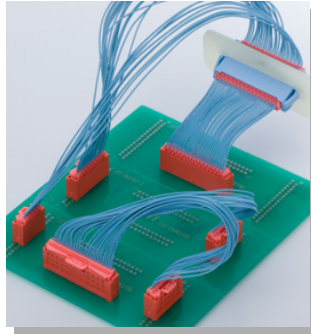


TCS connector

1mm pitch

- < Type >
- With secure locking device
- < Current rating >
- 2A (AWG#26)
- < Voltage rating >
- 50V

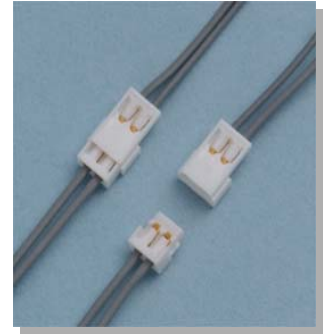


Secure locking structure
Countermeasure for unexpected prying insertion

ACH connector (W to W)

1.2mm pitch

- < Type >
- Crimp style, With locking device
- < Current rating >
- 2A
- < Voltage rating >
- 50V

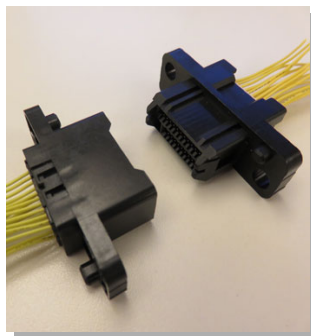


This is the wire-to-wire connector for DC power supply.

RWM connector

1.5mm pitch

- < Type >
- Drawer connector, Double-row
- Crimp style, Disconnectable type
- < Current rating >
- Signal circuit/1.0A (AWG#26)
- < Voltage rating >
- Signal circuit/50V

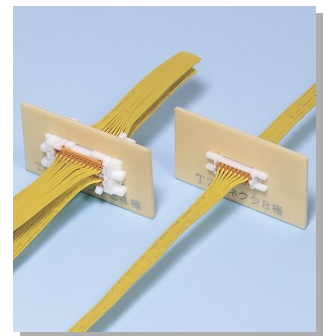


This connector is a dual row type drawer connector with combined signal to connect the units and absorbs misalignment between units.
This is drawer connector suitable for the place which is few in insertion and withdrawal cycles.

TZ/TZW connector

1.5mm pitch

- < Type >
- Convertible unit into W to W connection, Matable with CZ receptacle, With panel locking device
- < Current rating >
- 2A (AWG#26)
- < Voltage rating >
- 100V

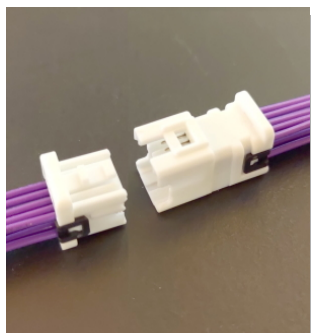


These are the single-row/Dual-row units to connect each socket among the insulation displacement type CZ/CZW connectors or the crimp type CZH/CZHW connectors with 1.5 mm pitch. These units improve the degree of freedom in designing the wiring inside the equipment.

ZIM connector

1.5mm pitch

- < Type >
- Crimp style, With inner type secure locking device
- Inertial lock structure
- < Current rating >
- 2A (AWG#24)
- < Voltage rating >
- 100V

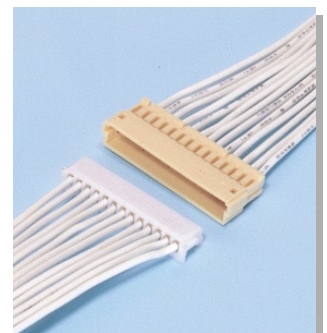


This is wire-to-wire connector with 1.5 mm pitch dual-row construction.
It is hardly affected by external forces and prevents the lock from coming off.

ZM connector

1.5mm pitch

- < Type >
- Crimp style
- < Current rating >
- 0.7A (AWG#28)
- < Voltage rating >
- 50V

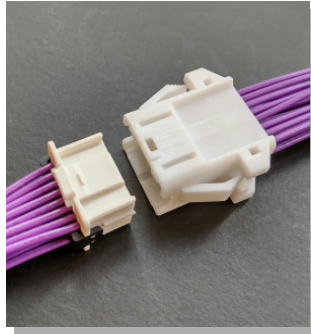


This is a space-saving 1.5 mm pitch wire-to-wire connector that mates with both crimp and IDC type sockets. The fully shrouded structure is resistant to irregular external forces such as prying during insertion and withdrawal.

ZND connector (Wire-to-Wire)

1.5mm pitch

- < Type >
 - Crimp style, Double-row, With secure locking device
 - Crimp style, Compact type
- < Current rating >
2A (AWG#24)
- < Voltage rating >
100V



This is the 1.5 mm pitch dual-row type wire-to-wire connector with secure locking device that is correspondent to the high-density equipment design. A good mating feel makes the occurrence of incomplete mating suppressed.

ZWP connector

1.5mm pitch

- < Type >
 - Crimp style, With inner type secure locking device
 - Crimp style, Waterproof connector
- < Current rating >
2A (AWG#24)
- < Voltage rating >
50V



This is the waterproof type 1.5 mm pitch wire-to-wire connector incorporating the inner lock structure.

JWPF connector (Wire-to-Wire)

2mm pitch

- < Type >
 - Crimp style, Waterproof connector
- < Current rating >
3A (AWG#22)
- < Voltage rating >
100V

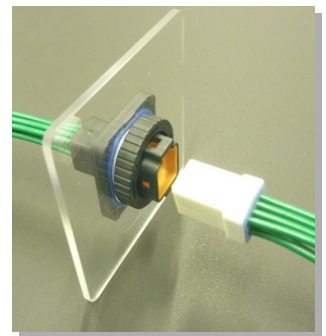


This JWPF connector can be used for the place of which especially waterproof is required. This is wire-to-wire connector and has water ingress protection with an IPX7 rating per IEC 60529 (grade 7 per JIS C 0920).

JWPF connector (Wire-to-Wire, Panel lock type)

2mm pitch

- < Type >
 - Crimp style, With panel locking device
 - Crimp style, Waterproof connector
- < Current rating >
3A (AWG#22)
- < Voltage rating >
100V

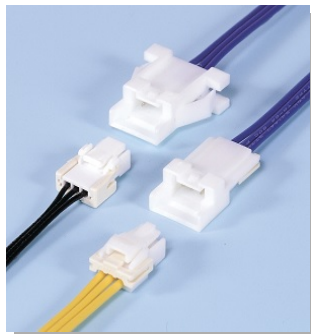


This is a panel lock type 2.0 mm pitch wire-to-wire connector with water ingress protection with an IPX7 rating per IEC 60529 (grade 7 per JIS C 0920), suitable for use for the place of which waterproof is required.

PAL connector

2mm pitch

- < Type >
 - Crimp style, With secure locking device
- < Current rating >
3A (AWG#22)
- < Voltage rating >
100V

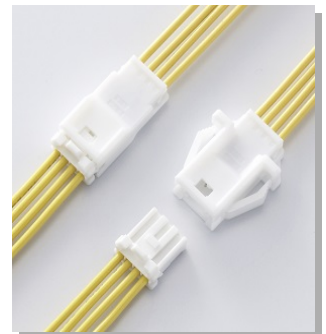


This is a plug type crimp style connector for wire-to-wire in the 2.0 mm pitch PA family connectors with secure locking device. It is applicable for mating with both crimp and insulation displacement style PAF connector socket. Two types connector such as a panel lock with retainer mountable type and a free hanging type can be prepared.

PNI connector (Wire-to-Wire)

2mm pitch

- < Type >
 - Crimp style, With secure locking device
 - Inertial lock structure
- < Current rating >
3A (AWG#22)
- < Voltage rating >
100V



This connector is a 2.0 mm pitch wire-to-wire connector, having incomplete mating prevention mechanism.

TR/TRW connector

2mm pitch

- < Type >
- Crimp style, With panel locking device
- < Current rating >
- 1.0A (AWG#26)
- < Voltage rating >
- 100V



With panel lock devices <applicable to 0.8mm to 2.0mm thick panels>
*Crimp style PHN and insulation displacement KR/CR connector receptacles can be accommodated by the TR connector.

JFA connector J1000 Series (W to W)

2.2mm pitch

- < Type >
- Crimp style
- < Current rating >
- 6.4A (3 circuits/AWG#18)
- < Voltage rating >
- 125V:J1100series
- 250V:J1800series

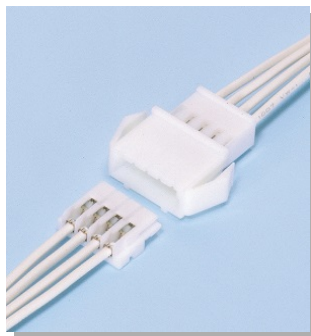


Connectors for signal circuit or power supply circuit, applicable to the factory automation, heavy electric machinery, and other industrial equipment in general. In spite of various kinds of housings available, their contacts are designed to be common. The applicable tooling can be standardized.

HM connector

2.5mm pitch

- < Type >
- Mates with crimp style/IDC style HR receptacle
- < Current rating >
- Insulation displacement HR/2A,
- Crimp style HR/3A
- < Voltage rating >
- 250V



Introducing a 2.5mm pitch plug styled wire-to-wire HM connector that supports both HR crimp and HR insulation displacement receptacles which is cost-efficient and highly reliable.

JFA connector J2000 Series (W to W)

2.5mm pitch

- < Type >
- Crimp style
- < Current rating >
- MAX 4.6A (3 circuits/AWG#20)
- < Voltage rating >
- 250V

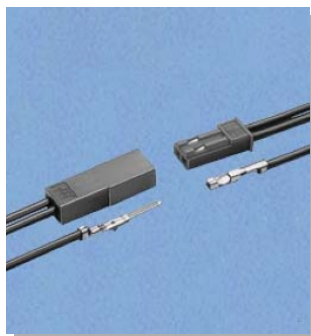


Connectors for miniaturization of electronic equipment. Center locking and side locking options can be used depending on the required application. Receptacle and tab contacts are designed to be common with all JFA connector J2000 series.

RCY connector

2.5mm pitch

- < Type >
- Crimp style, With locking device
- < Current rating >
- MAX 3A
- < Voltage rating >
- MAX250V

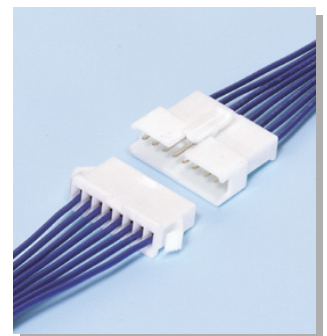


Space-saving and low-profile 2.5 mm pitch wire-to-wire connector.
The free spring in the socket contact ensures excellent insertion/withdrawal operation and stable contact performance.

SM connector

2.5mm pitch

- < Type >
- Crimp style, With locking device
- < Current rating >
- MAX 3A
- < Voltage rating >
- MAX250V

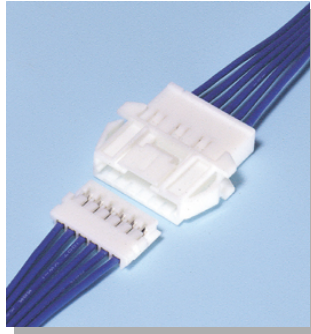


- *High contact pressure
- *Secure lock mechanism
- *Mountable on panels of various thickness without using tools.
- *The contacts are individually surrounded by housing walls.

THR connector

2.5mm pitch

- < Type >
- Matable with HR receptacle
- < Current rating >
- Insulation displacement
- HR/MAX 2A
- Crimp style HR/MAX 3A
- < Voltage rating >
- MAX250V

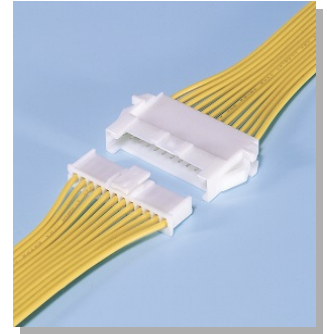


Matable with HR sockets
 *Both crimp style and insulation displacement HR connector sockets can be accommodated by the THR connector.
 *Secure lock mechanism
 *Mountable on panels of various thickness without using tools

XA connector (Wire-to-Wire)

2.5mm pitch

- < Type >
- Crimp style, With secure locking device
- < Current rating >
- 3A (AWG#22,#20)
- < Voltage rating >
- 250V



This is a 2.5 mm pitch wire-to-wire connector which the socket is common with XA connector for wire-to-board connection. In addition to two types of free hanging and panel mount, this product also provides a lineup of retainer compatible products.

XAD connector (Wire-to-Wire)

2.5mm pitch

- < Type >
- Crimp style, Double-row, With secure locking device
- < Current rating >
- 3A (AWG#20)
- < Voltage rating >
- 250V

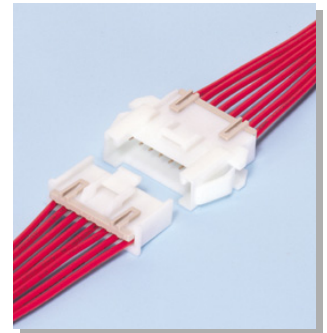


This is dual-row panel mountable wire-to-wire connector for the XAD connector for printed circuit board (wire side).

XM connector (W to W)

2.5mm pitch

- < Type >
- Crimp style, With inner type secure locking device
- < Current rating >
- 3A
- < Voltage rating >
- 250V

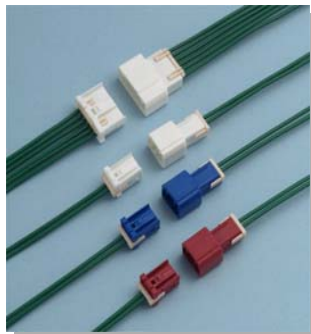


*The inner-housing lock secures the plug to the receptacle and prevents accidental disconnection.
 *Secondary retainers provide added protection against non-insertion or disconnection.
 *Housing lances
 *Mountable on panels of various thickness without using tools.

XMA connector

2.5mm pitch

- < Type >
- Crimp style, With locking device
- < Current rating >
- 3A (AWG#22)
- < Voltage rating >
- 250V

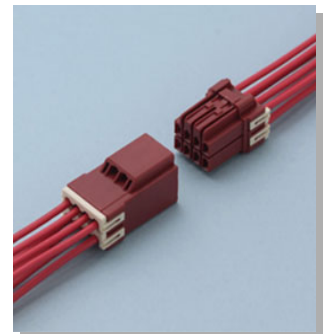


This connector is a 2.5mm pitch wire-to-wire connector, having incomplete mating prevention mechanism. 2-circuit and 3-circuit connectors have control key to prevent connector from mating with incorrect circuits, thus, several same circuit connectors can be used.

HIL connector

3.3mm pitch

- < Type >
- Crimp style, With inertia force mechanism with secure locking device
- < Current rating >
- 5A (2 circuits/AWG#18)
- < Voltage rating >
- 300V



This HIL connector is 3.3mm pitch wire-to-wire connector that has a mechanism to prevent an incomplete mating when mating connector.

BHS connector (W to W)

3.5mm pitch

- < Type >
- For LCD back light lamps, Compact type
- < Current rating >
- 1.0A
- < Voltage rating >
- 1400V



Wire-to-wire version connectors, designed for connecting liquid crystal display back light lamp to their starters.

JFA connector J300 series (W to W 3.81mm pitch)

3.81mm pitch

- < Type >
- Crimp style
- < Current rating >
- 15A (Single circuit/AWG#14)
- < Voltage rating >
- 250V

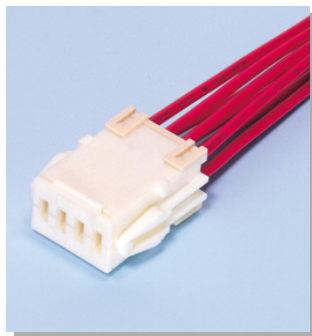


Available in both wire-to-board and wire-to-wire connection, the JFA connector is applicable to a wide range of applications e.g. from signal to output circuits.

BL connector

3.96mm pitch

- < Type >
- Crimp style, For short-circuit connection
- < Current rating >
- MAX 7A/line
- < Voltage rating >
- MAX300V



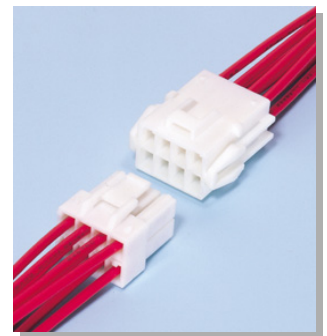
The contacts for short-circuit connection are to be mounted in the housing

- *Housing lances
- *Secondary retainers enhance safety in case of partial insertion or accidental release of the contact.
- *The panel lock is designed to prevent tangling with wires and accidental breakage because of handling.

HL connector (W to W)

3.96mm pitch

- < Type >
- Crimp style, With inner type secure locking device
- < Current rating >
- MAX 7A
- < Voltage rating >
- MAX300V



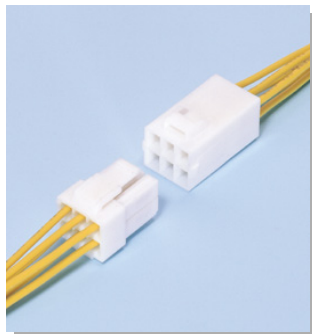
The low insertion force contacts reduce surface finish wear and reduce the effects of stress relaxation.

- *The inner-housing lock secures the plug to the receptacle and prevents accidental disconnection.
- *Housing lances
- *The panel lock is designed to prevent tangling with wires and accidental breakage because of handling.

SL connector

3.96mm pitch

- < Type >
- Crimp style, With inner type secure locking device
- < Current rating >
- MAX 7A
- < Voltage rating >
- MAX300V



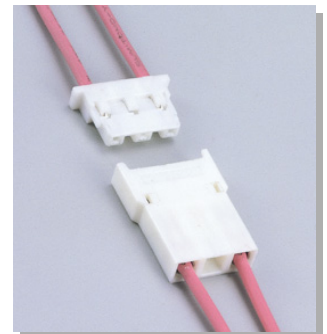
*The low insertion force contacts reduce surface finish wear and reduce the effects of stress relaxation.

- *Housing lances
- *The inner-housing lock secures the plug to the receptacle and prevents accidental disconnection.

BHM connector (4.0mm pitch, W to W)

4mm pitch

- < Type >
- For LCD back light lamps
- < Current rating >
- 1.0A
- < Voltage rating >
- 600V



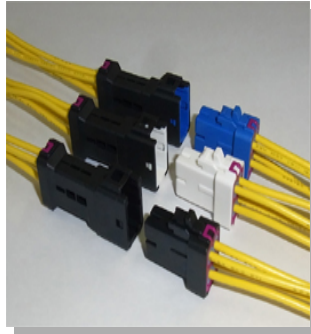
Connector for liquid crystal display back light lamps

- *Contact lances
- *Box shaped construction of the housing prevents distortion during mating/unmating of the housings.
- Withstanding voltage is also considered.

JWPS connector (W to W)

4mm pitch

- < Type >
 - Crimp style, Waterproof connector
- < Current rating >
 - 4A (AWG#22)
 - 5A (AWG#20)
 - 6A (AWG#18)
- < Voltage rating >
 - 300V

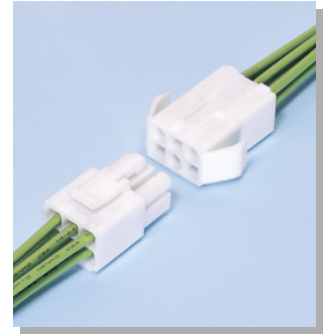


This JWPS connector can be used for the place of which especially waterproof is required. This is the wire-to-wire connector that is grade 7 ingress protection of JIS C 0920 (IPX7 of IEC 60529).

EL connector

4.5mm pitch

- < Type >
 - Crimp style, With locking device
- < Current rating >
 - MAX 10A
- < Voltage rating >
 - MAX300V

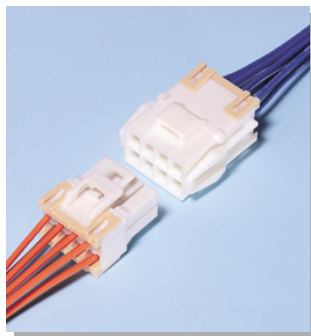


The contacts for the compact EL connector can be easily inserted into the connector housings. The plug housing and the receptacle housing can be smoothly mated even if they are mechanically distorted.

YL connector

4.5mm pitch

- < Type >
 - Crimp style, With inner type secure locking device
- < Current rating >
 - 10A
 - (7A when retainers are mounted)
- < Voltage rating >
 - 300V



- *The inner-housing lock secures the plug to the receptacle and prevents accidental disconnection.
- *The secondary retainers enhance safety in case of partial insertion or accidental release of the contact.
- *Housing lances

YLN connector

4.5mm pitch

- < Type >
 - Crimp style, With inertia force mechanism with secure locking device
- < Current rating >
 - 10A
 - (7A when retainers are mounted)
- < Voltage rating >
 - 300V



The YLN connector adds variation 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 inertia force generated when the plug and receptacle are mated and therefore, ensures complete mating.

WPJ connector (W to W)

5mm pitch

- < Type >
 - Crimp style, Waterproof connector
- < Current rating >
 - 7A (AWG#18)
- < Voltage rating >
 - 300V

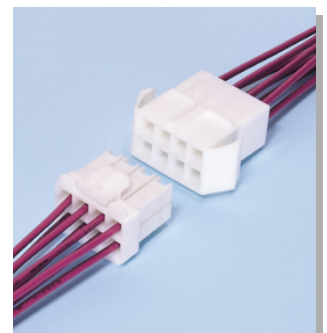


Compact, Water Resist and Durable.
This connector for electrical connection can be used on both water and non-water resistance conditions, depending on usage.

XL connector (W to W)

5mm pitch

- < Type >
 - Crimp style, With locking device
- < Current rating >
 - MAX 10A
- < Voltage rating >
 - MAX300V

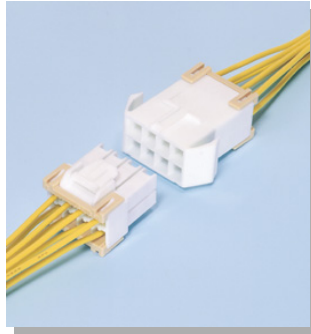


- *The box-shaped contacts serve as socket contacts in a wide variety of applications from low-voltage, low-current signal circuits to power supply circuits.
- *Since the contacts are individually and totally surrounded by housing walls (egg-crate style), and since the contact pitch is 5.0mm, the electrical creep distances and dielectric spacing are great enough to meet most safety requirements.

ZL connector

5mm pitch

- < Type >
- Crimp style, With locking device
- < Current rating >
- MAX 10A
- < Voltage rating >
- MAX300V



*The box-shaped contacts serve as socket contacts in a wide variety of applications from low-voltage, low-current signal circuits to power supply circuits.

*Housing lances

*Secondary retainers

*Mountable on panels of various thickness without using tools

JFA connector J300 series (W to W 5.08mm pitch)

5.08mm pitch

- < Type >
- Crimp style
- < Current rating >
- 15A (Single circuit/AWG#14)
- < Voltage rating >
- 600V

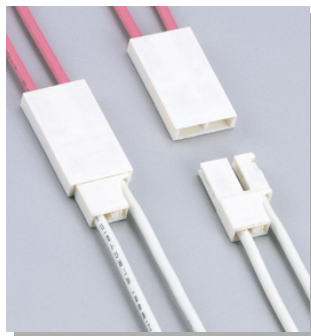


Available in both wire-to-board and wire-to-wire connection, the JFA connector is applicable to a wide range of applications e.g. from signal to output circuits.

BHT connector (W to W)

5.1mm pitch

- < Type >
- For LCD back light lamps
- < Current rating >
- 1.0A
- < Voltage rating >
- 1500V



Designed for connecting liquid crystal display back light lamps to their starters

*With the enough creep distance at the high voltage side, voltage rating can be as high as 1,500V.

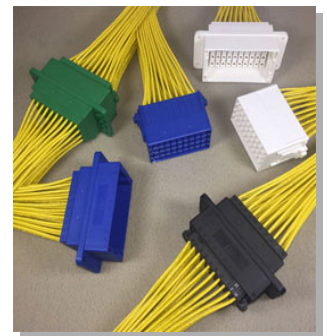
*Applicable either to wire-to-wire connection or board-to-wire connection.

*Pin contact is interchangeable with that of wire-to-wire type BHS connectors.

JFA connector J300 series (W to W 5.4mm pitch)

5.4mm pitch

- < Type >
- Crimp style
- < Current rating >
- 5A(AWG#16, When applying to all circuits.)
- < Voltage rating >
- 600V

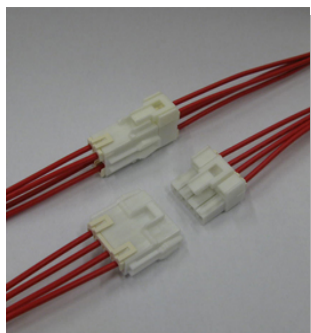


By taking the advantage of low insertion force of JFA connector, only the simple construction of a housing and contacts provides the collective connection of multi-circuit of power supply line.

VL connector (HIGH CURRENT TYPE) (W to W)

6.2mm pitch

- < Type >
- Crimp style
- < Current rating >
- 23A (1, 2circuits/AWG#12)
- < Voltage rating >
- 600V

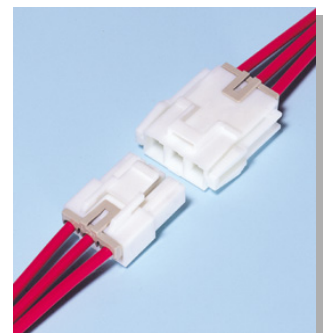


This VL connector is 6.2 mm pitch wire-to-wire and wire-to-board connector, designed for large current. The connector suitable for the large electric current has been realized by using highly-conducting material, so that the connection of large current circuit enables.

VL connector (W to W)

6.2mm pitch

- < Type >
- Crimp style, With inner type secure locking device
- < Current rating >
- MAX 20A
- < Voltage rating >
- MAX600V

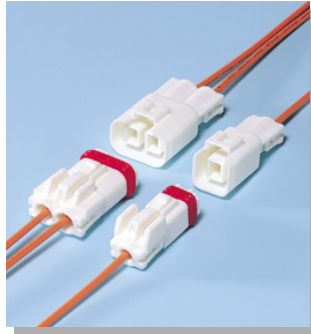


This VL connector is 6.2 mm pitch wire-to-wire and wire-to-board connector, designed for large current up to 20 A (1 or 2-circuit with 3.5mm² wire). Secondary retainer, which prevents from insufficient insertion of contact and coming off contact, may use and large current circuit can be connected certainly and safety.

MWP connector

7mm pitch

- < Type >
- Crimp style, Waterproof connector
- < Current rating >
- MAX 7A
- < Voltage rating >
- MAX300V

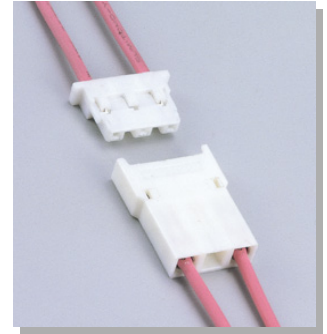


*The low insertion force contacts reduce surface finish wear and reduce the effects of stress relaxation.
 *Housing lances
 *The inner-housing lock secures the plug to the receptacle and prevents accidental disconnection.

BHM connector (8.0mm pitch, W to W)

8mm pitch

- < Type >
- For LCD back light lamps
- < Current rating >
- 1.0A
- < Voltage rating >
- 600V



Connector for liquid crystal display back light lamps
 *Contact lances
 *Box shaped construction of the housing prevents distortion during mating/unmating of the housings.
 Withstanding voltage is also considered.

JFA connector J5000 series (W to W)

11mm pitch

- < Type >
- Crimp style
- < Current rating >
- 50A (Single circuit/AWG#8)
- < Voltage rating >
- 600V

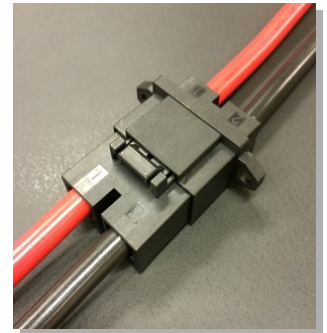


This connector is corresponding to large current up to 50 A with single circuit (when using AWG #8). The 4 and 6 circuits of the J5200 series Dual-row type can select either the bulk insertion of the receptacle housing or the module types.

FAH connector

16mm pitch

- < Current rating >
- 50A (AWG#8)
- < Voltage rating >
- 600V

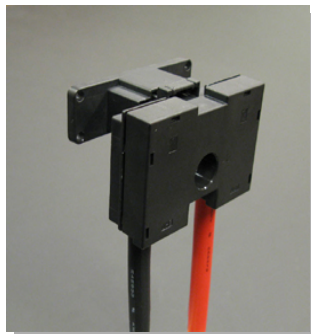


One-touch connection and disconnection connector corresponding to high current.
 This is a wire to wire connector, which current rating is 50 A capability in 2-circuit, and male and female contacts of this connector is designed as the same shape.

FAH connector (Screw Lock Type)

16mm pitch

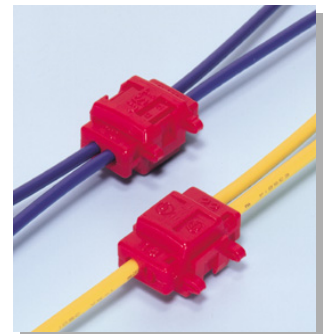
- < Current rating >
- 90A (AWG#4)
- < Voltage rating >
- 600V



This is wire to wire connector, of which current rating is 90 A capability in 2-circuit, and connects a crimp style terminal and bus bar with screws.

CL connector

- < Type >
- IDC style, Branch/Short-circuit connection
- < Current rating >
- MAX 7A (CL-2218T, CL-2218S)
- MAX 15A (CL-1814T, CL-1814S)
- < Voltage rating >
- 300V



The CL is a low-voltage, insulation displacement connector that can be applied using simple tools.

DAC connector

< Type >

- I/O connector, Hybrid connector

< Current rating >

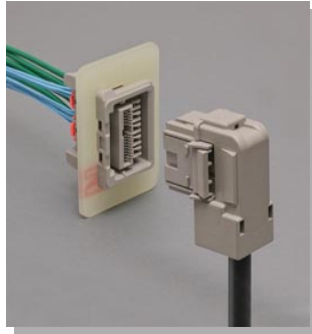
Signal circuit/1.5A(AWG#27, #26)

Power supply circuit/6A(AWG#18)

< Voltage rating >

Signal circuit/50V

Power supply circuit/300V



Hybrid type I/O connector with combined signal and power supply circuits.

OTZ connector

< Type >

- I/O connector, Hybrid connector

< Current rating >

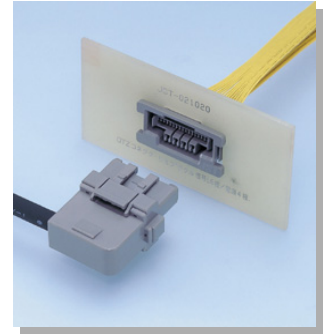
Signal circuit/1.0A(AWG#26)

Power supply circuit/5A(AWG#20)

< Voltage rating >

Signal circuit/50V

Power supply circuit/300V



This OTZ connector is a hybrid type I/O connector with combined signal and power supply circuits.

*Molded spring structure realized the curtailment of number of component

*Space saving

*Lever lock function

RFC connector (W to W)

< Type >

- I/O connector, Drawer connector

< Current rating >

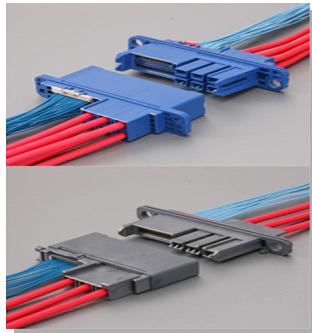
Signal circuit/1.0A(AWG#27, #26)

Power supply circuit/15A(AWG#14)

< Voltage rating >

Signal circuit/50V

Power supply circuit/250V



Signal/hybrid type drawer connector for unit connection. The RFC connector absorbs misalignment between the two units and also excels in durability.

RIC connector

< Type >

- Drawer connector, Double-row

< Current rating >

Signal circuit/1.0A (AWG#26)

Power supply circuit/15A (AWG#14)

< Voltage rating >

Signal circuit/50V

Power supply circuit/250V



This connector is a hybrid type double-row drawer connector to connect the units, absorbs misalignment between units, and excels durability. RIC connector with lever locking device is adopted as applicable socket to prevent coming off the socket and incomplete mating.

RIY connector

< Type >

- Drawer connector, Double-row

< Current rating >

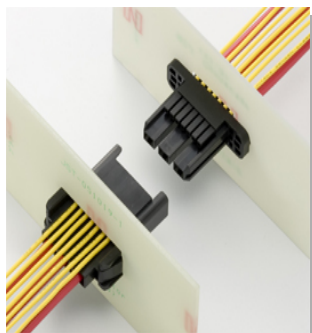
Signal circuit/2A (AWG#24)

Power supply circuit/15A (AWG#14)

< Voltage rating >

Signal circuit/50V

Power supply circuit/250V



This connector is a hybrid type double-row drawer connector with combined signal and power supply circuits to connect the units. In the signal part, the number of parts reduced by connecting the crimping contact directly.

RIZ connector

< Type >

- Drawer connector, Single-row

< Current rating >

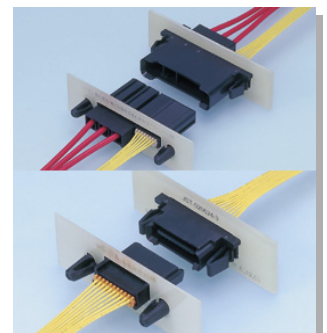
Signal circuit/1.0A(AWG#26)

Power supply circuit/15A(AWG#14)

< Voltage rating >

Signal circuit/50V

Power supply circuit/250V



In unit connection, this RIZ connector is a hybrid type connector with combined signal and power supply circuits, absorbs misalignment between units, and excels durability. *Pitch for signal circuits is 1.5mm. Single row realizes slim design 9.0mm and space reducing.

RIZ connector L-Type

< Type >

- Drawer connector, Single-row

< Current rating >

Signal circuit/1.0A(AWG#26)

Power supply circuit/15A(AWG#14)

< Voltage rating >

Signal circuit/50V

Power supply circuit/250V



This connector is a hybrid type single-row drawer connector combined signal and power supply circuits connector to connect the units, absorbs misalignment between units, and excels durability. RIZ connector with lever locking device is adopted as applicable socket to prevent incomplete mating.

RPZ connector

< Type >

- I/O connector, Drawer connector

< Current rating >

Signal circuit/1.0A(AWG#26)

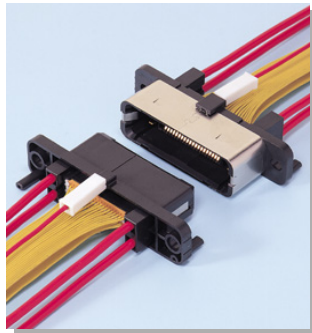
Power supply circuit/15A(AWG#14)

Tab/10A(PS connector AWG#16)

< Voltage rating >

Signal circuit/50V

Power supply circuit/250V



Power supply circuit and signal circuit integrated hybrid type drawer connector.

*With low insertion force mechanism, mating/unmating life of 20,000 cycles are guaranteed.

*Both plug and receptacle have the ESD shielding shell.

*For the grounding purpose, #110 tab is equipped with this connector.

RWZ connector

< Type >

- Drawer connector, Double-row

< Current rating >

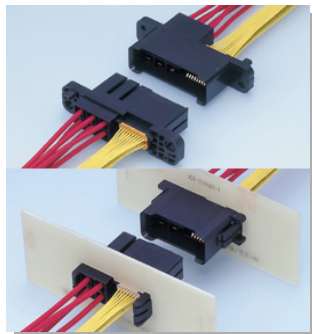
Signal circuit/1.0A(AWG#26)

Power supply circuit/15A(AWG#14)

< Voltage rating >

Signal circuit/50V

Power supply circuit/250V



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.

*Pitch for signal circuits is 1.5mm realizes space reducing of drawer connector.

RWZ connector (L-type)

< Type >

- Drawer connector, Double-row

< Current rating >

Signal circuit/1.0A(AWG#26)

Power supply circuit/15A(AWG#14)

< Voltage rating >

Signal circuit/50V

Power supply circuit/250V



This connector is a hybrid type double-row drawer connector combined signal and power supply circuits connector to connect the units. RWZ connector with lever locking device is adopted as applicable socket to prevent incomplete mating.

RWZ connector (Power supply system structure reinforced type) TBX connector

< Type >

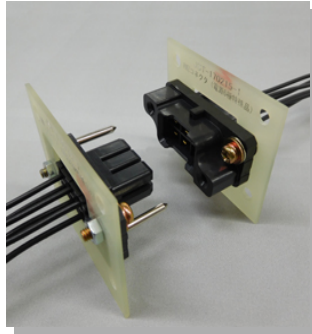
- Space saving
- Drawer connector, Double-row

< Current rating >

15A (6-circuit AWG#14)

< Voltage rating >

250V



This is the power supply system drawer connector which realized excellent toughness and durability by performing the secure guide and positioning when mating with assembled metal pin to the receptacle. In addition to the ease of robust design of the connection in equipment, provide safety and security.

< Type >

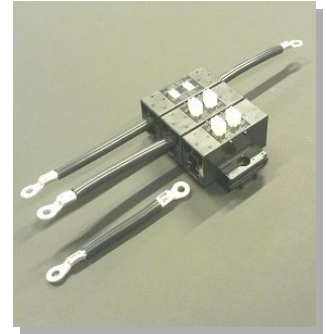
- Crimp style, For short-circuit connection
- Spring type

< Current rating >

50A

< Voltage rating >

600V



This is a short circuit type power supply system wire-to-wire connector that is configurable up to 4 lines. For example, for one line on the input side, the output side can be branched into 1 to 3 lines according to a use application. It is also possible to its reverse. Use by mounting the crimped ring tongue terminal R8-5.

TSD connector

< Type >

- I/O connector, Drawer connector

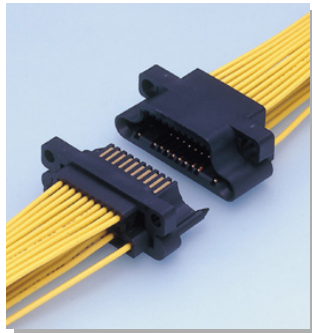
< Current rating >

2A (AWG#24)

< Voltage rating >

Signalcircuit/30V

Powersupplycircuit/300V



This hybrid type drawer connector shares a single design contact between signal and power lines.
 *The signal contact can be used both for the power and for the signal connections.
 *Misalignment correction
 *Highly-reliable contact performance

WPK connector

< Type >

- Crimp style, Waterproof connector

< Current rating >

7A(0.85 sq mm)

< Voltage rating >

12V



This connector is compact and excels in waterproof and durability. This connector can be used for the place which especially waterproof is required. Its waterproof grade is 7 ingress protection of JIS C 0920 (IEC 60529 IPX7).