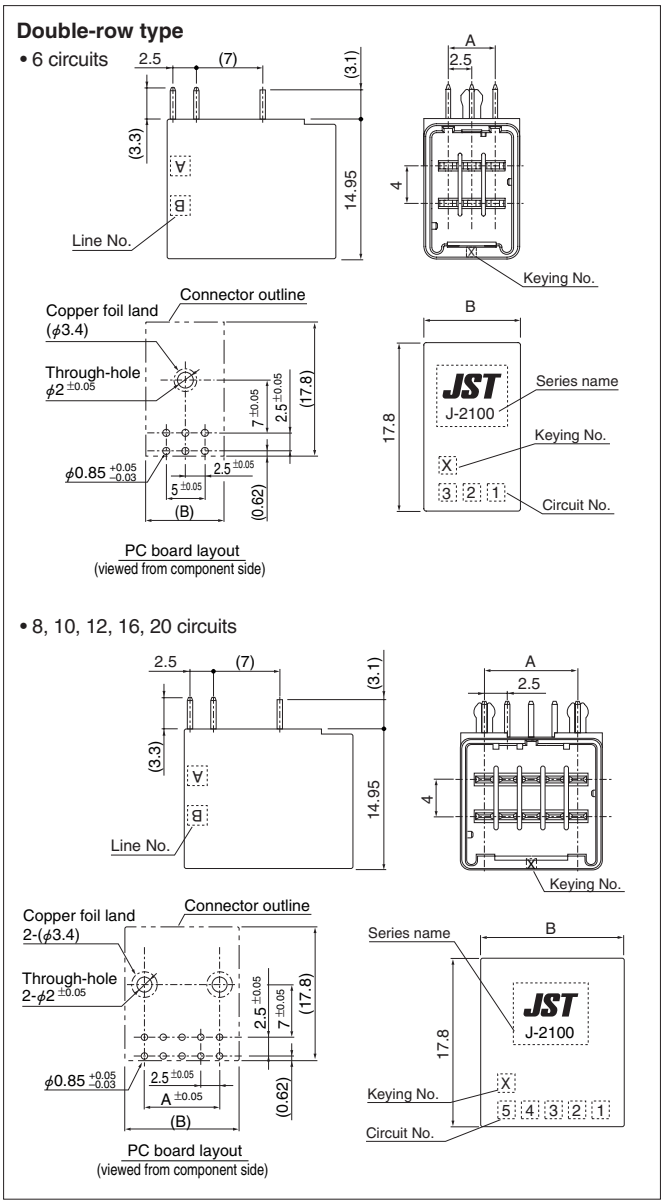


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
6	X	**B06B-J21DK-GGXR**	5.0	10.2	252
	Y	**B06B-J21DK-GGYR**	5.0	10.2	252
8	X	**B08B-J21DK-GGXR**	7.5	12.7	204
	Y	**B08B-J21DK-GGYR**	7.5	12.7	204
10	X	**B10B-J21DK-GGXR**	10.0	15.2	168
	Y	**B10B-J21DK-GGYR**	10.0	15.2	168
12	X	**B12B-J21DK-GGXR**	12.5	17.7	144
	Y	**B12B-J21DK-GGYR**	12.5	17.7	144
16	X	**B16B-J21DK-GGXR**	17.5	22.7	108
	Y	**B16B-J21DK-GGYR**	17.5	22.7	108
20	X	**B20B-J21DK-GGXR**	22.5	27.7	84
	Y	**B20B-J21DK-GGYR**	22.5	27.7	84

Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF) (AU) on a label.*

Header Side entry type (Center locking type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
6	X	**S06B-J21DK-GGXR**	5.0	10.2	252
	Y	**S06B-J21DK-GGYR**	5.0	10.2	252
8	X	**S08B-J21DK-GGXR**	7.5	12.7	204
	Y	**S08B-J21DK-GGYR**	7.5	12.7	204
10	X	**S10B-J21DK-GGXR**	10.0	15.2	168
	Y	**S10B-J21DK-GGYR**	10.0	15.2	168
12	X	**S12B-J21DK-GGXR**	12.5	17.7	144
	Y	**S12B-J21DK-GGYR**	12.5	17.7	144
16	X	**S16B-J21DK-GGXR**	17.5	22.7	108
	Y	**S16B-J21DK-GGYR**	17.5	22.7	108
20	X	**S20B-J21DK-GGXR**	22.5	27.7	84
	Y	**S20B-J21DK-GGYR**	22.5	27.7	84

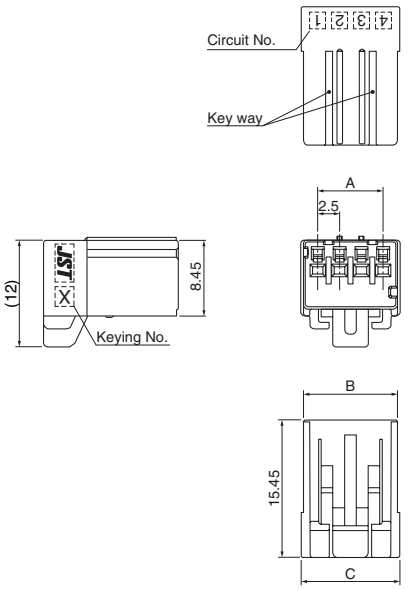
Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF) (AU) on a label.*

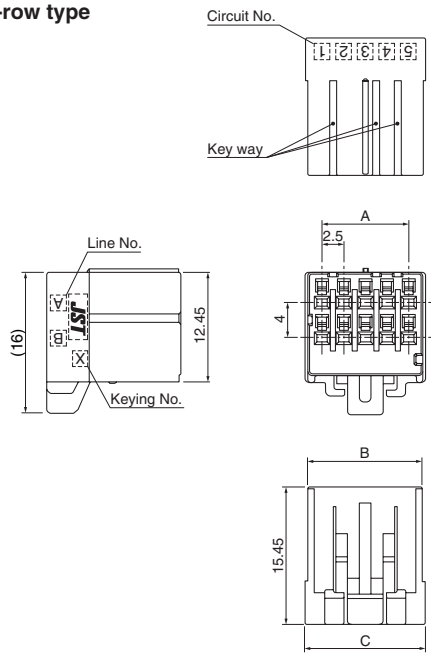
Receptacle housing (Center locking type)

Short keying type

Single-row type



Double-row type



Single-row type

Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	**J21SF-03V-KX**	5.0	8.3	8.9	400
	Y	**J21SF-03V-KY**	5.0	8.3	8.9	400
4	X	**J21SF-04V-KX**	7.5	10.8	11.4	400
	Y	**J21SF-04V-KY**	7.5	10.8	11.4	400

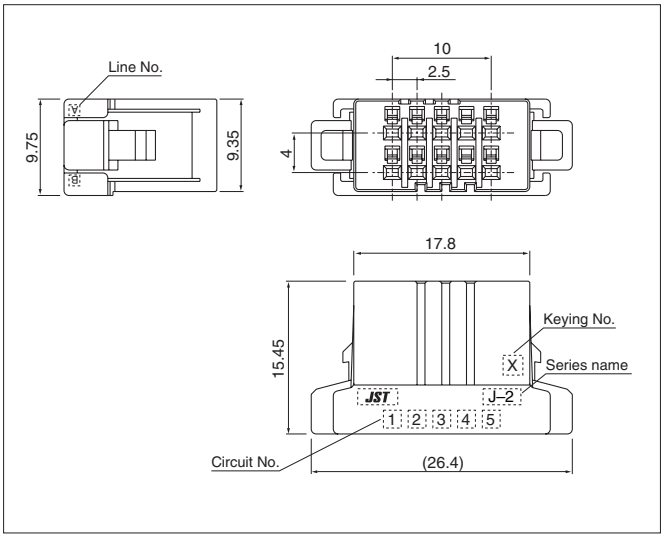
Double-row type

Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
8	X	**J21DF-08V-KX**	7.5	10.8	11.4	300
	Y	**J21DF-08V-KY**	7.5	10.8	11.4	300
10	X	**J21DF-10V-KX**	10.0	13.3	13.9	200
	Y	**J21DF-10V-KY**	10.0	13.3	13.9	200
12	X	**J21DF-12V-KX**	12.5	15.8	16.4	200
	Y	**J21DF-12V-KY**	12.5	15.8	16.4	200
16	X	**J21DF-16V-KX**	17.5	20.8	21.4	200
	Y	**J21DF-16V-KY**	17.5	20.8	21.4	200
20	X	**J21DF-20V-KX**	22.5	25.8	26.4	100
	Y	**J21DF-20V-KY**	22.5	25.8	26.4	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Receptacle housing (Side locking type)

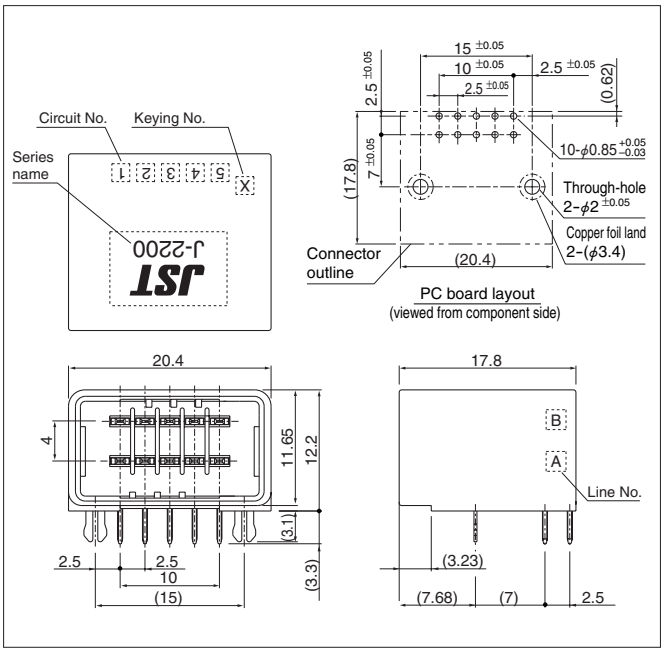


Circuits	Keying	Model No.	Q'ty / bag
10	X	**J22DF-10V-KX**	250
	Y	**J22DF-10V-KY**	250

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Header Side entry type (Side locking type)

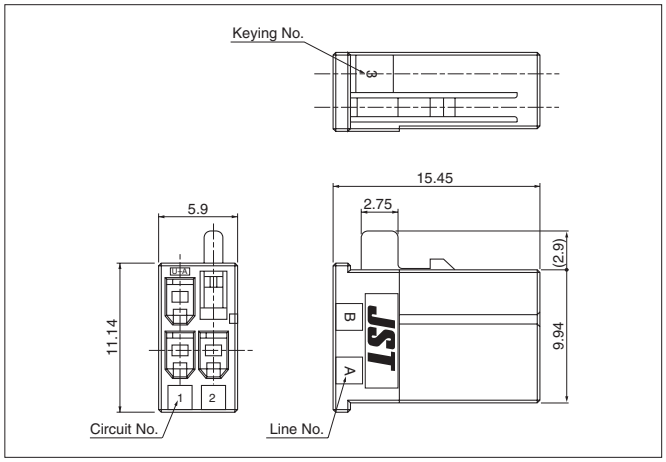


Circuits	Keying	Model No.	Q'ty / box
10	X	**S10B-J22DK-GGXR**	120
	Y	**S10B-J22DK-GGYR**	120

Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF)(AU) on a label.*

Receptacle housing (Common type for sensor)

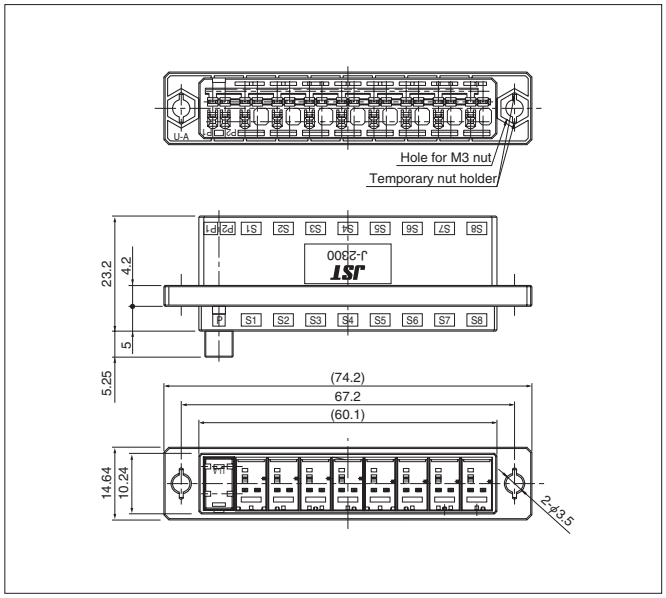


Circuits	Keying	Model No.	Q'ty / box
3	S1	**J23CF-03V-KS1**	784
	S2	**J23CF-03V-KS2**	784
	S3	**J23CF-03V-KS3**	784
	S4	**J23CF-03V-KS4**	784
	S5	**J23CF-03V-KS5**	784
	S6	**J23CF-03V-KS6**	784
	S7	**J23CF-03V-KS7**	784
	S8	**J23CF-03V-KS8**	784

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

T&P connector



Circuits		Keying	Model No.	Q'ty / box
Input	24	S1 ～ S8	**P28B-J23DK-GGNR**	64
Output	10			

Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black

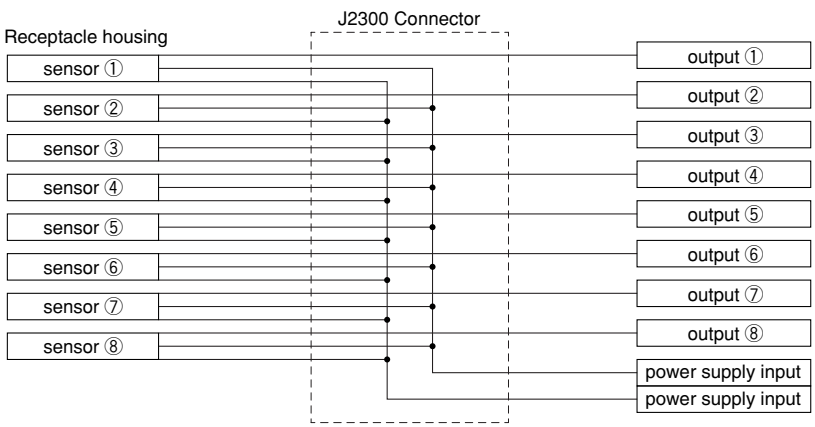
RoHS compliance

• Current rating

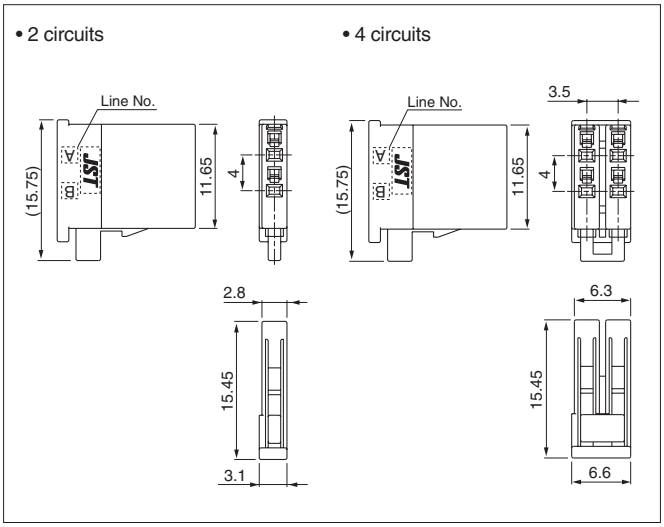
Wire size	Current (A)
#20	6.5
#22	5.5
#24	4.0
#26	3.0
#28	2.0

• Voltage rating: 250V AC, DC

• Circuit composition



Receptacle housing (Module type)

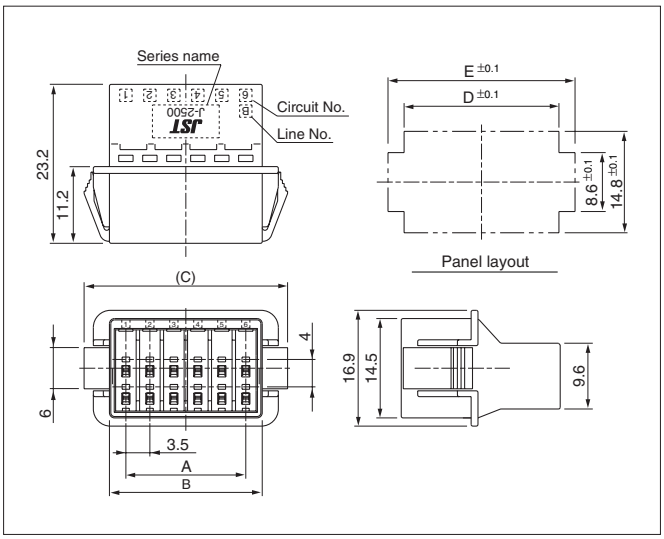


Circuits	Keying	Model No.	Q'ty / bag
2	—	**J25MF-02V-K**	800
4	—	**J25MF-04V-K**	400

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)

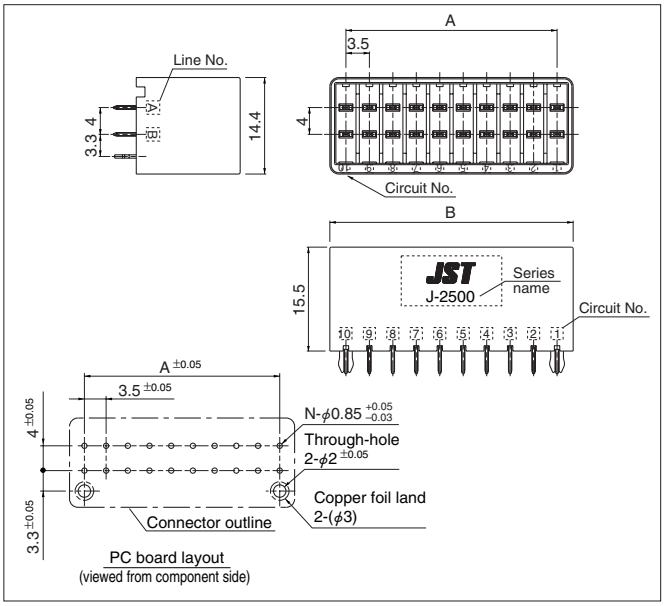


Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / box
			A	B	(C)	D	E	
12	—	**J25DPM-12V-K**	17.5	22.3	29.7	22.6	27.3	96
20	—	**J25DPM-20V-K**	31.5	36.3	43.7	36.6	41.3	132

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: Not UL approved.

Header Top entry type (Module type)

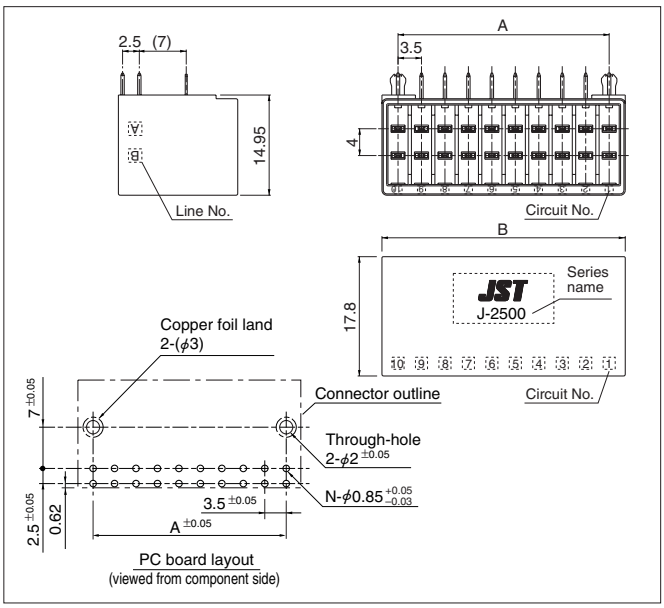


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	**B12B-J25DK-GGR**	17.5	22.3	108
20	—	**B20B-J25DK-GGR**	31.5	36.3	72

Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF) (AU) on a label.*

Header Side entry type (Module type)

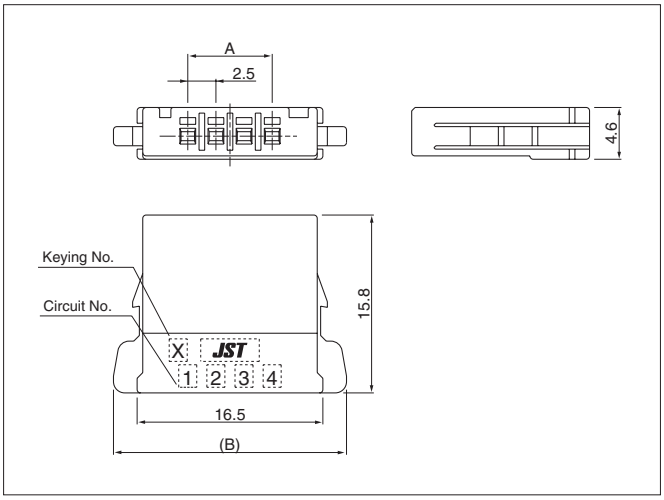


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	**S12B-J25DK-GGR**	17.5	22.3	108
20	—	**S20B-J25DK-GGR**	31.5	36.3	72

Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF) (AU) on a label.*

Receptacle housing

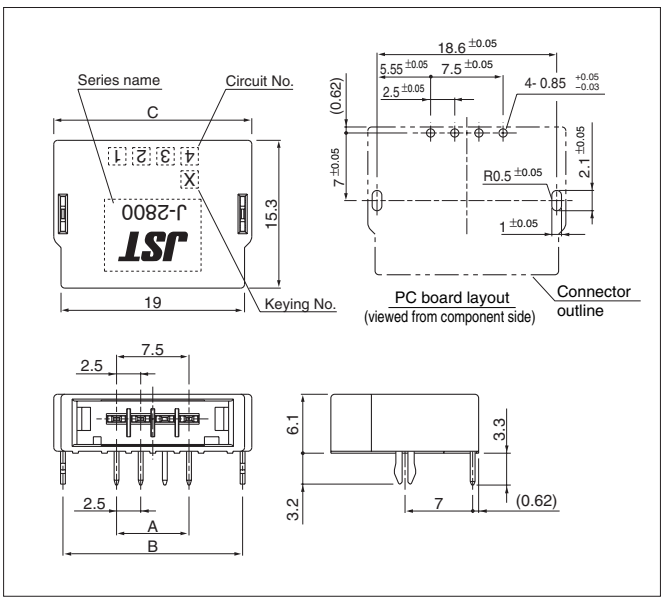


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	(B)	
4	X	**J28SF-04V-KX**	7.5	20.7	540
	Y	Under planning	—	—	—

Material
PBT, UL94V-0, black

RoHS compliance
Note: Not UL approved.

Header Side entry type (Side locking type)

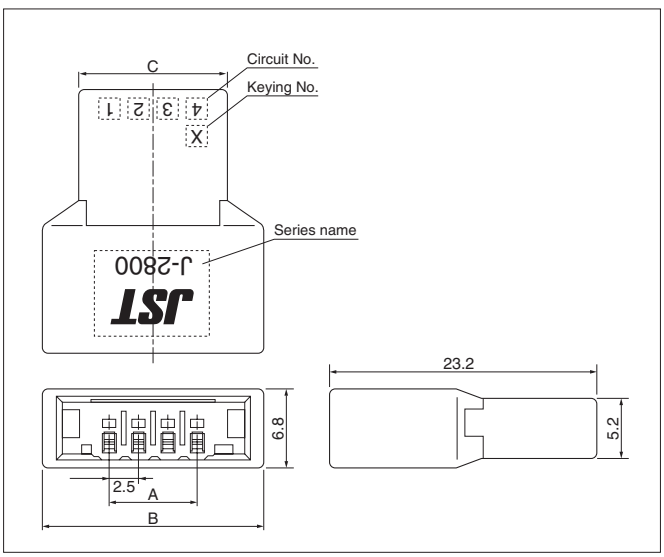


Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
4	X	**S04B-J28SK-GGXQ1R**	7.5	18.6	20.5	280
	Y	Under planning	—	—	—	—

Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF) on a label.*
Note: 1. 3rd and 4th pins are sequential pins.
2. Not UL approved.

Tab housing (Free hanging type)



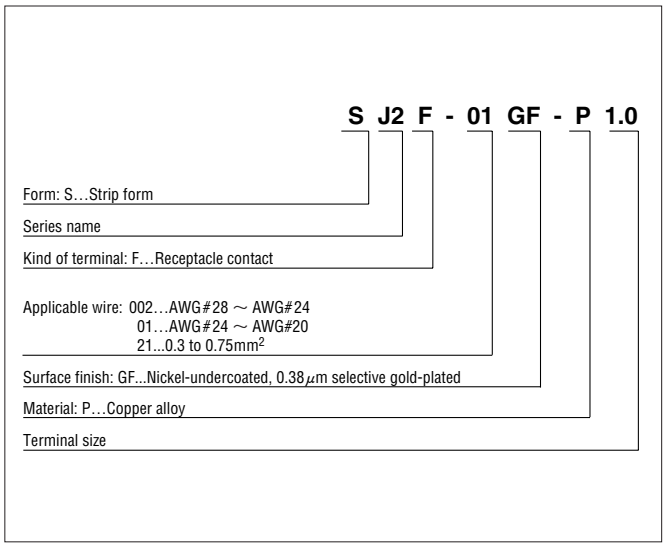
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
4	X	**J28SFM-04V-KX**	7.5	19	12.7	—
	Y	Under planning	7.5	19	12.7	—

Material
PBT, UL94V-0, black

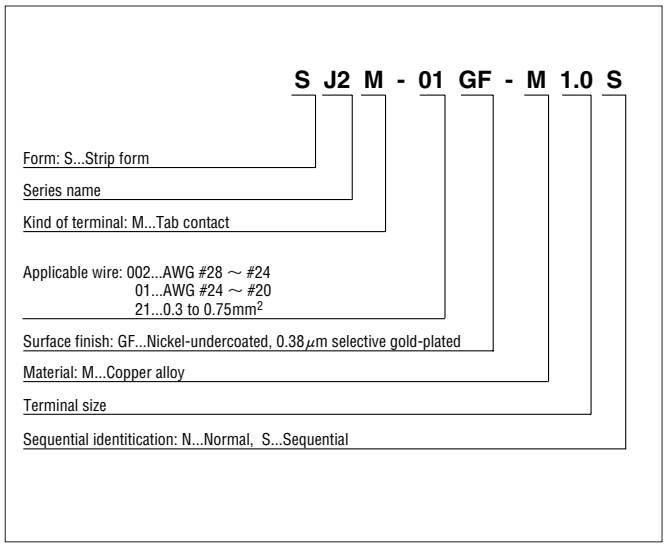
RoHS compliance
Note: Not UL approved.

Model number identification

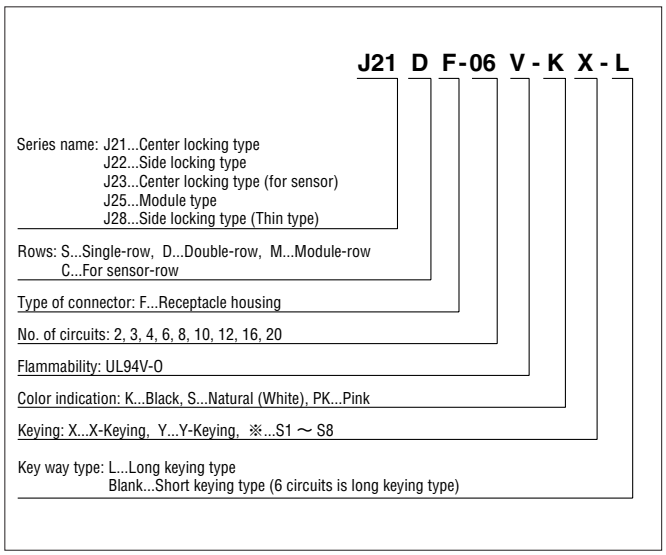
Receptacle contact



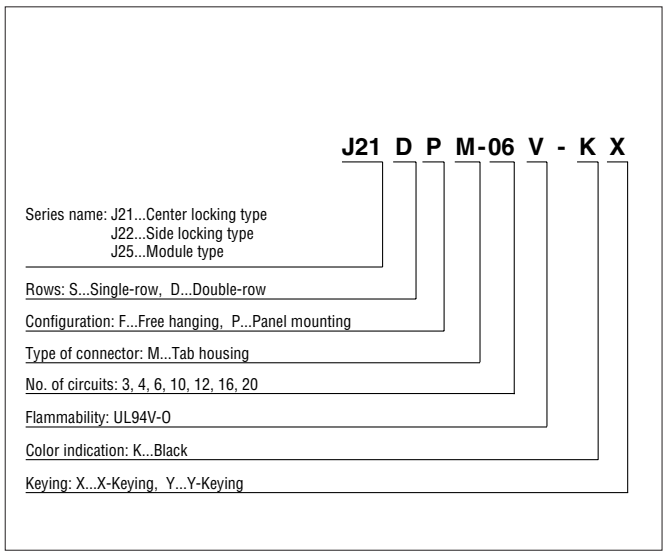
Tab contact



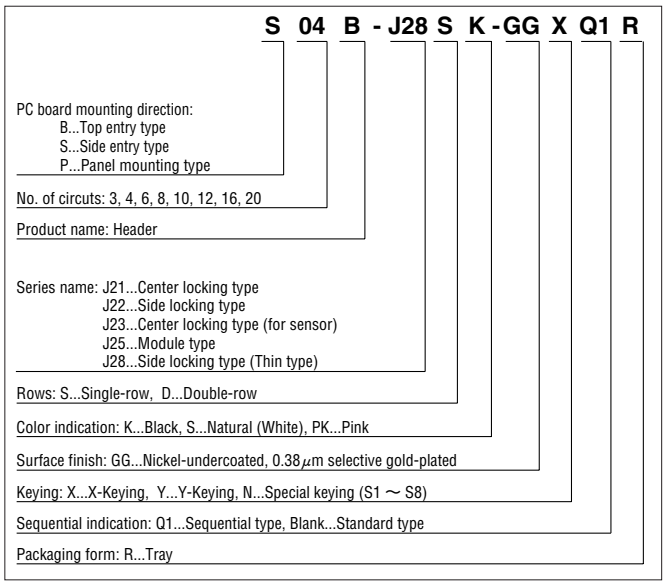
Receptacle housing

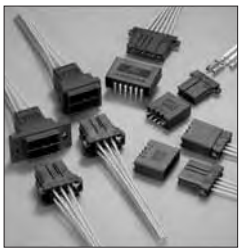


Tab housing



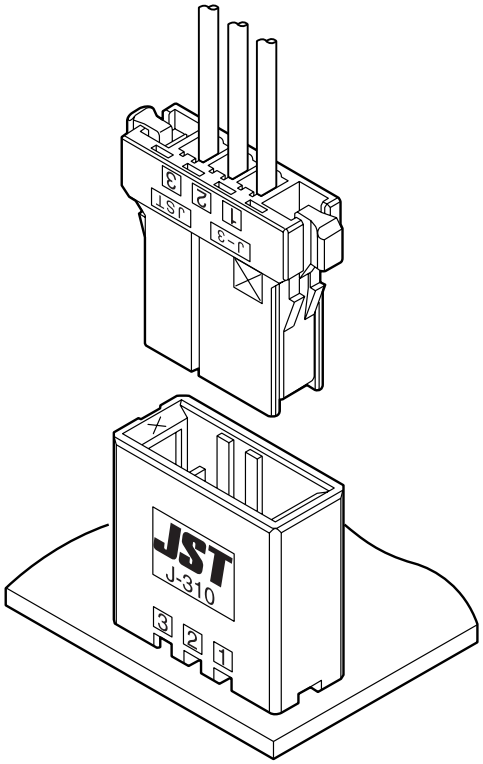
Header





JFA CONNECTOR J300 SERIES

3.81, 5.08mm pitch/Disconnectable Crimp style connectors(Wire-to-board/Wire-to-wire)



Connectors for signal circuit or power supply circuit, applicable to the factory automation, heavy electric machinery, and other industrial equipment in general.
In spite of the various kinds of housings available, their contacts are designed to be common.
The applicable tooling can be standardized.

- ***Double-spring construction***
- ***Housing lances***
- ***Secure locking method***
- ***Recognition mark***

Specifications

- Current rating: 15A AC, DC (Single circuit/AWG #14)
- Voltage rating: 310, 340 series [3.81mm pitch] 250V AC, DC
  320, 350 series, 360T [5.08mm pitch] 600V AC, DC
- Temperature range: –55°C to +105°C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/5mΩ max.
  After environmental testing/10mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage:
  310, 340 series [3.81mm pitch] 1,500V AC/minute
  320, 350 series, 360T [5.08mm pitch] 2,200V AC/minute
- Applicable wire: AWG #28 to #14 (0.08 to 2.0mm^2)
- Applicable PC board thickness: 1.6 to 2.4mm

*Contact JST for details.
*RoHS compliant products are published.

Current rating Unit: A

Circuits	Wire size (AWG)							
	#14	#16	#18	#20	#22	#24	#26	#28
1	15.0	14.0	11.5	9.5	8.0	6.5	5.75	4.75
2	13.5	13.5	11.25	9.25	7.5	6.25	5.5	4.5
3	12.25	12.25	10.5	8.5	7.0	5.75	5.0	4.1
4	11.25	11.25	10.0	8.0	6.5	5.5	4.75	4.0
5	10.5	10.5	9.5	7.5	6.25	5.25	4.5	4.0
6	9.75	9.75	9.0	7.0	6.0	5.0	4.25	3.75
8	9.0	9.0	8.25	6.5	5.5	4.5	3.75	3.25
9	8.5	8.5	8.0	6.25	5.25	4.5	3.75	3.25
10	8.5	8.5	8.0	6.25	5.25	4.5	3.75	3.25
12	8.25	8.25	7.75	6.0	5.0	4.0	3.5	3.0
16	8.0	8.0	7.5	6.0	4.75	4.0	3.5	3.0
20	8.0	8.0	7.25	6.0	4.5	4.0	3.5	2.75

Standards

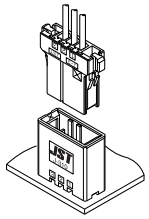
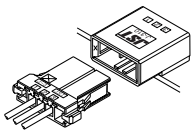
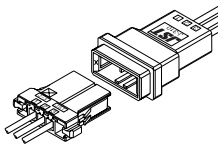
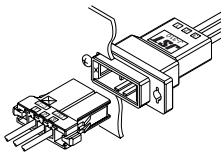
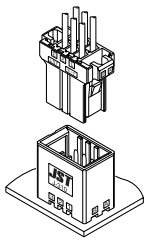
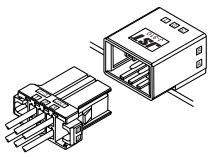
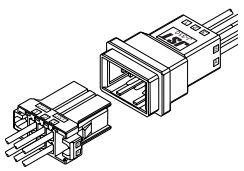
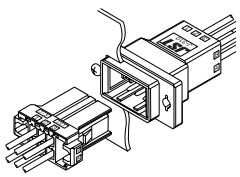
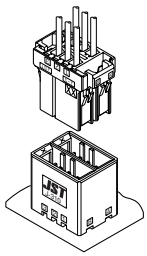
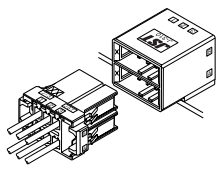
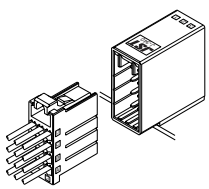
Recognized E60389

Certified LR20812

J-50015641

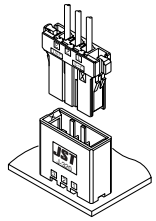
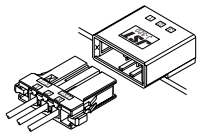
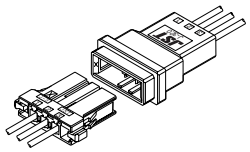
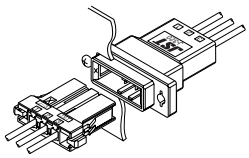
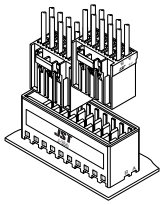
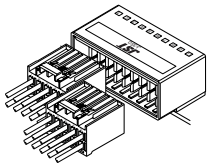
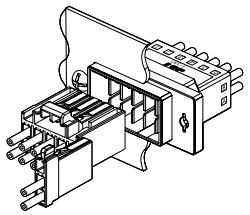
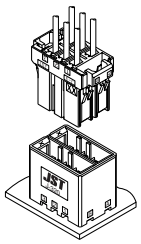
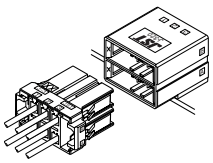
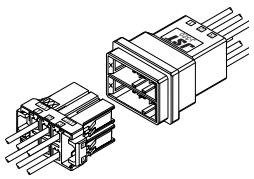
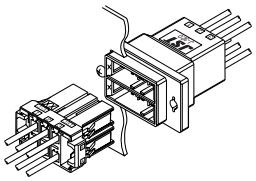
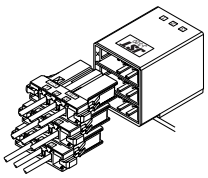
List of J300 series products

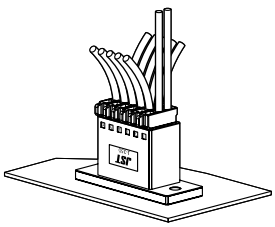
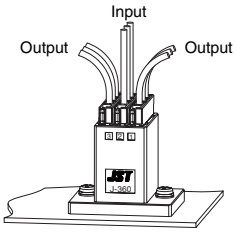
3.81mm pitch / Voltage rating 250V AC, DC

Type	Wire-to-board		Wire-to-wire	
	Top entry type	Side entry type	Free hanging type	Panel mounting type
J310S Single-row type				
Circuits	3, 4, 5, 6, 8,10	3, 4, 5, 6, 8,10	3, 5, 8,10	3, 5, 8,10
J310D Double-row type [line pitch 5.08mm]				
Circuits	6, 8,10,12,16, 20	6, 8,10,12,16, 20	6, 8,10,12,16, 20	6, 8,10,12,16, 20
J310M Double-row module type [line pitch 7.62mm]				
Circuits	6	6		
J340F Four-row type [line pitch 5.08mm]				
Circuits		12, 20		
—				
Circuits				

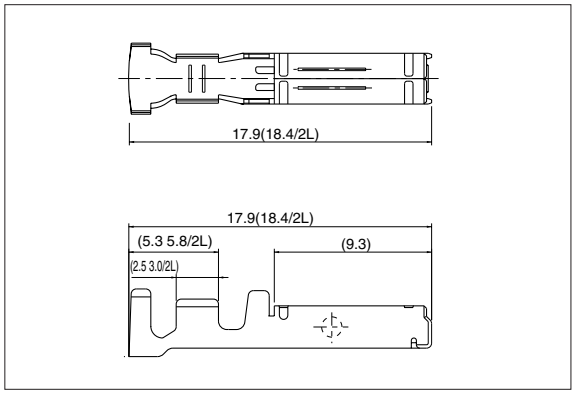
List of J300 series products

5.08mm pitch / Voltage rating 600V AC, DC

Wire-to-board		Wire-to-wire		Type
Top entry type	Side entry type	Free hanging type	Panel mounting type	
				**J320S** Single-row type
2, 3, 4, 5, 6	2, 3, 4, 5, 6	1, 2, 3, 4	1, 2, 3, 4	Circuits
				**J350D** Double-row type [line pitch 5.08mm]
12, 20	12, 20		12	Circuits
				**J320M** Double-row module type [line pitch 7.62mm]
6,10,12	6, 8,10,12	6,12	6,12, 20	Circuits
				**J320T** Triple-row module type [line pitch 7.62mm]
	9			Circuits

Double-row common type (J350DC)	Triple-row common type (J360T)	
 (line pitch 5.08mm)	 (line pitch 6.5mm)	**J350DC** **J360T** Common type
12	9,18, 24	Circuits

Receptacle contact



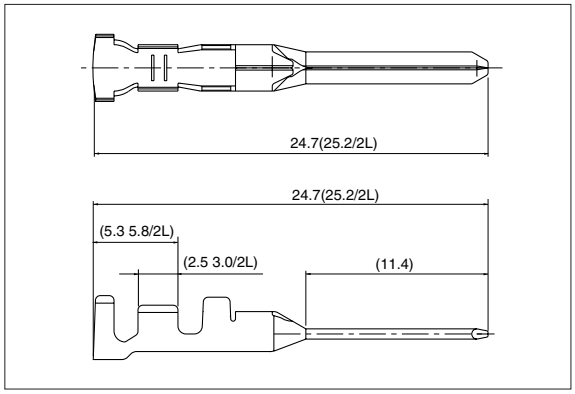
Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm²	AWG#		reel	Box(Loose piece)
SF3F-002 (*) -P2.0	**BF3F-002 (*) -P2.0**	S	0.08 ~ 0.20	28 ~ 24	0.8 ~ 1.4	3,700	1,000
SF3F-01 (*) -P2.0	**BF3F-01 (*) -P2.0**	M	0.20 ~ 0.50	24 ~ 20	1.2 ~ 2.6	3,700	1,000
SF3F-41 (*) -P2.0	**LF3F-41 (*) -P2.0**	L	0.50 ~ 1.25	20 ~ 16	1.8 ~ 2.8	3,200	1,000
***SF3F-71 (*) -P2.0**	***BF3F-71 (*) -P2.0**	2L	1.25 ~ 2.0	16 ~ 14	2.4 ~ 3.4	3,200	1,000

Material and Finish
Copper alloy (superior conductivity), nickel-underplated, selective gold-plated tin-plated (reflow treatment)

RoHS compliance

Note: 1. Finish (*):GF...Nickel-undercoated, 0.38 μm selective gold-platad
GI....Nickel-undercoated, 0.76 μm selective gold-platad
T.....Tin-plated
*2. *Marked products are not CSA/TÜV approved.*

Tab contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm²	AWG#		reel	Box(Loose piece)
Under planning	Under planning	S	0.08 ~ 0.20	28 ~ 24	0.8 ~ 1.4	—	—
SF3M-01 (*) -M2.0N	**BF3M-01 (*) -M2.0N**	M	0.20 ~ 0.50	24 ~ 20	1.2 ~ 2.6	3,500	1,000
SF3M-41 (*) -M2.0N	**LF3M-41 (*) -M2.0N**	L	0.50 ~ 1.25	20 ~ 16	1.8 ~ 2.8	3,300	1,000
***SF3M-71 (*) -M2.0N**	***BF3M-71 (*) -M2.0N**	2L	1.25 ~ 2.0	16 ~ 14	2.4 ~ 3.4	3,200	1,000

Material and Finish
Copper alloy (superior conductivity), nickel-underplated, selective gold-plated tin-plated (reflow treatment)

RoHS compliance

Note: 1. Finish (*):GF...Nickel-undercoated, 0.38 μm selective gold-platad
GI....Nickel-undercoated, 0.76 μm selective gold-platad
T.....Tin-plated
*2. *Marked products are not CSA/TÜV approved.*

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies	Hand crimp tools
SF3F-002 (*) -P2.0	AP-K2N	MKS-L	MK/SF3F-002-20	APLMK SF3F/M002-20	YRK-8821
SF3F-01 (*) -P2.0			MK/SF3F/M-01-20	APLMK SF3F/M01-20	YRK-8811
SF3M-01 (*) -M2.0N					
SF3F-41 (*) -P2.0			MK/SF3F/M-41-20	APLMK SF3F/M41-20	YRK-8801
SF3M-41 (*) -M2.0N					
SF3F-71 (*) -P2.0			MK/SF3F/M-71-20	APLMK SF3F/M71-20	YRK-1071
SF3M-71 (*) -M2.0N					

Note: Finish (*): GF...Nickel-undercoated, 0.38 μm selective gold-platad
GI....Nickel-undercoated, 0.76 μm selective gold-platad
T.....Tin-plated

Loose piece	Hand crimp tools
BF3F-002 (*) -P2.0	YRF-882
BF3F-01 (*) -P2.0	YRF-881
BF3M-01 (*) -M2.0N	
LF3F-41 (*) -P2.0	YRF-880
LF3M-41 (*) -M2.0N	
BF3F-71 (*) -P2.0	YRF-1070
BF3M-71 (*) -M2.0N	YRF-1071

Note: Finish (*): GF...Nickel-undercoated, 0.38 μm selective gold-platad
GI....Nickel-undercoated, 0.76 μm selective gold-platad
T.....Tin-plated

- *Extraction tool for J300 series: EJ-JFAJ3*
- *Refer to page 576, 577 for details of YRK series hand crimping tool that uses a strip contact.*

Recognition mark

• Plating of the contact

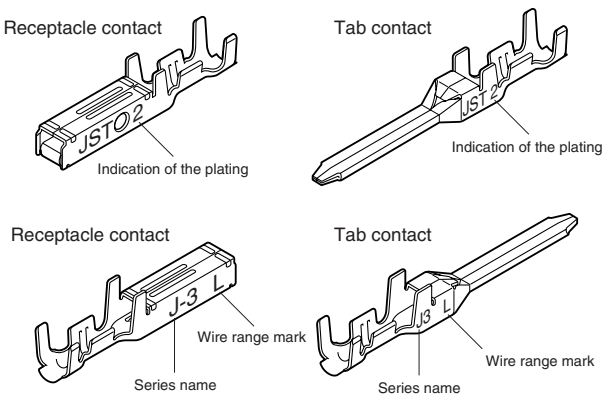
Each contact has a marking on its side so that the type or thickness of the plating is recognized.

ex. 2 ... gold-plated 0.38μm thickness
3 ... gold-plated 0.76μm thickness
5 ... tin-plated

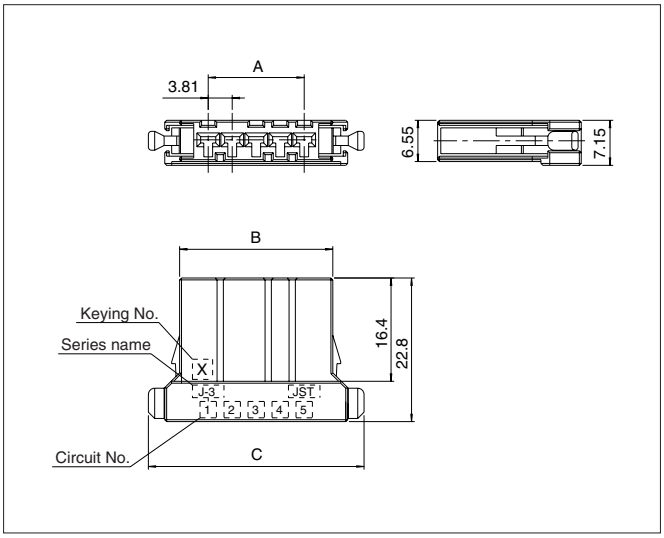
• Common marking on the contact and its application tools

In order to avoid incorrect combination of the hand crimp tools or extraction tools and the contacts, the series name (for example J-3) and wire range mark (S, M, L, 2L) are shown on both the tools and the contacts.

For example J-3 S..... AWG #28 ~ #24
M.... AWG #24 ~#20
L..... AWG #20 ~ #16
2L... AWG #16 ~ #14



Receptacle housing

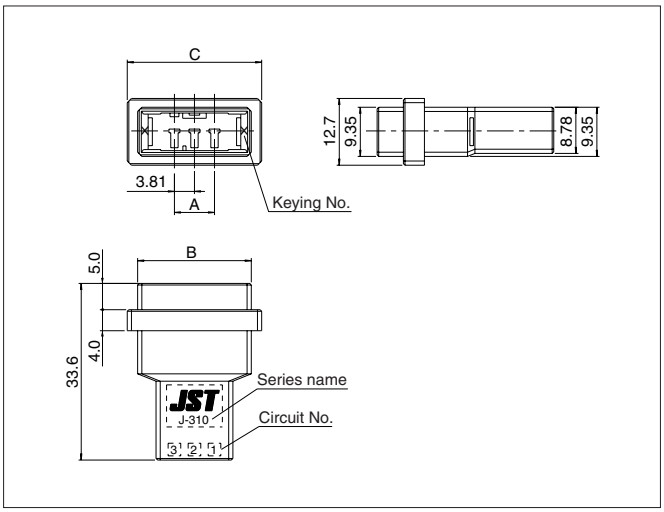


Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	**F31FSS-03V-KX**	7.62	16.70	26.62	200
	Y	**F31FSS-03V-KY**	7.62	16.70	26.62	200
4	X	**F31FSS-04V-KX**	11.43	20.51	30.43	200
	Y	**F31FSS-04V-KY**	11.43	20.51	30.43	200
5	X	**F31FSS-05V-KX**	15.24	24.32	34.24	200
	Y	**F31FSS-05V-KY**	15.24	24.32	34.24	200
6	X	**F31FSS-06V-KX**	19.05	28.13	38.05	200
	Y	**F31FSS-06V-KY**	19.05	28.13	38.05	200
8	X	**F31FSS-08V-KX**	26.67	35.75	45.67	100
	Y	**F31FSS-08V-KY**	26.67	35.75	45.67	100
10	X	**F31FSS-10V-KX**	34.29	43.37	53.29	100
	Y	**F31FSS-10V-KY**	34.29	43.37	53.29	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)

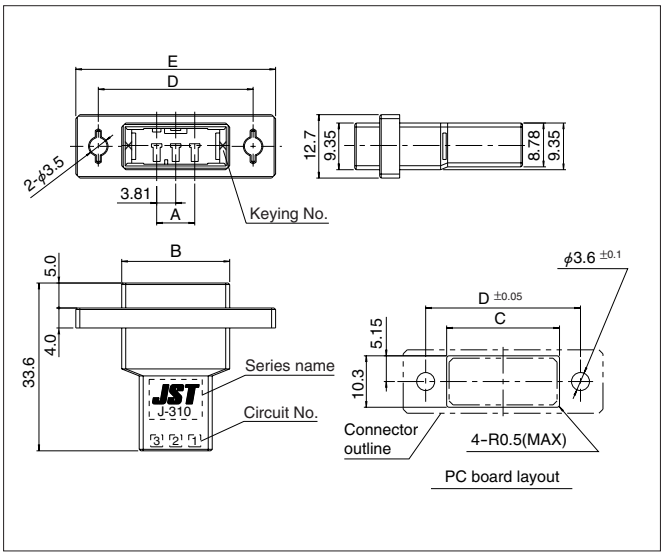


Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
3	X	**F31MSF-03V-KX**	7.62	21.62	25.57	200
	Y	**F31MSF-03V-KY**	7.62	21.62	25.57	200
5	X	**F31MSF-05V-KX**	15.24	29.24	33.19	200
	Y	**F31MSF-05V-KY**	15.24	29.24	33.19	200
8	X	**F31MSF-08V-KX**	26.67	40.67	44.62	100
	Y	**F31MSF-08V-KY**	26.67	40.67	44.62	100
10	X	**F31MSF-10V-KX**	34.29	48.29	52.24	100
	Y	**F31MSF-10V-KY**	34.29	48.29	52.24	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)

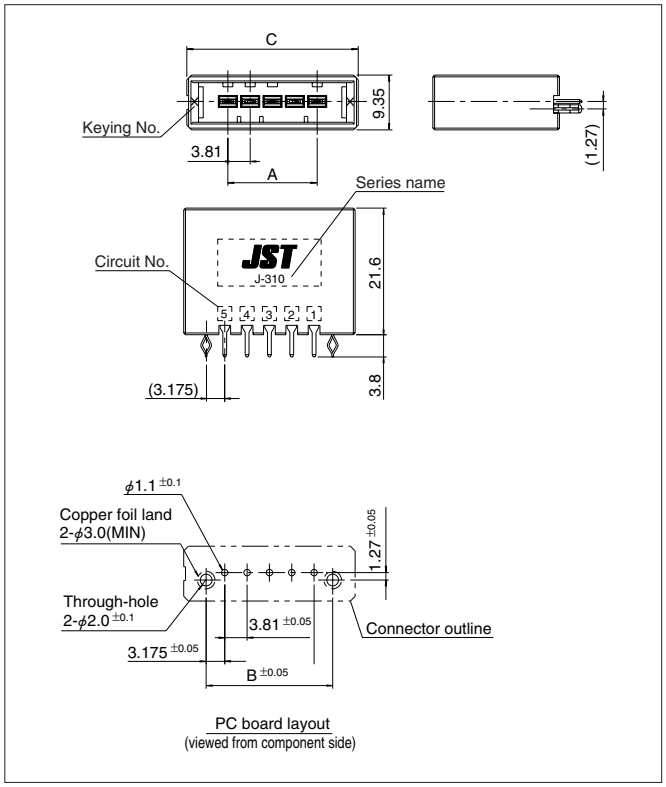


Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
3	X	**F31MSP-03V-KX**	7.62	21.62	22.60	31.00	40.00	200
	Y	**F31MSP-03V-KY**	7.62	21.62	22.60	31.00	40.00	200
5	X	**F31MSP-05V-KX**	15.24	29.24	30.20	38.00	47.00	200
	Y	**F31MSP-05V-KY**	15.24	29.24	30.20	38.00	47.00	200
8	X	**F31MSP-08V-KX**	26.67	40.67	41.60	50.00	59.00	100
	Y	**F31MSP-08V-KY**	26.67	40.67	41.60	50.00	59.00	100
10	X	**F31MSP-10V-KX**	34.29	48.29	49.20	58.00	67.00	100
	Y	**F31MSP-10V-KY**	34.29	48.29	49.20	58.00	67.00	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



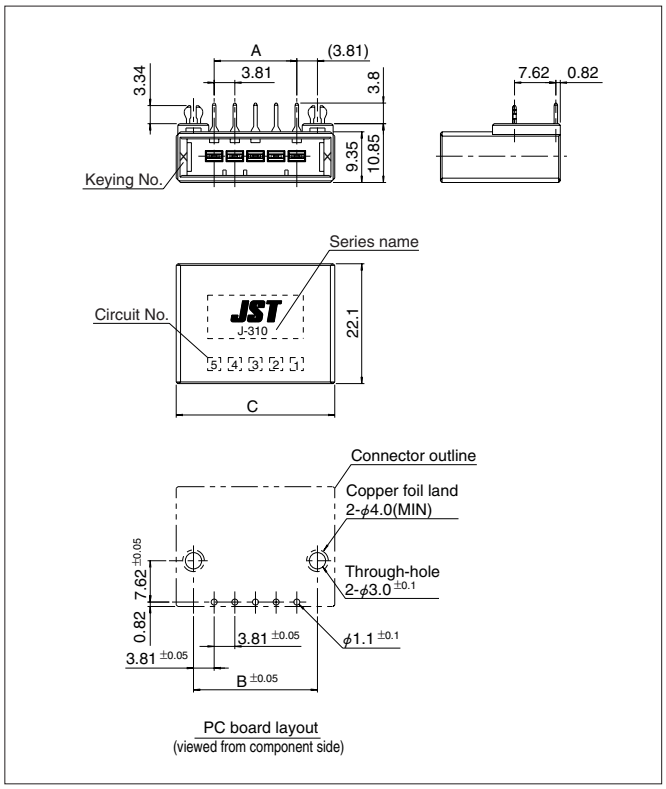
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
3	X	**B03B-F31SK-GGXR**	7.62	13.97	21.62	220
	Y	**B03B-F31SK-GGYR**	7.62	13.97	21.62	220
4	X	**B04B-F31SK-GGXR**	11.43	17.78	25.43	180
	Y	**B04B-F31SK-GGYR**	11.43	17.78	25.43	180
5	X	**B05B-F31SK-GGXR**	15.24	21.59	29.24	160
	Y	**B05B-F31SK-GGYR**	15.24	21.59	29.24	160
6	X	**B06B-F31SK-GGXR**	19.05	25.40	33.05	140
	Y	**B06B-F31SK-GGYR**	19.05	25.40	33.05	140
8	X	**B08B-F31SK-GGXR**	26.67	33.02	40.67	120
	Y	**B08B-F31SK-GGYR**	26.67	33.02	40.67	120
10	X	**B10B-F31SK-GGXR**	34.29	40.64	48.29	100
	Y	**B10B-F31SK-GGYR**	34.29	40.64	48.29	100

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF)(AU) on a label.*
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



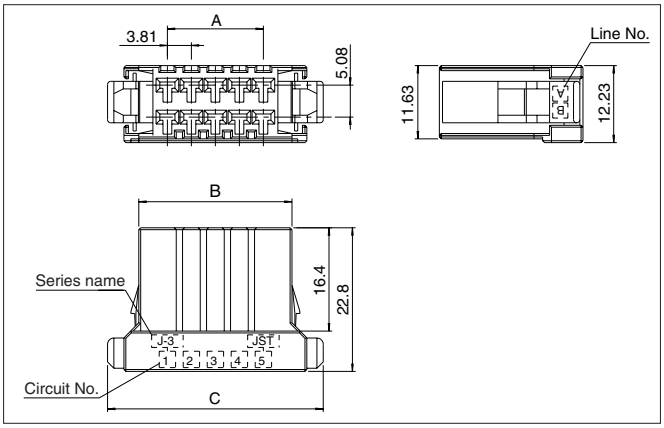
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
3	X	**S03B-F31SK-GGXR**	7.62	15.24	21.62	165
	Y	**S03B-F31SK-GGYR**	7.62	15.24	21.62	165
4	X	**S04B-F31SK-GGXR**	11.43	19.05	25.43	135
	Y	**S04B-F31SK-GGYR**	11.43	19.05	25.43	135
5	X	**S05B-F31SK-GGXR**	15.24	22.86	29.24	120
	Y	**S05B-F31SK-GGYR**	15.24	22.86	29.24	120
6	X	**S06B-F31SK-GGXR**	19.05	26.67	33.05	105
	Y	**S06B-F31SK-GGYR**	19.05	26.67	33.05	105
8	X	**S08B-F31SK-GGXR**	26.67	34.29	40.67	90
	Y	**S08B-F31SK-GGYR**	26.67	34.29	40.67	90
10	X	**S10B-F31SK-GGXR**	34.29	41.91	48.29	75
	Y	**S10B-F31SK-GGYR**	34.29	41.91	48.29	75

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF)(AU) on a label.*
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Receptacle housing

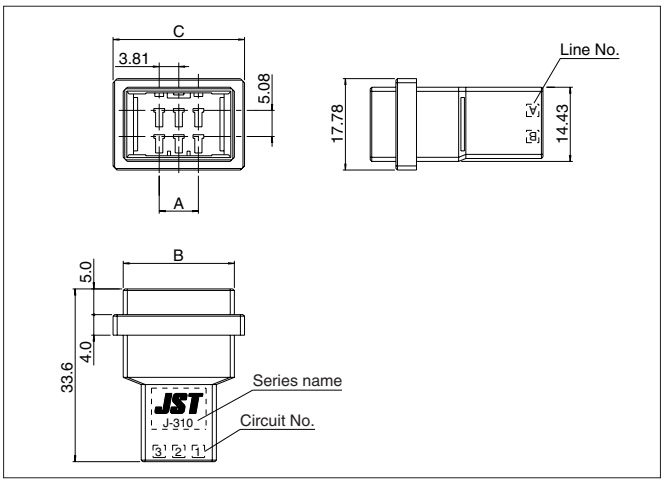


Circuits	Keying	Model No.	Dimensions (mm)			Q'ty /bag
			A	B	C	
6	—	**F31FDS-06V-K**	7.62	16.70	26.62	200
8	—	**F31FDS-08V-K**	11.43	20.51	30.43	100
10	—	**F31FDS-10V-K**	15.24	24.32	34.24	100
12	—	**F31FDS-12V-K**	19.05	28.13	38.05	100
16	—	**F31FDS-16V-K**	26.67	35.75	45.67	100
20	—	**F31FDS-20V-K**	34.29	43.37	53.29	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)

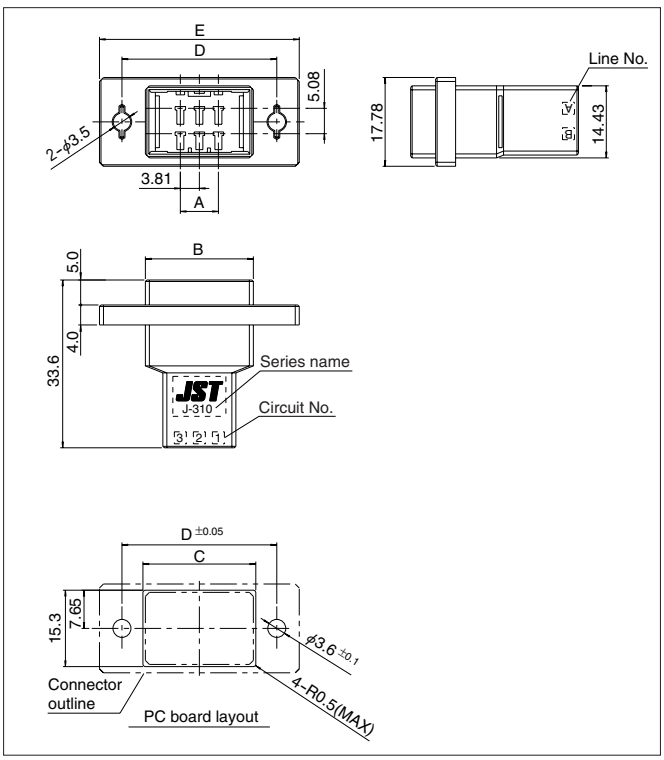


Circuits	Keying	Model No.	Dimensions (mm)			Q'ty /bag
			A	B	C	
6	—	**F31MDF-06V-K**	7.62	21.62	25.57	200
8	—	**F31MDF-08V-K**	11.43	25.43	29.38	100
10	—	**F31MDF-10V-K**	15.24	29.24	33.19	100
12	—	**F31MDF-12V-K**	19.05	33.05	37.00	100
16	—	**F31MDF-16V-K**	26.67	40.67	44.62	100
20	—	**F31MDF-20V-K**	34.29	48.29	52.24	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)

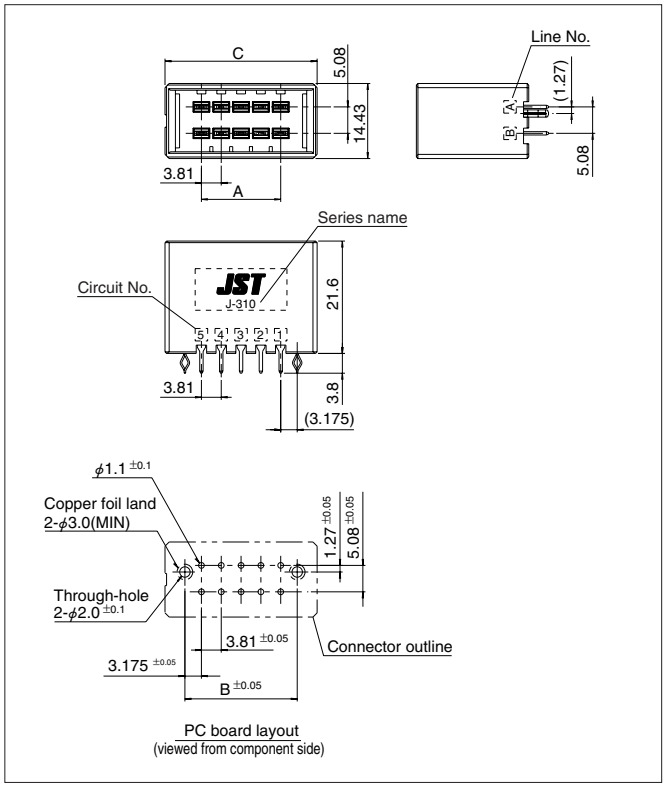


Circuits	Keying	Model No.	Dimensions (mm)					Q'ty /bag
			A	B	C	D	E	
6	—	**F31MDP-06V-K**	7.62	21.62	22.60	31.00	40.00	200
8	—	**F31MDP-08V-K**	11.43	25.43	26.40	34.50	43.50	100
10	—	**F31MDP-10V-K**	15.24	29.24	30.20	38.00	47.00	100
12	—	**F31MDP-12V-K**	19.05	33.05	34.00	42.00	51.00	100
16	—	**F31MDP-16V-K**	26.67	40.67	41.60	50.00	59.00	100
20	—	**F31MDP-20V-K**	34.29	48.29	49.20	58.00	67.00	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



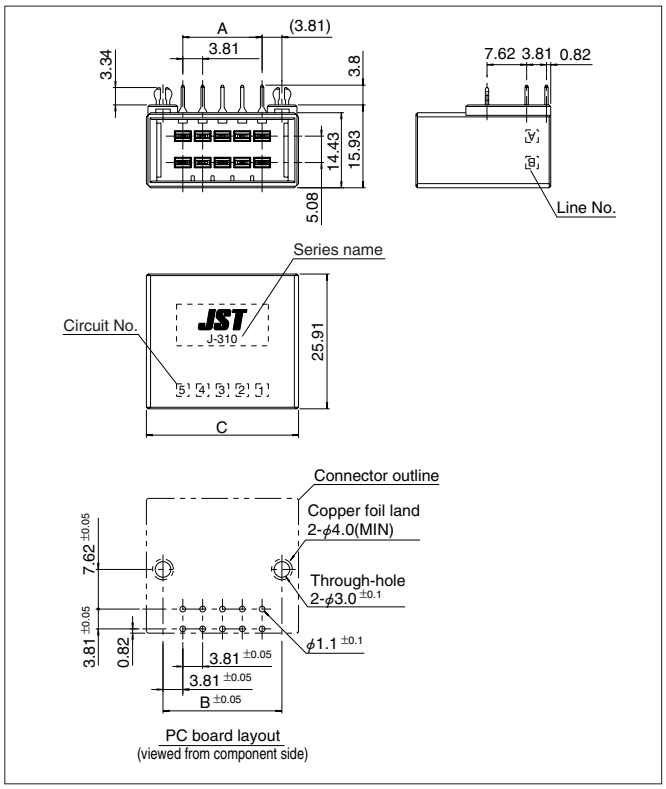
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	—	**B06B-F31DK-GGR**	7.62	13.97	21.62	132
8	—	**B08B-F31DK-GGR**	11.43	17.78	25.43	108
10	—	**B10B-F31DK-GGR**	15.24	21.59	29.24	96
12	—	**B12B-F31DK-GGR**	19.05	25.40	33.05	84
16	—	**B16B-F31DK-GGR**	26.67	33.02	40.67	72
20	—	**B20B-F31DK-GGR**	34.29	40.64	48.29	60

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF) (AU)on a label.*
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



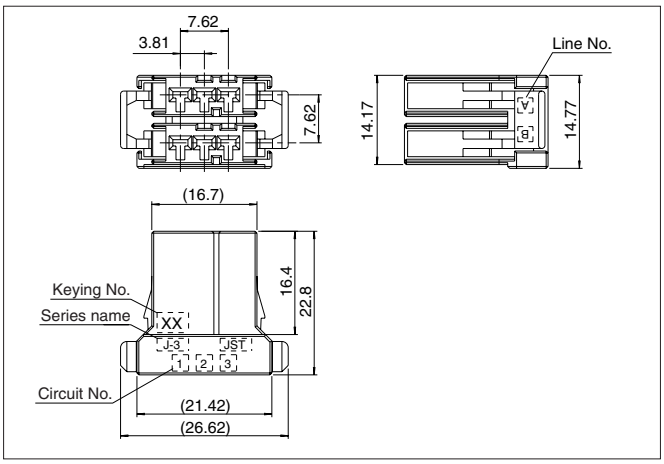
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	—	**S06B-F31DK-GGR**	7.62	15.24	21.62	88
8	—	**S08B-F31DK-GGR**	11.43	19.05	25.43	72
10	—	**S10B-F31DK-GGR**	15.24	22.86	29.24	64
12	—	**S12B-F31DK-GGR**	19.05	26.67	33.05	56
16	—	**S16B-F31DK-GGR**	26.67	34.29	40.67	48
20	—	**S20B-F31DK-GGR**	34.29	41.91	48.29	40

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF) (AU)on a label.*
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Receptacle housing

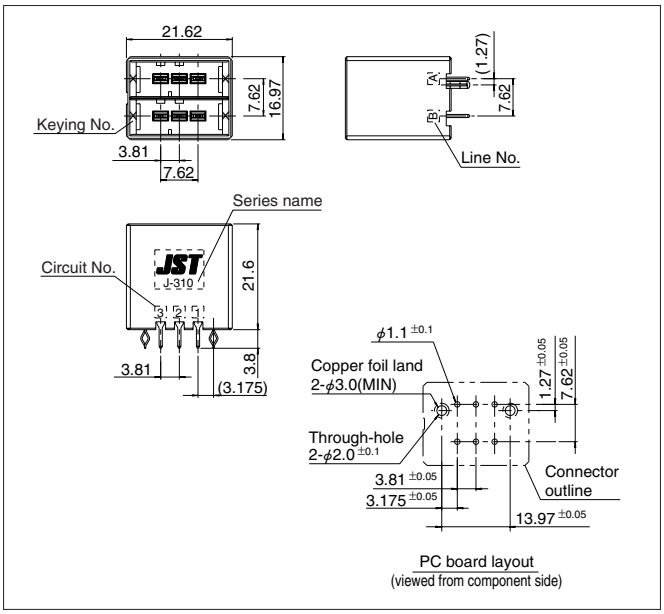


Circuits	Keying	Model No.	Q'ty / box
6	XX	**F31FMS-06V-KXX**	100
	YY	**F31FMS-06V-KYY**	100
	XY	**F31FMS-06V-KXY**	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)

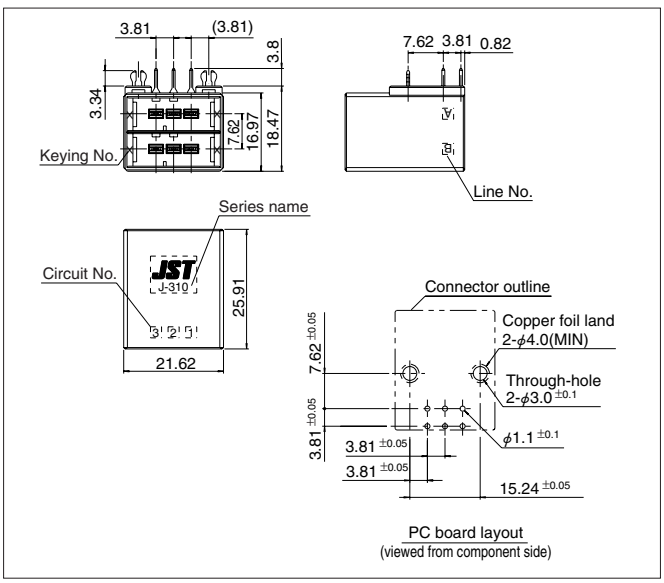


Circuits	Keying	Model No.	Q'ty / box
6	XX	**B06B-F31MK-GGXXR**	132
	YY	**B06B-F31MK-GGYYR**	132
	XY	**B06B-F31MK-GGXYR**	132

Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF)(AU) on a label.*
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



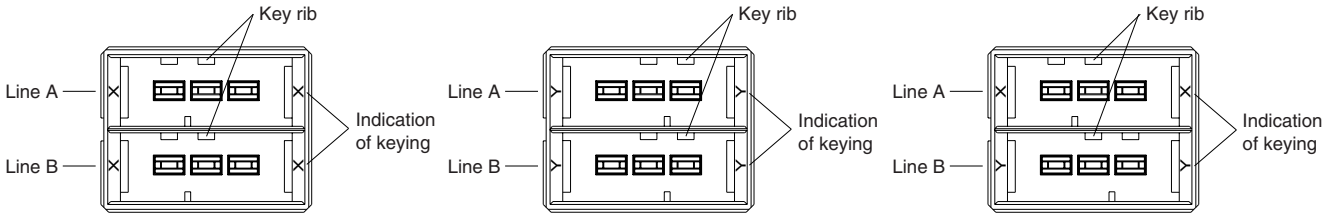
Circuits	Keying	Model No.	Q'ty / box
6	XX	**S06B-F31MK-GGXXR**	88
	YY	**S06B-F31MK-GGYYR**	88
	XY	**S06B-F31MK-GGXYR**	88

Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF)(AU) on a label.*
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Keying

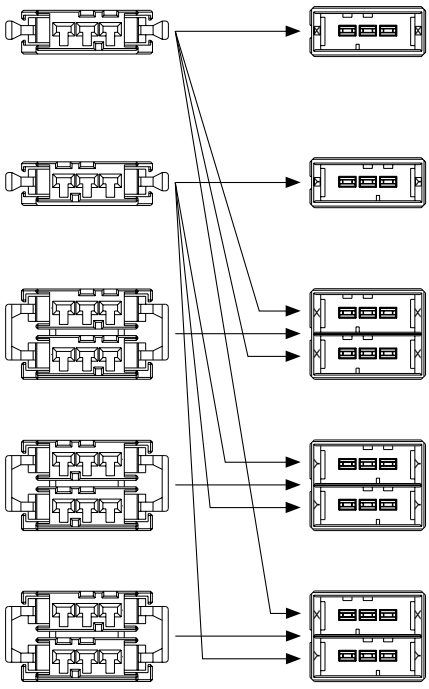
J310M series have mis-insertion preventive keying.
Available in 3 types – XX type, YY type and XY type.
(Headers viewed from the mating side are shown below.)



XX Type　　YY Type　　XY Type

List of combinations

With the combination of the J310M headers and the J310M/J310S (3 circuits) receptacle housings, the following modular combinations are possible.

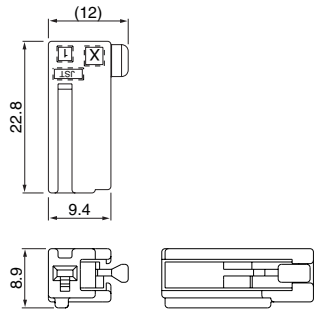


Receptacle housing		Header			
		Top entry type		Side entry type	
Single-row 3 circuits (J310S)	X Type F31FSS-03V-KX	Single-row 3 circuits (J310S)	X Type B03B-F31SK-GGX■	Single-row 3 circuits (J310S)	X Type S03B-F31SK-GGX■
	Y Type F31FSS-03V-KY		Y Type B03B-F31SK-GGY■		Y Type S03B-F31SK-GGY■
Double-row 6 circuits (J310M)	XX Type F31FMS-06V-KXX	Double-row 6 circuits (J310M)	XX Type B06B-F31MK-GGXX■	Double-row 6 circuits (J310M)	XX Type S06B-F31MK-GGXX■
	YY Type F31FMS-06V-KYY		YY Type B06B-F31MK-GGYY■		YY Type S06B-F31MK-GGYY■
	XY Type F31FMS-06V-KXY		XY Type B06B-F31MK-GGXY■		XY Type S06B-F31MK-GGXY■

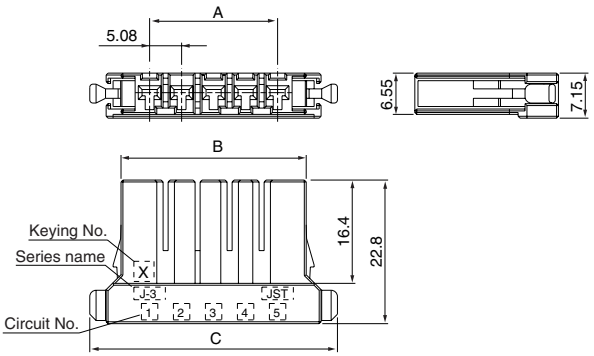
Note: Packaging method is indicated in ■. (R=Tray)

Receptacle housing

• Single circuit



• 2 to 6 circuits



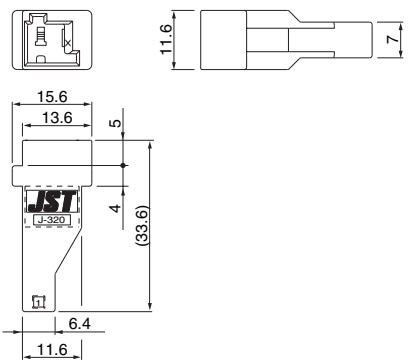
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
1	X	**F32FSS-01V-KX**	—	—	—	200
	Y	**F32FSS-01V-KY**	—	—	—	200
2	X	**F32FSS-02V-KX**	5.08	14.16	24.08	200
	Y	**F32FSS-02V-KY**	5.08	14.16	24.08	200
3	X	**F32FSS-03V-KX**	10.16	19.24	29.16	200
	Y	**F32FSS-03V-KY**	10.16	19.24	29.16	200
4	X	**F32FSS-04V-KX**	15.24	24.32	34.24	200
	Y	**F32FSS-04V-KY**	15.24	24.32	34.24	200
5	X	**F32FSS-05V-KX**	20.32	29.40	39.32	200
	Y	**F32FSS-05V-KY**	20.32	29.40	39.32	200
6	X	**F32FSS-06V-KX**	25.40	34.48	44.40	100
	Y	**F32FSS-06V-KY**	25.40	34.48	44.40	100

Material
Glass-filled PBT, UL94V-0, black

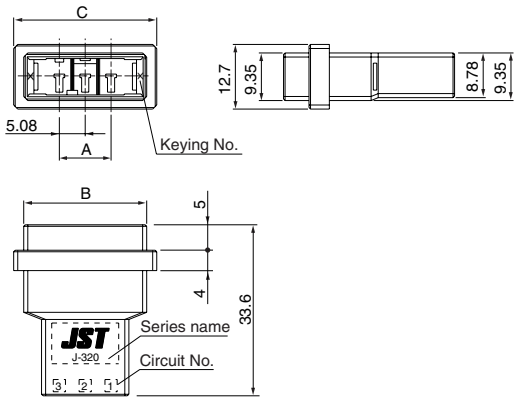
RoHS compliance

Tab housing (Free hanging type)

• Single circuit



• 2 to 4 circuits



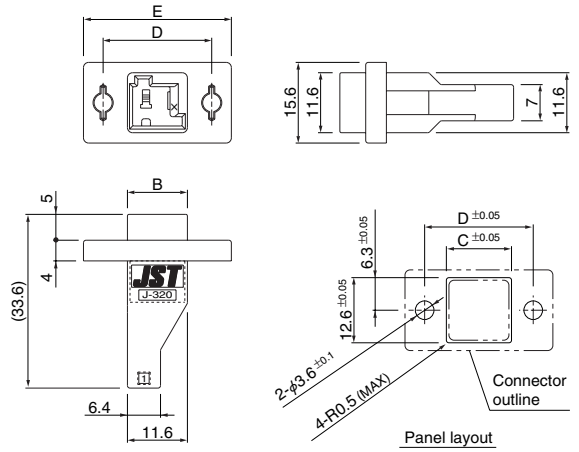
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
1	X	**F32MSF-01V-KX**	—	—	—	150
	Y	**F32MSF-01V-KY**	—	—	—	150
2	X	**F32MSF-02V-KX**	5.08	19.08	23.03	200
	Y	**F32MSF-02V-KY**	5.08	19.08	23.03	200
3	X	**F32MSF-03V-KX**	10.16	24.16	28.11	200
	Y	**F32MSF-03V-KY**	10.16	24.16	28.11	200
4	X	**F32MSF-04V-KX**	15.24	29.24	33.19	200
	Y	**F32MSF-04V-KY**	15.24	29.24	33.19	200

Material
Glass-filled PBT, UL94V-0, black

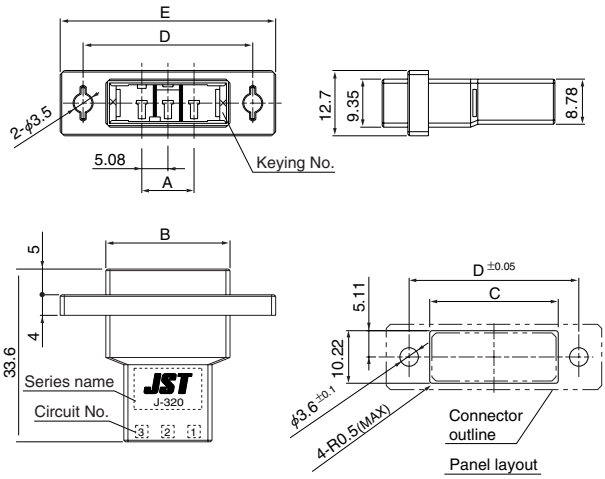
RoHS compliance

Tab housing (Panel mounting type)

• Single circuit



• 2 to 4 circuits

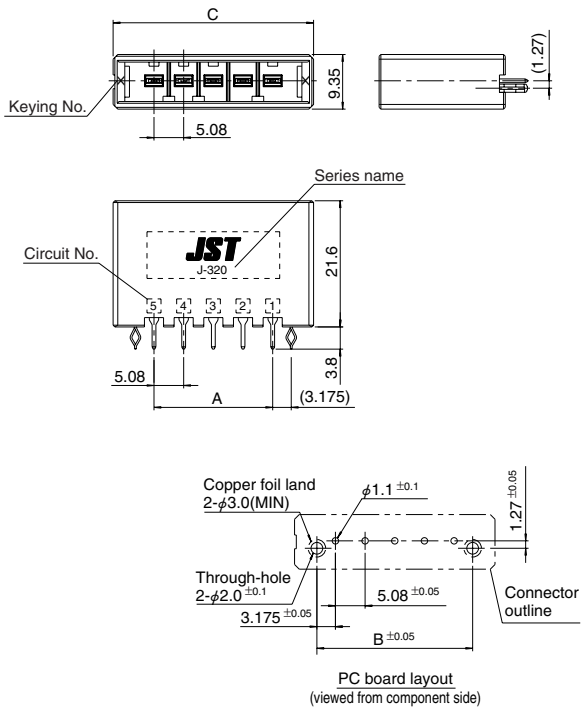


Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
1	X	**F32MSP-01V-KX**	—	11.60	12.60	21.00	28.60	150
	Y	**F32MSP-01V-KY**	—	11.60	12.60	21.00	28.60	150
2	X	**F32MSP-02V-KX**	5.08	19.08	20.00	28.00	36.83	200
	Y	**F32MSP-02V-KY**	5.08	19.08	20.00	28.00	36.83	200
3	X	**F32MSP-03V-KX**	10.16	24.16	25.00	33.00	41.91	200
	Y	**F32MSP-03V-KY**	10.16	24.16	25.00	33.00	41.91	200
4	X	**F32MSP-04V-KX**	15.24	29.24	30.00	38.00	46.99	200
	Y	**F32MSP-04V-KY**	15.24	29.24	30.00	38.00	46.99	200

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



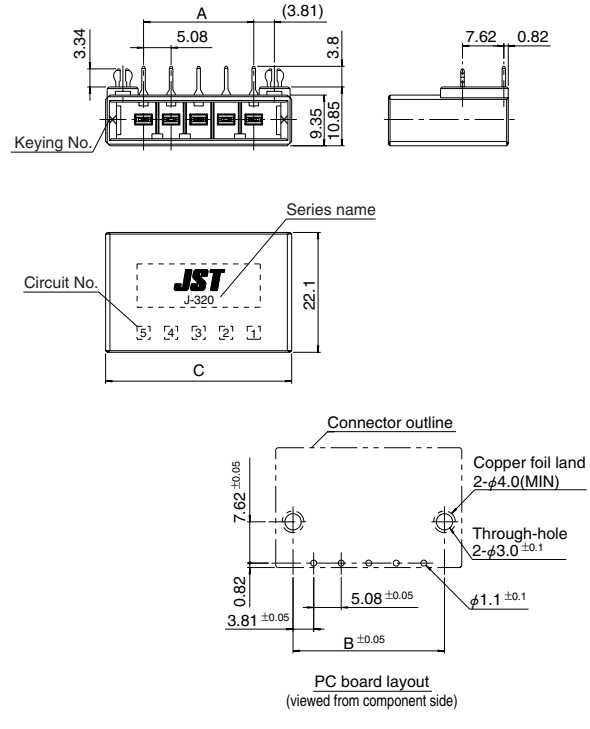
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	**B02B-F32SK-GGXR**	5.08	11.43	19.08	240
	Y	**B02B-F32SK-GGYR**	5.08	11.43	19.08	240
3	X	**B03B-F32SK-GGXR**	10.16	16.51	24.16	200
	Y	**B03B-F32SK-GGYR**	10.16	16.51	24.16	200
4	X	**B04B-F32SK-GGXR**	15.24	21.59	29.24	160
	Y	**B04B-F32SK-GGYR**	15.24	21.59	29.24	160
5	X	**B05B-F32SK-GGXR**	20.32	26.67	34.32	140
	Y	**B05B-F32SK-GGYR**	20.32	26.67	34.32	140
6	X	**B06B-F32SK-GGXR**	25.40	31.75	39.40	120
	Y	**B06B-F32SK-GGYR**	25.40	31.75	39.40	120

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF)(AU) on a label.*
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



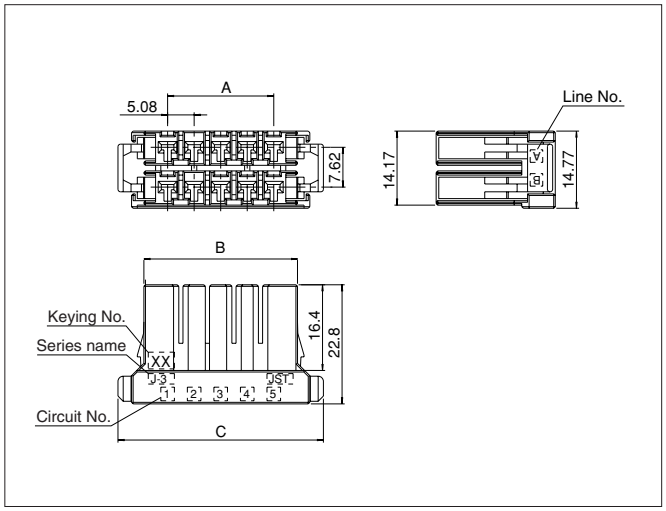
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	**S02B-F32SK-GGXR**	5.08	12.70	19.08	180
	Y	**S02B-F32SK-GGYR**	5.08	12.70	19.08	180
3	X	**S03B-F32SK-GGXR**	10.16	17.78	24.16	150
	Y	**S03B-F32SK-GGYR**	10.16	17.78	24.16	150
4	X	**S04B-F32SK-GGXR**	15.24	22.86	29.24	120
	Y	**S04B-F32SK-GGYR**	15.24	22.86	29.24	120
5	X	**S05B-F32SK-GGXR**	20.32	27.94	34.32	105
	Y	**S05B-F32SK-GGYR**	20.32	27.94	34.32	105
6	X	**S06B-F32SK-GGXR**	25.40	33.02	39.40	90
	Y	**S06B-F32SK-GGYR**	25.40	33.02	39.40	90

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF)(AU) on a label.*
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Receptacle housing

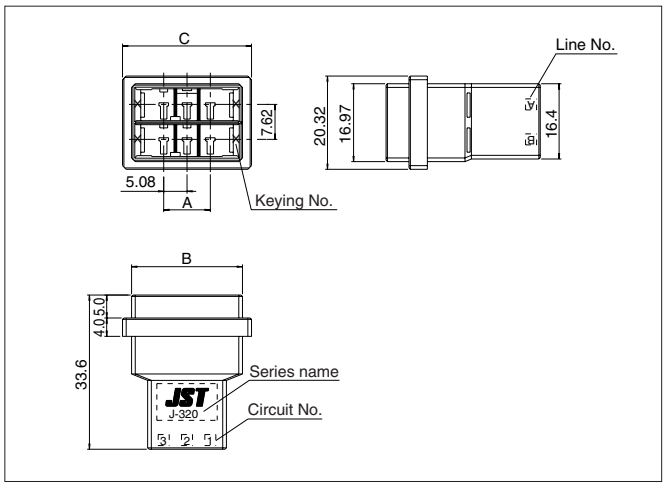


Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	XX	**F32FMS-06V-KXX**	10.16	19.24	29.16	100
	YY	**F32FMS-06V-KYY**	10.16	19.24	29.16	100
	XY	**F32FMS-06V-KXY**	10.16	19.24	29.16	100
10	XX	**F32FMS-10V-KXX**	20.32	29.40	39.32	100
	YY	**F32FMS-10V-KYY**	20.32	29.40	39.32	100
	XY	**F32FMS-10V-KXY**	20.32	29.40	39.32	100
12	XX	**F32FMS-12V-KXX**	25.40	34.48	44.40	100
	YY	**F32FMS-12V-KYY**	25.40	34.48	44.40	100
	XY	**F32FMS-12V-KXY**	25.40	34.48	44.40	100
20	XX	**F32FMS-20V-KXX**	45.72	54.80	64.72	96(box)
	YY	**Under planning**	—	—	—	—
	XY	**Under planning**	—	—	—	—

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Free hanging type)

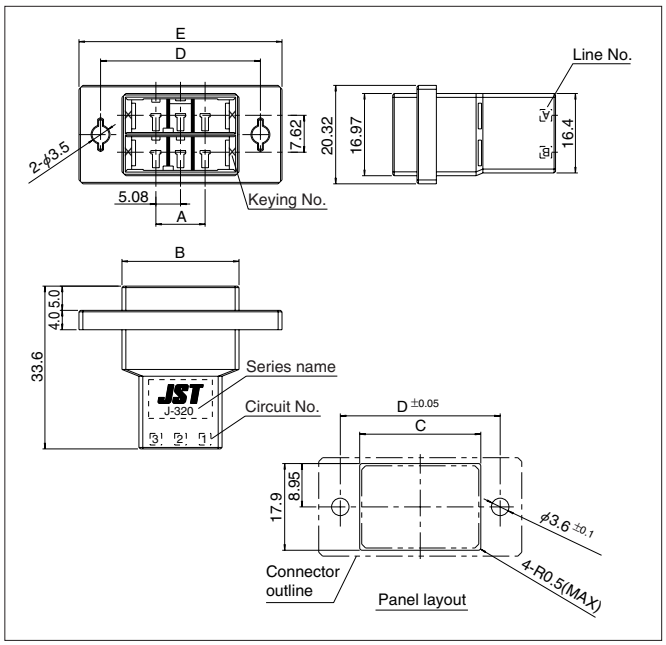


Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
6	XX	**F32MDF-06V-KXX**	10.16	24.16	28.11	100
	YY	**F32MDF-06V-KYY**	10.16	24.16	28.11	100
	XY	**F32MDF-06V-KXY**	10.16	24.16	28.11	100
12	XX	**F32MDF-12V-KXX**	25.40	39.40	43.35	100
	YY	**F32MDF-12V-KYY**	25.40	39.40	43.35	100
	XY	**F32MDF-12V-KXY**	25.40	39.40	43.35	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)

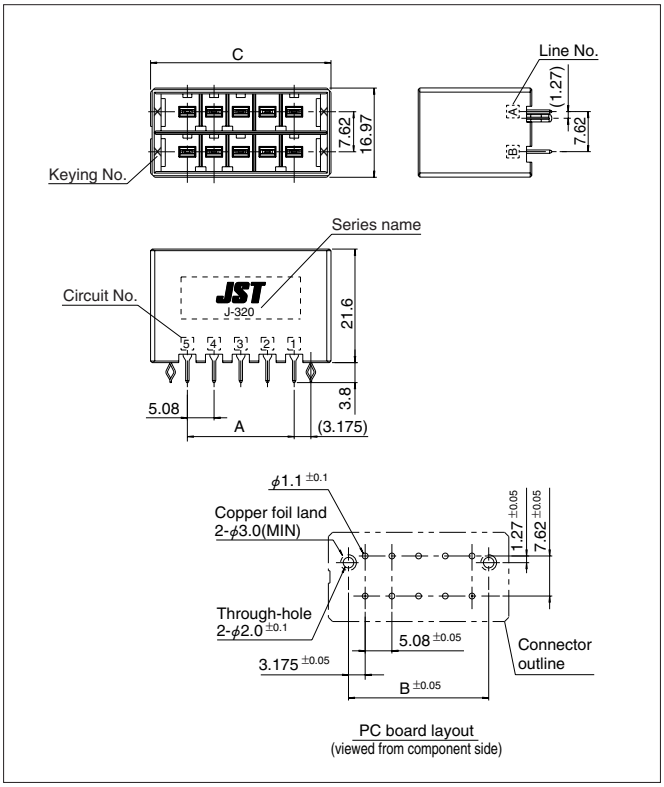


Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / bag
			A	B	C	D	E	
6	XX	**F32MDP-06V-KXX**	10.16	24.16	25.00	33.00	41.91	100
	YY	**F32MDP-06V-KYY**	10.16	24.16	25.00	33.00	41.91	100
	XY	**F32MDP-06V-KXY**	10.16	24.16	25.00	33.00	41.91	100
12	XX	**F32MDP-12V-KXX**	25.40	39.40	41.00	49.00	57.91	100
	YY	**F32MDP-12V-KYY**	25.40	39.40	41.00	49.00	57.91	100
	XY	**F32MDP-12V-KXY**	25.40	39.40	41.00	49.00	57.91	100
20	XX	**F32MDP-20V-KXX**	45.72	59.72	61.00	70.00	78.23	40(box)
	YY	**Under planning**	—	—	—	—	—	—
	XY	**Under planning**	—	—	—	—	—	—

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)



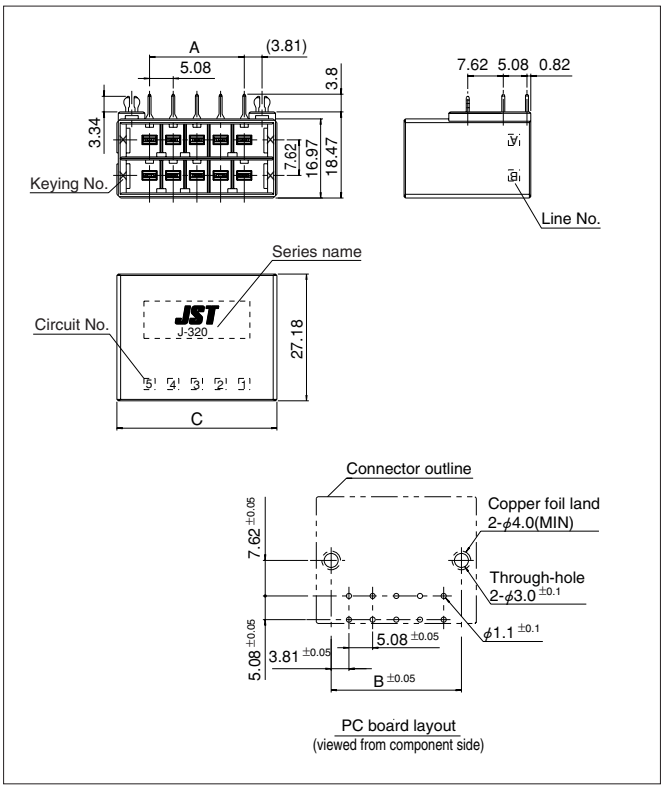
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	XX	**B06B-F32MK-GGXXR**	10.16	16.51	24.16	120
	YY	**B06B-F32MK-GGYYR**	10.16	16.51	24.16	120
	XY	**B06B-F32MK-GGXYR**	10.16	16.51	24.16	120
10	XX	**B10B-F32MK-GGXXR**	20.32	26.67	34.32	84
	YY	**B10B-F32MK-GGYYR**	20.32	26.67	34.32	84
	XY	**B10B-F32MK-GGXYR**	20.32	26.67	34.32	84
12	XX	**B12B-F32MK-GGXXR**	25.40	31.75	39.40	72
	YY	**B12B-F32MK-GGYYR**	25.40	31.75	39.40	72
	XY	**B12B-F32MK-GGXYR**	25.40	31.75	39.40	72

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF)(AU) on a label.*
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
6	XX	**S06B-F32MK-GGXXR**	10.16	17.78	24.16	80
	YY	**S06B-F32MK-GGYYR**	10.16	17.78	24.16	80
	XY	**S06B-F32MK-GGXYR**	10.16	17.78	24.16	80
8	XY	**S08B-F32MK-GGXYR**	15.24	22.86	29.24	64
10	XX	**S10B-F32MK-GGXXR**	20.32	27.94	34.32	56
	YY	**S10B-F32MK-GGYYR**	20.32	27.94	34.32	56
	XY	**S10B-F32MK-GGXYR**	20.32	27.94	34.32	56
12	XX	**S12B-F32MK-GGXXR**	25.40	33.02	39.40	48
	YY	**S12B-F32MK-GGYYR**	25.40	33.02	39.40	48
	XY	**S12B-F32MK-GGXYR**	25.40	33.02	39.40	48

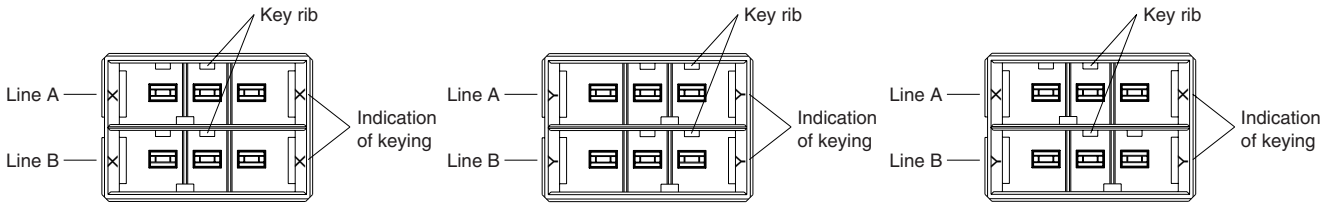
Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF)(AU) on a label.*
Note: 1. Contact JST for the headers supplied in magazine stick.
2. Contact JST for 0.76 μm gold-plated product and tin-plated product.

Keying

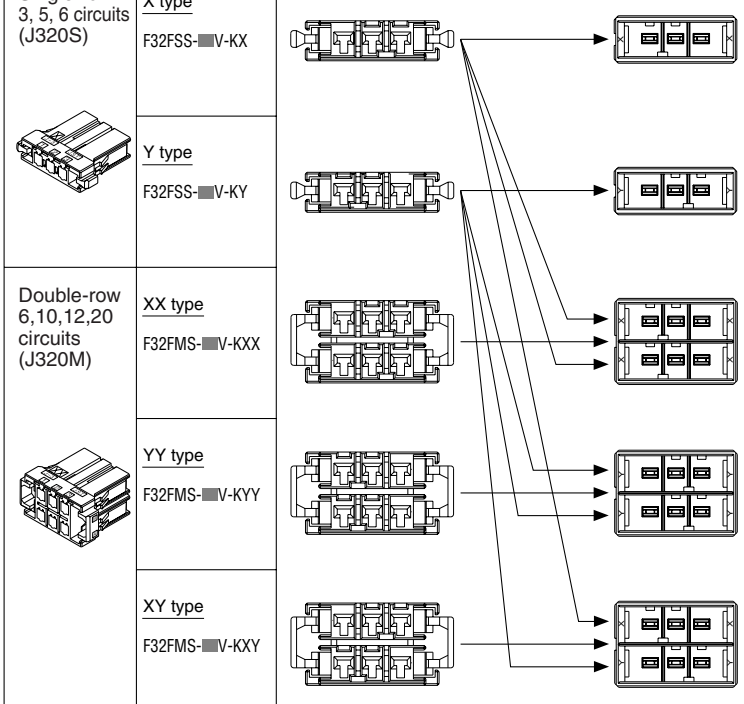
J320M series have mis-insertion preventive keying.
Available in 3 types – XX type, YY type and XY type.
(Headers viewed from the mating side are shown below.)



List of combinations

With the combination of the J320M headers and the J320M/J320S receptacle housings, the following modular combinations are possible.

Receptacle housing		Tab housing		Header	
Single-row 3, 5, 6 circuits (J320S)	X type F32FSS-■■V-KX	Single-row 3 circuits (J320S)	X type Free hanging type F32MSF-■■V-KX Panel mounting type F32MSP-■■V-KX	Single-row 3, 5, 6 circuits (J320S)	X type Top entry type B■■B-F32SK-GGX■ Side entry type S■■B-F32SK-GGX■
	Y type F32FSS-■■V-KY		Y type Free hanging type F32MSF-■■V-KY Panel mounting type F32MSP-■■V-KY		Y type Top entry type B■■B-F32SK-GGY■ Side entry type S■■B-F32SK-GGY■
Double-row 6,10,12,20 circuits (J320M)	XX type F32FMS-■■V-KXX	Double-row 6,12,20 circuits (J320M)	XX type Free hanging type F32MDF-■■V-KXX Panel mounting type F32MDP-■■V-KXX	Double-row 6,10,12 circuits (J320M)	XX type Top entry type B■■B-F32MK-GGXX■ Side entry type S■■B-F32MK-GGXX■
	YY type F32FMS-■■V-KYY		YY type Free hanging type F32MDF-■■V-KYY Panel mounting type F32MDP-■■V-KYY		YY type Top entry type B■■B-F32MK-GGYY■ Side entry type S■■B-F32MK-GGYY■
	XY type F32FMS-■■V-KXY		XY type Free hanging type F32MDF-■■V-KXY Panel mounting type F32MDP-■■V-KXY		XY type Top entry type B■■B-F32MK-GGXY■ Side entry type S■■B-F32MK-GGXY■

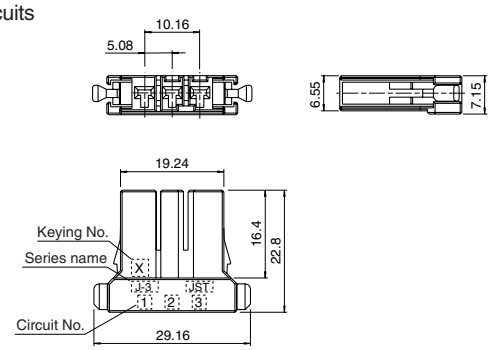


Note: Number of circuits is indicated in ■■.
Packaging method is indicated in ■.

Receptacle housing

Single-row type

• 3 circuits



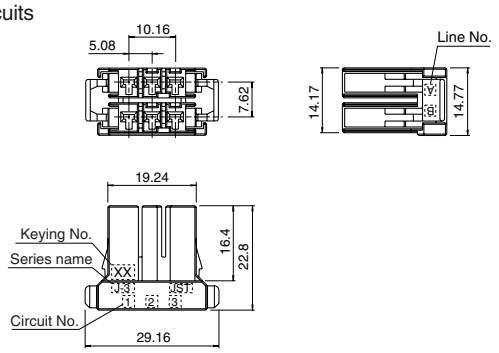
Circuits	Keying	Model No.	Q'ty / bag
3	X	**F32FSS-03V-KX**	200
	Y	**F32FSS-03V-KY**	200

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Double-row type

• 6 circuits

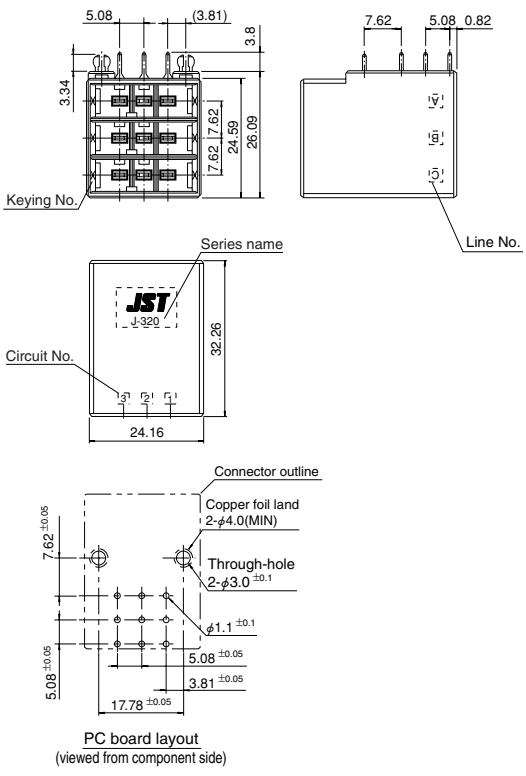


Circuits	Keying	Model No.	Q'ty / bag
6	XX	**F32FMS-06V-KXX**	100
	YY	**F32FMS-06V-KYY**	100
	XY	**F32FMS-06V-KXY**	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Side entry type)



Circuits	Keying	Model No.	Q'ty / box
9	XXX	**S09B-F32TK-GGXAR**	42
	XXY	**S09B-F32TK-GGXBR**	42
	XYX	**S09B-F32TK-GGXCR**	42
	YYX	**S09B-F32TK-GGXDR**	42

Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

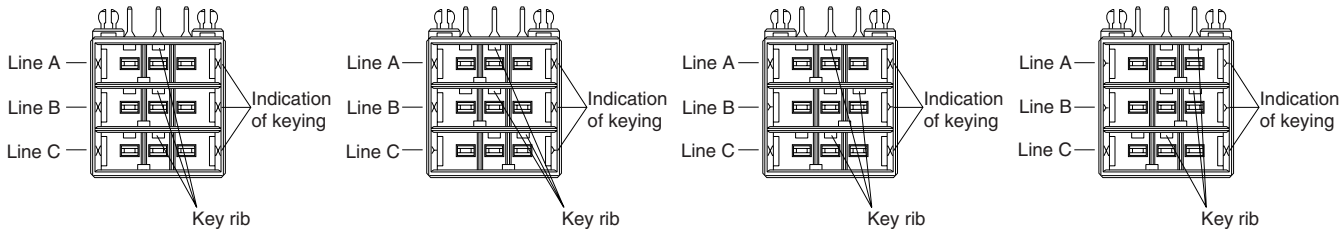
RoHS compliance *This product displays (LF)(AU) on a label.*

Note: 1. Contact JST for tin-plated product.

2. Not CSA/TÜV approved

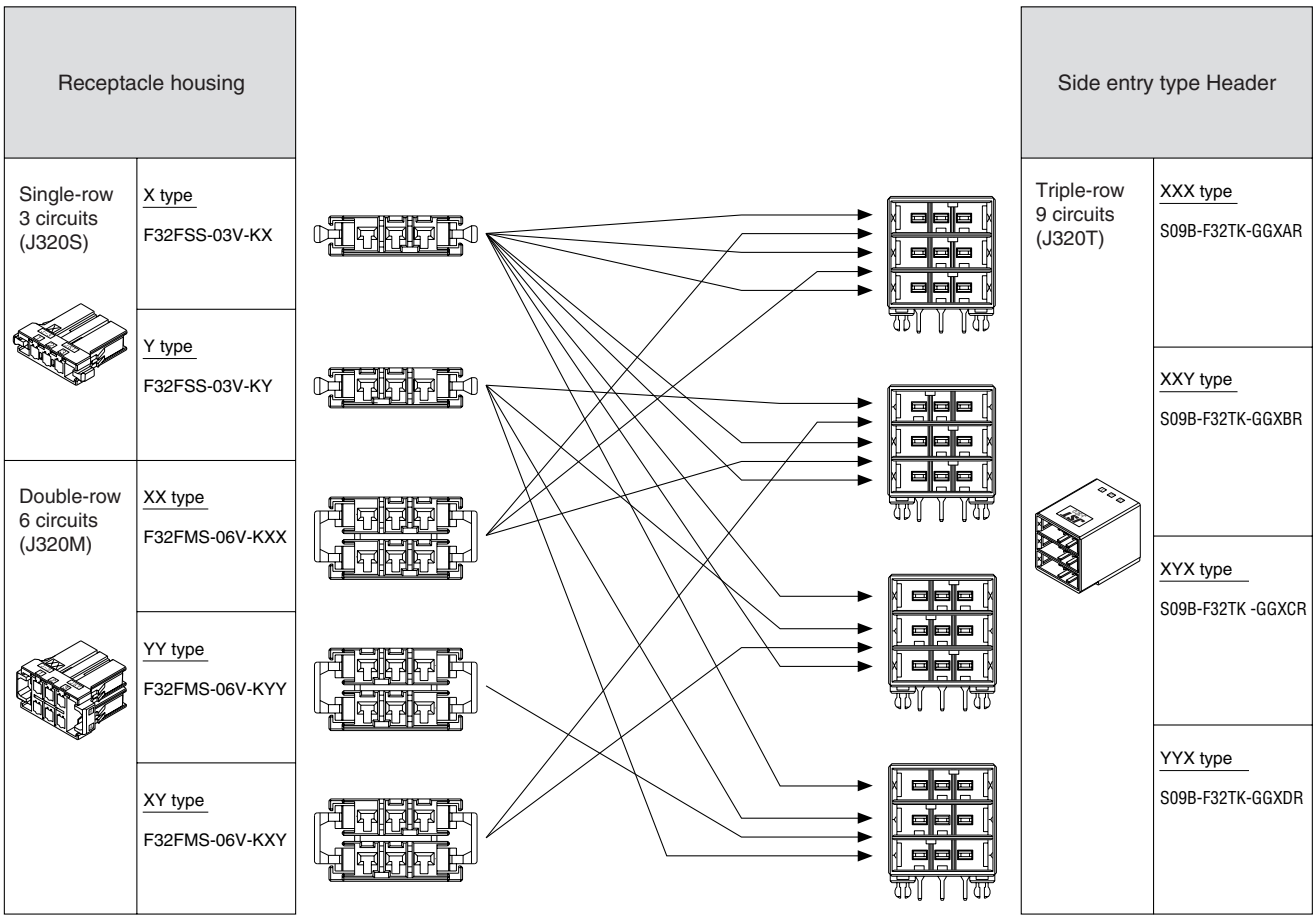
Keying

J320T series have mis-insertion preventive keying.
Available in 4 types – XXX type, XXY type, XYX type and YYX type.
(Headers viewed from the mating side are shown below.)



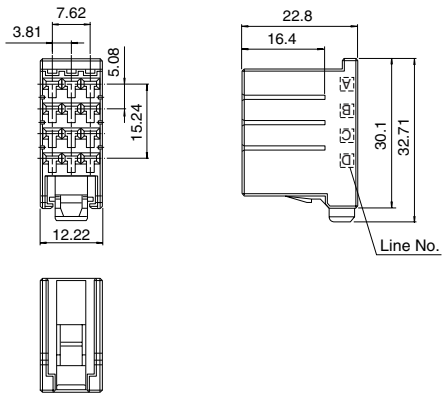
List of combinations

With the combination of the J320T headers and the J320S/J320M receptacle housings, the following modular combinations are possible.

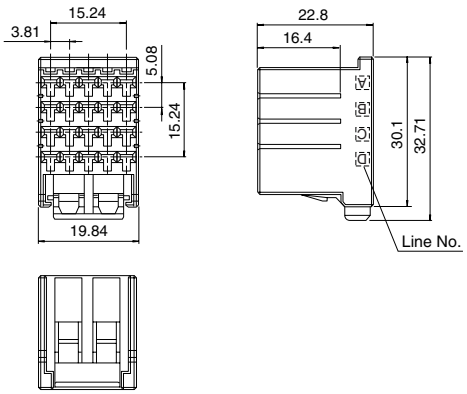


Receptacle housing

• 12 circuits



• 20 circuits

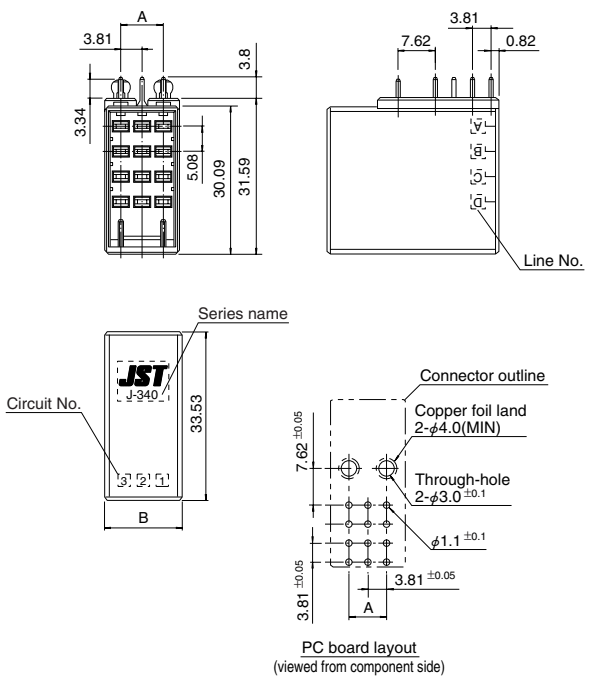


Circuits	Keying	Model No.	Q'ty / bag
12	—	**F34FFC-12V-K**	100
20	—	**F34FFC-20V-K**	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: Not CSA/TÜV approved.d

Header (Side entry type)

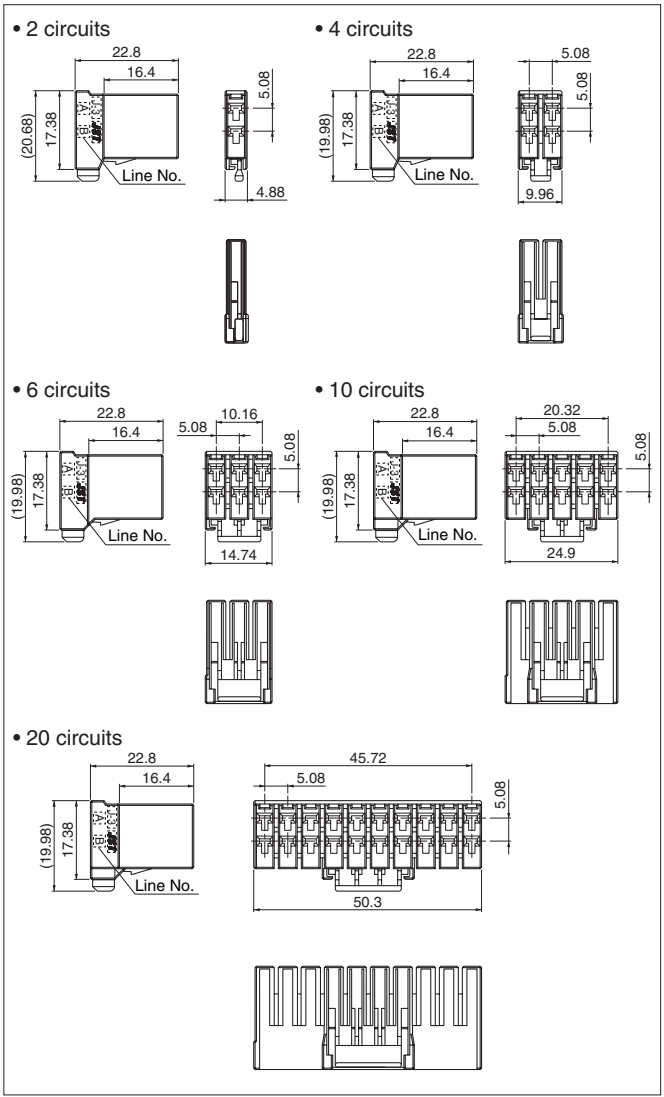


Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	**SC12B-F34FK-GGR**	7.62	15.02	63
20	—	**SC20B-F34FK-GGR**	15.24	22.64	42

Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF)(AU) on a label.*
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved

Receptacle housing

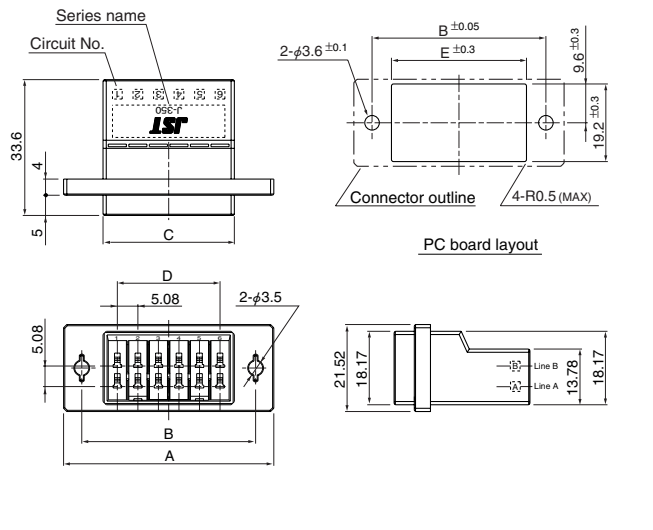


Circuits	Keying	Model No.	Q'ty / bag
2	—	**F35FDC-02V-K**	200
4	—	**F35FDC-04V-K**	200
6	—	**F35FDC-06V-K**	200
10	—	**F35FDC-10V-K**	100
20	—	**F35FDC-20V-K**	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: Not CSA/TÜV approved.

Tab housing (Panel mounting type)

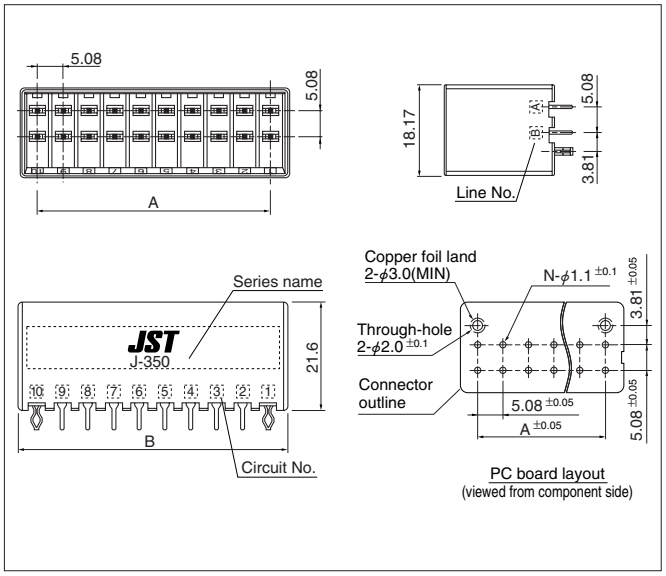


Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / box
			A	B	C	D	E	
12	—	**F35MDP-12V-K**	52.00	43.00	32.48	25.40	33.40	41

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: Not CSA/UL/TÜV approved.

Header (Top entry type)



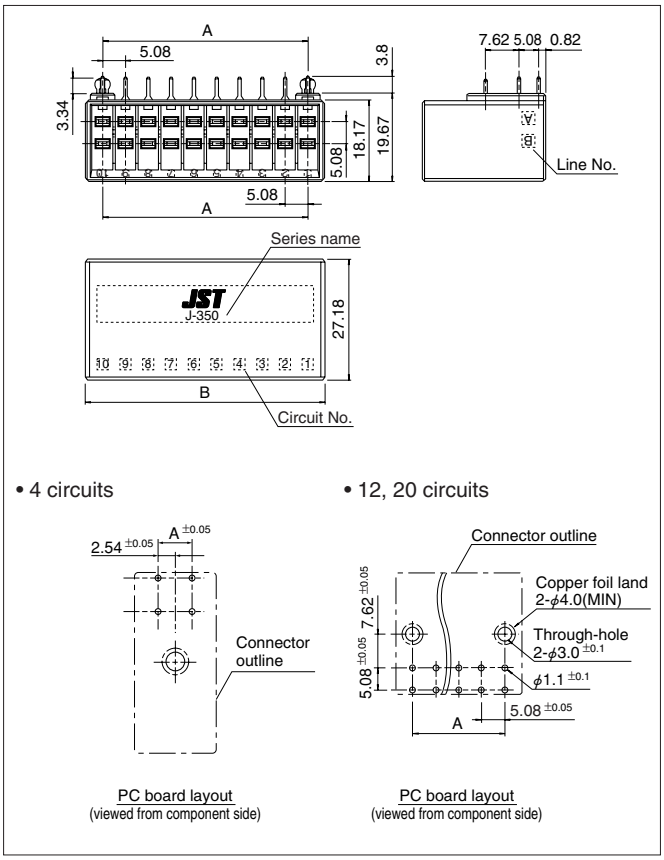
Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
12	—	**BC12B-F35DK-GGR**	25.4	32.48	56
20	—	**BC20B-F35DK-GGR**	45.72	52.8	32

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance *This product displays (LF)(AU) on a label.*
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved

Header (Side entry type)



Circuits	Keying	Model No.	Dimensions (mm)		Q'ty / box
			A	B	
4	—	**SC04B-F35DK-GGR**	5.08	12.16	152
12	—	**SC12B-F35DK-GGR**	25.4	32.48	56
20	—	**SC20B-F35DK-GGR**	45.72	52.8	32

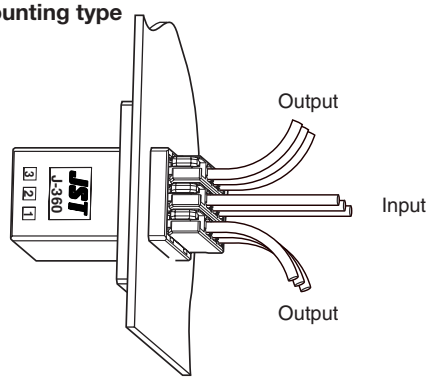
Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

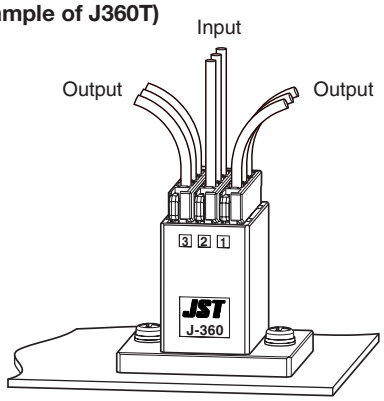
RoHS compliance *This product displays (LF)(AU) on a label.*
Note: 1. Contact JST for tin-plated product.
2. Not CSA/TÜV approved

J300 SERIES/COMMON TYPE CONNECTOR

・**Panel mounting type**



• **Direct mounting type**
(Example of J360T)



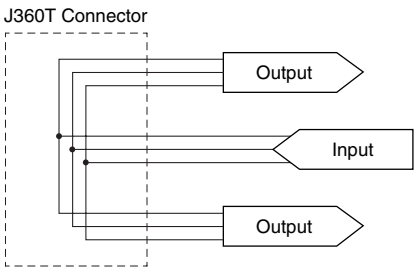
- ***Receptacle terminal of JFA J300 series can be used.***
- ***Between rows are commonly connected.***
- ***Proposing rationalization of wiring.***
- ***Mounting method of connector.***

Specifications

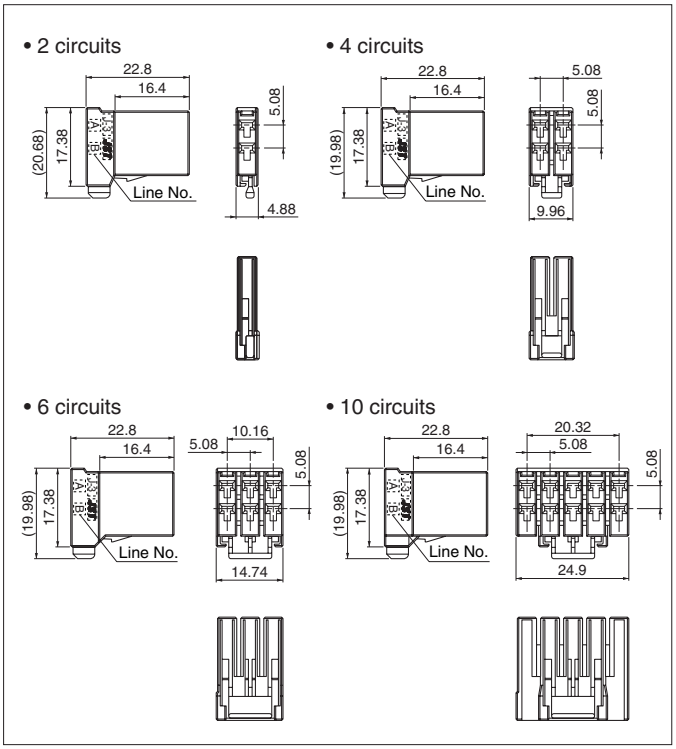
- Current rating: 18A AC, DC (18 circuits/AWG #14)
- Voltage rating: 600V AC, DC
- Temperature range: –55°C to ～105°C
  (including temperature rise in applying electrical current)

*Contact JST for details.
*RoHS compliant products are published.

Circuit figure



Receptacle housing

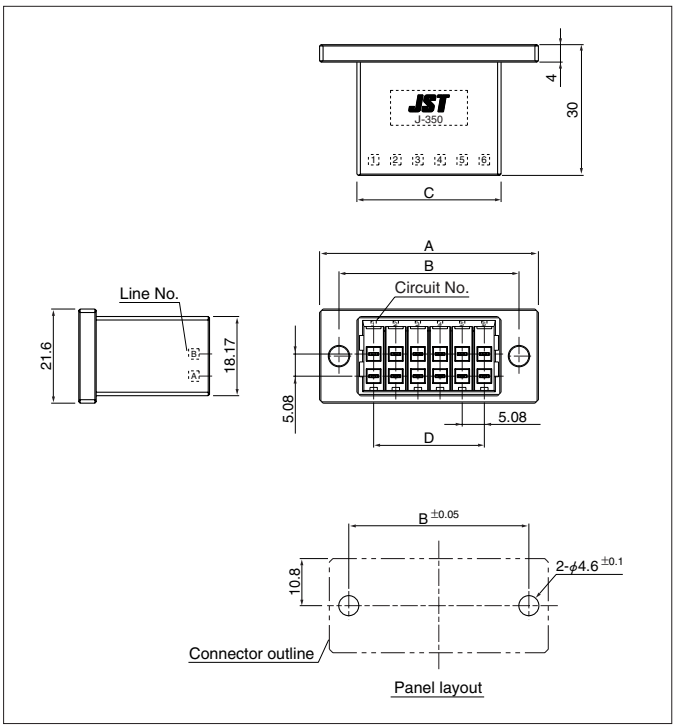


Circuits	Keying	Model No.	Q'ty / bag
2	—	**F35FDC-02V-K**	200
4	—	**F35FDC-04V-K**	200
6	—	**F35FDC-06V-K**	200
10	—	**F35FDC-10V-K**	100

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: Not CSA/TÜV approved.

Tab housing assembly

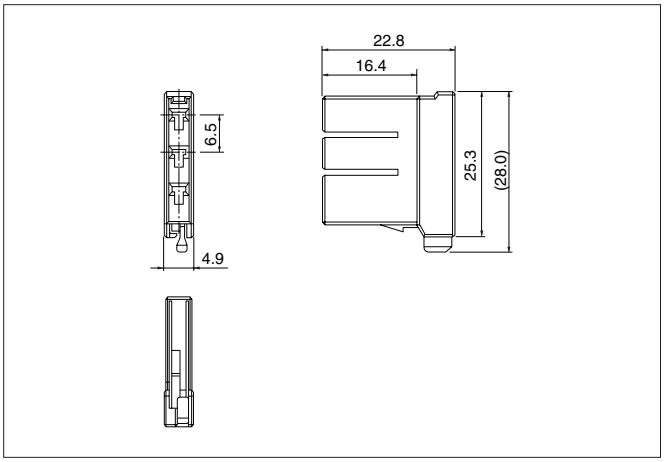


Circuits	Keying	Model No.	Dimensions (mm)				Q'ty / box
			A	B	C	D	
12	—	**P12B-F35DK-GFAR**	57.0	44.6	33.08	25.4	196

Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance *This product displays (LF)(AU) on a label.*
Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.
Steel: 50cN • m max.
Copper, aluminum and plastics: 30cN • m (reference target value)
2. Not CSA/TÜV approved.

Receptacle housing



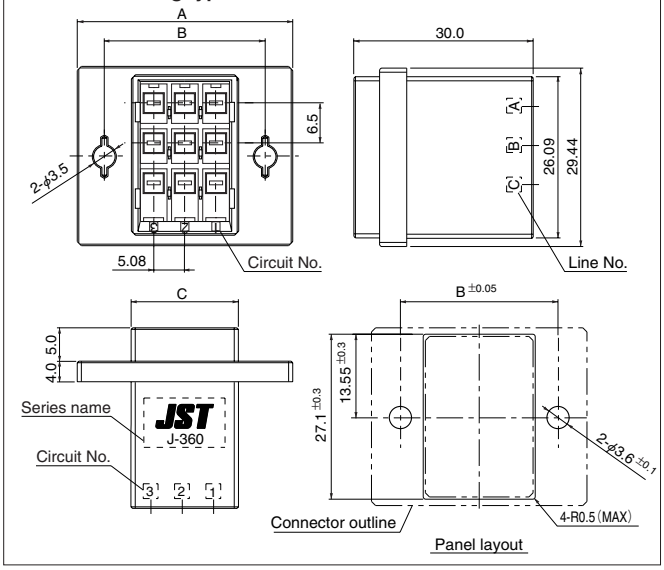
Circuits	Keying	Model No.	Q'ty / bag
3	—	**F36FTC-03V-K**	200

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: Not CSA/TÜV approved.

Tab housing assembly

• Panel mounting type

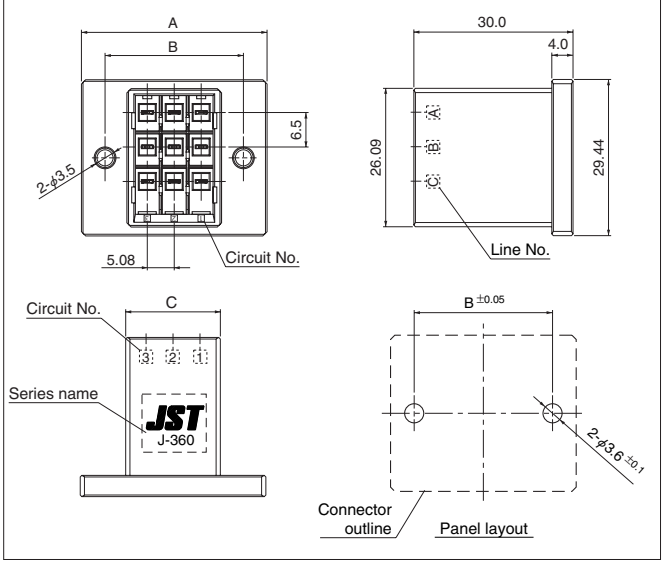


Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
9	—	**P09B-F36TK-GFR**	35.0	26.1	17.8	364
18	—	**P18B-F36TK-GFR**	50.2	41.3	33.1	224

Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.
Steel: 50cN • m max.
Copper, aluminum and plastics: 30cN • m (reference target value)
2. Not CSA/TÜV approved.

• Direct mounting type



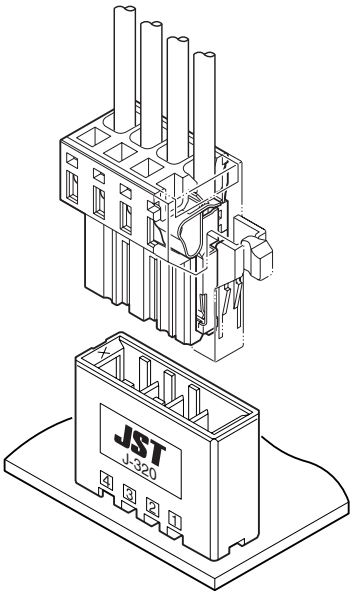
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
9	—	**P09B-F36TK-GFAR**	35.0	26.1	17.8	364
18	—	**P18B-F36TK-GFAR**	50.2	41.3	33.1	224
24	—	**P24B-F36TK-GFANR**	60.4	51.5	43.2	168

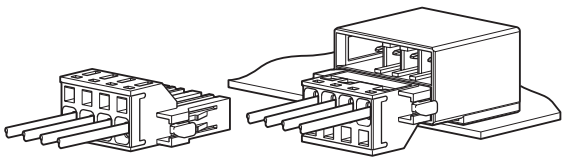
Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance
Note: 1. Tightening torque of M3 screw varies depending on screw and material to be tighten as follows.
Steel: 50cN • m max.
Copper, aluminum and plastics: 30cN • m (reference target value)
2. There is no cover of common tab side for 24 circuits.
*P24B-F36TK-GFA**N**R*
***N** means no cover.*
3. The top and bottom for both the logo mark and the series name of 24 circuits reverse against display of 9 or 18 circuits.
4. Not CSA/TÜV approved.

JFA CONNECTOR J-FAT SPRING TYPE

5.08mm pitch/Disconnectable Spring Terminal connectors(Terminal block type)





Normal type Reverse type

- ***No crimp tool is necessary.***
- ***Mating with the JFA J320S/J320M***

Specifications

- Current rating: Refer to the following matrix table.
- Voltage rating: 300V AC, DC
- Temperature range: –55°C to +105°C
  (including temperature rise in applying electrical current)
- Applicable wire: AWG #18 to #14 (0.82 to 2.0mm²)

*Contact JST for details.
*RoHS compliant products are published.

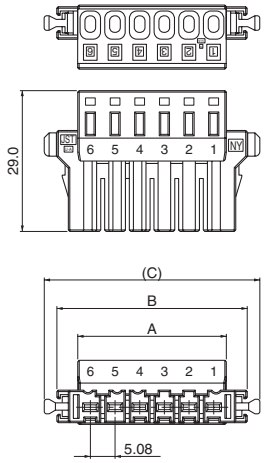
Current rating Unit: A

Circuits	Wire size (AWG)		
	#14	#16	#18
3	12.0	11.25	10.0
4	12.0	11.25	10.0
5	11.25	10.5	9.5
6	10.5	9.75	9.0

Standards

Recognized E239668 (J-FAT-S-i)

Receptacle assembly (Normal type)



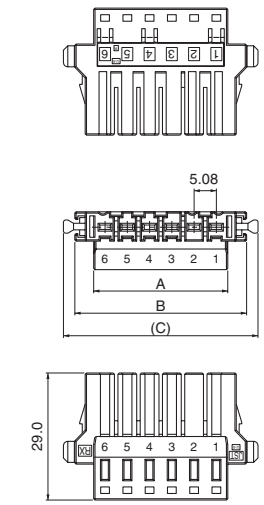
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty /box
			A	B	(C)	
3	X	—	15.36	23.96	29.16	280
	Y	**03JFAT-SAYGF- I**				
4	X	—	20.44	29.04	34.24	245
	Y	**04JFAT-SAYGF- I**				
5	X	—	25.52	34.12	39.32	—
	Y	**05JFAT-SAYGF- I**				
6	X	—	30.60	39.20	44.40	175
	Y	**06JFAT-SAYGF- I**				

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Cover: Glass-filled PBT, UL94V-0, black
Spring: Stainless

RoHS compliance

Receptacle assembly (Reverse type)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty /box
			A	B	(C)	
3	X	—	15.36	23.96	29.16	280
	Y	**03JFAT-SBYGF- I**				
4	X	**04JFAT-SBXGF- I**	20.44	29.04	34.24	245
	Y	—				
5	X	**05JFAT-SBXGF- I**	25.52	34.12	39.32	210
	Y	—				
6	X	**06JFAT-SBXGF- I**	30.60	39.20	44.40	175
	Y	—				

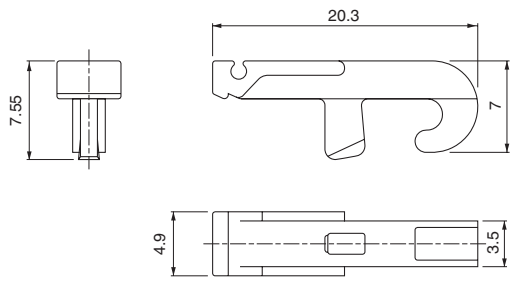
Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Cover: Glass-filled PBT, UL94V-0, white
Spring: Stainless

RoHS compliance

Open tool

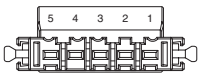
Model No.: J-FAT-OT



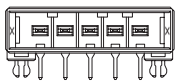
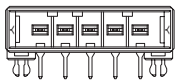
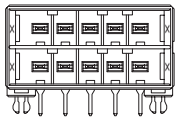
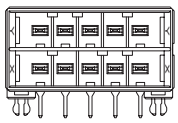
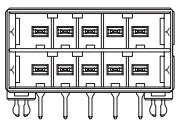
RoHS compliance

List of combinations

J-FAT-S-i is used with the following combinations.

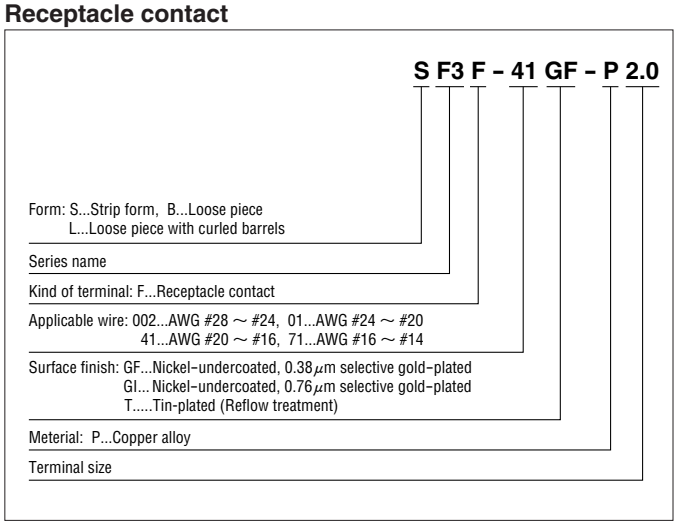
J-FAT-S-i Normal type	
X Keying	Planning
Y Keying	

J-FAT-S-i Reverse type	
X Keying	(3P Planning)
Y Keying	Planning (3P Exist)

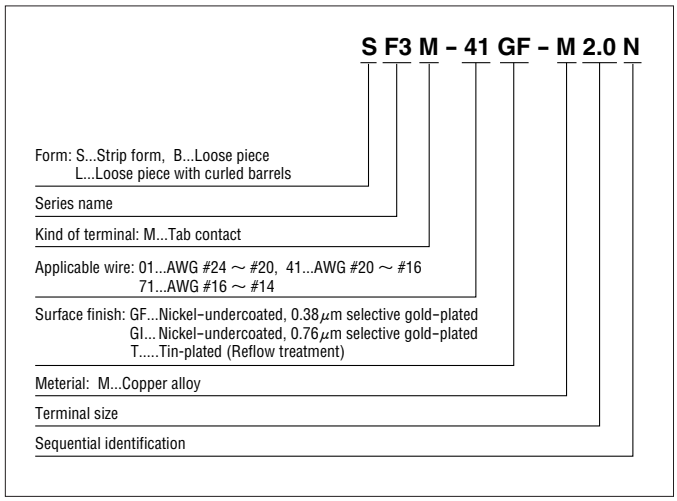
	J320S X Keying
	J320S Y Keying
 (8P Planning)	J320M X-X Keying
	J320M X-Y Keying
 (8P Planning)	J320M Y-Y Keying

Model number identification

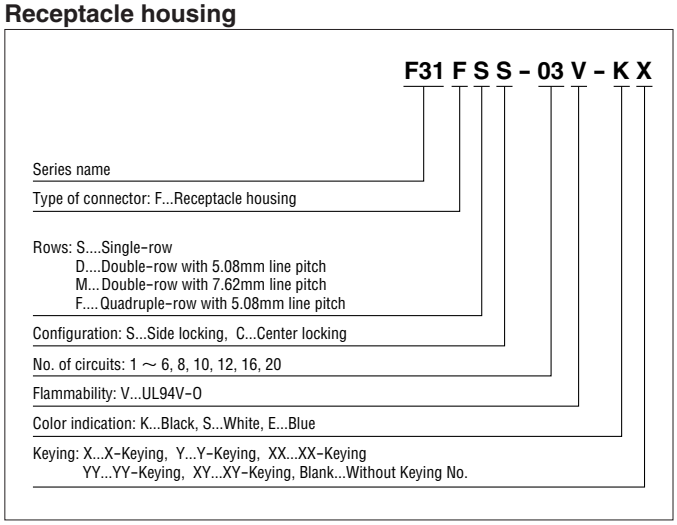
Receptacle contact



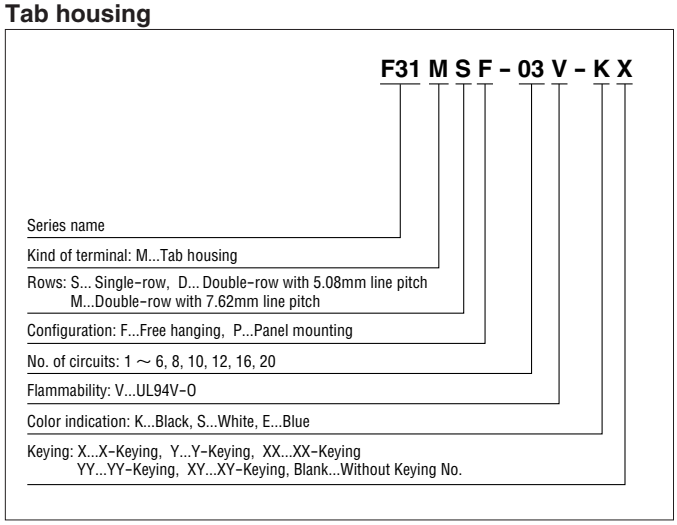
Tab contact



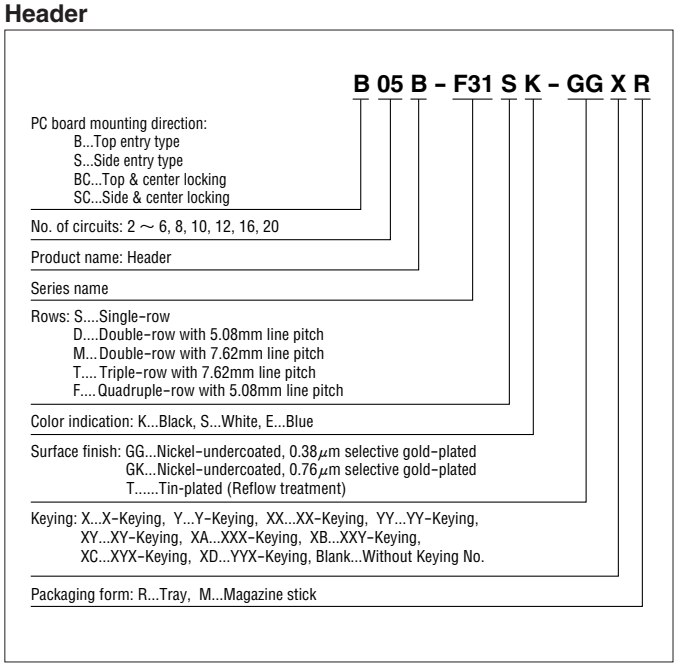
Receptacle housing



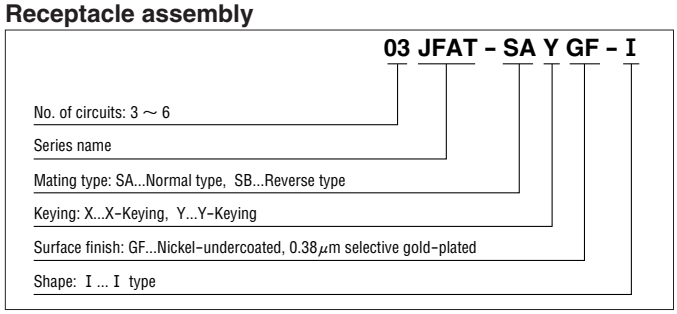
Tab housing



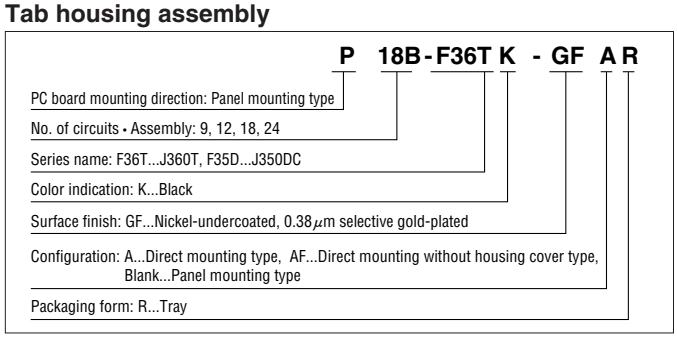
Header



Receptacle assembly

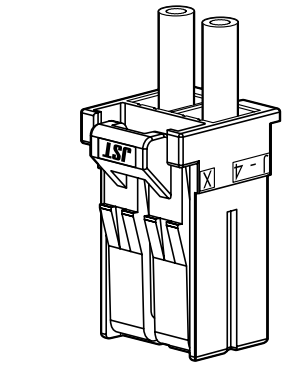


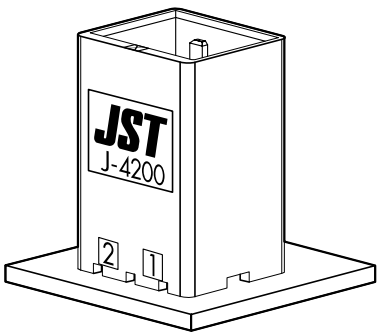
Tab housing assembly



JFA CONNECTOR J4000 SERIES

6.0mm pitch/Disconnectable Crimp style connectors





Compact and high current capacity connector.
This connector realizes high-density mounting on PC board.

- ***High current capacity***
- ***Center locking***
- ***Housing lance***
- ***Countermeasure for insertion of foreign substances***

Specifications

- Current rating: 20A AC, DC (3 circuits/AWG #12)
- Voltage rating: 600V AC, DC
- Temperature range: –55°C to +105°C
  (including temperature rise in applying electrical current)
- Applicable wire: AWG #16 to #12 (1.25 to 3.5mm²)

*Contact JST for details.
*RoHS compliant products are published.

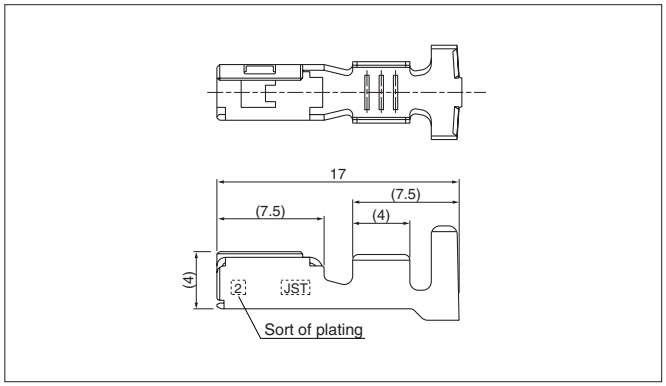
Current rating Unit: A

Circuits	Wire size (AWG)		
	#12	#14	#16
2	—	18.0	14.0
3	20.0	17.0	13.5
6	—	16.0	12.5

Standards

Recognized E60389

Receptacle contact



Strip contact Model No.	Applicable wire			Insulation O.D. (mm)	Q'ty / reel
	Nominal	mm^2	AWG#		
SJ4F-71GF-M3.0	M	1.25 ~ 2.0	16 ~ 14	2.0 ~ 3.8	1,400
SJ4F-81GF-M3.0	L	2.0 ~ 3.5	14 ~ 12	2.9 ~ 4.2	—

Material and Finish
Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

RoHS compliance
Note: Finish(GF): Nickel-undercoated, 0.38 μm selective gold-plated

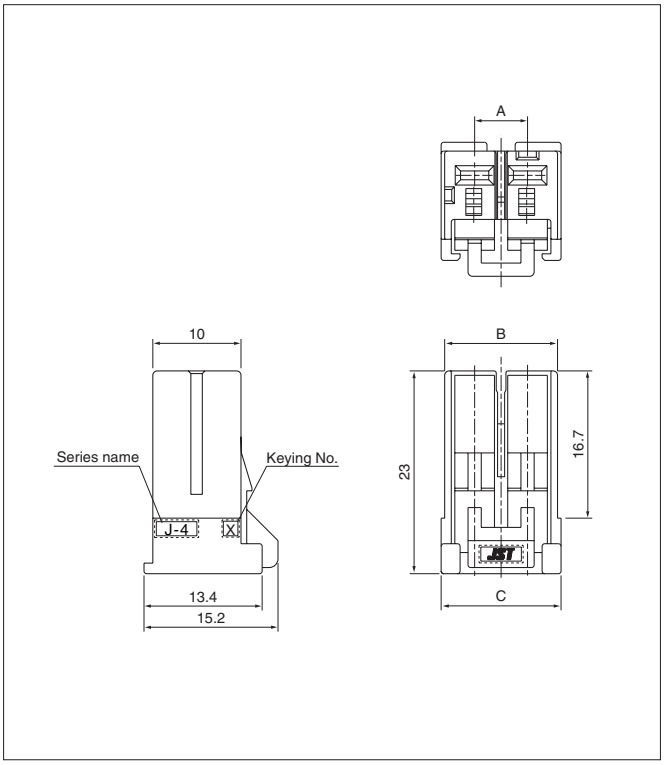
Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SJ4F-71GF-M3.0	AP-K2N	MKS-L-SIN3	MK/SJ4F71-30	APLMK SJ4F71-30
SJ4F-81GF-M3.0			MK/SJ4F81-30	APLMK SJ4F81-30

Loose piece	Hand crimp tools
BJ4F-71GF-M3.0	YRF1130
BJ4F-81GF-M3.0	YRF1370

Extraction tool for J4000 series *: EJ-JFAJ4*
Note: Contact JST for fully automatic crimping applicator.

Receptacle housing

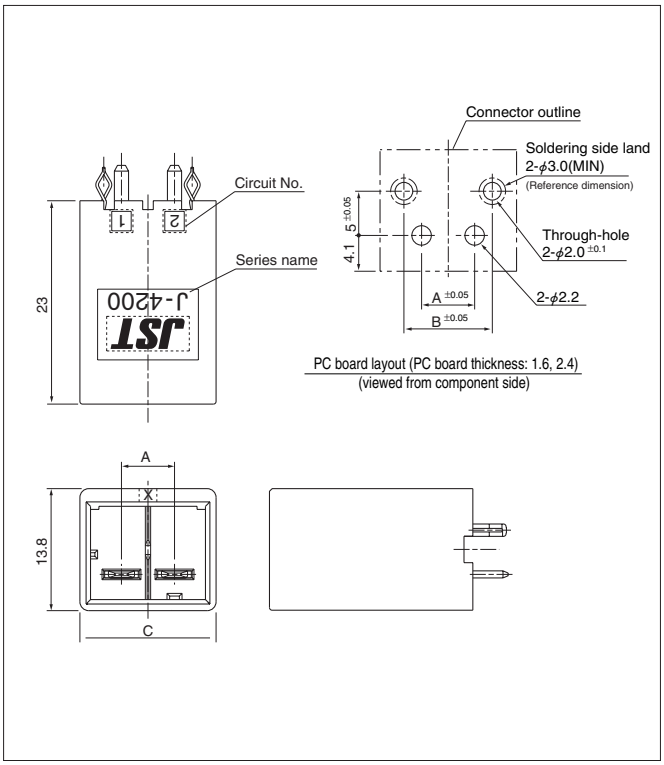


Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / bag
			A	B	C	
2	X	**J42FSC-02V-KX**	6.0	12.8	13.6	200
	Y	**J42FSC-02V-KY**	6.0	12.8	13.6	200
3	X	**J42FSC-03V-KX**	12.0	18.8	19.6	—
	Y	**J42FSC-03V-KY**	12.0	18.8	19.6	—
6	X	**J42FSC-06V-KX**	30.0	36.8	37.6	—
	Y	**J42FSC-06V-KY**	30.0	36.8	37.6	—

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Header (Top entry type)

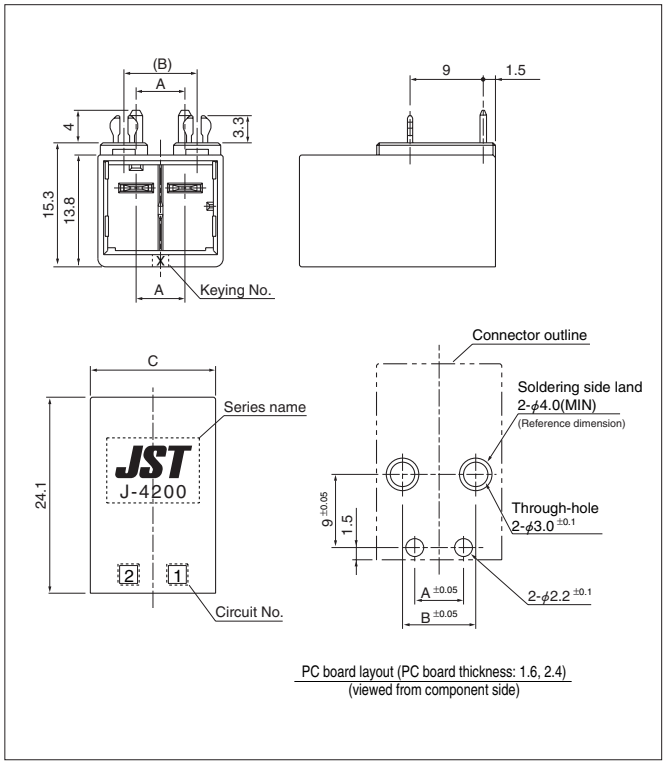


Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	**BC02B-J42SK-GHXR**	6.0	10.0	15.4	168
	Y	**BC02B-J42SK-GHYR**	6.0	10.0	15.4	168
3	X	**BC03B-J42SK-GHXR**	12.0	16.0	21.4	—
	Y	**BC03B-J42SK-GHYR**	12.0	16.0	21.4	—
6	X	**BC06B-J42SK-GHXR**	30.0	34.0	39.4	—
	Y	**BC06B-J42SK-GHYR**	30.0	34.0	39.4	—

Material and Finish
Tab contact: Copper alloy, nickel-undercoated, selective gold-plated Housing: Glass-filled PBT, UL94V-0, black Reinforcing metal fixture: Copper alloy, nickel-undercoated, selective gold-plated

RoHS compliance

Header (Side entry type)



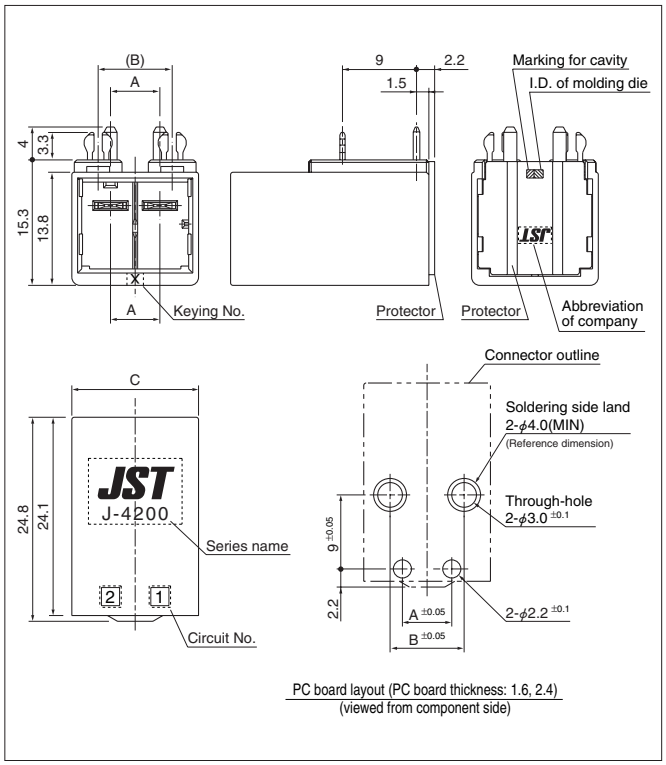
Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	**SC02B-J42SK-GHXR**	6.0	9.0	15.4	—
	Y	**SC02B-J42SK-GHYR**	6.0	9.0	15.4	—

Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, gold-plated

RoHS compliance

Header (Side entry type with protector)



Circuits	Keying	Model No.	Dimensions (mm)			Q'ty / box
			A	B	C	
2	X	**SC02B-J42SK-GHXPR**	6.0	9.0	15.4	120

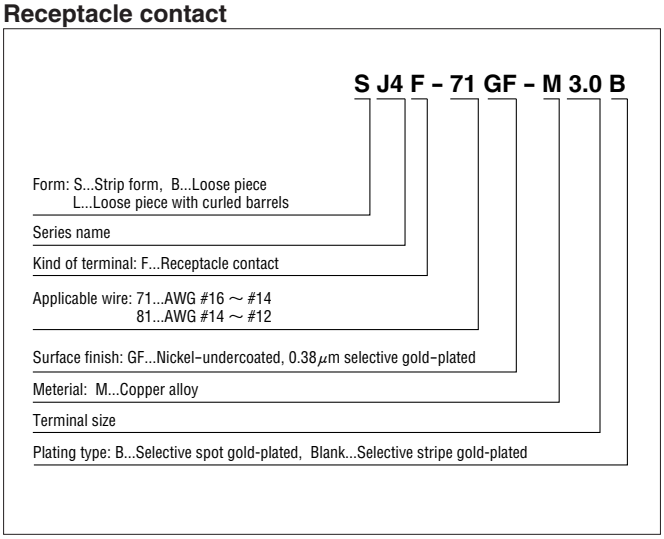
Material and Finish

Tab contact: Copper alloy, nickel-undercoated, selective gold-plated
Housing: Glass-filled PBT, UL94V-0, black
Reinforcing metal fixture: Copper alloy, nickel-undercoated, gold-plated
Protector: Glass-filled PBT, UL94V-0, black

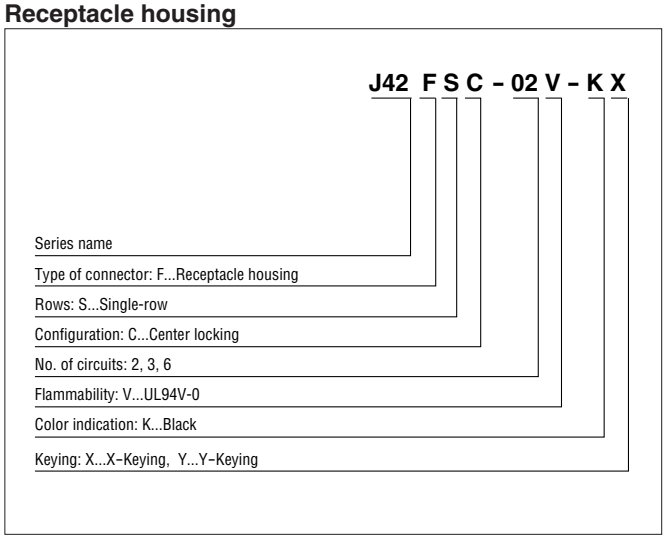
RoHS compliance
(Patent pending)
When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the back of the connector.

Model number identification

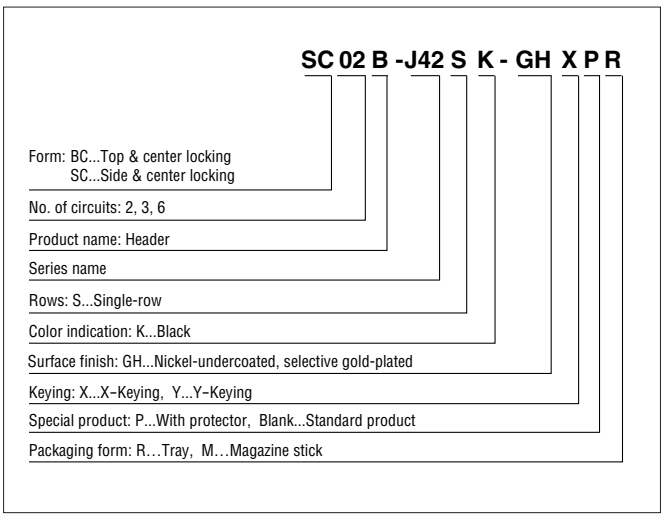
Receptacle contact



Receptacle housing

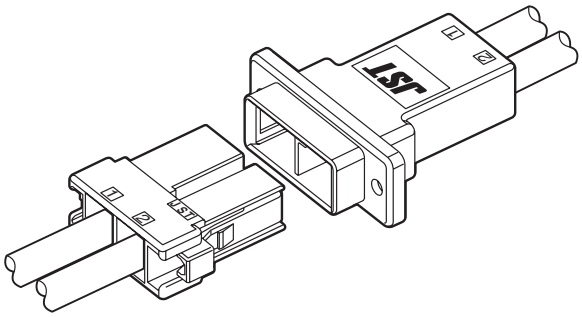


Header



JFA CONNECTOR J5000 SERIES

11.0mm pitch/Disconnectable Crimp style Wire-to-wire connectors



One touch mating and unmating connector corresponding to high current. Modular type is also available.

- ***High current capacity***
- ***Easy mating connector***

Specifications

- Current rating: Refer to the following matrix table.
- Voltage rating: 600V AC, DC
- Temperature range: –55°C to +105°C
  (including temperature rise in applying electrical current)
- Withstanding voltage: 3.0kV AC/minute
- Applicable wire: AWG #16 to #8 (1.25 to 8.0mm^2)

*Contact JST for details.
*RoHS compliant products are published.

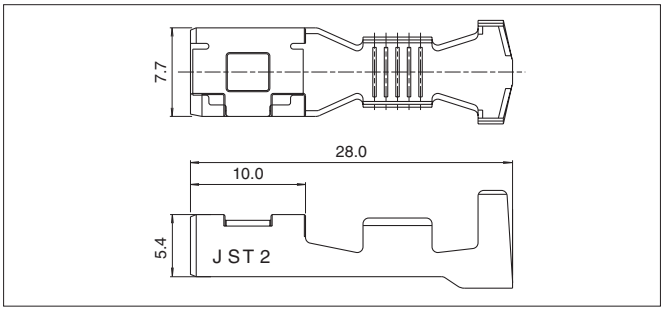
Current rating Unit: A

Circuits	Wire size (AWG)				
	#8	#10	#12	#14	#16
1	50	37	30	24	20
2	45	34	28	22	18
3	43	34	27	21	17
4	42	32	26	20	16
6	40	32	26	20	16

Standards

Recognized E60389

Receptacle contact

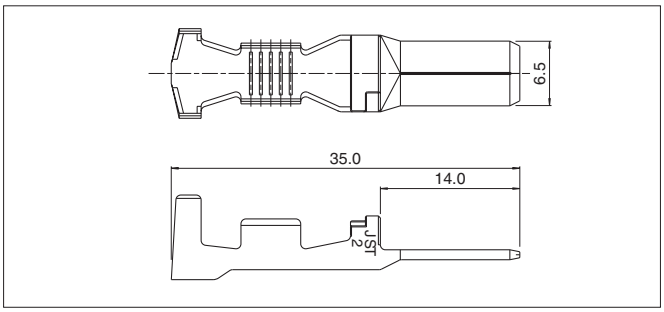


Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm²	AWG#		reel	Box(Loose piece)
SJ5F-71GF-M6.5	BJ5F-71GF-M6.5	S	1.25 ~ 2.0	16 ~ 14	3.1 ~ 4.0	800	200
SJ5F-81GF-M6.5	LJ5F-81GF-M6.5	M	3.5 ~ 5.5	12 ~ 10	4.0 ~ 5.3	600	150
SJ5F-91GF-M6.5	LJ5F-91GF-M6.5	L	8.0	8	7.2 ~ 8.2	450	100

Material and Finish
Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

RoHS compliance

Tab contact



Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm²	AWG#		reel	Box(Loose piece)
SJ5M-71GF-M6.5	BJ5M-71GF-M6.5	S	1.25 ~ 2.0	16 ~ 14	3.1 ~ 4.0	800	200
SJ5M-81GF-M6.5	LJ5M-81GF-M6.5	M	3.5 ~ 5.5	12 ~ 10	4.0 ~ 5.3	600	150
SJ5M-91GF-M6.5	LJ5M-91GF-M6.5	L	8.0	8	7.2 ~ 8.2	450	100

Material and Finish
Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

RoHS compliance

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Crimp applicator	Dies	Crimp applicator with dies
SJ5F-71GF-M6.5	AP-K2N	MKS-L-J5	MK/SJ5F/M-71-65	APLMK SJ5F/M71-65
SJ5M-71GF-M6.5				
SJ5F-81GF-M6.5			MK/SJ5F/M-81-65	APLMK SJ5F/M81-65
SJ5M-81GF-M6.5				
SJ5F-91GF-M6.5	*	*	*	*
SJ5M-91GF-M6.5				

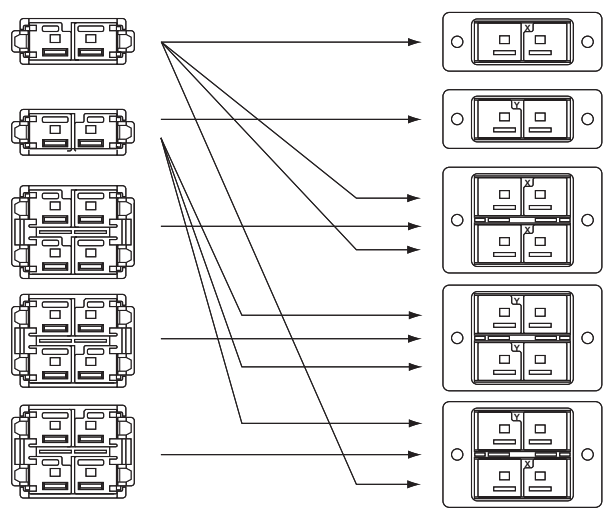
Loose piece	Hand crimp tools
BJ5F-71GF-M6.5	YRF-888
BJ5M-71GF-M6.5	
LJ5F-81GF-M6.5	YRF-889
LJ5M-81GF-M6.5	
LJ5F-91GF-M6.5	Battery operated type * BCT-860JFA
LJ5M-91GF-M6.5	

• Extraction tool for J5000 series: EJ-JFAJ5
**Contact JST for details.*

List of combinations

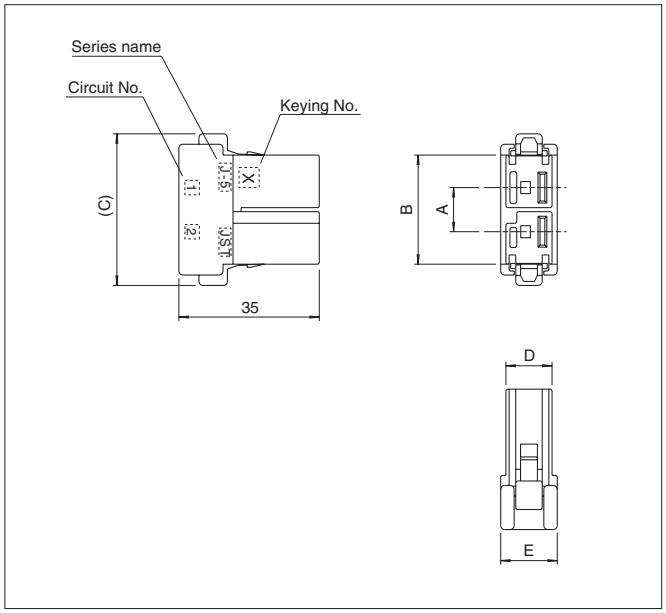
The combination of the J5200 series.

Receptacle housing		Tab housing	
Single-row 2, 3 circuits (J5200S)	X type J5FS-■■V-KX	Single-row 2, 3 circuits (J5200S)	X type J5MSP-■■V-KX
	Y type J5FS-■■V-KY	Panel mounting type	Y type J5MSP-■■V-KY
Double-row 4, 6 circuits (J5200M)	XX type J5FM-■■V-KXX	Double-row 4, 6 circuits (J5200M)	XX type J5MMP-■■V-KXX
	YY type J5FM-■■V-KYY	Panel mounting type	YY type J5MMP-■■V-KYY
	XY type J5FM-■■V-KXY		XY type J5MMP-■■V-KXY



Note: Number of circuits is indicated in ■■.

Receptacle housing

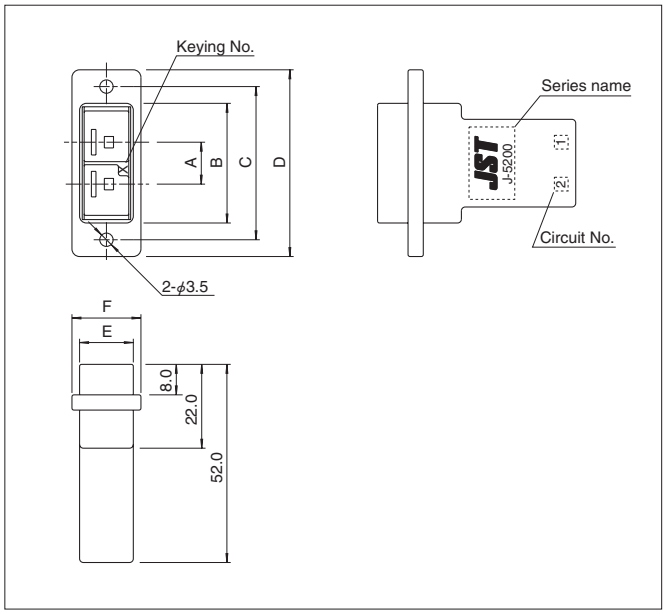


Circuits	Keying	Model No.	Dimensions (mm)					Q'ty / box
			A	B	C	D	E	
2	X	**J5FS-02V-KX**	11.0	27.2	37.8	11.5	14.1	50(bag)
	Y	**J5FS-02V-KY**	11.0	27.2	37.8	11.5	14.1	50(bag)
3	X	**J5FS-03V-KX**	22.0	38.2	48.8	11.5	14.1	50(bag)
	Y	**J5FS-03V-KY**	22.0	38.2	48.8	11.5	14.1	50(bag)
4	XX	**J5FM-04V-KXX**	11.0	27.2	37.8	26.0	28.6	180
	YY	**J5FM-04V-KYY**	11.0	27.2	37.8	26.0	28.6	180
	XY	**J5FM-04V-KXY**	11.0	27.2	37.8	26.0	28.6	180
6	XX	**J5FM-06V-KXX**	22.0	38.2	48.8	26.0	28.6	126
	YY	**J5FM-06V-KYY**	22.0	38.2	48.8	26.0	28.6	126
	XY	**J5FM-06V-KXY**	22.0	38.2	48.8	26.0	28.6	126
10	XX	**J5FM-10V-KXX**	44.0	60.2	70.8	26.0	28.6	—
	YY	**J5FM-10V-KYY**	44.0	60.2	70.8	26.0	28.6	—
	XY	**J5FM-10V-KXY**	44.0	60.2	70.8	26.0	28.6	—

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

Tab housing (Panel mounting type)



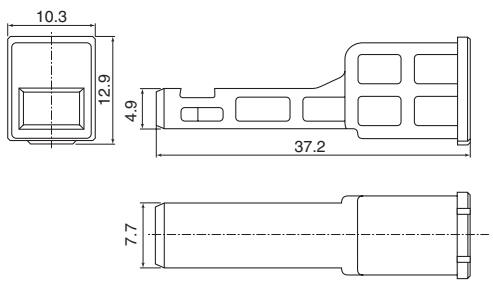
Circuits	Keying	Model No.	Dimensions (mm)						Q'ty / box
			A	B	C	D	E	F	
2	X	**J5MSP-02V-KX**	11.0	31.4	40.2	49.0	14.1	18.1	40(bag)
	Y	**J5MSP-02V-KY**	11.0	31.4	40.2	49.0	14.1	18.1	40(bag)
3	X	**J5MSP-03V-KX**	22.0	42.4	51.2	60.0	14.1	18.1	40(bag)
	Y	**J5MSP-03V-KY**	22.0	42.4	51.2	60.0	14.1	18.1	40(bag)
4	XX	**J5MMP-04V-KXX**	11.0	31.4	40.2	49.0	28.6	32.6	72
	YY	**J5MMP-04V-KYY**	11.0	31.4	40.2	49.0	28.6	32.6	72
	XY	**J5MMP-04V-KXY**	11.0	31.4	40.2	49.0	28.6	32.6	72
6	XX	**J5MMP-06V-KXX**	22.0	42.4	51.2	60.0	28.6	32.6	63
	YY	**J5MMP-06V-KYY**	22.0	42.4	51.2	60.0	28.6	32.6	63
	XY	**J5MMP-06V-KXY**	22.0	42.4	51.2	60.0	28.6	32.6	63
10	XX	**J5MMP-10V-KXX**	44.0	64.4	73.2	82.0	28.6	32.6	—
	YY	**J5MMP-10V-KYY**	44.0	64.4	73.2	82.0	28.6	32.6	—
	XY	**J5MMP-10V-KXY**	44.0	64.4	73.2	82.0	28.6	32.6	—

Material
Glass-filled PBT, UL94V-0, black

RoHS compliance

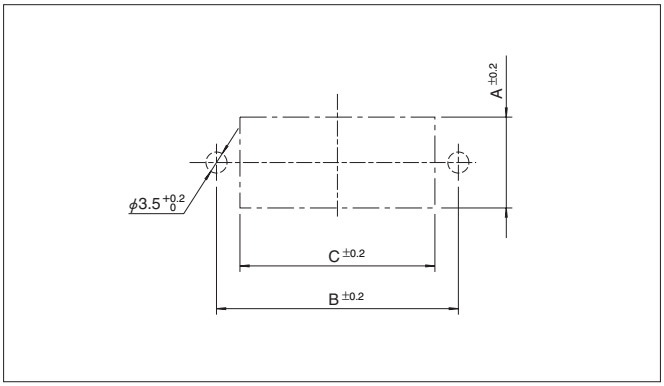
Keying plug

Model No.: J5KP-VY



RoHS compliance

Panel layout



Circuits	Dimensions (mm)		
	A	B	C
2	15.1	40.2	32.4
3	15.1	51.2	43.4
4	29.6	40.2	32.4
6	29.6	51.2	43.4
10	29.6	65.4	73.2

Model number identification

Receptacle contact

S J5 F – 71 GF – M 6.5

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels
Series name
Kind of terminal: F...Receptacle contact
Applicable wire: 71...AWG #16 ~ #14, 81...AWG #12 ~ #10, 91...AWG #8
Surface finish: GF...Nickel-undercoated, selective gold-plated
Meterial: M...Copper alloy
Terminal size

Tab contact

S J5 M – 71 GF – M 6.5

Form: S...Strip form, B...Loose piece
L...Loose piece with curled barrels
Series name
Kind of terminal: M...Tab contact
Applicable wire: 71...AWG #16 ~ #14, 81...AWG #12 ~ #10, 91...AWG #8
Surface finish: GF...Nickel-undercoated, selective gold-plated
Meterial: M...Copper alloy
Terminal size

Receptacle housing

J5 F S – 02 V – K X

Series name
Type of connector: F...Receptacle housing
Rows: S....Single-row, M...Double-row modular type
No. of circuits: 2, 3, 4, 6
Flammability: UL94V-O
Color indication: K...Black
Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying
YY...YY-Keying, XY...XY-Keying

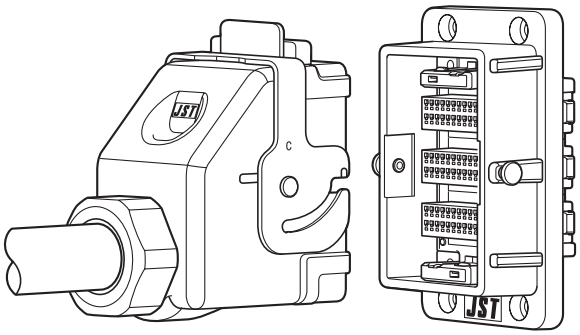
Tab housing

J5 M S P – 02 V – K X

Series name
Kind of terminal: M...Tab housing
Rows: S....Single-row, M...Double-row modular type
Configuration: P...Panel type
No. of circuits: 2, 3, 4, 6
Flammability: UL94V-O
Color indication: K...Black
Keying: X...X-Keying, Y...Y-Keying, XX...XX-Keying
YY...YY-Keying, XY...XY-Keying

JFA CONNECTOR METAL SHELL SERIES

Disconnectable Crimp style (Wire-to-wire connectors)



Metal shell type I/O connector which contacts are used also with JFA connector J2000 series and J300 series.
2, 3 or 4 modules for contacts are available.

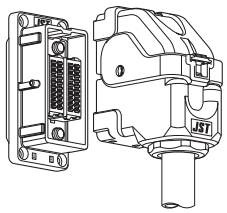
- ***Applicable contact and tooling can be unified***
- ***Rigid metal shell***
- ***Waterproof performance***
- ***Misinsertion prevention***
- ***Sequential circuit***

*Contact JST for details.
*RoHS compliant products are published.

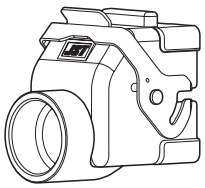
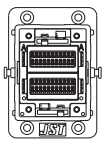
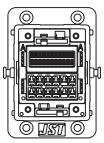
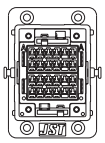
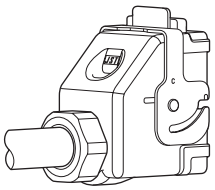
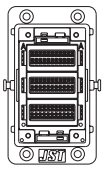
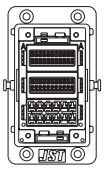
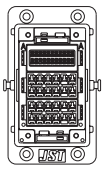
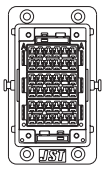
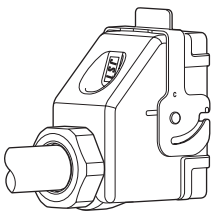
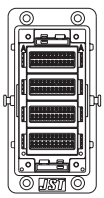
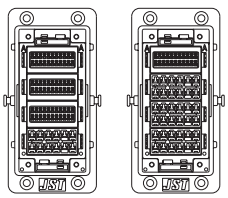
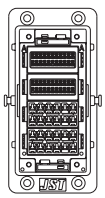
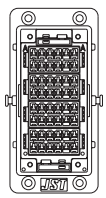
JFA CONNECTOR/METAL SHELL SERIES

List of metal shell

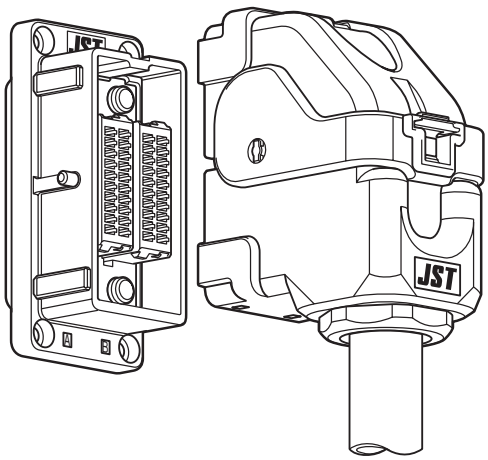
J2900

Connector series	J2000 series
	40 circuits
J2900	
Circuits	20 × 2 pcs.

JFA-M

Type	Shell	Hybrid type			
2 Module		J2000(22P) × 2 	J2000(22P) × 1+ J300(12P) × 1 	J300(12P) × 2 	
Circuits		44	34	24	
3 Module		J2000(22P) × 3 	J2000(22P) × 2 + J300(12P) × 1 	J2000(22P) × 1+ J300(12P) × 2 	J300(12P) × 3 
Circuits		66	56	46	36
4 Module		J2000(22P) × 4 	J2000(22P) × 3 + J300(12P) × 1 J2000(22P) × 1 + J300(12P) × 1 	J2000(22P) × 2 + J300(12P) × 2 	J300(12P) × 4 
Circuits		88	78, 58	68	48

JFA CONNECTOR J2900 SERIES



This connector is a metal shell type I/O connector and it's completely waterproof. Contacts are designed to be common use with JFA connector J2000 series. The long type tab contact realizes sequential circuit construction.

- ***Rigid metal shell***
- ***Easy mating operation***
- ***Long type tab contact***

Specifications

- Current rating: 3A max. AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: –55°C to +105°C
  (including temperature rise in applying electrical current)
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #20 (0.08 to 0.75mm^2)
- Cable O.D.: 11.1 to 13.5mm

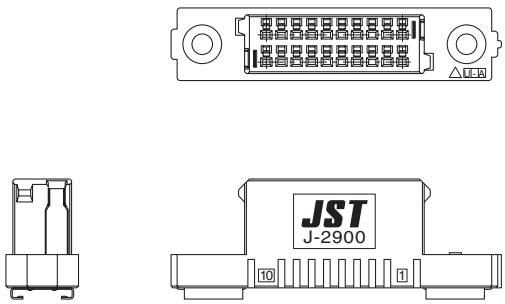
*Contact JST for details.

Standards

Recognized E60389

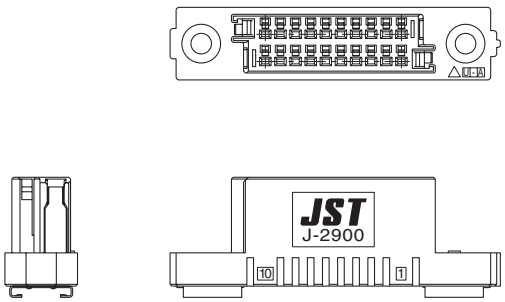
Receptacle housing assembly

• Normal type



Circuits	Model No.	Q'ty/bag
20	**J29FA-20-K**	70

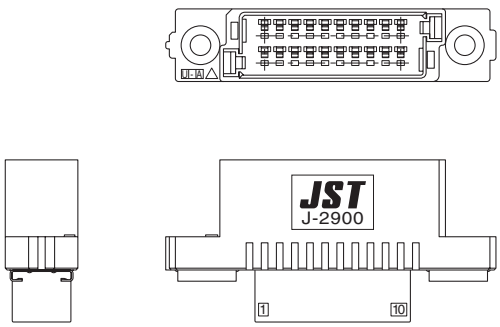
• Anti-misinsertion type



Circuits	Model No.	Q'ty/bag
20	**J29FA-20-H-1**	70

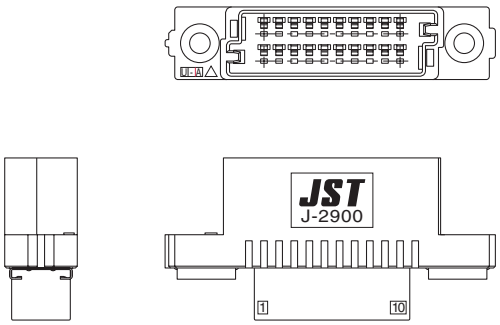
Tab housing assembly

• Normal type



Circuits	Model No.	Q'ty/bag
20	**J29FA-20-K**	70

• Anti-misinsertion type

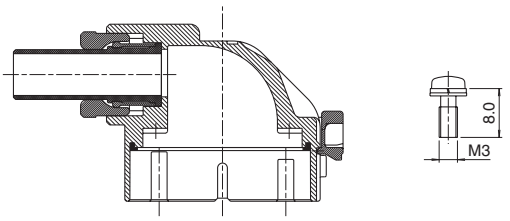


Circuits	Model No.	Q'ty/bag
20	**J29MA-20-H-1**	70

Wire side

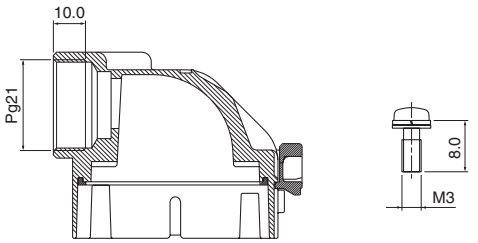
Shell kit

• **Normal type**



Model No.	Q'ty/bag
J29WK-K-1	30

• **For Pg21**

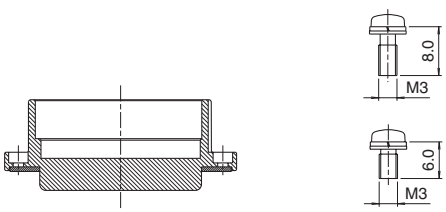


Pg21 screw mounting product (for flexible tubing, etc.)

Model No.	Q'ty/bag
J29WK-K-A	35

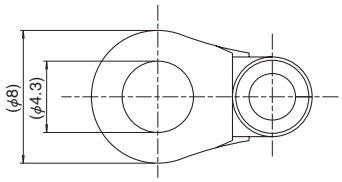
Panel side

Shell kit



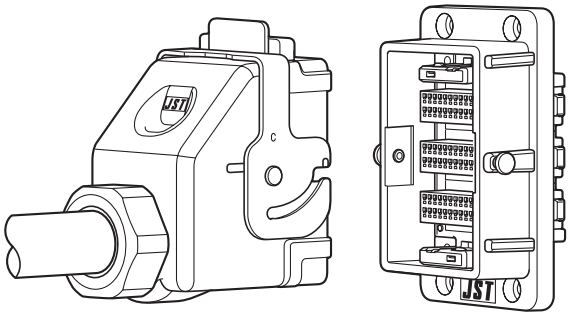
Model No.	Q'ty/bag
J29PK-K	35

Ground terminal



Model No.	Q'ty/bag
L3.5-R4	1,000

JFA CONNECTOR JFA-M SERIES



Metal shell type I/O connector which contacts are designed to be common use with JFA connector J2000 series and J300 series.

- ***Rigid metal shell***
- ***Lever (3 and 4 module type) provides easy mating and unmating connector***
- ***Combination of modular housing***

Specifications

- Current rating: Refer to the following matrix table.
- Voltage rating: 250V AC, DC (J2000 series)
  600V AC, DC (J300 series)
- Temperature range: –55°C to +105°C
  (including temperature rise in applying electrical current)
- Withstanding voltage: 1,500V AC/minute (J2000 series)
  2,200V AC/minute (J300 series)

*Contact JST for details.

Current rating Unit: A

	J2000 Series	J300 Series
	Wire size	
	AWG#20	AWG#16
2 Module	3(44P)	5(24P)
3 Module	3(66P)	5(36P)
4 Module	2.5(88P)	5(48P)

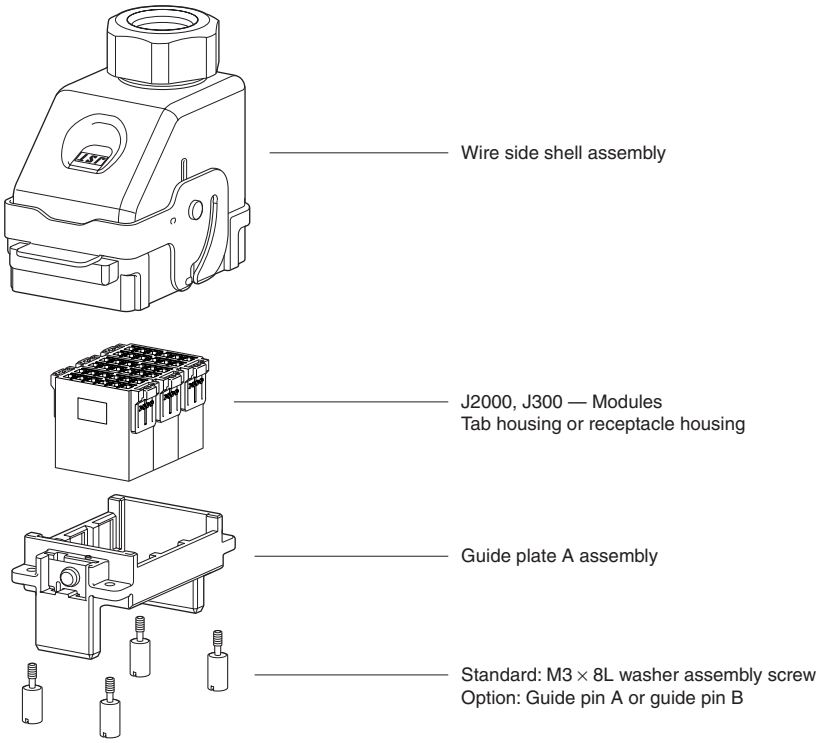
Standards

Recognized E60389

Components

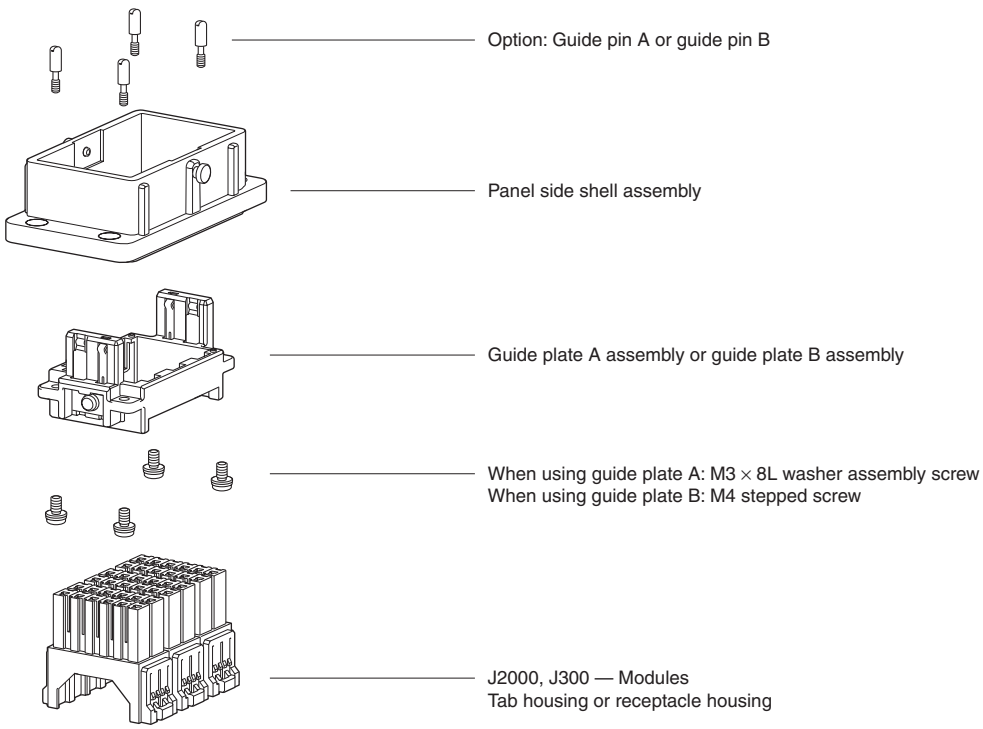
Wire side

Shell assembly



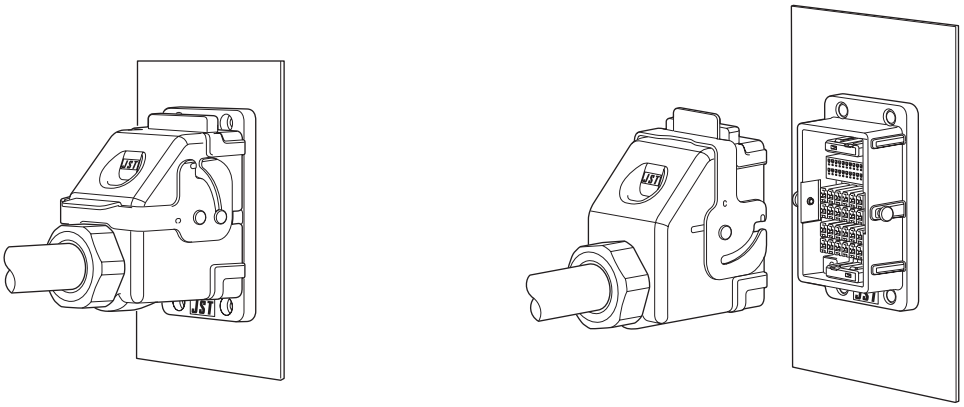
Panel side

Shell assembly

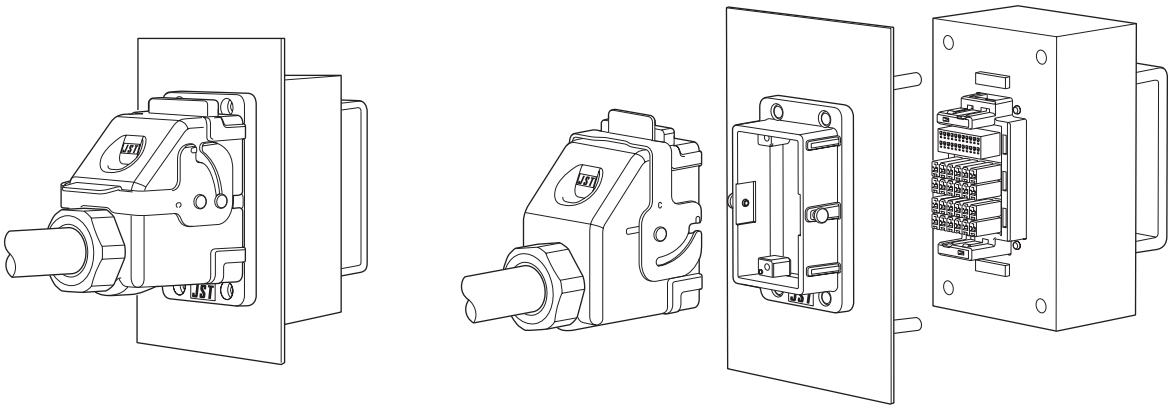


Examples of use

Waterproof I/O connector

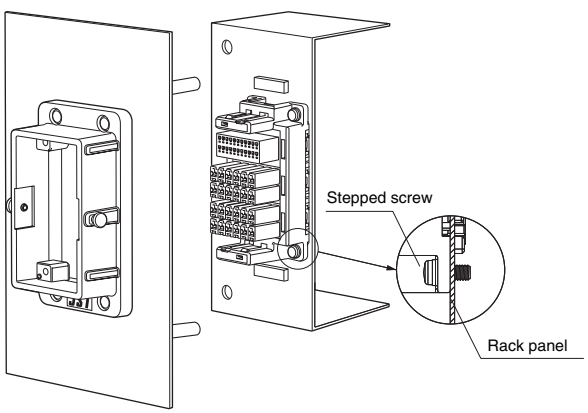


Drawer type

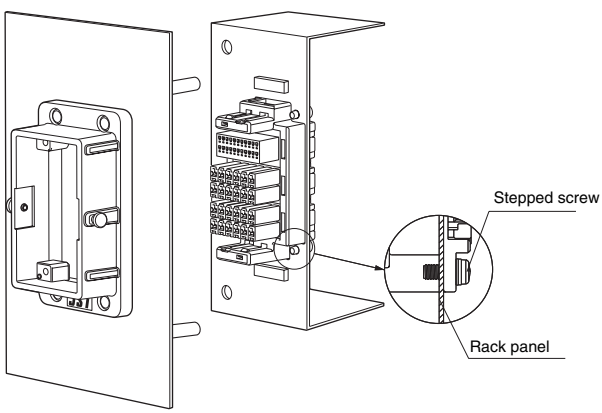


Drawer type (Rack mounting method)

Front mounting of rack panel

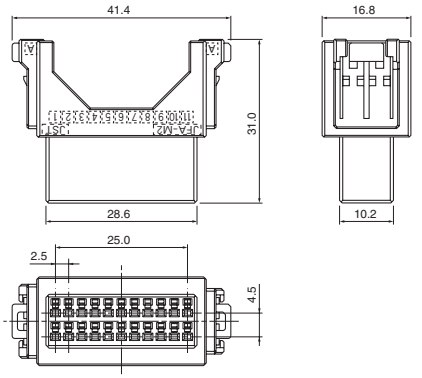


Rear mounting of rack panel

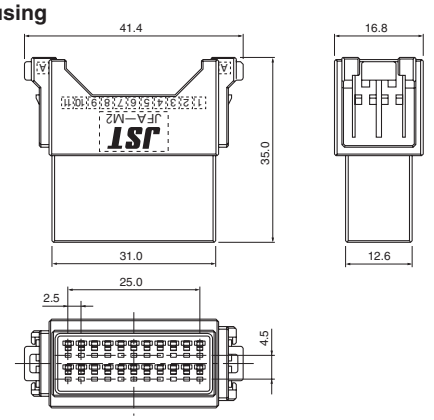


J2000 series housing (Used for both panel mounting and drawer type)

• **Receptacle housing**



• **Tab housing**



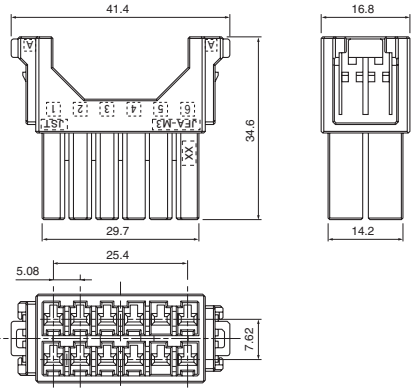
	Model No.	Q'ty/bag
Receptacle housing	**JFM2FDN-22V-K**	50
Tab housing	**JFM2MDN-22V-K**	50

RoHS compliance

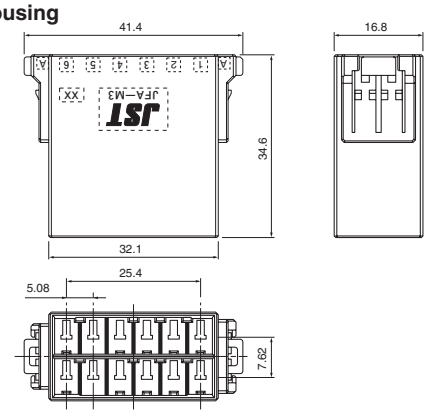
Note: Refer to page 438 about J2000 series contact.

J300 series housing (Used for both panel mounting and drawer type)

• **Receptacle housing**



• **Tab housing**



	Model No.	Q'ty/bag
Receptacle housing	**JFM3FMN-12V-K**	50
Tab housing	**JFM3MMN-12V-K**	50

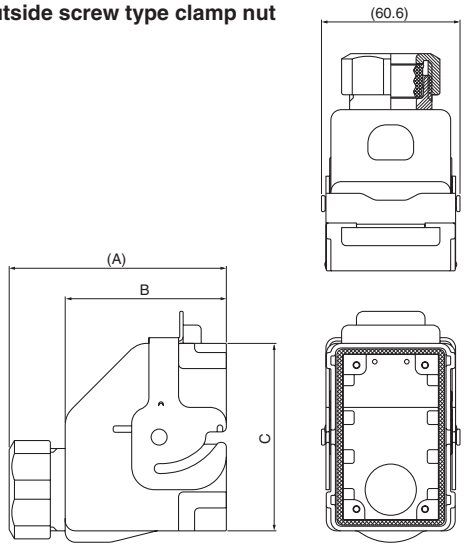
RoHS compliance

Note: Refer to page 453 about J300 series contact.

Wire side

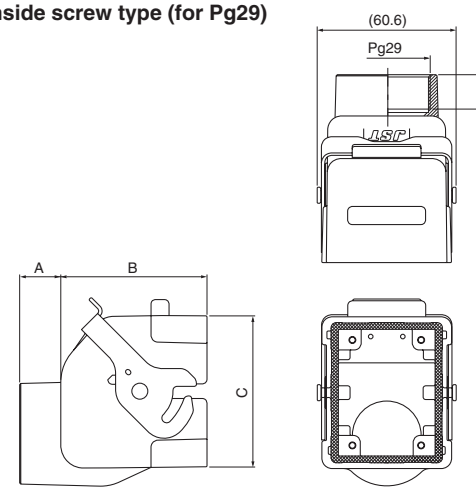
Shell assembly

• Outside screw type clamp nut



No. of combining housing	Model No.	Dimensions (mm)			Q'ty/ bag
		A	B	C	
3 module	**JFM-WSA-3-B**	(95.0)	70.5	82.0	1
4 module	**JFM-WSA-4-A**	(103.5)	79.0	99.0	1

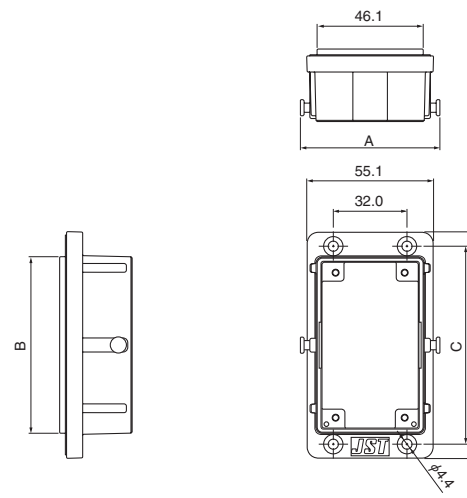
• Inside screw type (for Pg29)



No. of combining housing	Model No.	Dimensions (mm)			Q'ty/ bag
		A	B	C	
2 module	**JFM-WSA-2-1**	18.0	64.0	66.2	1

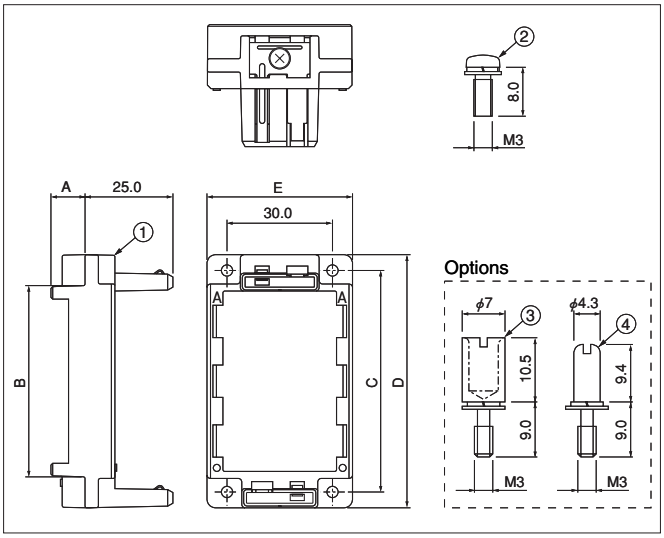
Panel side

Shell assembly



No. of combining housing	Model No.	Dimensions (mm)				Q'ty
		A	B	C	D	
2 module	**JFM-PSA-2**	(60.5)	59.7	69.0	81.5	1 (bag)
3 module	**JFM-PSA-3**	(60.6)	76.7	86.0	98.5	12 (box)
4 module	**JFM-PSA-4**	(60.6)	93.7	103.0	115.5	10 (box)

Guide plate A (With the combination of wire side and panel side shell assembly)



No. of combining housing	Model No.	Dimensions (mm)					Q'ty
		A	B	C	D	E	
2 module	**JFM-GPAK-2**	9.6	37.4	46.0	54.8	41.9	1 (bag)
3 module	**JFM-GPAK-3**	9.7	54.4	63.0	72.0	41.4	24 (box)
4 module	**JFM-GPAK-4**	9.7	71.4	80.0	89.0	41.4	16 (box)

No.	Parts name	Model No.	Q'ty
①	Guide plate A	—	—
②	Washer assembly screw	—	—
③	Guide pin A	**JFM-PIA3-N**	1,000 (bag)
④	Guide pin B	**JFM-PIB3-N**	1,000 (bag)

Note: Guide pin A and guide pin B are option.

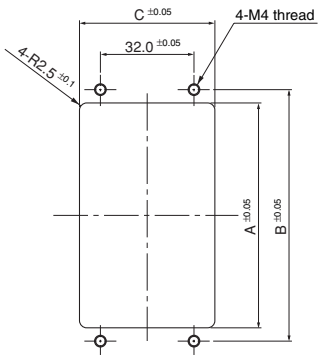
List of combinations of guide pin A and guide pin B (Shell mounting pattern at panel side)

No. of guide pin	Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Pattern 6
Guide pin A : 0 Guide pin B : 4						
Guide pin A : 1 Guide pin B : 3						
Guide pin A : 2 Guide pin B : 2						
Guide pin A : 3 Guide pin B : 1						
Guide pin A : 4 Guide pin B : 0						

Note: Shell mounting pattern at wire side becomes opposite to the above pattern.

Panel cut dimension

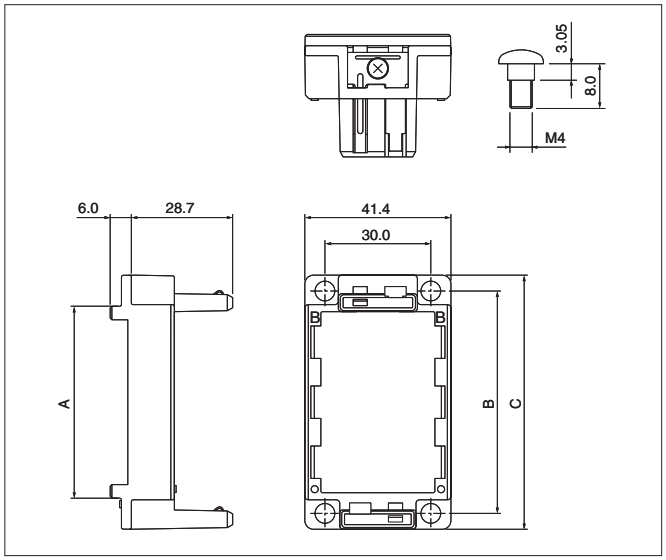
• Panel side shell mounting



Note: When thread and prepared hole penetrate, use sealing material on the back side of panel.

No. of combining housing	Dimensions (mm)		
	A	B	C
2 module	60.0	69.0	46.4
3 module	76.9	86.0	46.3
4 module	93.9	103.0	46.3

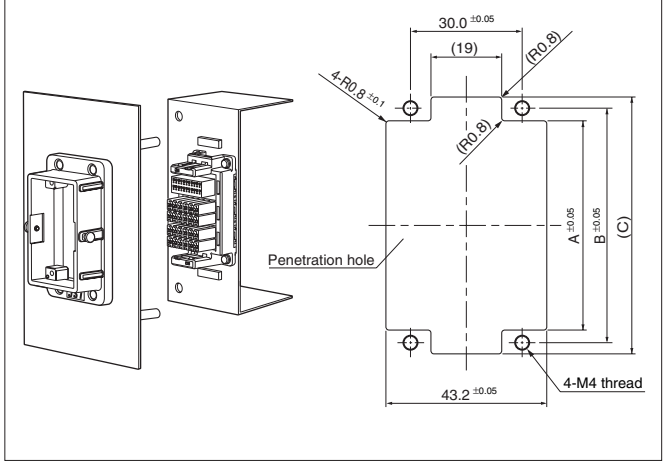
Guide plate B



No. of combining housing	Model No.	Dimensions (mm)			Q'ty/ bag
		A	B	C	
3 module	**JFM-GPBK-3**	54.4	63.0	72.0	24
4 module	**JFM-GPBK-4**	71.4	80.0	89.0	16

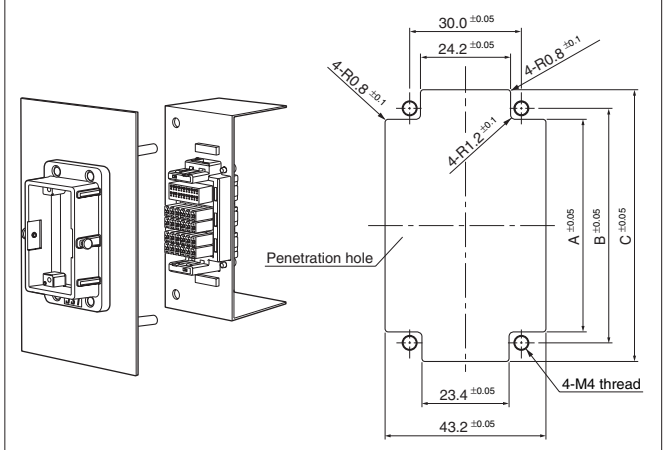
Panel cut dimension

• Front mounting of drawer type rack



No. of combining housing	Dimensions (mm)		
	A	B	C
3 module	56.2	63.0	69.0
4 module	73.2	80.0	86.0

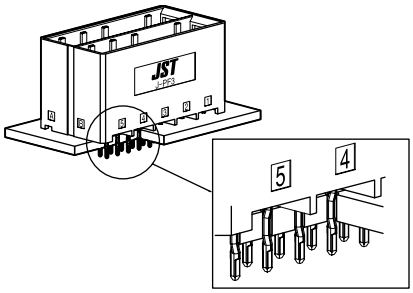
• Rear mounting of drawer type rack



No. of combining housing	Dimensions (mm)		
	A	B	C
3 module	57.1	63.0	73.0
4 module	74.1	80.0	90.0

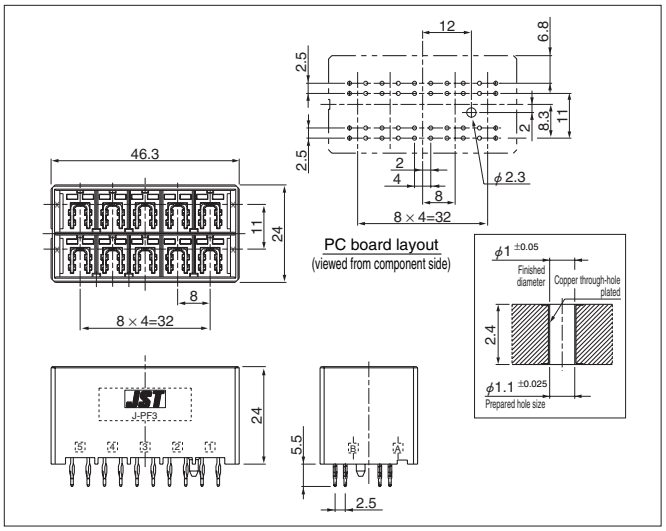
Note: Refer to connector handling manual for panel mounting method about drawer type connector.

J300 SERIES/J-PF3 PRESS FIT TYPE



- ***Press fit contact is adopted.***
- ***Easy PC board layout***
- ***Use the receptacle contact of J300 series***

Header Top entry type (Press fit type)

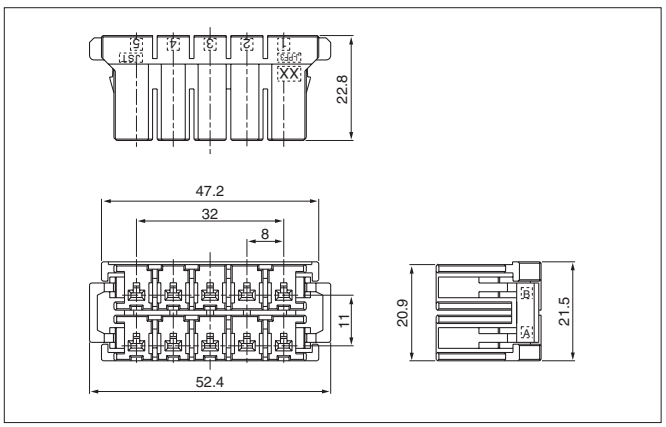


Circuits	Keying	Model No.	Q'ty / box
10	XX	**B10B-JPF3MK-GKXXR**	96
	YY	**B10B-JPF3MK-GKYYR**	96
	XY	**B10B-JPF3MK-GKXYR**	96
	YX	**B10B-JPF3MK-GKYXR**	96

Material and Finish
Post: Copper alloy, gold-plated Housing: Thermoplastic resin

RoHS compliance
Note: 1. Contact JST for jig for press fit.
2. Not CSA/UL/TÜV approved.

Receptacle housing

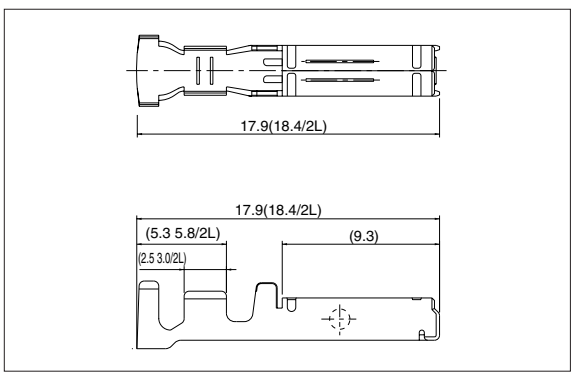


Circuits	Keying	Model No.	Q'ty / bag
10	XX	**JPF3FMS-10V-KXX**	400
	YY	**JPF3FMS-10V-KYY**	400
	XY	**JPF3FMS-10V-KXY**	400
	YX	**JPF3FMS-10V-KYX**	400

Material
Housing: Thermoplastic resin

RoHS compliance
Note: Not CSA/UL/TÜV approved.

Receptacle contact



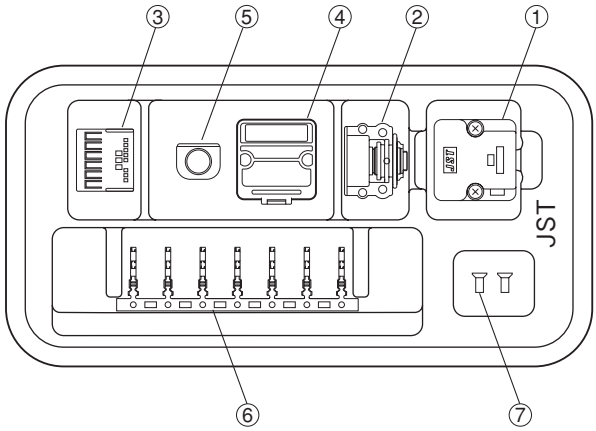
Model No.		Applicable wire			Insulation O.D. (mm)	Q'ty	
Strip contact	Loose piece	Nominal	mm²	AWG#		reel	Box(Loose piece)
SF3F-002GF-P2.0	**BF3F-002GF-P2.0**	S	0.08 ~ 0.20	28 ~ 24	0.8 ~ 1.4	3,700	1,000
SF3F-01GF-P2.0	**BF3F-01GF-P2.0**	M	0.20 ~ 0.50	24 ~ 20	1.2 ~ 2.6	3,700	1,000
SF3F-41GF-P2.0	**LF3F-41GF-P2.0**	L	0.50 ~ 1.25	20 ~ 16	1.8 ~ 2.8	3,200	1,000
***SF3F-71GF-P2.0**	***BF3F-71GF-P2.0**	2L	1.25 ~ 2.0	16 ~ 14	2.4 ~ 3.4	3,200	1,000

Material and Finish
Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated tin-plated (reflow treatment)

RoHS compliance
*Note : *Marked products are not CSA/TÜV approved.*

JFA CONNECTOR J1700/2700/3700 SERIES

Connector kits for motor



• 6 circuits connector for power supply of servomotor

Specifications

- Current rating: 5.0A AC, DC [J1700 series 2.0mm pitch]
  7.0A AC, DC [J2700 series 2.5mm pitch]
  10.0A AC, DC [J3700 series 3.8mm pitch]
- Voltage rating: 250V AC, DC
- Temperature range: –55°C to +105°C
  (including temperature rise in applying electrical current)
- Waterproof grade: Grade 5 ingress protection of JIS C 0920 (IEC 60529 IPX5)

*Contact JST for details.

Kit components

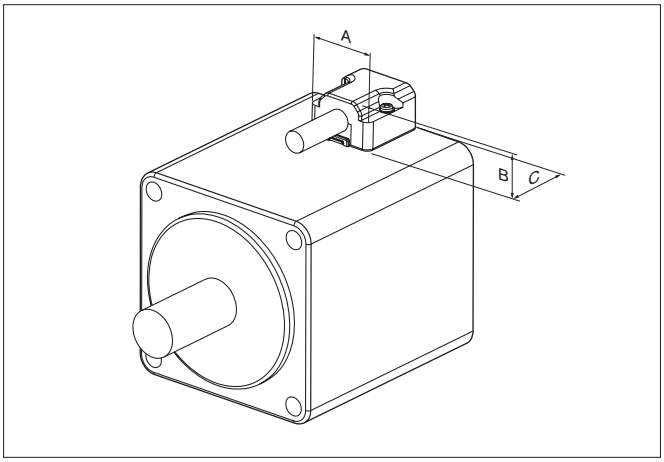
No.	Components	Q'ty
①	Top cover assembly	1
②	Bottom cover assembly	1
③	Receptacle housing	1
④	Rubber plate seal	1
⑤	Seal ring	1
⑥	Receptacle contact	7
⑦	Flat countersunk head screw	2

Standards

Recognized E60389

JFA CONNECTOR/J1700/2700/3700 SERIES

Connector kit outer dimension



Series	Dimensions (mm)		
	A	B	C
J1700	16.4	12.0	20.2
J2700	21.0	13.0	21.2
J3700	27.0	15.0	21.2

Connector kit model No.

Series	Pitch (mm)	Model No.	Cable finished diameter (mm)	Nominal
J1700	2.0	**J17-06FMH-6KL-1S-CF**	6.0	S
		J17-06FMH-6KL-1M-CF	6.0	M
		J17-06FMH-7KL-1S-CF	7.0	S
		J17-06FMH-7KL-1M-CF	7.0	M
J2700	2.5	**J27-06FMH-6KL-1S-CF**	6.0	S
		J27-06FMH-6KL-1M-CF	6.0	M
		J27-06FMH-7KL-1S-CF	7.0	S
		J27-06FMH-7KL-1M-CF	7.0	M
J3700	3.8	**J37-06FMH-8KL-1S-CF**	8.0	S
		J37-06FMH-8KL-1M-CF	8.0	M
		J37-06FMH-8KL-1L-CF	8.0	L
		J37-06FMH-9KL-1S-CF	9.0	S
		J37-06FMH-9KL-1M-CF	9.0	M
		J37-06FMH-9KL-1L-CF	9.0	L

RoHS compliance

Model number identification

J17 – 06 FMH – 6 K L – 1S – CF

- Series name: J17...J1700 Series, J27...J2700 Series, J37...J3700 Series
- No. of circuts: 6
- Type of connector: Receptacle housing
- Cable insulation O.D.: J1700 Series...6.0, 7.0; J2700 Series...6.0, 7.0; J3700 Series...8.0, 9.0
- Color indication: K...Black
- Packaging form: Tray for kit
- Receptacle contact size : S , M , L
- Hexavalent chromium free

Receptacle contact

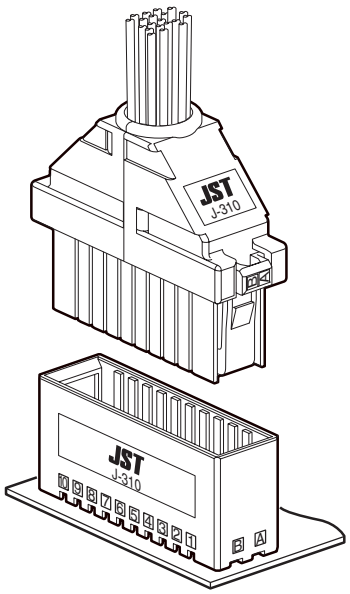
Applicable wire			Wire insulation O.D. (mm)	J1700 Series	J2700 Series	J3700 Series
Nominal	mm²	AWG #				
S	0.08 ~ 0.20	28 ~ 24	0.88 ~ 1.43	**SJ1F-002GF-P0.8**	**SJ2F-002GF-P1.0**	**SJ3F-002GF-P1.8**
M	0.20 ~ 0.50	24 ~ 20	1.11 ~ 1.53	**SJ1F-01GF-P0.8**	**SJ2F-01GF-P1.0**	—
			1.11 ~ 1.86	—	—	**SJ3F-01GF-P1.8**
L	0.50 ~ 1.25	20 ~ 16	1.53 ~ 2.50	—	—	**SJ3F-41GF-P1.8**

RoHS compliance

Hand crimping tool

Series	Nominal	Receptacle contact	Hand crimp tool
J1700	S	**SJ1F-002GF-P0.8**	YRS-8831
	M	**SJ1F-01GF-P0.8**	YRS-8841
J2700	S	**SJ2F-002GF-P1.0**	YRS-8851
	M	**SJ2F-01GF-P1.0**	YRS-8861
J3700	S	**SJ3F-002GF-P1.8**	YRF-882
	M	**SJ3F-01GF-P1.8**	YRF-881
	L	**SJ3F-41GF-P1.8**	YRF-880

JFA CONNECTOR/PROTECTOR

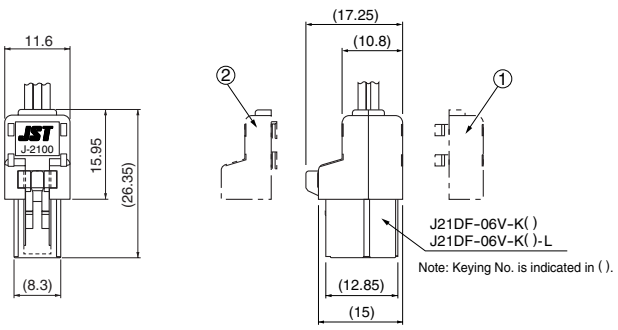


Note: Protector is not UL/CSA/TÜV approved

When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side.
However it has no function of holding the wire securely.

J2000 Series

•J2100 series for 6 circuits

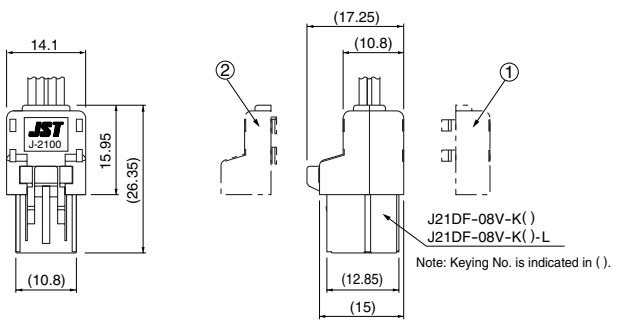


No.	Model No.	Color
①	**J21PF-06SCA**	Transparent
②	**J21PF-06SCB**	Transparent

Material
Polycarbonate

RoHS compliance

•J2100 series for 8 circuits



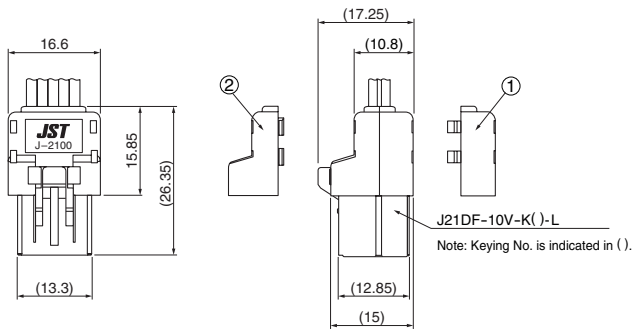
No.	Model No.	Colar
①	**J21PF-08SCA**	Transparent
②	**J21PF-08SCB**	Transparent

Material
Polycarbonate

RoHS compliance

J2000 Series

•J2100 series for 10 circuits

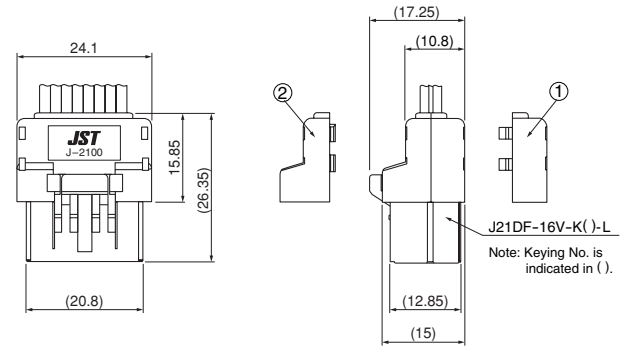


No.	Model No.	Color
①	**J21PF-10SCA**	Transparent
②	**J21PF-10SCB**	Transparent

Material
Polycarbonate

RoHS compliance

•J2100 series for 16 circuits

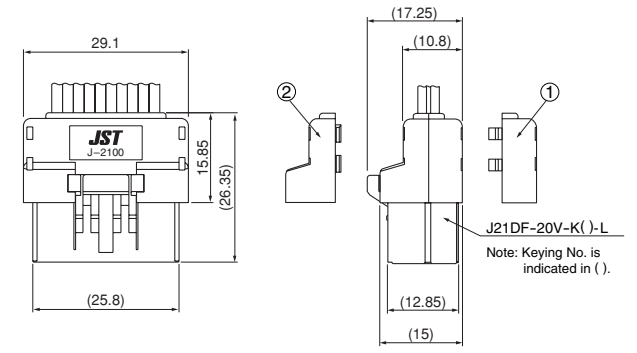


No.	Model No.	Color
①	**J21PF-16SCA**	Transparent
②	**J21PF-16SCB**	Transparent

Material
Polycarbonate

RoHS compliance

•J2100 series for 20 circuits

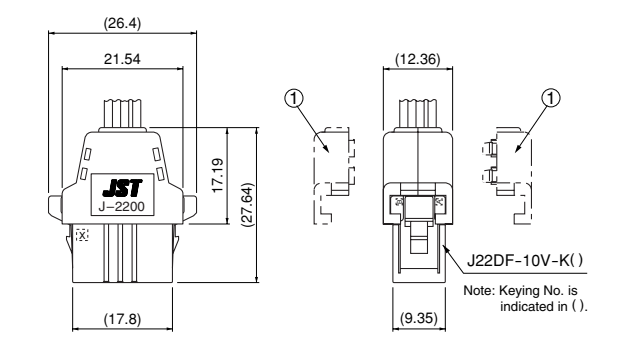


No.	Model No.	Color
①	**J21PF-20SCA**	Transparent
②	**J21PF-20SCB**	Transparent

Material
Polycarbonate

RoHS compliance

•J2200 series for 10 circuits



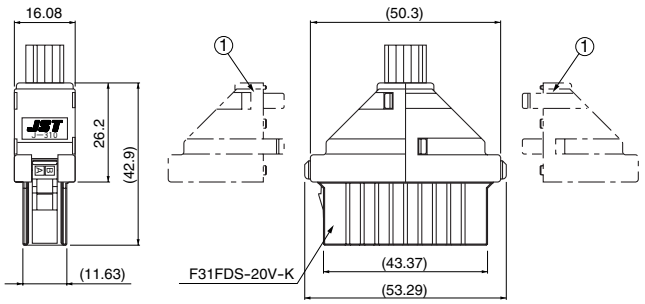
No.	Model No.	Color
①	**J22PF-10VK**	Black

Material
Glass-filled PBT

RoHS compliance
Note: Two protectors are used.

J300 Series

•J310D series for 20 circuits

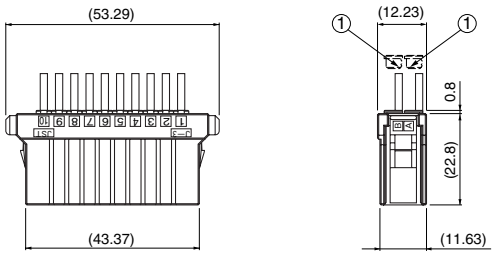


No.	Model No.	Color
①	**F31PFD-20VK**	Black
①	**F31PFD-20SC**	Transparent

Material
Black: Glass-filled PBT Transparent: Polycarbonate

RoHS compliance
Note: Two protectors of the same color are used.

•J310D series / Embedding-type protector for 8, 10 circuits

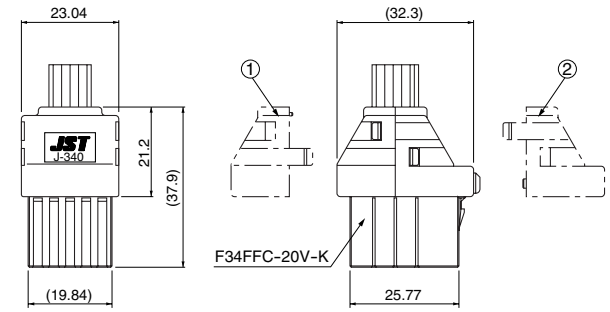


No.	Model No.	Color
①	**F31PFS-10KU**	Black

Material
Glass-filled PBT

RoHS compliance
Note: This protector is cut and used for each number of circuits.

•J340F series for 20 circuits



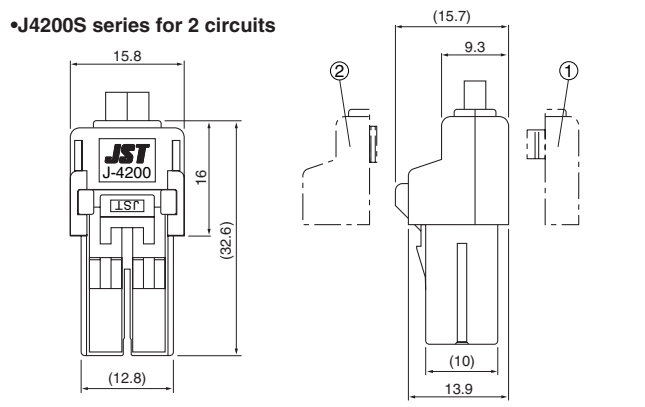
No.	Model No.	Color
①	**F34PFF-20VKA**	Black
	F34PFF-20SCA	Transparent
②	**F34PFF-20VKB**	Black
	F34PFF-20SCB	Transparent

Material
Black: Glass-filled PBT Transparent: Polycarbonate

RoHS compliance
Note: Both 1 and 2 protectors in the same color are used.

J4000 Series

•J4200S series for 2 circuits



No.	Model No.	Color
①	**J42PF-02SCA**	Transparent
②	**J42PF-02SCB**	Transparent

Material
Polycarbonate

RoHS compliance

(Patent pending)
When applying a current to the connector, the protector prevents foreign substances being inserted into mating part from the wiring side. However it has no function of holding the wire securely.

5

Chain Terminals and Splices

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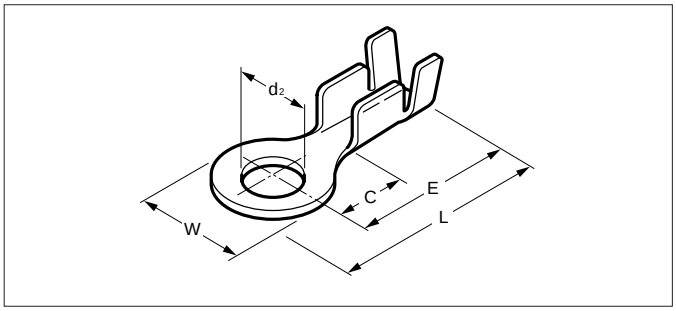
RING TONGUE TERMINAL

With insulation grip

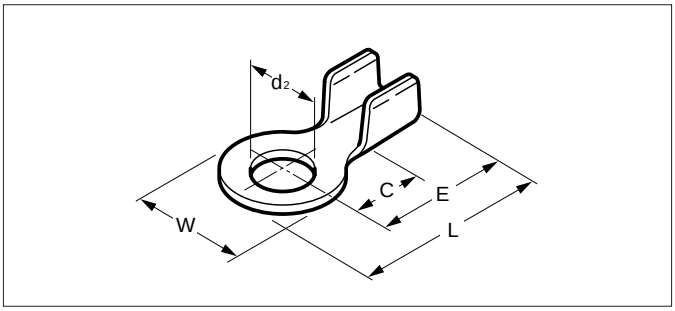


Listed E42024 Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)						Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			d2 (dia.)	E	L	C	W	Material thickness	
SRA-01T-3.2		0.2 to 0.5	24 to 20	1.5 to 2.7	Brass	Tin-plated	3.2	13.4	16.9	7.2	7.0	0.32	10,000
SRA-21-3		0.3 to 0.75	22 to 18	1.5 to 2.8	Brass	—	3.2	13.0	16.8	5.8	7.5	0.5	7,500
SRA-21T-3						Tin-plated							
SRA-21-3.7						—	3.7						
SRA-21T-3.7						Tin-plated							
SRA-21-4						—	4.3						
SRA-21T-4						Tin-plated							
SRA-21-H5						—	5.1						
SRA-21T-H5						Tin-plated							
SRA-51-3		0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	—	3.2	13.0	16.8	5.8	7.5	0.5	7,500
SRA-51T-3						Tin-plated							
SRA-51-3.7						—	3.7						
SRA-51T-3.7						Tin-plated							
SRA-51-4						—	4.3						
SRA-51T-4						Tin-plated							
SRA-51-H5						—	5.1						
SRA-51T-H5						Tin-plated							
SRB-51-3		0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	—	3.2	15.0	19.3	7.8	8.5	0.5	5,000
SRB-51T-3						Tin-plated							
SRB-51-3.7						—	3.7						
SRB-51T-3.7						Tin-plated							
SRB-51-4						—	4.3						
SRB-51T-4						Tin-plated							
SRB-51-H5						—	5.1						
SRB-51T-H5						Tin-plated							
SRB-51-5						—	5.3						
SRB-51T-5						Tin-plated							
SRC-01-2.5		0.2 to 0.3	24 to 22	1.3 to 1.7	Brass	—	2.5	7.0	9.3	2.9	4.6	0.32	15,000
SRC-01T-2.5						Tin-plated							
SRC-51-M3		0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	—	3.2	13.5	16.8	6.7	6.5	0.5	7,500
SRC-51T-M3						Tin-plated							
SRC-51-M3.5						—	3.7						
SRC-51T-M3.5						Tin-plated							
SRC-51-M4						—	4.3						
SRC-51T-M4						Tin-plated							
SRF-51-3		0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	—	3.2	11.5	15.3	4.8	7.5	0.5	7,500
SRF-51T-3						Tin-plated							
SRF-51-3.7						—	3.7						
SRF-51T-3.7						Tin-plated							
SRF-51-4						—	4.3						
SRF-51T-4						Tin-plated							
SRF-51-H5						—	5.1						
SRF-51T-H5						Tin-plated							

RoHS compliance

Without insulation grip



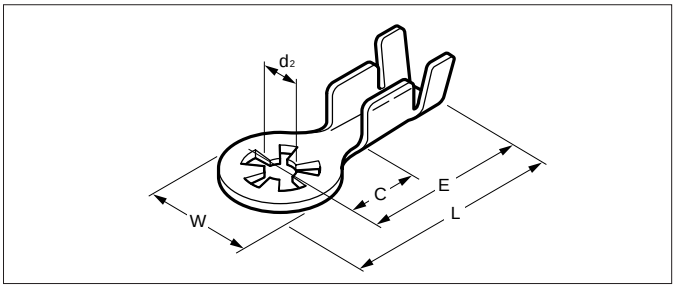
Listed E42024 Certified LR20812

Model No.	Standard	Applicable wire		Material	Finish	Dimensions(mm)						Q'ty / reel
		mm²	AWG #			d2 (dia.)	E	L	C	W	Material thickness	
SRA-20-2.5		0.3 to 0.75	22 to 18	Brass	—	2.5	7.5	9.8	4.2	4.6	0.4	15,000
SRA-20T-2.5					Tin-plated							
SRA-20-3.2					—	3.2						
SRA-20T-3.2					Tin-plated							
SRA-50-3		0.5 to 2.0	20 to 14	Brass	—	3.2	8.7	12.5	4.7	7.5	0.5	10,000
SRA-50T-3					Tin-plated							
SRA-50-3.7					—	3.7						
SRA-50T-3.7					Tin-plated							
SRA-50-4					—	4.3						
SRA-50T-4					Tin-plated							
SRA-50-H5					—	5.1						
SRA-50T-H5					Tin-plated							
SRB-50-3		0.5 to 2.0	20 to 14	Brass	—	3.2	12.7	17.0	7.7	8.5	0.5	7,500
SRB-50T-3					Tin-plated							
SRB-50-3.7					—	3.7						
SRB-50T-3.7					Tin-plated							
SRB-50-4					—	4.3						
SRB-50T-4					Tin-plated							
SRB-50-H5					—	5.1						
SRB-50T-H5					Tin-plated							
SRB-50-5					—	5.3						
SRB-50T-5					Tin-plated							
SRC-50-M3		0.5 to 2.0	20 to 14	Brass	—	3.2	10.0	13.3	6.7	6.5	0.5	15,000
SRC-50T-M3					Tin-plated							
SRC-50-M3.5					—	3.7						
SRC-50T-M3.5					Tin-plated							
SRC-50-M4					—	4.3						
SRC-50T-M4					Tin-plated							
SRD-20-3.7		0.3 to 0.75	22 to 18	Brass	—	3.7	8.7	12.5	4.7	7.5	0.5	15,000
SRD-20T-3.7					Tin-plated							
SRD-20-4					—	4.3						
SRD-20T-4					Tin-plated							

RoHS compliance

RING TONGUE TERMINAL

With toothed lock



Recognized E42024 Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)						Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			d2 (dia.)	E	L	C	W	Material thickness	
SRT-51T-3(FE)		0.5 to 1.25	20 to 16	1.7 to 3.4	Iron	Tin-plated	3.1	12.2	16.8	6.1	9.2	0.5	5,000
SRT-51T-4(FE)							4.1						

RoHS compliance

Crimping machine, Applicator

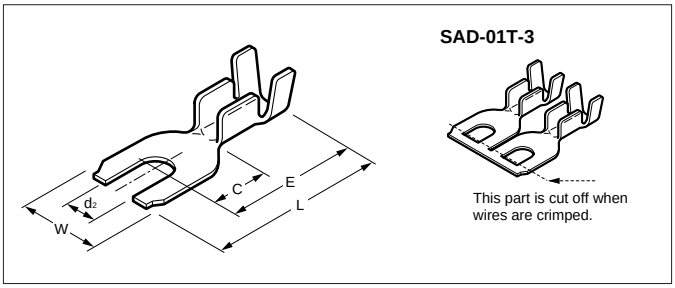
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRA-01(T)-**	AP-K2N	MK-L	MK/SRA-01	APLMK SRA01
		–	–	–
SRA-20(T)-**		MK-L	MK/SRA-20	APLMK SRA20
		–	–	–
SRA-21(T)-**		MK-L	MK/SRA-21	APLMK SRA21
		–	–	–
SRA-50(T)-**		MK-L	MK/SRA-50	APLMK SRA50
		–	–	–
SRA-51(T)-**		MK-L	MK/SRA-51	APLMK SRA51
		–	–	–
SRB-50(T)-**		MK-L	MK/SRB-50	APLMK SRB50
		–	–	–
SRB-51(T)-**		MK-L	MK/SRB-51	APLMK SRB51
		–	–	–

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SRC-01(T)-**	AP-K2N	MK-L	MK/SRC-01	APLMK SRC01
		–	–	–
SRC-50(T)-**		MK-L	MK/SRC-50	APLMK SRC50
		–	–	–
SRC-51(T)-**		MK-L	MK/SRC-51	APLMK SRC51
		–	–	–
SRD-20(T)-**		MK-L	MK/SRD-20	APLMK SRD20
		–	–	–
SRF-51(T)-**		MK-L	MK/SRF-51	APLMK SRF51
		–	–	–
SRT-51T-**		MK-L	MK/SRT-51	APLMK SRT51
		–	–	–

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

FORK TONGUE TERMINAL

With insulation grip



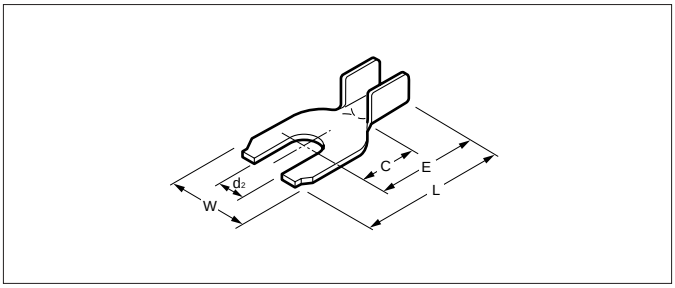
Listed E42024 Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)						Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			d2 (dia.)	E	L	C	W	Material thickness	
SAA-51-3	UL SP	0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	—	3.2	13.0	16.8	5.8	7.2	0.5	7,500
SAA-51T-3						Tin-plated							
SAA-51-3.7						—	3.7						
SAA-51T-3.7						Tin-plated							
SAA-51-4						—	4.3						
SAA-51T-4						Tin-plated							
SAB-51-5						—	5.3				8.2		5,000
SAB-51T-5						Tin-plated							
***SAD-01T-3**	UL SP	0.2 to 0.5	24 to 20	Approx 2.0		Tin-plated	3.2	11.0	14.7	5.2	6.3		5,000

RoHS compliance *SAD-01T-3 displays (SN) on a label.*

*Note: The terminal denoted by * is a twin lead fork terminal and is used for crimping 2 piece terminals simultaneously onto 2 parallel wires like the TV feeder wires.*

Without insulation grip



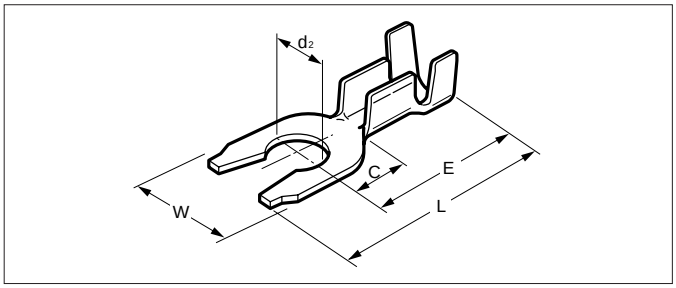
Listed E42024 Certified LR20812

Model No.	Standard	Applicable wire		Material	Finish	Dimensions(mm)						Q´ty / reel
		mm²	AWG #			d2 (dia.)	E	L	C	W	Material thickness	
SAA-50-3	UL SP	0.5 to 2.0	20 to 14	Brass	—	3.2	10.0	13.8	6.0	7.2	0.5	10,000
SAA-50T-3					Tin-plated							
SAA-50-3.7					—	3.7						
SAA-50T-3.7					Tin-plated							
SAA-50-4					—	4.3						
SAA-50T-4					Tin-plated							

RoHS compliance

FORK TONGUE TERMINAL

Locking type (With insulation grip)



Listed E42024 Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)						Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			d2 (dia.)	E	L	C	W	Material thickness	
SAA-21-3L						—	3.2						
SAA-21T-3L						Tin-plated							
SAA-21-3.5L						—	3.7						
SAA-21T-3.5L						Tin-plated							
SAA-21-4L						—	4.3						
SAA-21T-4L						Tin-plated							
		0.3 to 0.75	22 to 18	1.5 to 2.8	Brass			13.0	16.8	5.8	7.2	0.5	7,500

RoHS compliance

Crimping machine, Applicator

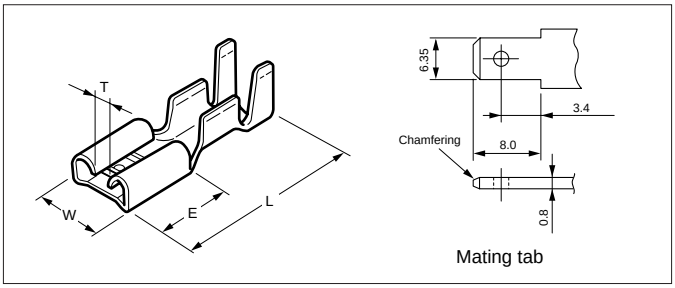
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SAA-21(T)-**	AP-K2N	MK-L	MK/SAA-21	APLMK SAA21
		–	–	–
SAA-50(T)-**		MK-L	MK/SAA-50	APLMK SAA50
		–	–	–
SAA-51(T)-**		MK-L	MK/SAA-51	APLMK SAA51
		–	–	–

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SAB-51(T)-**	AP-K2N	MK-L	MK/SAB-51	APLMK SAB51
		–	–	–
SAD-01(T)-**		MK-L	MK/SAD-01	APLMK SAD01
		–	–	–

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

TAB-ON TERMINAL

250 Tab-on type



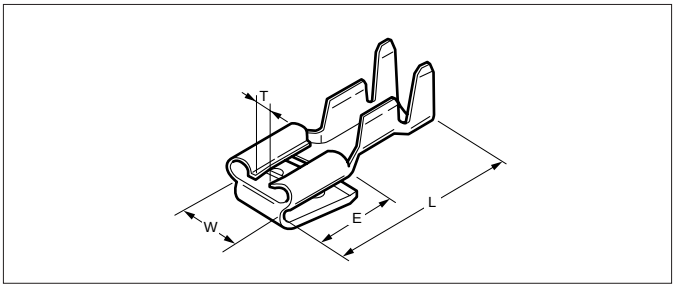
Listed E70188 Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)						Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness	Mating tab thickness	
STO-21-250N		0.3 to 0.75	22 to 18	2.3 to 3.0	Brass	—	7.7	19.0	7.8	2.4	0.4	0.8	5,000
STO-21T-250N						Tin-plated							
STO-61-250N		0.75 to 2.0	18 to 14	2.8 to 3.8		—				1.6	0.45		
STO-61T-250N						Tin-plated							
STO-81-250N		2.0 to 3.5	14 to 12	3.8 to 5.0		—	7.6	19.6	8.0				4,000
STO-81T-250N						Tin-plated							
***STO-62T-250N**		UL1015#20 + UL1015#20 UL1015#18 + UL1015#20 UL1015#18 + UL1015#18				Tin-plated		19.0					5,000

RoHS compliance

*Note: Terminal denoted by * is used only for two wires. If using wires in other combinations than the ones shown above, contact JST.*

250 Tab-on piggyback type



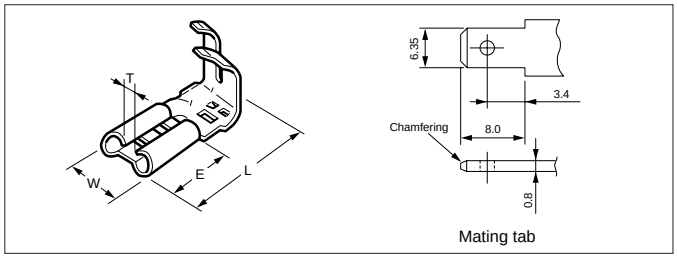
Listed E70188 Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)						Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness	Mating tab thickness	
SFT-61T-250N		0.75 to 2.0	18 to 14	2.8 to 3.9	Brass	Tin-plated	7.6	19.6	8.3	2.9	0.39	0.8	3,000

RoHS compliance

TAB-ON TERMINAL

250 Tab-on flag type

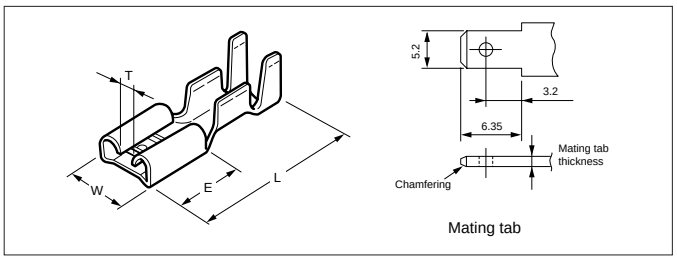


Listed E70188 Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)						Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness	Mating tab thickness	
SFO-61-250A		0.75 to 2.0	18 to 14	2.8 to 3.8	Brass	—	8.0	16.1	7.8	3.0	0.45	0.8	3,000
SFO-61T-250A						Tin-plated							

RoHS compliance

205 Tab-on type

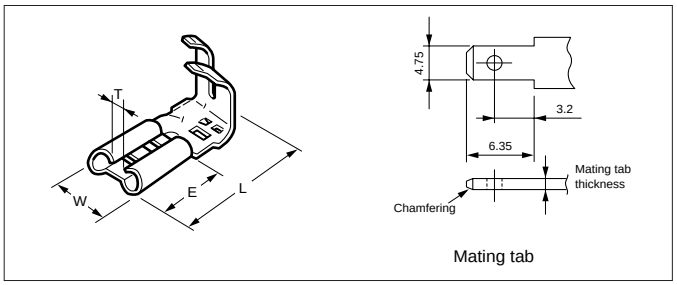


Listed E70188 Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)						Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness	Mating tab thickness	
STO-21-205N		0.3 to 0.75	22 to 18	2.3 to 3.0	Brass	—	6.4	15.9	6.4	0.7	0.4	0.8	7,500
STO-21T-205N						Tin-plated							
STO-21-205N-5						—						0.5	
STO-21T-205N-5						Tin-plated							

RoHS compliance

187 Tab-on flag type

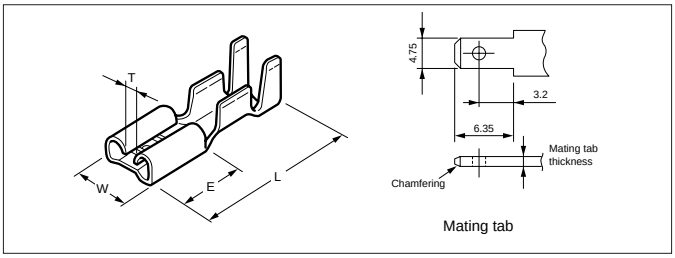


Listed E70188 Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)						Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness	Mating tab thickness	
SFO-41-187N		0.5 to 1.25	20 to 16	2.6 to 3.5	Brass	—	5.6	12.3	6.4	1.0	0.32	0.5	5,000
SFO-41T-187N						Tin-plated							
SFO-41-187N-8						—						0.8	
SFO-41T-187N-8						Tin-plated							

RoHS compliance

187 Tab-on type



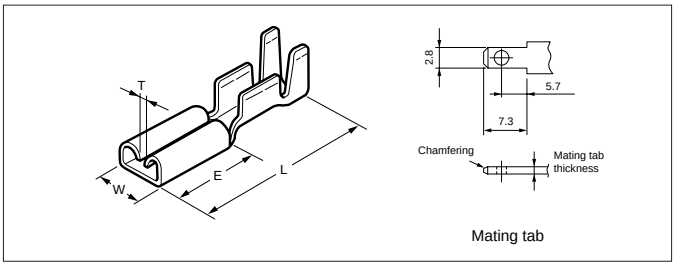
Listed E70188 Recognized E70188 (AWG#24) Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)						Q'ty / reel
		mm²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness	Mating tab thickness	
STO-01-187N		0.2 to 0.5	24 to 20	1.5 to 2.6	Brass	—	5.6	15.0	6.3	1.5	0.32	0.5	10,000
STO-01T-187N						Tin-plated							
STO-01-187N-8						—						0.8	
STO-01T-187N-8						Tin-plated							
STO-41-187N		0.5 to 1.25	20 to 16	2.6 to 3.5	Brass	—	5.6	15.0	6.3	1.5	0.32	0.5	10,000
STO-41T-187N						Tin-plated							
STO-41-187N-8						—						0.8	
STO-41T-187N-8						Tin-plated							
***STO-62T-187N**		UL1015#20 + UL1015#20 UL1015#18 + UL1015#20 UL1015#18 + UL1015#18			Brass	Tin-plated	5.6	19.6	6.4	1.5	0.32	0.5	4,000
***STO-82T-187N**		UL1015#18 + UL1015#18 UL1015#18 + UL1015#16 UL1015#16 + UL1015#16			Brass	Tin-plated	5.6	19.6	6.4	1.5	0.32		4,000

RoHS compliance

*Note: Terminal denoted by * is used only for two wires. If using wires in other combinations than the ones shown above, contact JST.*

110 Tab-on type



Listed E70188 Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)						Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness	Mating tab thickness	
STO-01-110N		0.2 to 0.5	24 to 20	2.1 to 2.8	Brass	—	3.7	15.4	6.3	0.6	0.25	0.5	10,000
STO-01T-110N						Tin-plated							
STO-01-110N-8						—						0.8	
STO-01T-110N-8						Tin-plated							
STO-41-110N		0.5 to 1.25	20 to 16	2.6 to 3.5		—	3.7	15.4	6.3	0.6		0.5	
STO-41T-110N						Tin-plated							
STO-41-110N-8						—						0.8	
STO-41T-110N-8						Tin-plated							

RoHS compliance

Crimping machine, Applicator

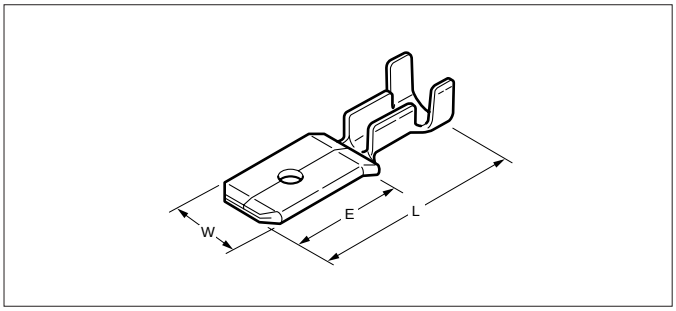
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
STO-21(T)-250N	AP-K2N	MK-L	MK/STO-21-250N	APLMK STO21-250N
		–	–	–
STO-61(T)-250N		MK-L	MK/STO-61-250N	APLMK STO61-250N
		–	–	–
STO-81(T)-250N		MK-L	MK/STO-81-250N	APLMK STO81-250N
		–	–	–
STO-62(T)-250N		MK-L	MK/STO-62-250N	APLMK STO62-250N
		–	–	–
SFT-61(T)-250N		MKS-L	MK/SFT-61-250N	APL SFT61-250N
		–	–	–
SFO-61(T)-250A		MKF-L-250	MK/SFO-61-250A	APL SFO61-250A
		–	–	–
STO-21(T)-205N(-5)		MK-L	MK/STO-21-205N	APL STO21-205N
		–	–	–
SFO-41(T)-187N(-8)		MKF-L-187	MK/SFO-41-187N	APL SFO41-187N
		–	–	–

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
STO-01(T)-187N(-8)	AP-K2N	MK-L	MK/STO-01-187N	APLMK STO01-187N
		–	–	–
STO-41(T)-187N(-8)		MK-L	MK/STO-41-187N	APLMK STO41-187N
		–	–	–
STO-62T-187N		MK-L-187	MK/STO-62-187N	APLMK STO62-187N
		–	–	–
STO-82(T)-187N		MK-L-187	MK/STO-82-187N	APLMK STO82-187N
		–	–	–
STO-01(T)-110N(-8)		MK-L	MK/STO-01-110N	APLMK STO01-110N
		–	–	–
STO-41(T)-110N(-8)		MK-L	MK/STO-41-110N	APLMK STO41-110N
		–	–	–

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

TAB-ON-TAB TERMINAL

250 Tab-on tab type

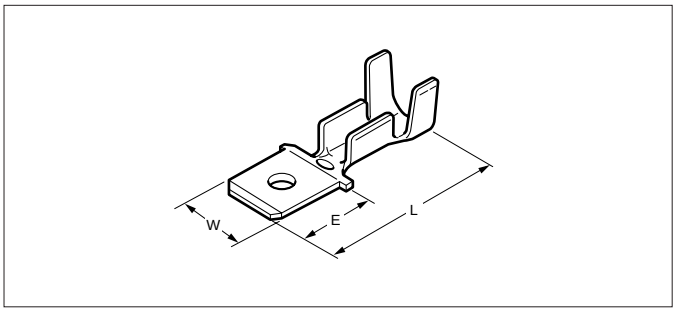


Listed E70188

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			W	L	E	Material thickness	Tab thickness	
SOM-51-250		0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	–	6.4	20.8	11.6	0.4	0.8	5,000
SOM-51T-250						Tin-plated						

RoHS compliance

187 Tab-on tab type



Listed E70188

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			W	L	E	Material thickness	Tab thickness	
SOM-21-187		0.3 to 0.75	22 to 18	2.3 to 3.0	Brass	–	4.8	17.2	6.4	0.5	0.5	10,000
SOM-21T-187						Tin-plated						

RoHS compliance

Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SOM-51(T)-250	AP-K2N	MK-L	MK/SOM-51-250	APLMK SOM51-250
		–	–	–

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SOM-21(T)-187	AP-K2N	MK-L	MK/SOM-21-187	APLMK SOM21-187
		–	–	–

* RoHS compliant products are published.
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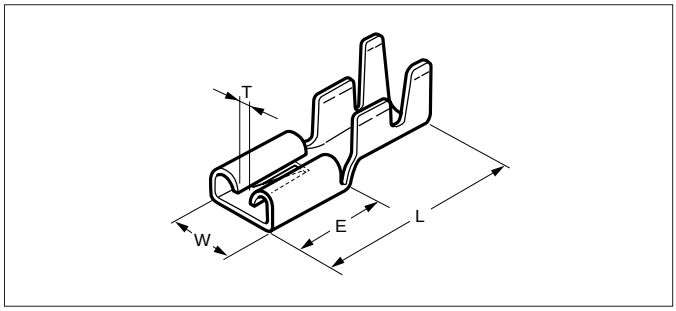
TAB-IN/TAB-IN-TAB TERMINAL

250 Tab-in type



Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)						Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness	Mating tab	
STI-51-250N		0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	–	7.5	19.2	7.7	0.9	0.32	SIM-51 (T)-250N	5,000
STI-51T-250N						Tin-plated							

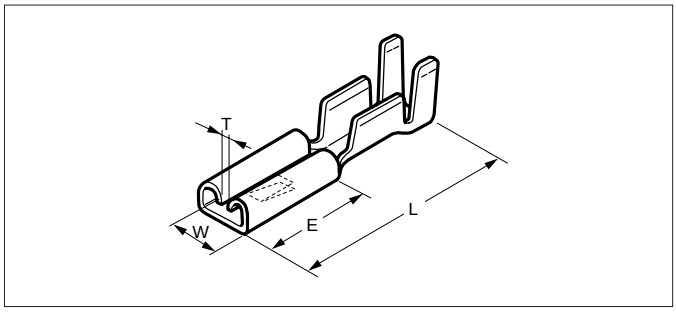
RoHS compliance

Note: 1. Combine a plated tab-in terminal with a plated tab and a non-plated tab-in terminal with a non-plated tab.

2. This terminal must be built into the model 250 tab-in housing which has numerous circuits, and it cannot be used independently. Model 250 tab-on terminals, however, can be used independently.

3. The above case does not apply when we confirm the condition of application and judge that there is no problem.

110 Tab-in type



Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)						Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			W	L	E	T approx.	Material thickness	Mating tab	
STI-01-110N		0.3 to 0.5	22 to 20	2.1 to 2.8	Brass	–	3.7	15.3	6.3	0.7	0.25	SIM-01 (T)-110A	10,000
STI-01T-110N						Tin-plated							
STI-41-110N		0.5 to 1.25	20 to 16	2.6 to 3.5		–						SIM-41 (T)-110B	
STI-41T-110N						Tin-plated							

RoHS compliance

Note: 1. Combine a plated tab-in terminal with a plated tab and a non-plated tab-in terminal with a non-plated tab.

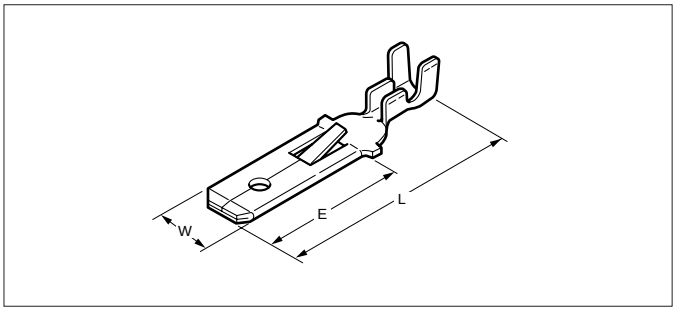
2. This terminal must be built into the model 110 tab-in housing which has numerous circuits, and it cannot be used independently. Model 110 tab-on terminals, however, can be used independently.

Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
STI-51(T)-250N	AP-K2N	MK-L	MK/STI-51-250N	APLMK STI51-250N
		–	–	–
STI-01(T)-110N		MK-L	MK/STI-01-110N	APLMK STI01-110N
		–	–	–

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
STI-41(T)-110N	AP-K2N	MK-L	MK/STI-41-110N	APLMK STI41-110N
		–	–	–

250 Tab-in tab type

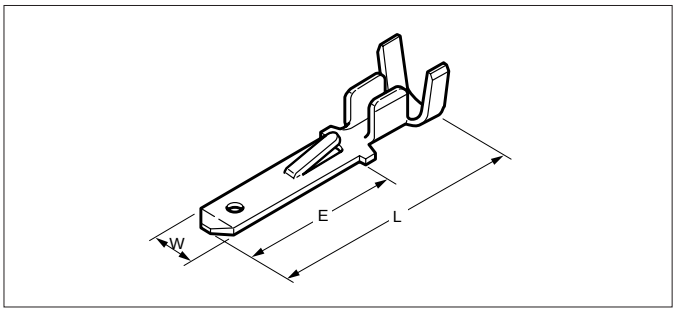


Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			W	L	E	Material thickness	Tab thickness	
SIM-21-250		0.3 to 0.75	22 to 18	2.2 to 3.2	Brass	—	6.0	28.0	15.8	0.4	0.84	5,000
SIM-21T-250						Tin-plated						
SIM-51-250N		0.5 to 2.0	20 to 14	2.6 to 3.8		—	6.0	24.5	13.0	0.4		4,000
SIM-51T-250N						Tin-plated						

RoHS compliance

Note: SIM-21 differs from SIM-51 in terminal size.

110 Tab-in tab type



Listed E70188

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)					Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			W	L	E	Material thickness	Tab thickness	
SIM-01-110A		0.3 to 0.5	22 to 20	2.1 to 2.8	Brass	—	2.8	20.6	12.0	0.5	0.5	7,500
SIM-01T-110A						Tin-plated						
SIM-41-110B		0.5 to 1.25	20 to 16	2.6 to 3.5		—						
SIM-41T-110B						Tin-plated						

RoHS compliance

Crimping machine, Applicator

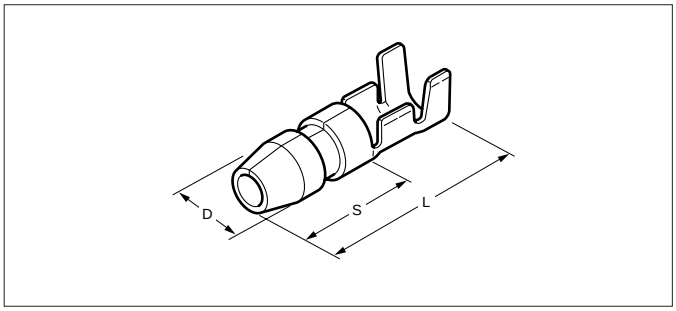
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SIM-21(T)-250	AP-K2N	MK-L	MK/SIM-21-250	APLMK SIM21-250
		–	–	–
SIM-51(T)-250N		MK-L	MK/SIM-51-250N	APLMK SIM51-250N
		–	–	–

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SIM-01(T)-110A	AP-K2N	MK-L	MK/SIM-01-110A	APLMK SIM01-110A
		–	–	–
SIM-41(T)-110B		MK-L	MK/SIM-41-110B	APLMK SIM41-110B
		–	–	–

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

BULLET TERMINAL

Nominal 4.0mm dia. bullet male

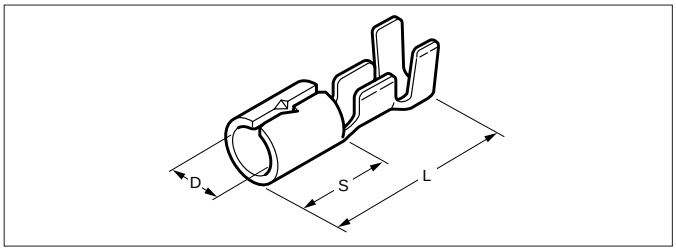


Recognized E60389 Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)				Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			D (dia.)	L	S	Material thickness	
SGM-51-4		0.5 to 2.0	20 to 14	2.6 to 3.8	Brass	—	3.55	15.9	7.3	0.5	5,000
SGM-51T-4						Tin-plated					

RoHS compliance

Nominal 4.0mm dia. bullet female

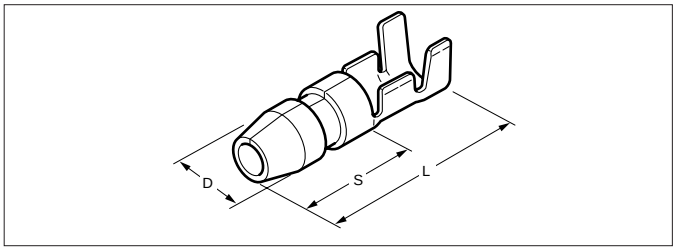


Recognized E60389 Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)				Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			D (dia.)	L	S	Material thickness	
SGF-41-4		0.5 to 1.25	20 to 16	2.6 to 3.5	Brass	—	3.5	17.5	6.4	0.32	7,500
SGF-41T-4						Tin-plated					

RoHS compliance

Nominal 5.0mm dia. bullet male



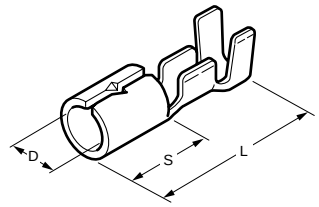
Recognized E60389 Certified LR20812

Model No.	Standard	Applicable wire			Material	Finish	Dimensions(mm)				Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)			D (dia.)	L	S	Material thickness	
SGM-21-5		0.3 to 0.75	22 to 18	1.7 to 2.9	Brass	—	3.96	17.5	8.9	0.5	5,000
SGM-21T-5						Tin-plated					
SGM-51-5		0.5 to 2.0	20 to 14	2.6 to 3.8		—					
SGM-51T-5						Tin-plated					

RoHS compliance

Nominal 5.0mm dia. bullet female

Type A



Recognized E60389 Certified LR20812

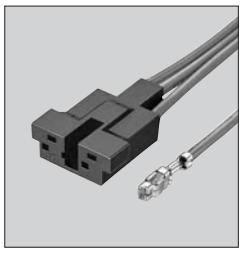
Model No.	Standard	Applicable wire			Material	Type	Finish	Dimensions(mm)				Q´ty / reel
		mm²	AWG #	Insulation O.D. (mm)				D (dia.)	L	S	Material thickness	
SGF-21-5		0.3 to 0.75	22 to 18	1.7 to 2.9	Brass	A	—	3.96	17.5	6.4	0.4	5,000
SGF-21T-5							Tin-plated					
SGF-51-5		0.5 to 2.0	20 to 14	2.6 to 3.8			—					
SGF-51T-5							Tin-plated					

Crimping machine, Applicator

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SGM-51(T)-4	AP-K2N	MK-L	MK/SGM-51-4	APLMK SGM51-4
		–	–	–
SGF-41(T)-4		MK-L	MK/SGF-41-4	APLMK SGF41-4
		–	–	–
SGM-21(T)-5		MK-L	MK/SGM-21-5	APLMK SGM21-5
		–	–	–

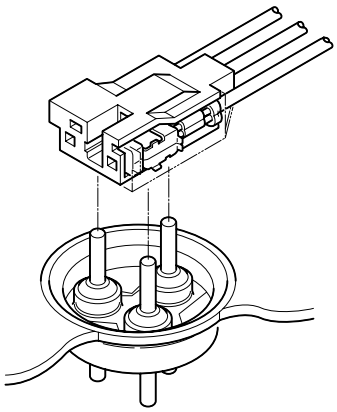
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SGM-51(T)-5	AP-K2N	MK-L	MK/SGM-51-5	APLMK SGM51-5
		–	–	–
SGF-21(T)-5		MK-L	MK/SGF-21-5	APLMK SGF21-5
		–	–	–
SGF-51(T)-5		MK-L	MK/SGF-51-5	APLMK SGF51-5
		–	–	–

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.



CLUSTER SOCKET

Three-pole socket for connecting cluster pins



This three circuit connector is used to connect cluster pins (2.3mm in diameter) to the leads of a motor hermetically sealed in a compressor of a refrigerator or a freezer. The contacts and housing are especially designed and made of high-quality materials for high heat resistance and superior durability.

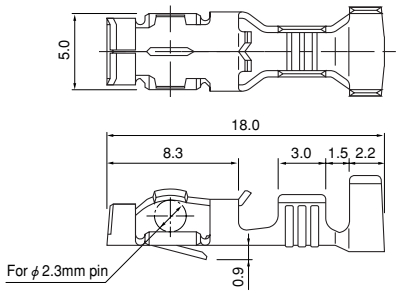
Standards

Recognized E60389

Certified LR20812

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

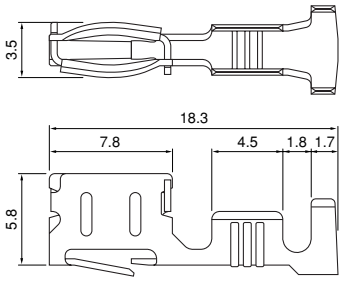
Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q´ty / reel
	mm²	AWG #		
SCS-41T-2.3	0.5～1.25	20～16	1.9～3.4	5,000

Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance



Model No.	Applicable wire		Insulation O.D. (mm)	Q´ty / reel
	mm²	AWG #		
SCSN-41T-P2.3	0.5～1.25	20～16	1.9～3.2	3,000
SCSN-60T-P2.3	0.7mm+0.7mm ～ 1.05mm+1.05mm			3,000

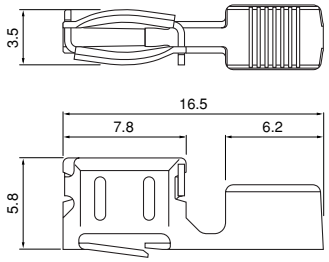
Material and Finish
Phosphor bronze, tin-plated

RoHS compliance

Note: 1. SCSN-60T-P2.3 is for the use of one wire crimping. Contact JST for details of regarding applicable wires.

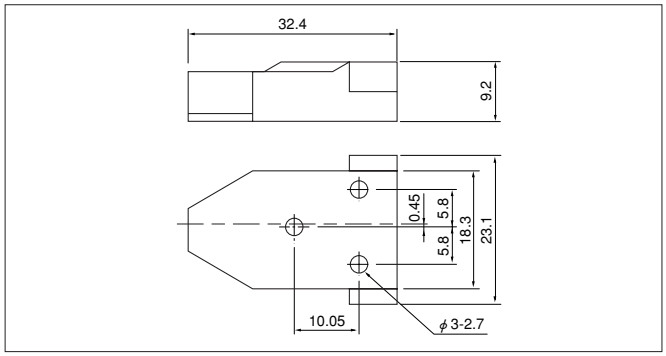
2. Before use, the performance of this socket must be tested with the wire that is to be used.

One wire crimping



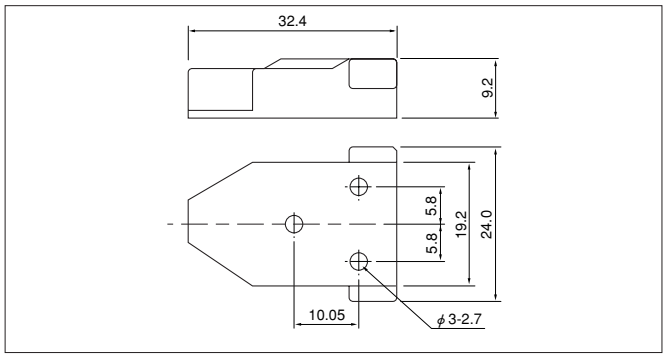
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SCS-41T-2.3	AP-K2N	MK-L	MK/SCS-41-23	APLMK SCS41-23
		—	—	—
SCSN-41T-P2.3		MKS-L	MK/SCSN-41-23	APLMK SCSN41-23
		—	—	—
SCSN-60T-P2.3		MKS-L	MK/SCSN-60-23	APLMK SCSN60-23
		—	—	—

Housing



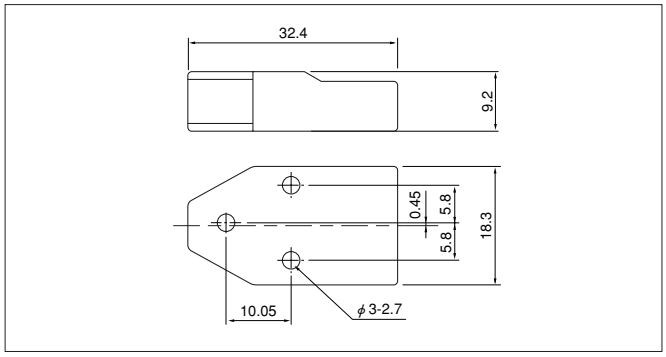
Model No.	Material	Q'ty / bag	Applicable contact
3P-SCS	Phenol, UL94V-1, black	500	SCS-41T-2.3
3P-SCS PBT	PBT, UL94HB, natural (white)		

RoHS compliance



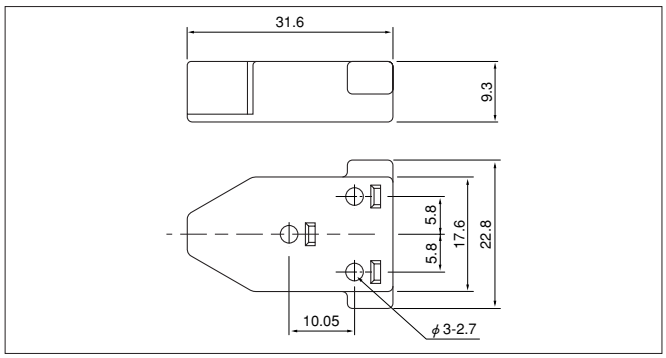
Model No.	Material	Q'ty / bag	Applicable contact
3P-SCS-SP	PBT, UL94HB, natural (white)	500	SCS-41T-2.3

RoHS compliance



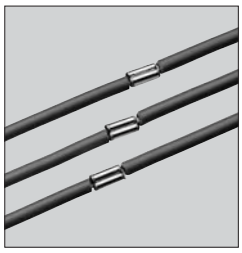
Model No.	Material	Q'ty / bag	Applicable contact
3P-SCS-R PBT	PBT, UL94HB, natural (white)	500	SCS-41T-2.3

RoHS compliance



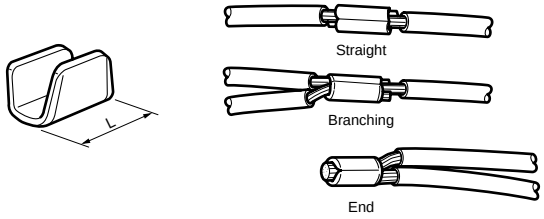
Model No.	Material	Q'ty / bag	Applicable contact
3P-CSN PBT	PBT, UL94HB, natural (white)	500	SCSN-41T-P2.3
3P-CSN MMC	Phenol, UL94V-0, black		SCSN-60T-P2.3

RoHS compliance



SPC SPLICE

Wire-to-wire splices



This wire-to-wire splice is used extensively for straight, branching, and end connections.

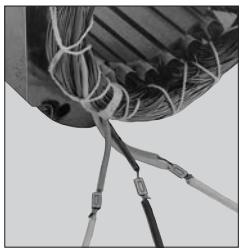
Model No.	Applicable wire(reference) Total cross sectional area(mm²)	Finish	Dimension L (mm)	Thickness (mm)	Q'ty / reel
SPC-01	0.2 ～ 0.5	—	4.2	0.25	12,000
SPC-01T		Tin-plated			
SPC-20	0.4 ～ 1.4	—	5.5	0.5	10,000
SPC-20T		Tin-plated			
SPC-40	0.5 ～ 1.7	—	5.7		
SPC-40T		Tin-plated			

Material
Brass

RoHS compliance

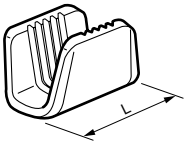
Note: The "Applicable wire" shown above is for reference only. Contact JST for the evaluation test on the wire to be used, especially when using special wires such as solid wires, tin-plated wires, or those of non-annealed copper material.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPC-01(T)	AP-K2N	MKS-L	MK/SPC-01	APLMK SPC01
		—	—	—
SPC-20(T)		MKS-L	MK/SPC-20	APLMK SPC20
		—	—	—
SPC-40(T)		MKS-L	MK/SPC-40	APLMK SPC40
		—	—	—



PIERCING SPLICE

Wire-to-wire splices



This splice, like the SPC terminal, has special channels inside its crimp areas so that insulation-coated windings (magnet wire like enamel-coated wire, etc.) can be electrically connected without removing the insulation coating. It is suited for connections between the windings of motors, relays and other rotating devices, and the connections between the windings and the leads of such devices.

Model No.	Applicable wire(reference) Total cross sectional area(mm²)	Finish	Dimension L (mm)	Thickness (mm)	Q'ty / reel
PSL-40	0.6 ～ 1.0	—	5.5	0.5	10,000
PSL-40T		Tin-plated			
PSL-60	0.7 ～ 1.8	—	5.7		
PSL-60T		Tin-plated			
PSL-80	1.5 ～ 3.5	—	5.5		
PSL-80T		Tin-plated			

Material
Brass

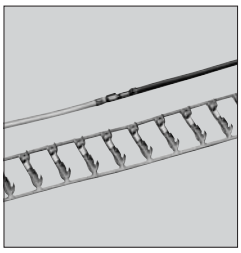
RoHS compliance

Note: 1. The applicable wire size (total sectional area) above serves as a basic guideline. Before use, the performance of this connector must be tested with the wire that is to be used.

2. Do not use this connector to connect more than two magnet wires (enamel-coated wires, etc.).

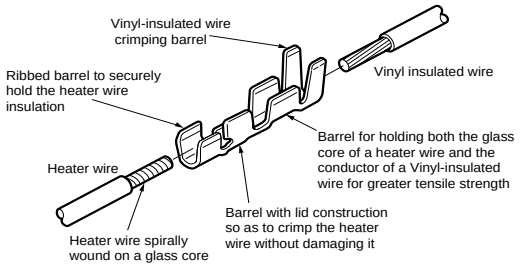
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
PSL-40(T)	AP-K2N	MKS-L	MK/PSL-40	APLMK PSL40
		—	—	—
PSL-60(T)		MKS-L	MK/PSL-60	APLMK PSL60
		—	—	—
PSL-80(T)		MKS-L	MK/PSL-80	APLMK PSL80
		—	—	—

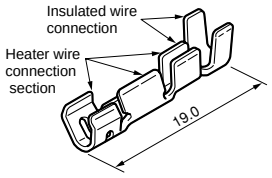
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.



SPLICE FOR HEATER WIRES

Splices for vinyl-insulated wires and heater wires





This splice is used to connect a vinyl-insulated wire to a defrosting heater wire of a refrigerator or a freezer.
The barrel of the splice has a lid feature that prevents the heater wire from being damaged or broken during crimping. This ensures a reliable and stable connection.
Various heater connectors are also available.

Model No.	Applicable wire(reference)	Finish	Q'ty / reel
SHC-21-001	Heater wire + Vinyl-insulated wire (Thin insulation) (0.3～0.75mm²)	–	5,000
SHC-21T-001		Tin-plated	
SHC-21-002	Heater wire + Vinyl-insulated wire (Thick insulation) (0.3～0.75mm²)	–	
SHC-21T-002		Tin-plated	

Material
Brass

RoHS compliance
Note: Before use, the performance of this splice must be tested with the wire that is to be used.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SHC-21(T)-001	AP-K2N	MKS-L-HC	MK/SHC-21-001/002	APLMK SHC21-001/002
SHC-21(T)-002		—	—	—

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

PS CONNECTOR

Connectors for tabs

- ***Secure locking, easy insertion***
- ***Stable contact performance***
- ***Mis-insertion prevention mechanism and housing lance***

Standards

Recognized E60389

Certified LR20812

R9850196

Specifications

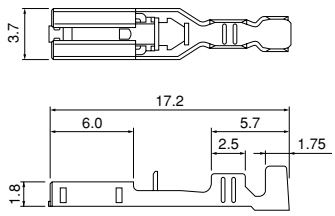
- Current rating: 25A AC, DC(#250 + AWG #10)
- Voltage rating: 250V AC, DC
- Temperature range: -40˚C to +105˚C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 3m Ω max. After environmental testing/ 6m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 2,000V AC/ minute
- Applicable wire: #110...AWG #24 to #16
  #187...AWG #26 to #14
  #205...AWG #22 to #14
  #250...AWG #22 to #10
- Applicable Tab: #110 Tab 0.5mm thick
  #187 Tab 0.5mm/0.8mm thick
  #205 Tab 0.5mm/0.8mm thick
  #250 Tab 0.8mm thick

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

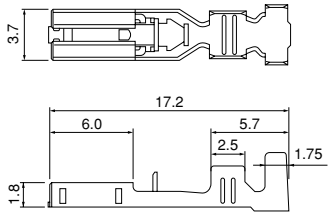
Contact

#110 Series

SPS-01T-110



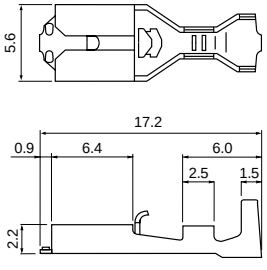
SPS-41T-110



#187 Series

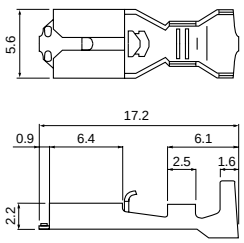
SPS-01T-187

(for 0.5mm thick tabs)



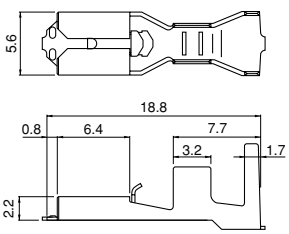
SPS-51T-187

(for 0.5mm thick tabs)



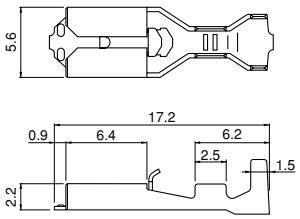
SPS-82T-187

(for 0.5mm thick tabs)



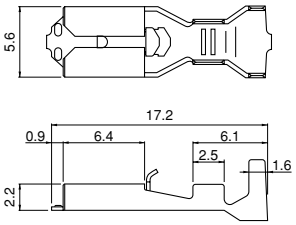
SPS-01T-187-8

(for 0.8mm thick tabs)



SPS-51T-187-8

(for 0.8mm thick tabs)



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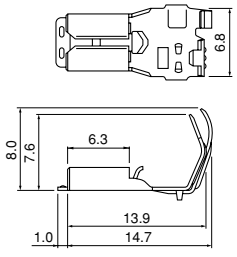
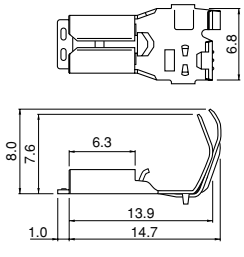
SFPS-41T-187

(for 0.5mm thick tabs)



SFPS-41T-187-8

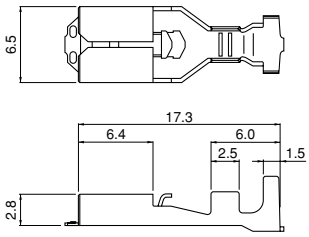
(for 0.8mm thick tabs)



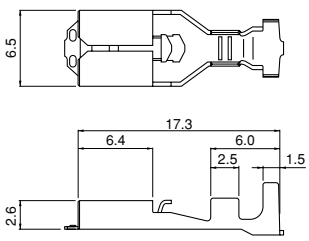
Contact

#205 Series

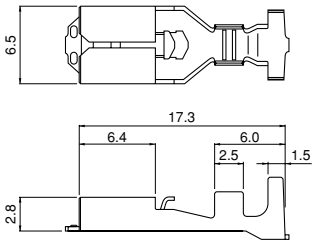
SPS-21T-205
(for 0.8mm thick tabs)



SPS-21T-205-5
(for 0.5mm thick tabs)

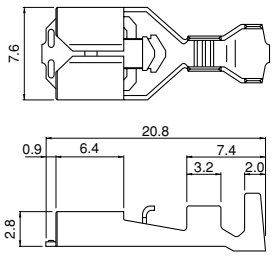


SPS-51T-205
(for 0.8mm thick tabs)

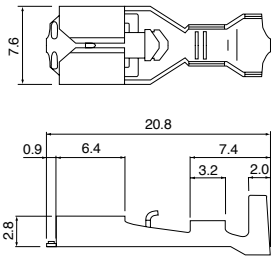


#250 Series

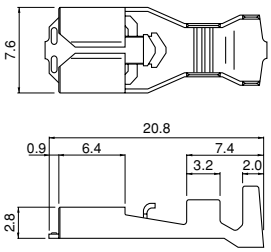
SPS-21T-250



SPS-61T-250



SPS-91T-250



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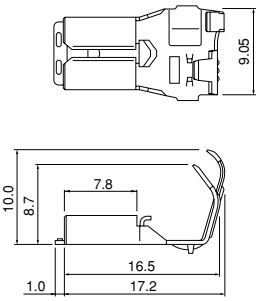
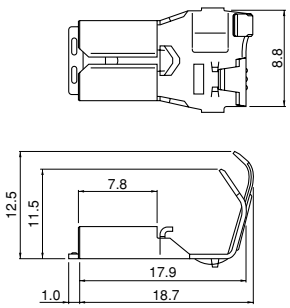
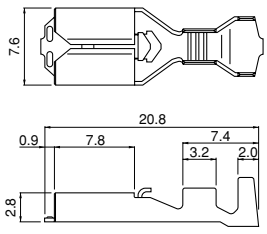


SFPS-91T-250

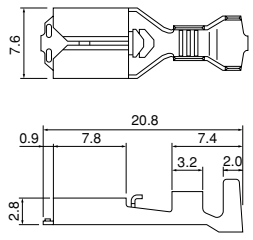


#250S Series

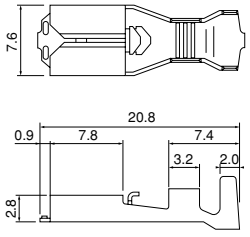
SPS-21T-250S



SPS-61T-250S



SPS-91T-250S



Contact

Series		Model No.	Applicable wire		Insulation O.D.(mm)	Q'ty / reel
			mm²	AWG #		
#110		SPS-01T-110	0.21～0.5	24～20	1.0～2.5	10,000
		SPS-41T-110	0.5 ～1.31	20～16	1.9～3.4	10,000
#187	for 0.5mm thick tabs	SPS-01T-187	0.13～0.5	26～20	1.3～3.4	10,000
		SPS-51T-187	0.5 ～2.0	20～14	1.9～3.6	7,500
		SPS-82T-187	0.75+0.75～1.25+1.25	18+18～16+16	2.1+2.1～2.9+2.9	3,500
	for 0.8mm thick tabs	SPS-01T-187-8	0.13～0.5	26～20	1.3～3.4	10,000
		SPS-51T-187-8	0.5 ～2.0	20～14	1.9～3.6	7,500
#187 flag	for 0.5mm thick tabs	SFPS-41T-187	0.3 ～1.25	22～16	1.7～3.4	5,000
	for 0.8mm thick tabs	SFPS-41T-187-8	0.3 ～1.31	22～16	1.7～3.4	5,000
#205	for 0.8mm thick tabs	SPS-21T-205	0.3 ～0.75	22～18	1.5～3.1	5,000
	for 0.5mm thick tabs	SPS-21T-205-5	0.3 ～0.75	22～18	1.5～3.1	5,000
	for 0.8mm thick tabs	SPS-51T-205	0.5 ～2.0	20～14	1.9～3.6	5,000
#250		SPS-21T-250	0.3 ～0.75	22～18	1.5～3.1	5,000
		SPS-61T-250	0.75～2.0	18～14	2.1～3.9	5,000
		SPS-91T-250	2.0 ～5.5	14～10	3.0～4.7	4,000
#250 flag		SFPS-61T-250	0.75～2.0	18～14	2.1～3.9	3,000
		SFPS-91T-250	3.5 ～5.5	12～10	4.0～5.2	2,000
#250S		SPS-21T-250S	0.3 ～0.75	22～18	1.5～3.1	5,000
		SPS-61T-250S	0.75～2.0	18～14	2.1～3.9	5,000
		SPS-91T-250S	2.0 ～5.5	14～10	3.0～4.7	4,000

Material and Finish
Brass, tin-plated (reflow treatment)

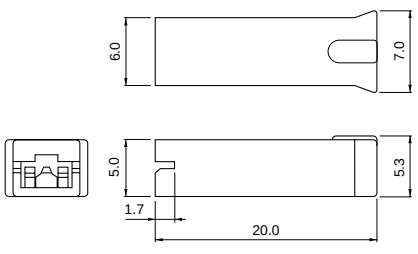
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPS-01T-110	AP-K2N	MK-L-SPS	MK/SPS-01-110	APLMK SPS01-110
		—	—	—
SPS-41T-110		MK-L-SPS	MK/SPS-41-110	APLMK SPS41-110
		—	—	—
SPS-01T-187(-8)		MK-L-SPS	MK/SPS-01-187	APLMK SPS01-187
		—	—	—
SPS-51T-187(-8)		MK-L-SPS	MK/SPS-51-187	APLMK SPS51-187
		—	—	—
SPS-82T-187		MK-L-SPS	MK/SPS-82-187	APLMK SPS82-187
		—	—	—
SFPS-41T-187(-8)		MKF-L-PS187	MK/SFPS-41-187	APL SFPS41-187
		—	—	—
SPS-21T-205(-5)		MK-L-SPS	MK/SPS-21-205	APLMK SPS21-205
		—	—	—

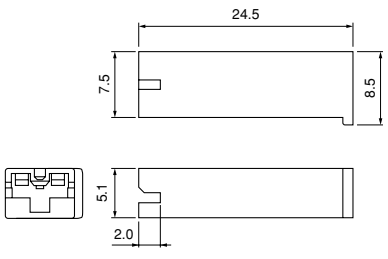
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SPS-51T-205	AP-K2N	MK-L-SPS	MK/SPS-51-205	APLMK SPS51-205
		—	—	—
SPS-21T-250(S)		MK-L-SPS	MK/SPS-21-250	APLMK SPS21-250
		—	—	—
SPS-61T-250(S)		MK-L-SPS	MK/SPS-61-250	APLMK SPS61-250
		—	—	—
SPS-91T-250(S)		MK-L-SPS	MK/SPS-91-250	APLMK SPS91-250
		—	—	—
SFPS-61T-250		MKF-L-PS250	MK/SFPS-61-250	APL SFPS61-250
		—	—	—
SFPS-91T-250		MKF-L-PS9250	MK/SFPS-91-250	APL SFPS91-250
		—	—	—

Housing

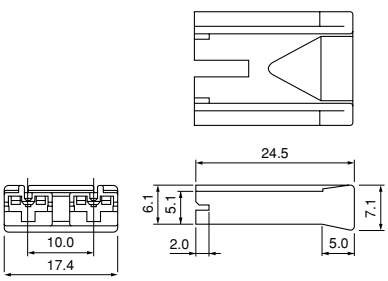
#110 Series
PS-110



#187 Series
PS-187



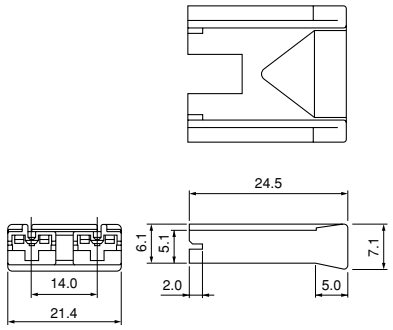
PS-187-2A-10



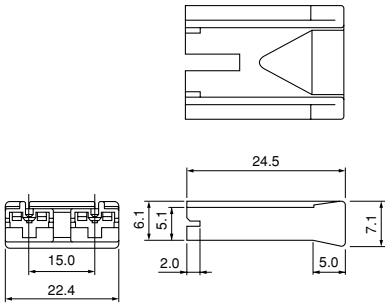
Housing

#187 Series

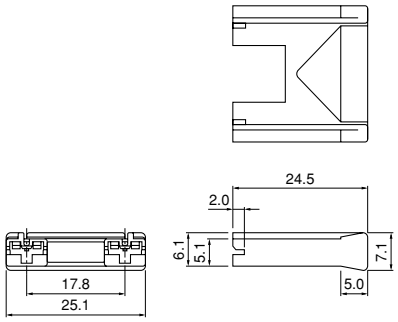
PS-187-2A-14



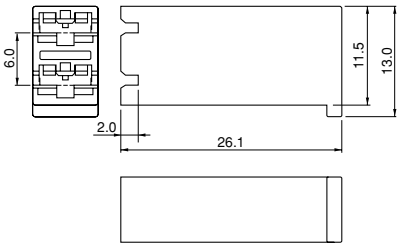
PS-187-2A-15



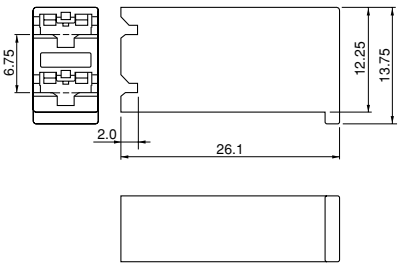
PS-187-2A-17.8



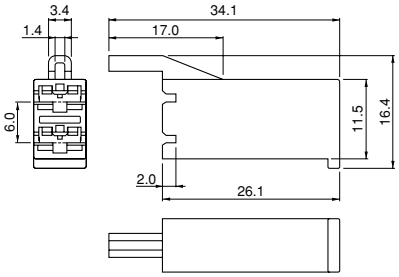
PS-187-2B



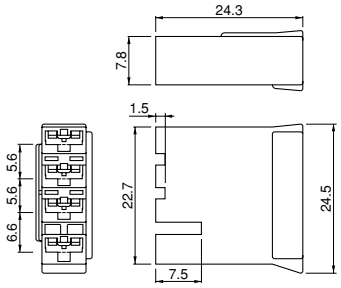
PS-187-2B-6.75



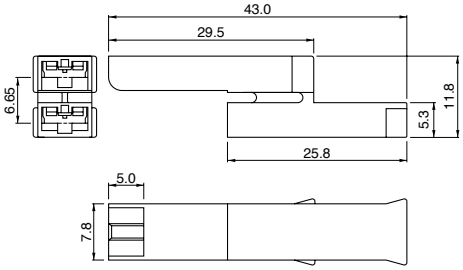
PS-187-2B1



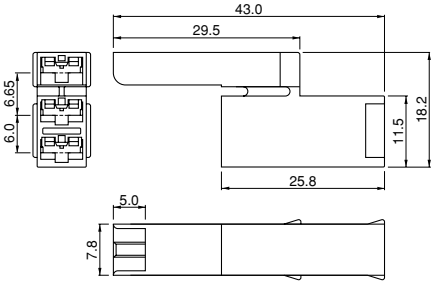
PS-187-4B



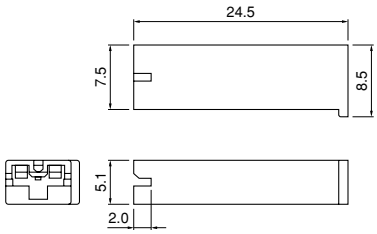
PS-187-2V



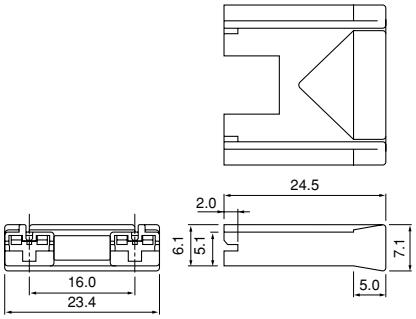
PS-187-3V



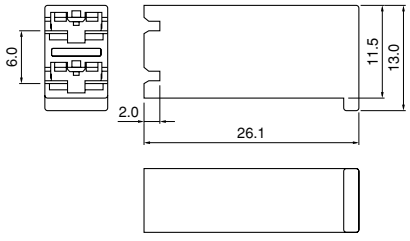
PS-187-8-T-H



PS-187-2A-16-8-T-H



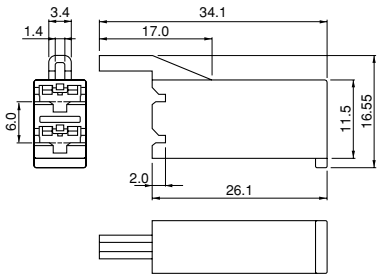
PS-187-2B-8-T-H



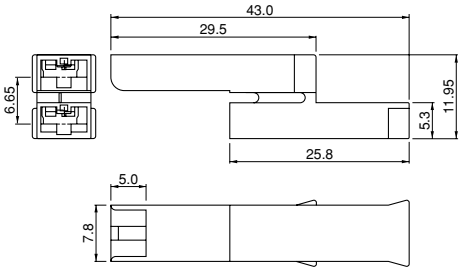
Housing

#187 Series

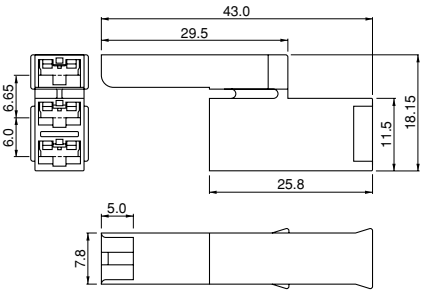
PS-187-2B1-8-T-H



PS-187-2V-8-T-H

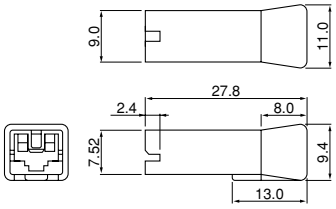


PS-187-3V-8-T-H



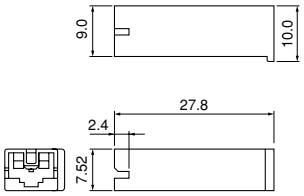
#250S Series

NPS-250-A

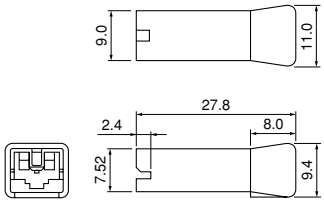


#250 Series

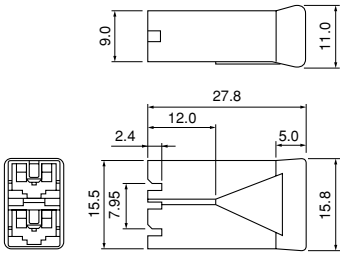
PS-250



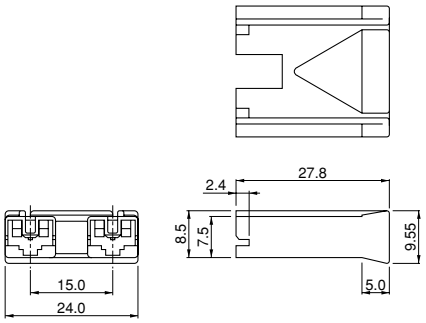
PS-250-A



PS-250-2B

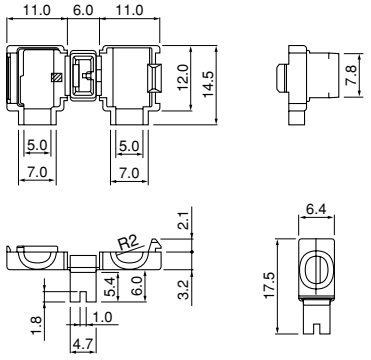


PS-250-2A-15

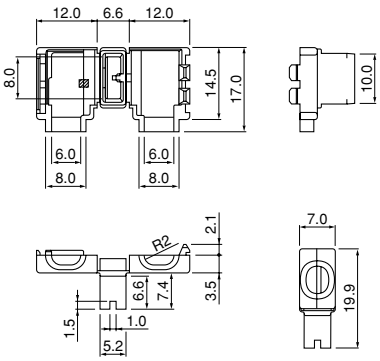


One-touch sleeve

FPS-187



FPS-250



Housing

Series	Model No.	Q'ty / bag	Applicable terminal
#110	**PS-110**	1,000	**SPS-01T-110, SPS-41T-110**
#187	**PS-187**	1,000	**SPS-01T-187** **SPS-51T-187** **SPS-82T-187**
	PS-187-2A-10	500	
	PS-187-2A-14	500	
	PS-187-2A-15	500	
	PS-187-2A-17.8	500	
	PS-187-2B	500	
	PS-187-2B-6.75	500	
	PS-187-2B1	500	
	PS-187-4B	500	
	PS-187-2V	500	
	PS-187-3V	500	
	***PS-187-8-T-H**	1,000	**SPS-01T-187-8** **SPS-51T-187-8**
	***PS-187-2A-16-8-T-H**	500	
	***PS-187-2B-8-T-H**	500	
	***PS-187-2B1-8-T-H**	500	
	***PS-187-2V-8-T-H**	500	
	***PS-187-3V-8-T-H**	500	
#250S	**NPS-250-A**	1,000	**SPS-21T-250S** **SPS-61T-250S** **SPS-91T-250S**
#250	**PS-250**	1,000	**SPS-21T-250** **SPS-61T-250** **SPS-91T-250**
	PS-250-A	500	
	PS-250-2B	500	
	PS-250-2A-15	500	
One-touch sleeve	**FPS-187**	500	**SFPS-41T-187**
	FPS-250	500	**SFPS-61T-250**

Material and Finish
PA 66, UL94V-0, natural (white) UL94V-2, gray <*-marked housing...for 0.8mm thick tabs>

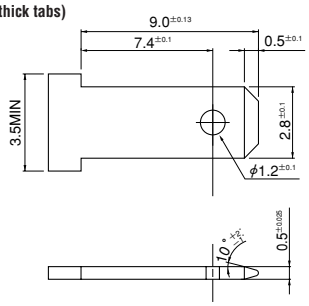
RoHS compliance

Note: FPS-187 and FPS-250 are UL recognized with File No. E55167, but not CSA certified.

Applicable tab

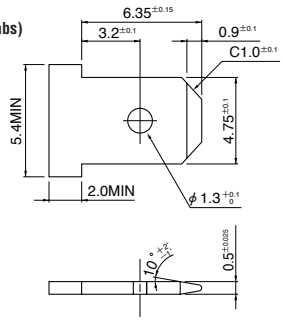
#110

(for 0.5mm thick tabs)

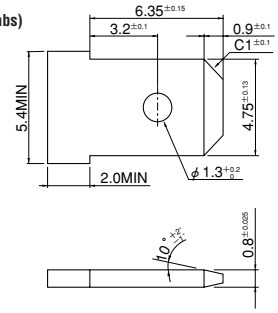


#187

(for 0.5mm thick tabs)

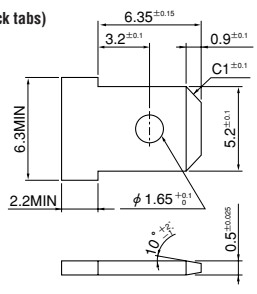


(for 0.8mm thick tabs)

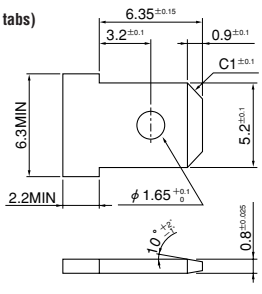


#205

(for 0.5mm thick tabs)

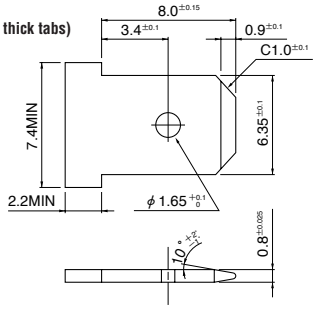


(for 0.8mm thick tabs)



#250

(for 0.8mm thick tabs)

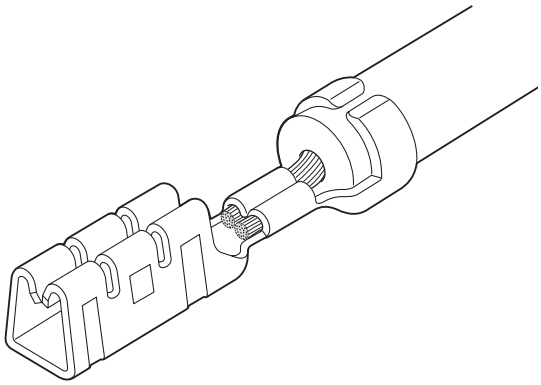


Note: 1. Contact JST when using PS connector for Micro-switch.

2. Make sure there are no unneeded ribs or other protuberances on tab surfaces.

3. Contact JST when using PS-187-4B.

IG CONNECTOR



This is to connect ignition plug (size 2.0mm dia.) of the Hot Water Supply and Heater.

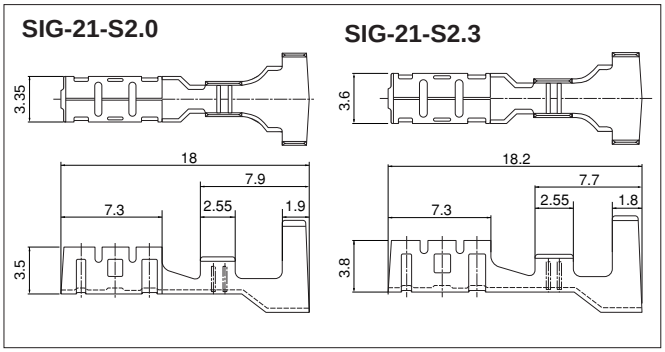
- ***Easy connection***
- ***Reliable contact resistance***
- ***Excellent durability***

Specifications

- Current rating: 320mA AC, DC (Stainless steel)
  5A AC, DC (Copper alloy)
- Voltage rating: 23KV AC, DC (Stainless steel)
  200V AC, DC (Copper alloy)
- Temperature range: -20˚C to +200˚C (including temperature rise in applying electrical current) (Stainless steel)
  -20˚C to +150˚C (including temperature rise in applying electrical current) (Copper alloy)
- Contact resistance: Initial value/100m Ω max.
  After environmental testing/150m Ω max.
- Applicable wire: AWG #22 to #18

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

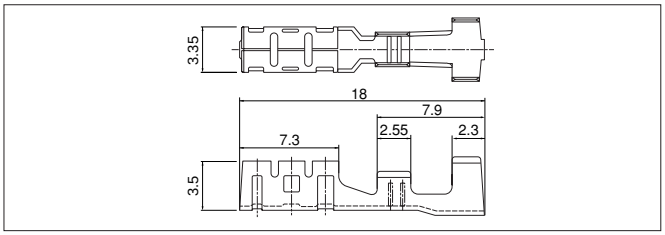
Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q´ty / reel
	Applicable wire	AWG#		
SIG-21-S2.0	0.3～0.89	22～18	3.5～5.5	4,000
SIG-21-S2.3	0.3～0.89	22～18	3.5～5.5	4,000

Material
Stainless steel

RoHS compliance

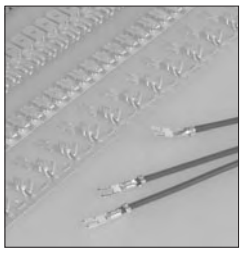


Model No.	Applicable wire		Insulation O.D. (mm)	Q´ty / reel
	mm²	AWG#		
SIG-21T-M2.0T	0.3～0.89	22～18	1.2～3.5	4,000

Material and Finish
Copper alloy, tin-plated (reflow treatment)

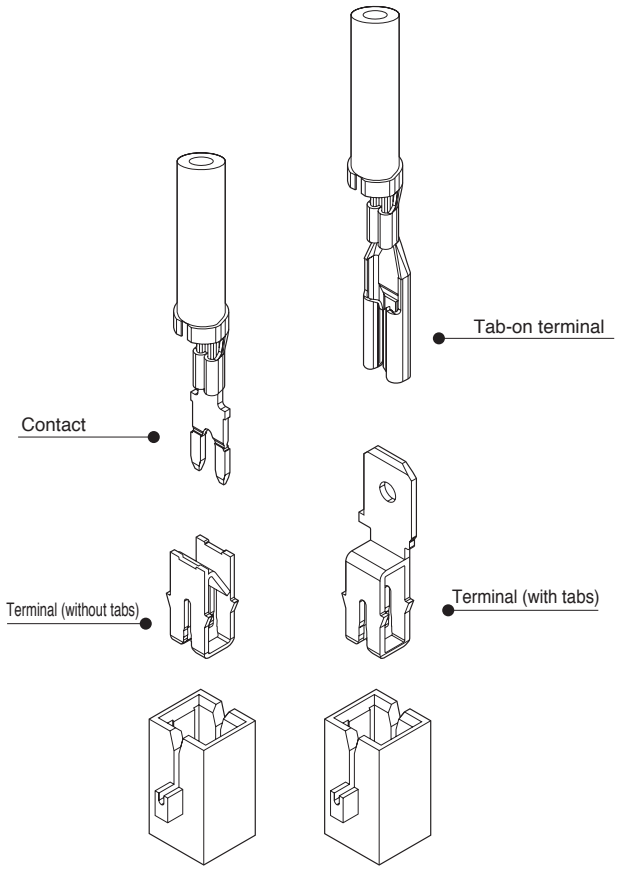
RoHS compliance

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SIG-21-S2.0	AP-K2N	MK-L-SPS	MK/SIG-21-S20	APLMK SIG21-S20
		—	—	—
SIG-21-S2.3		MK-L-SPS	MK/SIG-21-S20	APLMK SIG21-S20
		—	—	—
SIG-21T-M2.0T		MK-L-SPS	MK/SIG-21-20T	APLMK SIG21-20T
		—	—	—



MG CONNECTOR

MG connector typical connection method and kind



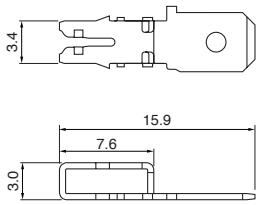
MG connector is designed for connecting copper magnetic wire and used in various insulation coating.
Insertion of various magnetic wires is easy and efficient, and MG connector provides excellent electrical connection.

- ***No coating removing treatment in advance***
- ***Stable connection***
- ***Reliable electrical performance***

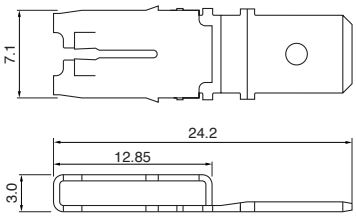
* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.

Terminal

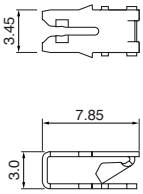
With tab/#187



With tab/#250



Without tab



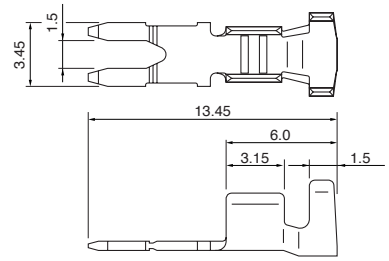
Type	Model No.		Applicable wire (Reference)		Q´ty /reel
		Tin-plated	Conductor O.D. (mm)	AWG #	
With tabs	#187...for 0.5mm thick tabs	**MGT-10T-187**	0.36～0.57	27～23	10,000
		MGT-15T-187	0.64～0.81	22～20	10,000
		MGT-24T-187	0.91～1.29	19～16	10,000
	#250...for 0.8mm thick tabs	**MGT-24T-250**	0.91～1.29	19～16	5,000
Without tabs	—	**MGT-6TN**	0.25～0.36	30～27	10,000
	—	**MGT-10TN**	0.36～0.57	27～23	10,000
	—	**MGT-15TN**	0.64～0.81	22～20	10,000
	—	**MGT-24TN**	0.91～1.15	19～17	10,000

Material and Finish
Copper alloy, copper-undercoated, tin-plated

RoHS compliance *MGT-( )T-187 displays (SN) on a label.*

Note: The applicable wire size above serves as a basic guideline. Before use, performance of this connector must be tested with the wire and housing that is to be used.

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q´ty /reel
	mm²	AWG #		
SMG-21T	0.33～0.83	22～18	1.5 ～2.9	6,000

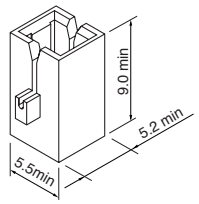
Material and Finish
Copper alloy, copper-undercoated, tin-plated

RoHS compliance

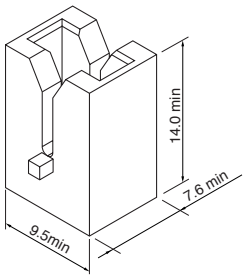
Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SMG-21T	AP-K2N	MKS-L	MK/SMG-21	APLMK SMG21
			MK/SMG-21-B	APLMK SMG21-B

Recommended housing

Type 1



Type 2



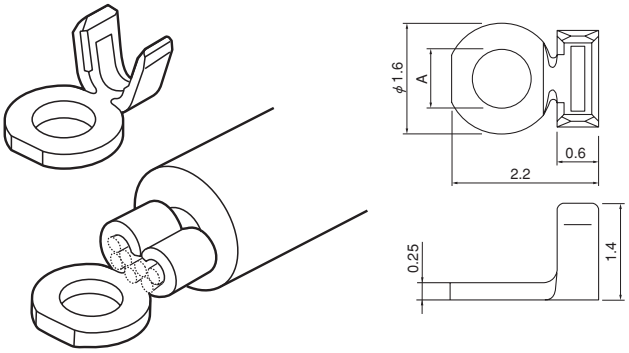
Name	Applicable terminal	Material
Type 1	**MGT-10T-187**	Glass filled engineering plastics
	MGT-15T-187	
	MGT-24T-187	
	MGT-6TN	
	MGT-10TN	
	MGT-15TN	
	MGT-24TN	
Type 2	**MGT-24T-250**	

RoHS compliance

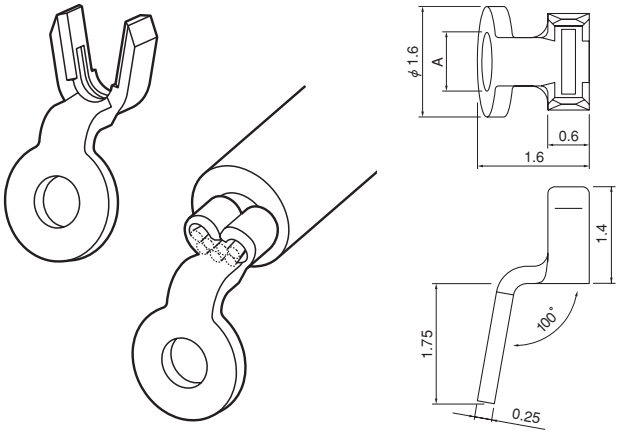
Note: Contact JST for details.

LCD BACK-LIGHT TERMINAL

Straight type



Bent type



- ***Provides soldering connection between the Dumet wire and lend wire of the LCD Back-light CCFT.***
- ***Improves quality and shortens lead-time by crimping both ends and there is no need for the rounding process of the lead wire.***
- ***Also applicable to other connections between the pin and lead wire of the Solenoid or Coil inside small equipment such as Digital Cameras.***
- ***Post plating feature provides tin/lead plating inside the ring and ensures reliable solder abillty.***
- ***Five types are available for different sizes of Dumet wire.***

	Straight type	Dimension A	Bent type	Dimension A
Model No.	**SRI-00T-0.5**	φ0.5	**SRI-00T-0.5L**	φ0.5
	SRI-00T-0.6	φ0.6	**SRI-00T-0.6L**	φ0.6
	SRI-00T-0.7	φ0.7	**SRI-00T-0.7L**	φ0.7
	SRI-00T-0.9	φ0.85	**SRI-00T-0.9L**	φ0.85
	SRI-00T-1.0	φ0.95	**SRI-00T-1.0L**	φ0.95
Material and Finish	Copper alloy, nickel-undercoated, tin/copper alloy-plated			
Q'ty / reel	30,000		16,000	
Applicable wire	AWG#28～#24（0.08mm²～0.22mm²）			
Crimping tool	Crimping machine/ AP-K2N Applicator/ MKS-L Dies/ SRI-00 (Straight type), SRI-00-L (Bent type) Crimp applicator with dies/ APLMK SRI-00, APLMK SRI-00-L			

RoHS compliance *This product displays (LF) on a label.*

* RoHS compliant products are published.
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.