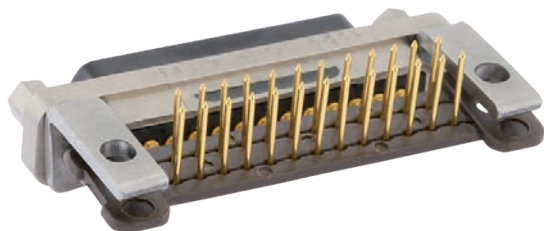
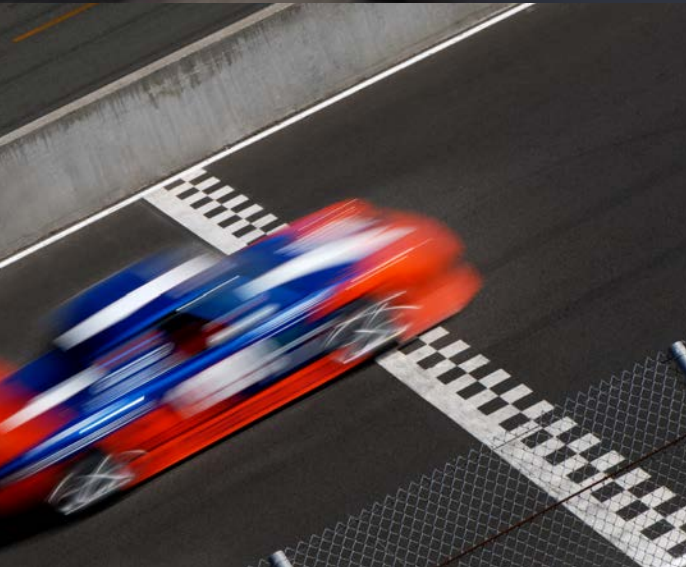


Motorsport and racing connectors
Souriau 8STA, 8TA and microComp® series



Powering Business Worldwide



Motorsport and racing connectors Souriau 8STA, 8TA and microComp series

The Souriau 8STA micro miniature connector series with innovative quick-mating technology is ideal for motorsport applications with extreme space and weight constraints. Our high-performance connectors can be found on cars and motorcycles throughout the world of competitive motorsport—primarily for sensors and electric systems.

The 8STA and 8TA series of miniature circular connectors incorporates high-reliability features to ensure driver safety and correct vehicle operation. Derived from international military specifications MIL-DTL-38999 and JN1003, our lightweight yet rugged connectors perform reliably in harsh environments and can withstand high levels of shock and vibration. Our microComp series is a miniature rectangular connector that ensures reliability and weight savings in your application.

We offer more than 100 derived versions of our motorsport connector series and we're continually expanding and enhancing our products to meet the market's complete interconnect needs. We also have the capabilities to produce derived products on demand, and our worldwide distributor network maintains high levels of finished connector stock to support fast turnarounds for customer orders.

Features and benefits

- Self-locking coupling mechanism
- Contact protection
- Quick coupling – 1-1/4 turn to mate
- Visual mating indication
- EMI shielding

8STA series	8STA series	microComp
Miniature sizes 02, 04, 06 Up to shell size 24	Compact low profile	Crimp removable contacts AWG 24 to 28
Scoop proof	Conductive black zinc or nickel plating	High density layouts from 7 to 104 ways
Conductive black zinc or nickel plating	Color-coded keyway	High vibration and shock withstanding
Color-coded keyway		Non magnetic

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From standard to specific solutions for motorsport

The motorsport market is driven by innovations, and we're dedicated to meet your needs. We have the capability to produce derived products on demand to help you take the lead. One of our primary objectives is to push the boundaries in terms of miniaturization and weight reduction, demonstrated by the introduction of the 8STA shell size 01, the world's smallest motorsport connector with removable contacts.

Several new products can be found in this catalog for the motorsport market. You will find receptacles with integrated clinch nuts that eliminate the need for nut plates. As well as connectors designed for the latest steering boss systems that use a single hole fixing solution, saving space and weight, while maintaining high density with pin contacts normally associated with much larger connectors.

Reliable and customized solutions

Based on standard series:

- 8STA & 8TA series
- microComp series



Lightweight

High density layouts, miniature sizes, integrated backshell, composite shell.



Power distribution

High voltage.
High current.



Custom solutions

Innovative solutions.
Let your need take the lead.



Fuel pump

Fuel, oils and lubricant immersion.

Extremely reliable in continuous immersion.



Engine control unit

High power load, critical function.

Extremely reliable in harsh environments.



Sensors

Extreme vibration.
Restricted areas.



Quick release

Frequent disconnect.
Difficult areas to reach.

Contact layouts

Contact layouts

S Signal P Power C Concentric Twinax (=Triax) or Coax HD High Density H Hermetic version developed F Fuel Immersible version developed

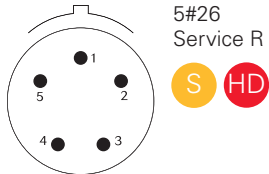
Contact sizes #26 #22D #20 #16 #12 #8 Coax or Concentric Twinax - consult us #8 Power #4 Power

01

03

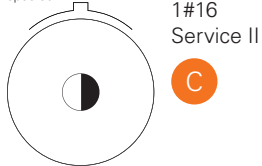


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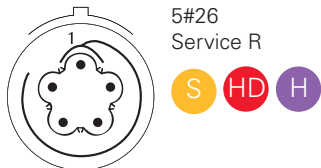


02

01*
spec 801



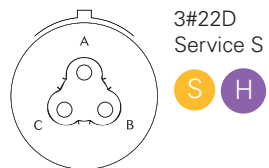
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06



35



* Consult us

04

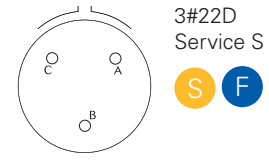
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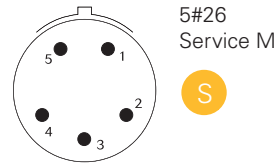


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06

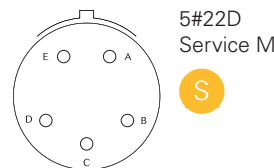
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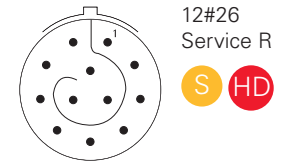


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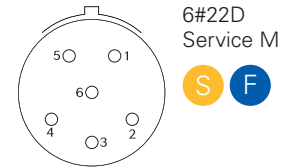


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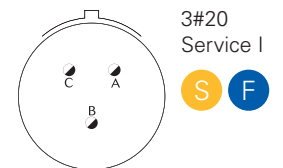
12



35*



98*



* Available for 8TA Series

Sizes 01 and 02: Marking on shell.

Rear view of receptacle for male and female insulator. Opposite marking between plug and receptacle.

Sizes 04 to 24: Marking on insulator.

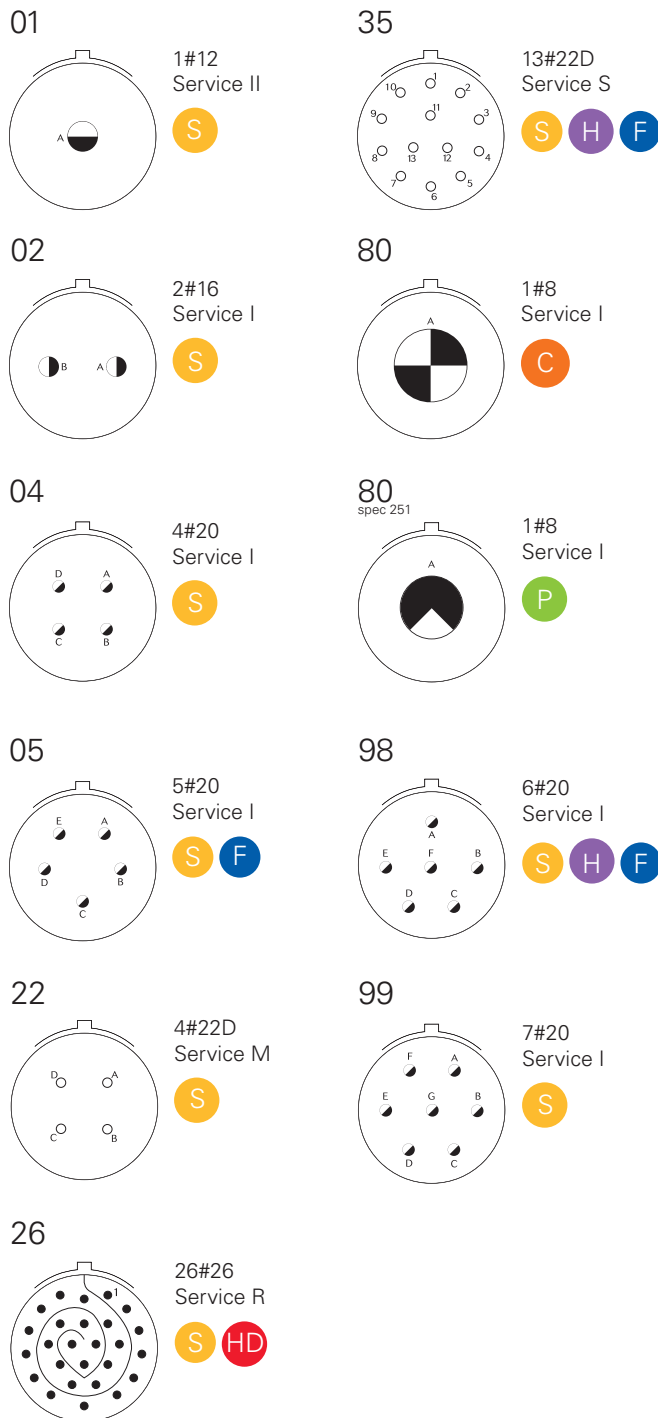
Front view of male insulator for plug and receptacle. Opposite marking between male and female insulator.

Contact layouts

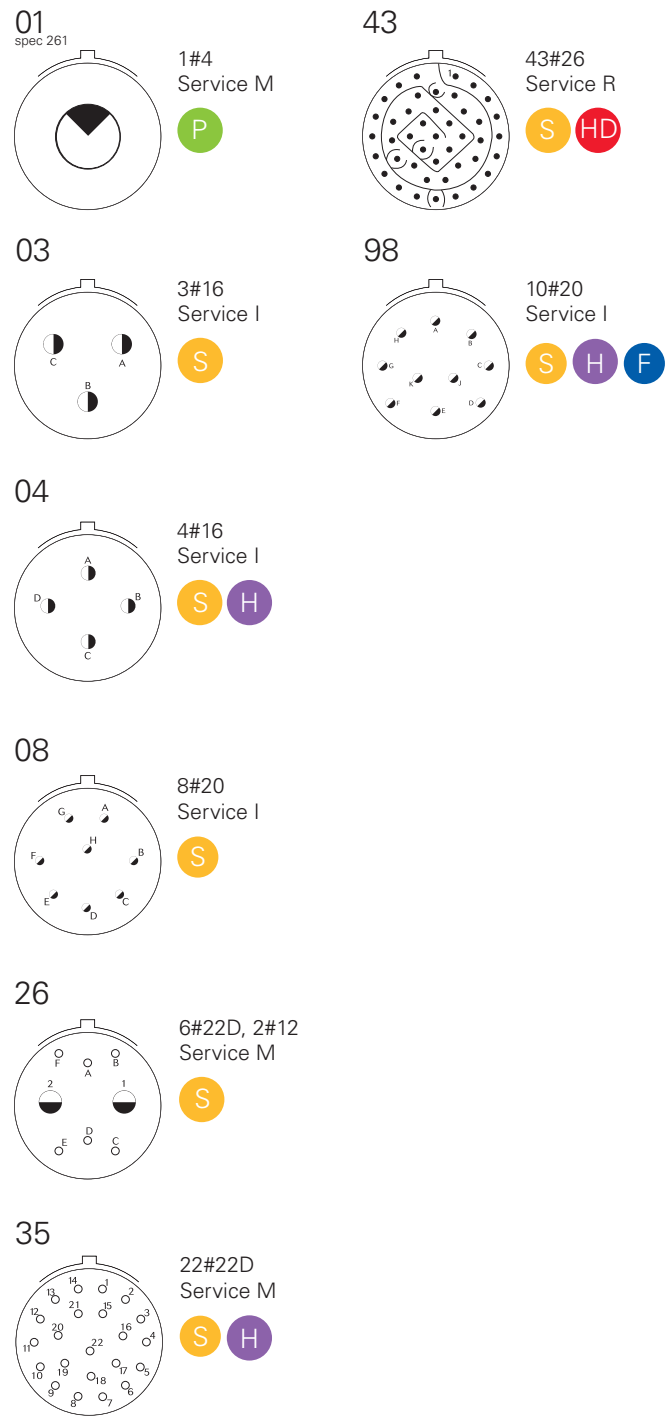
S Signal P Power C Concentric Twinax (=Triax) or Coax HD High Density H Hermetic version developed F Fuel Immersible version developed

Contact sizes #26 #22D #20 #16 #12 #8 Coax or Concentric Twinax - consult us #8 Power #4 Power

10



12


Sizes 01 and 02: Marking on shell.

Rear view of receptacle for male and female insulator. Opposite marking between plug and receptacle.

Sizes 04 to 24: Marking on insulator.

Front view of male insulator for plug and receptacle. Opposite marking between male and female insulator.

Contact layouts

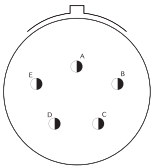
Contact layouts

S Signal **P** Power **C** Concentric Twinax (=Triax) or Coax **HD** High Density **H** Hermetic version developed **F** Fuel Immersible version developed

Contact sizes #26 #22D #20 #16 #12 #8 Coax or Concentric Twinax - consult us #8 Power #4 Power

14

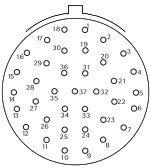
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5#16
Service II



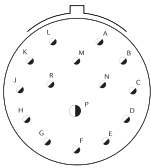
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37#22D
Service M



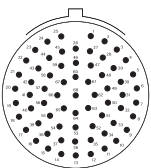
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14#20, 1#16
Service I



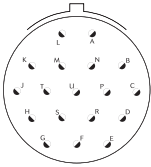
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68#26
Service R



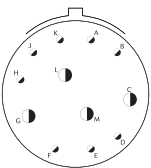
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18#20
Service I



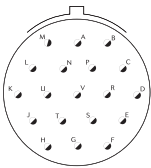
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8#20, 4#16
Service I



19



19#20
Service I



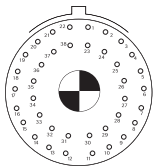
Contact layouts

S Signal P Power C Concentric Twinax (=Triax) or Coax HD High Density H Hermetic version developed F Fuel Immersible version developed

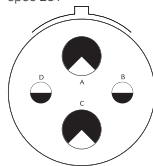
Contact sizes #26 #22D #20 #16 #12 #8 Coax or Concentric Twinax - consult us #8 Power #4 Power

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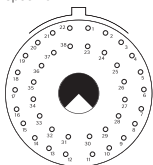
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38#22D, 1#8
Service M

22
spec 251

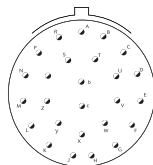
2#12, 2#8
Service M

02
spec 251

38#22D, 1#8
Service N



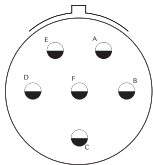
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26#20
Service I



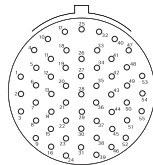
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6#12
Service I



35

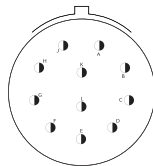


55#22D
Service M



18

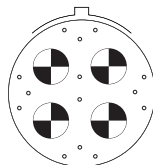
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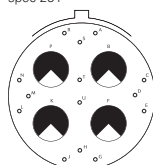
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Service II



18



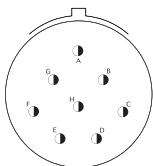
14#22D, 4#8
Service M

18
spec 251

14#22D, 4#8
Service M



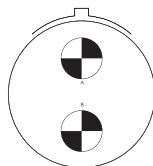
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8#16
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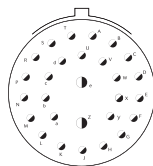
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2#8
Service M



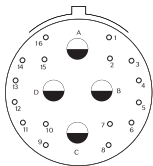
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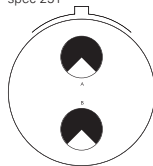
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Service I



20



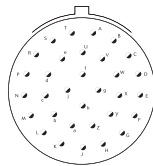
16#22D, 4#12
Service II

75
spec 251

2#8
Service M



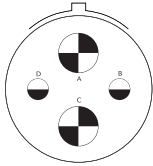
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32#20
Service I



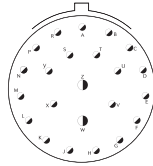
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2#12, 2#8
Service M



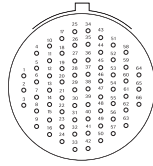
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2#16, 21#20
Service I



35



66#22D
Service M



Sizes 04 to 24: Marking on insulator.

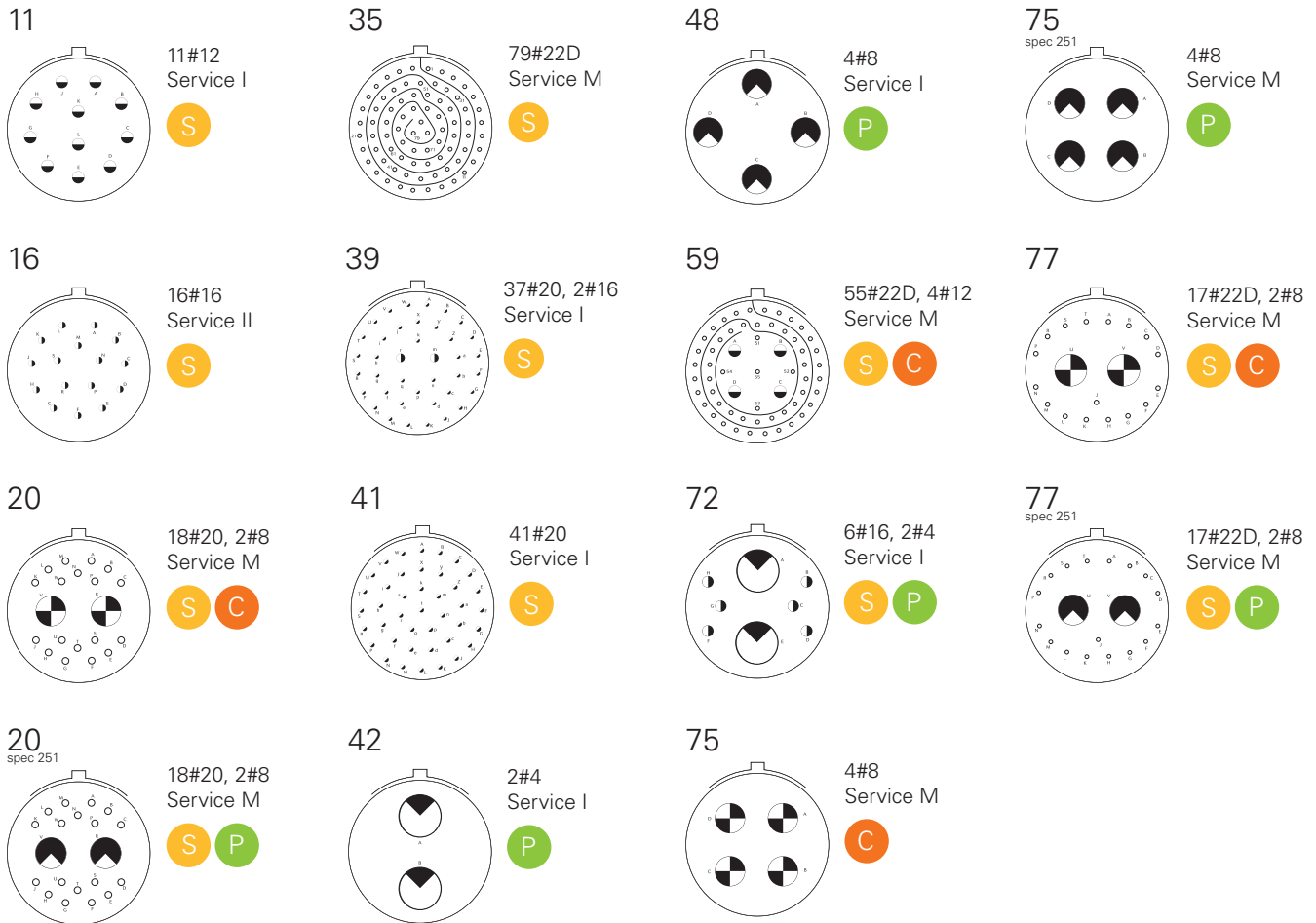
Front view of male insulator for plug and receptacle. Opposite marking between male and female insulator.

Contact layouts

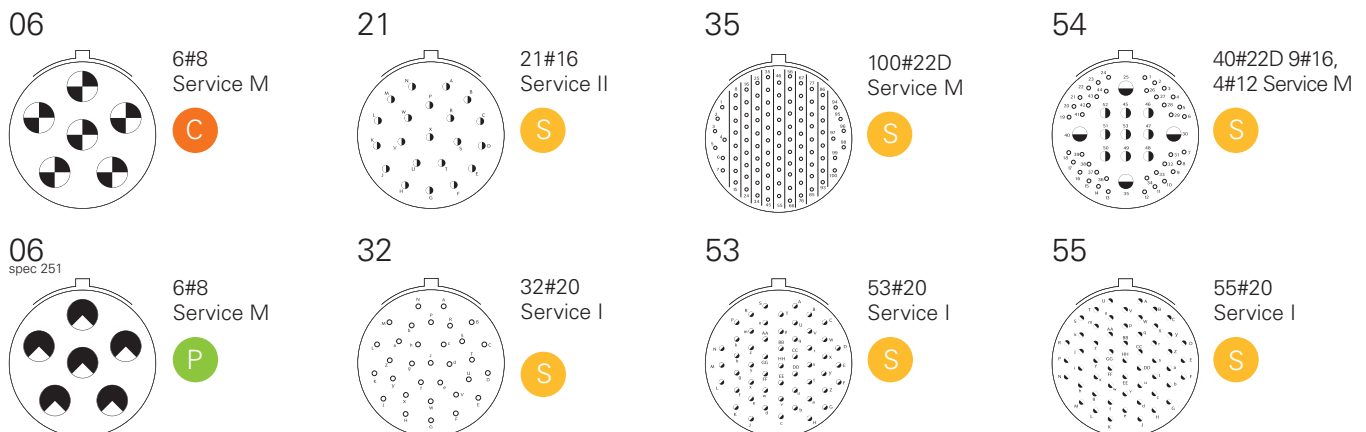
S Signal P Power C Concentric Twinax (=Triax) or Coax HD High Density H Hermetic version developed F Fuel Immersible version developed

Contact sizes #26 #22D #20 #16 #12 #8 Coax or Concentric Twinax - consult us #8 Power #4 Power

20



22



Sizes 04 to 24: Marking on insulator.

Front view of male insulator for plug and receptacle. Opposite marking between male and female insulator.

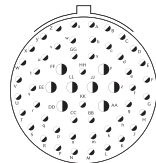
Contact layouts

S Signal **P** Power **C** Concentric Twinax (=Triax) or Coax

Contact sizes ● #26 ○ #22D ◐ #20 ◑ #16 ◒ #12 ◓ #8 Coax or Concentric Twinax - consult us ◑ #8 Power ◑ #4 Power

24

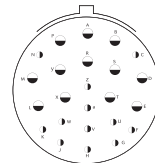
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48#20, 8#16
Service I

S

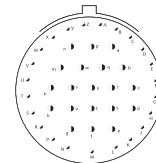
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12#16, 12#12
Service II

S

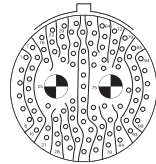
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23#20, 20#16
Service I

S

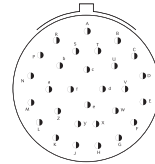
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97#22D, 2#8
Service M

S **C**

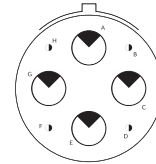
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29#16
Service I

S

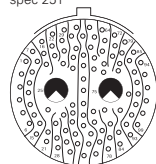
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4#16, 4#4
Service I

S **P**

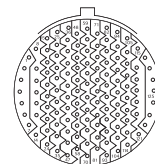
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97#22D, 2#8
Service M

S **P**

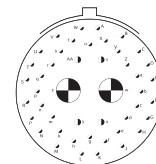
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128#22D
Service M

S

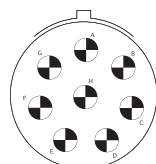
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40#20, 4#16,
2#8 Service I

S **C**

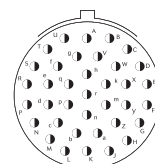
08



8#8
Service M

C

37



37#16
Service I

S

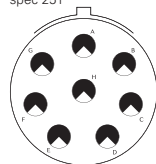
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40#20, 4#16,
2#8 Service I

S **P**

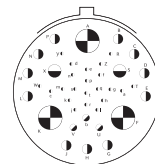
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8#8
Service M

P

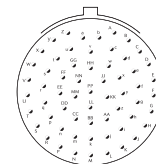
41



22#22D, 3#20,
11#16, 2#12,
3#8 Service N

S **C**

61



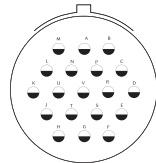
61#20
Service I

S

Test voltage rating (Vrms)

Service	Sea level	at 21 000 m
R	400	N/A
S	1,000	N/A
M	1,300	800
N	1,000	600
I	1,800	1,000
II	2,300	1,000

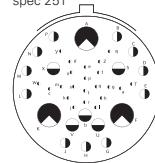
19



19#12
Service I

S

41



22#22D, 3#20,
11#16, 2#12,
3#8 Service N

S **P**

Sizes 04 to 24: Marking on insulator.

Front view of male insulator for plug and receptacle. Opposite marking between male and female insulator.

8STA series ultra miniature shell size 01



Description

- Ultra compact design and very lightweight connector
- Rugged aluminium body to ensure long service life in the harshest environment
- Positive locking mechanism with locked color indicators
- Scoop proof
- 7 color coded keyway orientations
- Boot termination feature
- PCB option available
- Conductive black zinc or nickel plating

Technical specifications

Mechanical

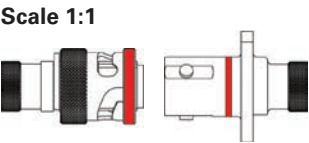
- Shell**
Aluminium alloy
- Shell plating**
Conductive black zinc (F)
- Insulator**
Thermoplastic
- Grommet & seal**
Liquid silicone rubber
- Contact**
Copper alloy
- Contact plating**
Gold
- Endurance**
500 mating cycles
- Shock**
Half sine mechanical shock, 50g/11ms
- Vibration**
147m/s², 10 to 2000Hz
- Contact retention**
20N Max.

Electrical

- Test voltage rating (Vrms)**
- | Service | Sea level |
|---------|-----------|
| R | 400 |
- Contact resistance**
<16 mΩ
- Insulation resistance**
≥ 5000MΩ @ 400Vdc
- Contact rating**
3 Amp

Environmental

- Operating temperature**
-55°C to +175°C (-67°F to +347°F)
- Sealing mated connectors**
IP67 (1 meter for 30 min minimum)
- Salt spray**
48 hours

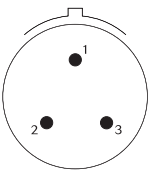


Contact layout - Marking on shell

Rear view of receptacle for male and female insulator.
Opposite marking between plug and receptacle.

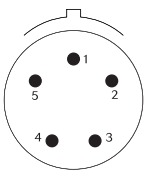
01

03



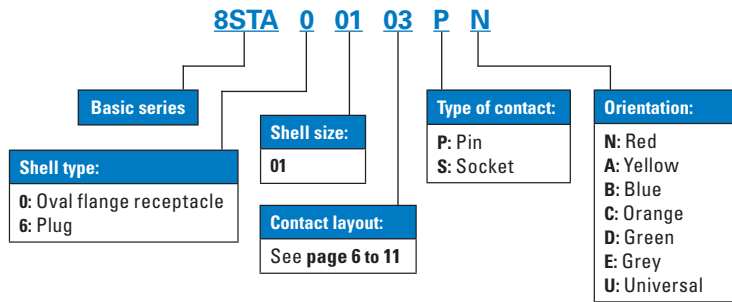
3#26
Service R

05



5#26
Service R

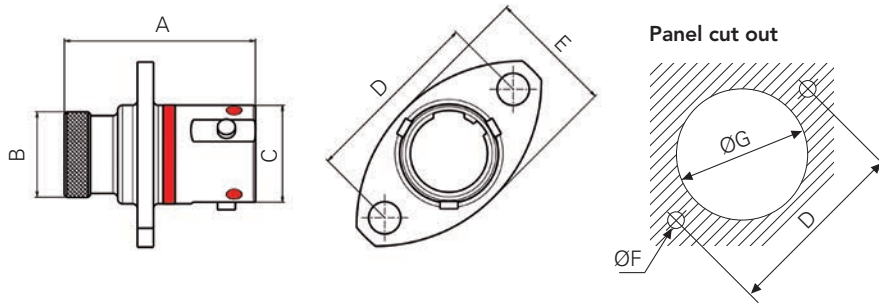
Part numbers



For other configuration (i.e. clinch nuts, PC tail) please consult us.

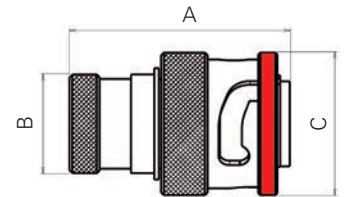
Dimensions

Oval flange receptacle



Shell size	A Max	ØB Max	ØC Max	D	E Max	ØF	ØG	Panel thickness (max)	
								Rear mounting	Front mounting
01-03	16.3	5.7	6.8	12±0.2	8.7	2.6±0.2	7.8±0.1	1.5	1.5
01-05	16.7	6.6	7.6	13±0.2	9.5	2.6±0.2	8.6±0.1	1.5	1.5

Plug



Shell size	A Max	ØB Max	ØC Max
01-03	16.3	5.7	8.6
01-05	16.7	6.6	9.5

Orientations

Size 1

View from front face of plug

Key positions	Angle A°
N	153°
A	51°
B	102°
C	204°
D	255°
E	306°
U	-

Note: All dimensions are in millimeters and inches (mm/inch).

8STA series miniature shell sizes 02, 04 & 06

Technical specifications



Description

- Ultra compact design & very lightweight connector
- Rugged aluminium body to ensure long service life in the harshest environment
- Positive locking mechanism with locked color indicators
- Scoop proof
- 7 color-coded keyway orientations
- Boot termination feature
- PCB option available
- Conductive black zinc or nickel plating

Technical specifications

Mechanical

Shell

Aluminium alloy
Glass fiber loaded plastic composite (shell size 06 only)

Shell plating

- Aluminum
 - Conductive black zinc
 - Nickel (F)
 - Composite without plating (X)

Insulator

Thermoplastic

Grommet & seal

Liquid silicone rubber

Contact

Copper alloy

Contact plating

Gold

Endurance

500 mating cycles

Shock

300g for 3ms and EIA-364-27

Vibration

147m/s², 10 to 2000Hz

Contact retention

30 N (size 26 for 02-06 layout)
35 N (size 26)
45 N (size 22D)

Electrical

Test voltage

Size 26: 400 Vrms
Size 22D: 1000 Vrms (shell size 02 & 04)
1300 Vrms (shell size 06)

Contact resistance

Size 26: <16 mΩ
Size 22D: <14.6 mΩ

Insulation resistance

≥ 5000MΩ @ 400Vdc / Size 26
≥ 5000MΩ @ 500Vdc / Size 22D

Contact rating

Size 26: 3 Amp
Size 22D: 5 Amp

Environmental

Operating temperature

-55°C to +175°C (-67°F to +347°F)

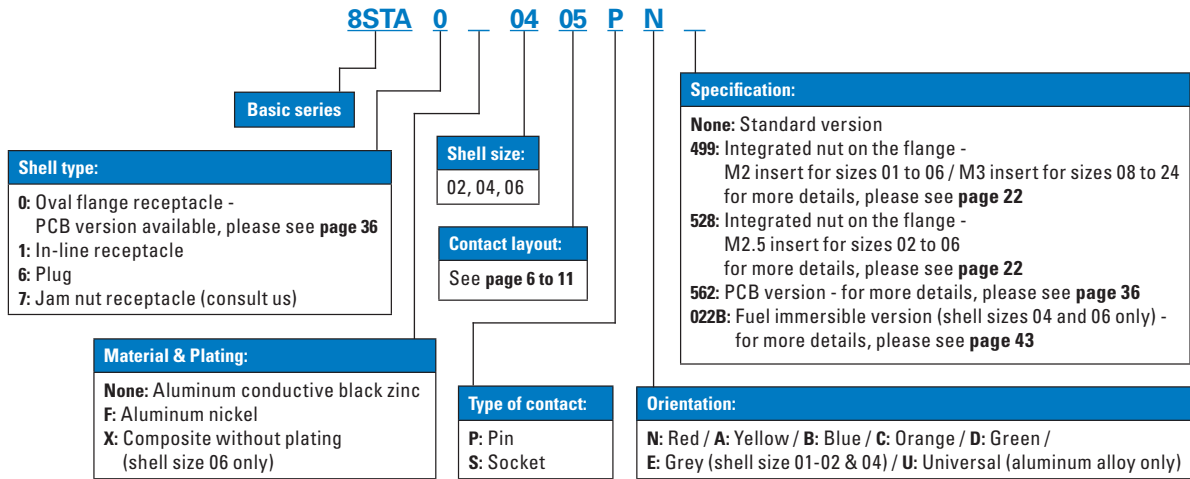
Sealing mated connectors

IP67 (1 meter for 30 min minimum)

Salt spray

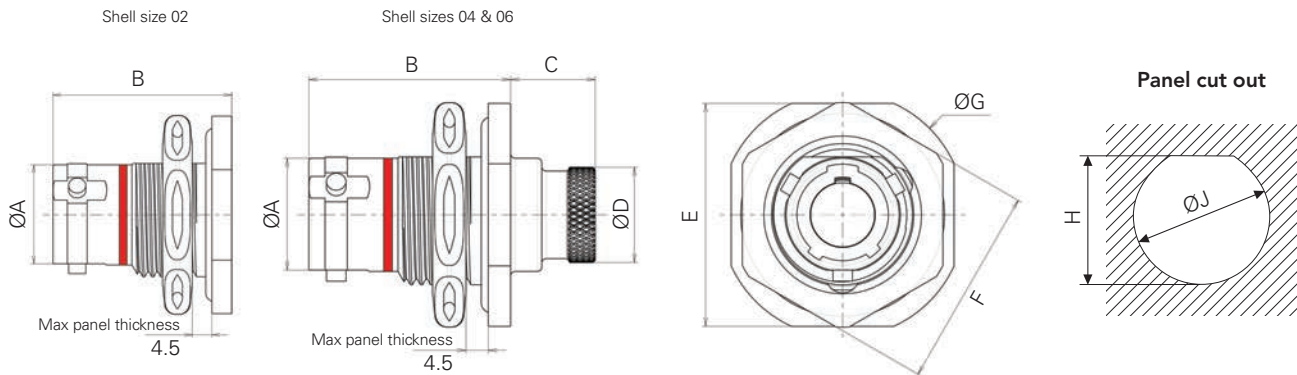
- Aluminum: 48 hours
- Composite: 500 hours

Part numbers



Dimensions

Jam nut receptacle



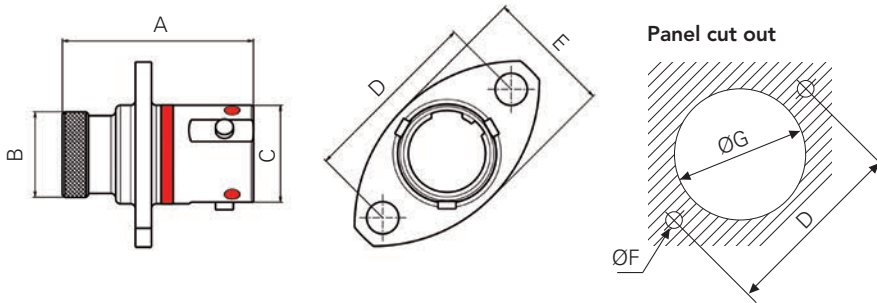
Shell size	ØA Max	B Max	C ^{±0.15}	ØD Max	E Max	F Max	ØG Max	H ^{±0.2}	ØJ ^{±0.1}	Tightening torque (mN)
02	8.6	16.3 (02-05), 17.6 (02-35)	N/A	N/A	18.2	17	20.5	9.05	9.7	2.5 - 3.2
04	10.25	18.3	7.6	8.7	20.2	18.5	22.2	12	12.8	2.7 - 3.4
06	11.7	14.25	10.3	10.5	22.25	19.5	24.4	13.7	14.4	2.9 - 3.6

Note: All dimensions are in millimeters (mm)

8STA series miniature shell sizes 02, 04 & 06

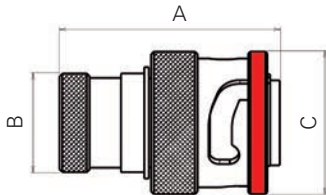
Ordering information

Oval flange receptacle



Shell size	A Max	ØB Max	ØC Max	D ^{±0.2}	E Max	ØF ^{±0.2}	ØG ^{±0.1}	Panel tickness (max)	
								Rear mounting	Front mounting
02-05	16.3	7.3	8.4	15.3	10.7	3.1	9.3	1.5	1.5
02-35	17.6	7.3	8.4	15.3	10.7	3.1	9.3	1.5	1.5
02-06	16.7	7.7	8.4	15.3	10.7	3.1	9.3	1.5	1.5
04	18.3	8.6	10.2	16.2	13.2	3.1	12.0	1.0	2.5
06 aluminum	23.3	10.4	11.9	18.0	15.0	3.1	13.0	1.5	2.5
06 composite	23.3	10.7	11.9	18.0	15.0	3.1	13.0	1.5	2.5

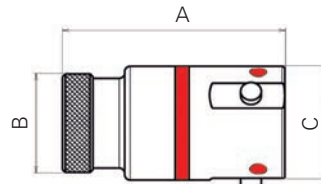
Plug



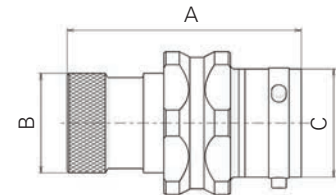
Shell size	A Max	ØB Max	ØC Max
02-05	16.3	7.3	10.6
02-35	17.6	7.3	10.6
02-06	16.7	7.7	10.6
04	18.5	8.6	13.6
06 aluminum	22.2	10.4	15.3
06 composite	22.2	10.6	15.8

In-line receptacle

Shell sizes 02 and 04



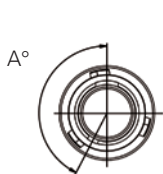
Shell size 06



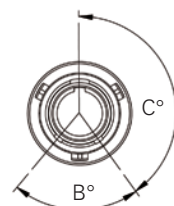
Shell size	A MAX	ØB MAX	ØC MAX
02-05	16.3	7.3	8.4
02-35	17.6	7.3	8.4
02-06	16.7	7.7	8.4
04	18.3	8.6	10.2
06 aluminum	23.3	10.4	11.9
06 composite	23.3	10.4	11.9

Orientations

Size 2



Sizes 4 & 6



View from front face of plug.

Note: All dimensions are in millimeters (mm)

Key positions	N	A	B	C	D	E	U
Angle A°	153°	51°	102°	204°	255°	306°	None
Angle B°	75°	120°	120°	115°	115°	-	None
Angle C°	145°	130°	110°	155°	90°	-	None
Color band	Red	Yellow	Blue	Orange	Green	Grey	None



Description

- 5 shell styles
- 100% scoop-proof
- EMI-RFI shielding and shell to shell continuity is provided by conductive plating and integral grounding ring fitting to the plug
- Environment sealing from interfacial seal and rear grommet (sealing IP67)
- Positive locking mechanism with locked color indicator
- 6 color-coded keyway orientations
- Conductive black zinc or nickel plating

Technical specifications

Mechanical

Shell

Aluminium alloy

Shell plating

Conductive black zinc
Nickel (F)

Insulator

Thermoplastic

Grommet & seal

Liquid silicone rubber

Contact

Copper alloy

Contact plating

Gold

Endurance

500 mating cycles

Shock

300g for 3ms and EIA-364-27

Vibration

147m/s², 10 to 2000Hz

Contact retention

Size 26 (shell 01):	20 N
Size 26 (02-06):	30 N
Size 26:	35 N
Size 22D:	45 N
Size 20:	60 N
Size 16:	100 N
Size 12:	100 N
Size 8:	110 N
Size 4:	200 N

Electrical

Test voltage

Service	M	N	I	II
Sea level	1,300	1,000	1,800	2,300

Contact resistance

Size 22D:	14.6 mΩ
Size 20:	7.3 mΩ
Size 16:	3.8 mΩ
Size 12:	3.5 mΩ
Size 8:	3 mΩ
Size 4:	2 mΩ

Insulation resistance

≥ 5000 MΩ (at 500 Vdc)

Contact rating

Size 22D:	5 A
Size 20:	7.5 A
Size 16:	13 A
Size 12:	23 A
Size 8:	45 A
Size 4:	80 A

Shell continuity

≤10 mΩ

Environmental

Operating temperature

-55°C to +175°C (-67°F to +347°F)

Sealing mated connectors

IP67 (1 meter for 30 min minimum)

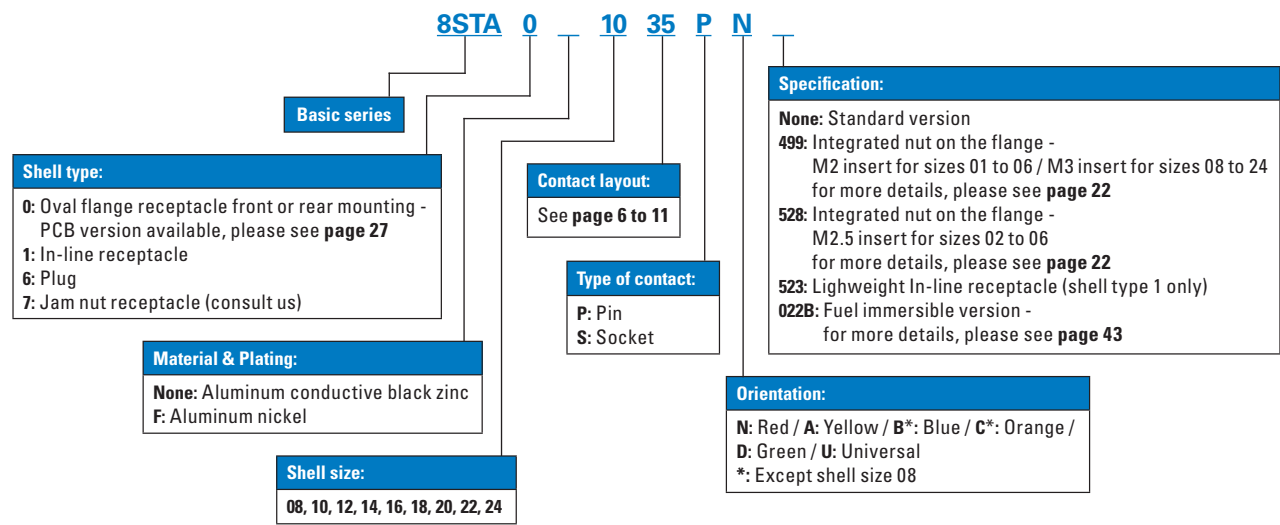
Salt spray

Aluminum: 48 hours

8STA series shell sizes 08 to 24

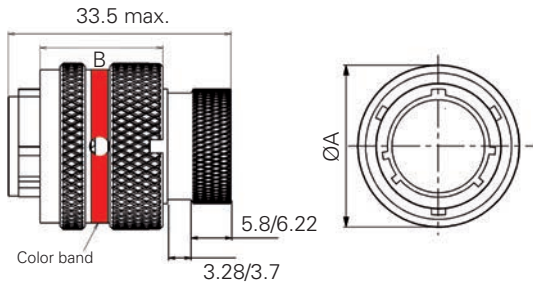
Ordering information

Part numbers



Dimensions

Plug

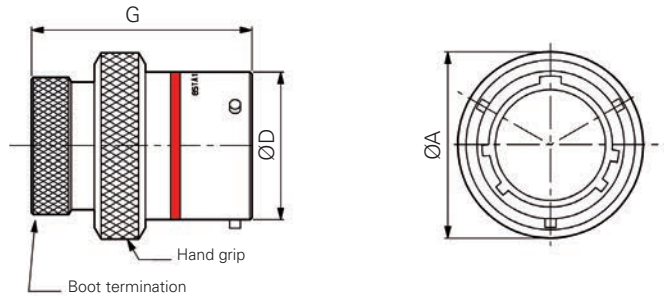


Shell size	ØA max.	B max.
08	18.70	18.55
10	21.50	18.55
12	25.10	18.55
14	29.00	18.55
16	32.20	18.55
18	35.40	18.55
20	38.20	19.30
22	41.30	19.30
24	44.50	19.05

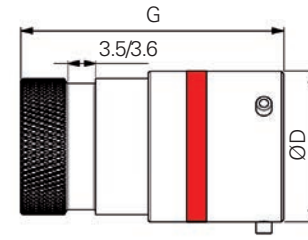
Note: All dimensions are in millimeters (mm)

In-line receptacle

Standard version

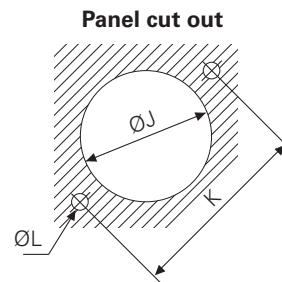
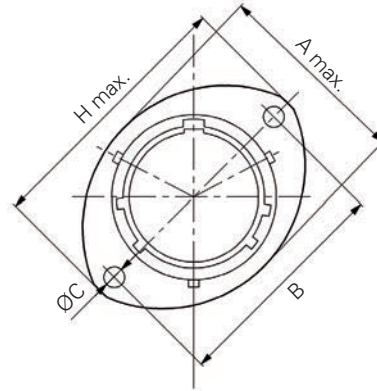
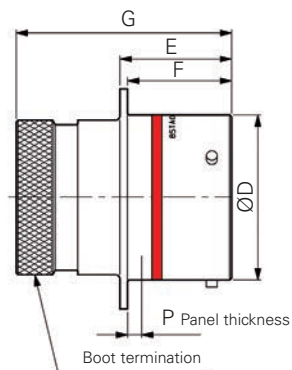


Lightweight version (specification 523)



Shell size	8	10	12	14	16	18	20	22	24
ØA max.	17.6	20.7	25.1	28.3	31.4	34.7	38.1	41.2	44.7
ØD $^{+0.20}_{-0.13}$	12	15	19.05	22.22	25.4	28.57	31.75	34.92	38.1
G max.	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5

Oval flange receptacle



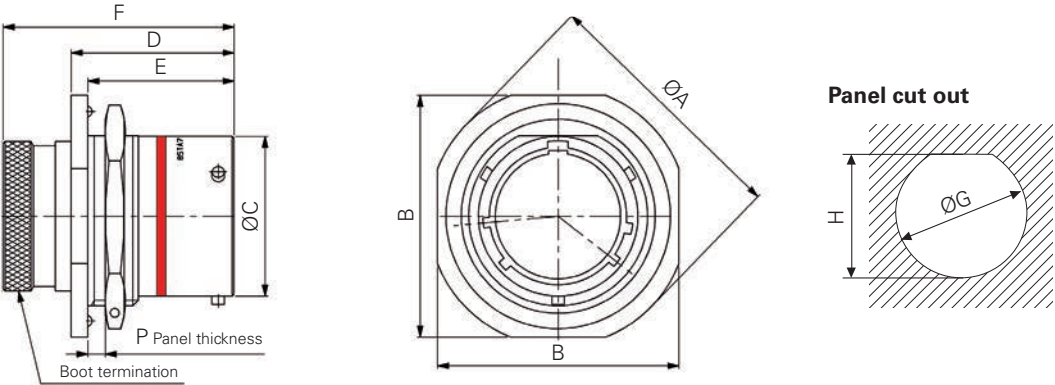
Shell size	A max.	B ± 0.20	ØC $^{0}_{-0.1}$	ØD $^{+0.2}_{-0.13}$	E $^{0}_{-0.15}$	F $^{0}_{-0.13}$	G max.	H max.	P max.	ØJ ± 0.10	K ± 0.20	ØL ± 0.20
08	16.50	21.40	3.20	12.00	17.21	16.05	33.50	27.20	3.00	14.50	21.40	3.60
10	19.50	25.90	3.20	15.00	17.21	16.05	33.50	32.00	3.00	17.40	25.90	3.60
12	24.00	29.10	3.20	19.05	17.21	16.05	33.50	35.20	3.00	21.90	29.10	3.60
14	27.00	32.50	3.20	22.22	17.21	16.05	33.50	38.40	3.00	25.00	32.50	3.60
16	30.30	34.80	3.20	25.40	17.21	16.05	33.50	41.00	3.00	28.20	34.80	3.60
18	33.70	38.20	3.20	28.57	17.21	16.05	33.50	44.70	3.00	31.40	38.20	3.60
20	37.00	41.60	3.20	31.75	17.21	15.29	33.50	47.90	3.00	34.60	41.60	3.60
22	40.40	45.00	3.20	34.90	17.21	15.29	33.50	51.00	3.00	37.60	45.00	3.60
24	43.40	49.50	3.77	38.10	18.20	15.29	33.50	55.80	3.00	41.00	49.50	4.10

Note: All dimensions are in millimeters (mm)

8STA series shell sizes 08 to 24

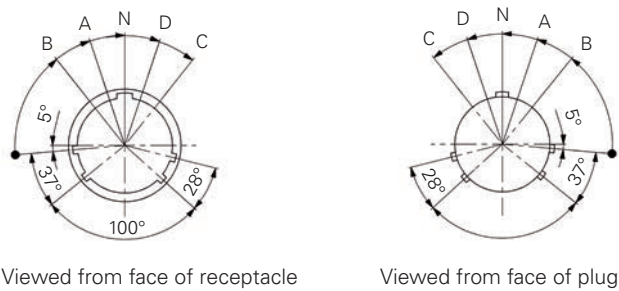
Ordering information

Jam nut receptacle



Shell size	ØA ± 0.3	B ± 0.24	ØC ± 0.12	D ± 0.10	E ± 0.24	F ± 0.3	P max.	ØG ± 0.10	H ± 0.20	Tightening torque (mN)
08	26.90	24.10	11.97	25.91	23.24	36.71	3.00	14.50	13.60	4
10	30.15	27.30	14.94	25.91	23.24	36.71	3.00	17.70	16.80	6
12	34.89	32.10	19.01	25.91	23.24	36.71	3.00	22.70	20.90	9
14	38.06	34.92	22.18	25.91	23.24	36.71	3.00	25.70	24.10	10
16	41.25	38.40	25.36	25.91	23.24	36.71	3.00	28.80	27.20	13
18	44.41	41.60	28.53	26.71	23.24	37.51	3.00	32.00	30.40	20
20	49.19	46.30	31.71	26.71	23.24	37.51	3.00	35.10	33.60	23
22	52.33	49.50	34.88	26.71	23.24	37.51	3.00	38.00	36.80	25
24	55.50	52.45	38.06	26.71	23.24	37.51	3.00	42.00	39.90	26

Orientations



Shell size	N Red	A Yellow	B Blue	C Orange	D Green
08	95°	77°	-	-	113°
10	95°	81°	67°	123°	109°
12	95°	75°	63°	127°	116°
14	95°	74°	61°	129°	116°
16	95°	77°	65°	125°	113°
18	95°	77°	65°	125°	113°
20	95°	77°	65°	125°	113°
22	95°	80°	69°	121°	110°
24	95°	80°	69°	121°	110°

For each shell size, U orientation can be mateable with any other orientations.

Note: All dimensions are in millimeters (mm)



Description

- A #4 contact for a wide range of wire sizes: Size 8, 10, 16, 25 & 35 mm²
- Easy visual wire identification: color band on contact
- Allow the use of small wire sections: Reducer for wires 8 & 10 mm² in contact barrel 16mm²
- Ideal for high power applications: Up to 200A continuous (12-01 specif. 261)
- Space & cost saving with mixed connectors: Only one connector instead of two to transmit signal & power

Technical specifications

Mechanical

Shell

Aluminium alloy

Shell plating

Conductive black zinc

Insulator

Thermoplastic

Grommet & seal

Liquid silicone rubber

Contact

Copper alloy

Contact plating

Gold over nickel

Endurance

500 mating cycles

Shock

300g for 3ms and EIA-364-27

Vibration

147m/s², 10 to 2000Hz

Contact retention

Size 22D:	45 N
Size 20:	60 N
Size 16:	100 N
Size 12:	100 N
Size 8:	110 N
Size 4:	200 N

Electrical

Test voltage

Service	M	N	I	II
Sea level	1,300	1,000	1,800	2,300

Contact resistance

Size 22D:	14.6 mΩ
Size 20:	7.3 mΩ
Size 16:	3.8 mΩ
Size 12:	3.5 mΩ
Size 8:	3 mΩ
Size 4:	2 mΩ

Insulation resistance

≥ 5000 MΩ (at 500 Vdc)

Contact rating

Size 22D:	5 A
Size 20:	7.5 A
Size 16:	13 A
Size 12:	23 A
Size 8:	45 A
Size 4:	80 A

Shell continuity

≤10 mΩ

Environmental

Operating temperature

-55°C to +175°C (-67°F to +347°F)

Sealing mated connectors

IP67 (1 meter for 30 min minimum)

Salt spray

48 hours

8STA series power contacts

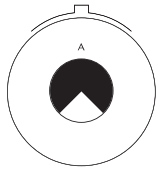
Contact layouts

Contact layouts viewed from front face of male insulator

Contact sizes ○ #22D ● #20 ◐ #16 ◑ #12 ◒ #8 Power ◓ #4 Power

10

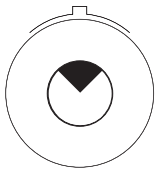
80
spec 251



1#8
Service I

12

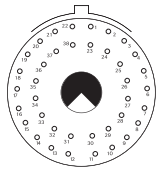
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spec 261



1#4
Service M

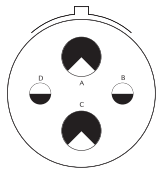
16

02
spec 251



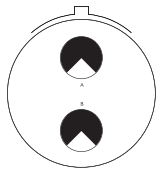
38#22D, 1#8
Service N

22
spec 251



2#12, 2#8
Service M

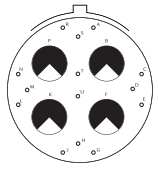
75
spec 251



2#8
Service M

18

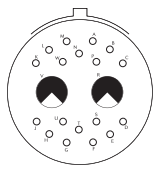
18
spec 251



14#22D, 4#8
Service M

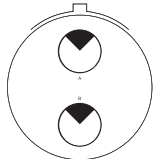
20

20
spec 251



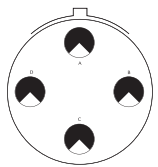
18#20, 2#8
Service M

42



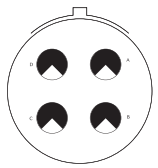
2#4
Service I

48



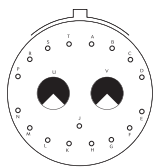
4#8
Service I

75
spec 251



4#8
Service M

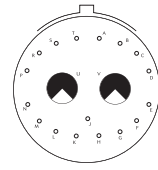
77
spec 251



17#22D, 2#8
Service M

20

80



17#22D, 2#8
Service M

22

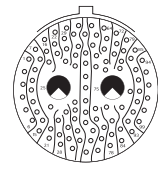
06
spec 251



6#8
Service M

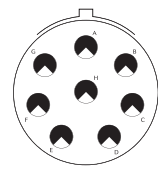
24

07
spec 251



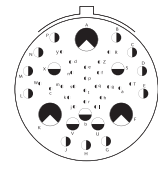
97#22D, 2#8
Service M

08
spec 251



8#8
Service M

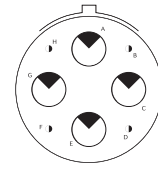
41
spec 251



22#22D,
3#20, 11#16,
2#12, 3#8
Service N

24

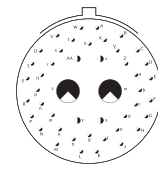
44



4#16,
4#4
Service I

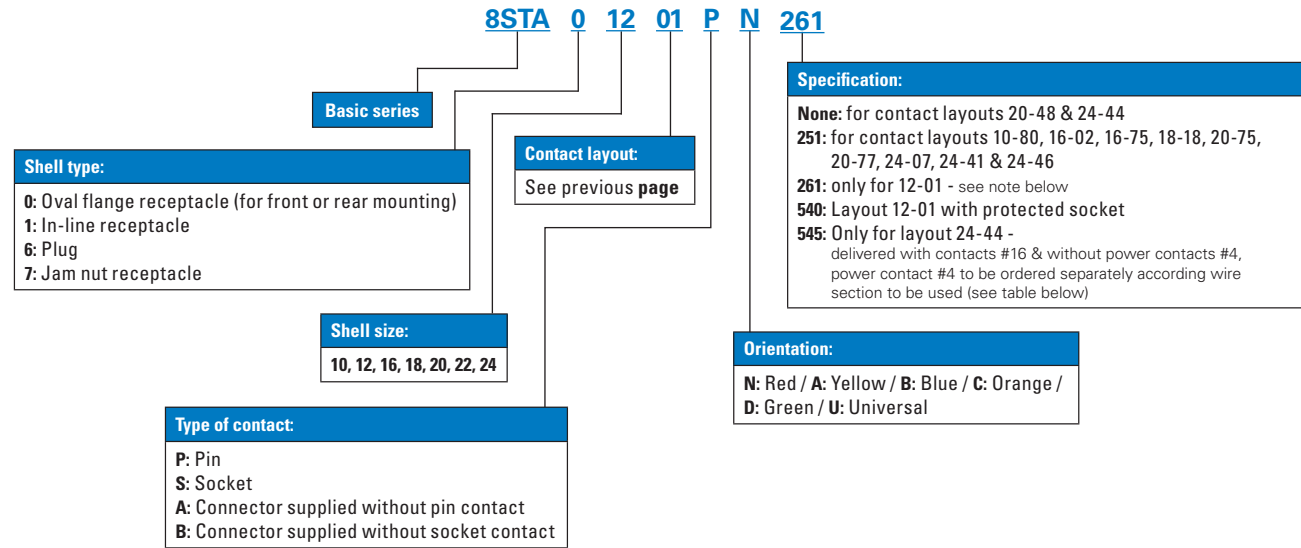
46

spec 251



40#20,
4#16, 2#8
Service I

Part numbers



Note: Layout 12-01 specif. 261 only.

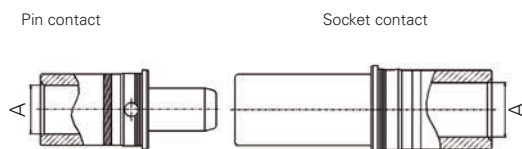
- Standard connector (8STAx1201yz261 where x = shell type; y = type of cts; z = orientation) is provided with power contacts for 16mm² wire.
- For 10mm² wire, order standard connector (note 1) + reducing sleeve 8400 2351 A separately.
- For 25mm² wire, order connector without contact, see A & B details in type of contact (ex : 8STAx1201Az261 or Bz261) + contact separately (pin : 8599 7598 900 & socket : 8599 7599 900)
- For 35mm² wire, order connector without contact, see A & B details in type of contact (ex : 8STAx1201Az261 or Bz261) + contact separately (pin : 8599 0313 & socket : 8599 0316)

Power contacts

	Wire 16 mm ²	Wire 25 mm ²	Wire 35 mm ²
Designation	Removable contact	Removable contact	Non-removable contact
Color band	Red	Blue	Green
Pin contact	8599 7520A 900	8599 7598 900	8599 0313
Socket contact	8599 7521A 900	8599 7599 900	8599 0316
Reducer - wire 8 & 10 mm²	8400 2351A	-	-
Crimping tool	M22520/23-01 + Die M22520/23-04 + Positionner M22520/23-11 And for wider 50 mm ² : M22520/23-01+ Die WA23-4 + Positionner WA23-176L	M22520/23-01 + Die M22520/23-04 + Positionner M22520/23-11	M22520/23-01 + Die 8599-0319 + Positionner 8599-0318 (male) + Positionner 8599-0317 (female)
Plastic extraction tool	M81969/14-07 (blue)	M81969/14-07 (blue)	-

Specific wire dimensions

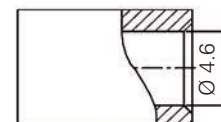
Power contact #4



Cable section	A		
	16 mm ²	25 mm ²	35 mm ²
Contact Ø	6.5 Min.	7.33 Min.	8.65 Min.
Color band	Red	Blue	Green

Reducer for wire 8 and 10 mm²

Compatible with pin and socket contact, wire 16 mm²



Note: All dimensions are in millimeters (mm)

8STA series high density

Technical specifications



Description

- Rugged aluminium body to ensure long service life in the harshest environment
- 100% scoop proof
- Available in 6 shell sizes: 02-05; 04-06; 06-09; 08-12; 10-26; 12-43; 14-68
- Contacts #26 for AWG 24 to 30

Technical specifications

Mechanical

Shell

Aluminium alloy

Shell plating

Conductive black zinc
Nickel (F)

Insulator

Thermoplastic

Grommet & seal

Liquid silicone rubber

Contact

Copper alloy

Contact plating

Gold

Endurance

500 mating cycles

Shock

300g for 3ms and EIA-364-27

Vibration

147m/s², 10 to 2000Hz

Electrical

Contact resistance

Size 26: 16mΩ

Insulation resistance

≥5000MΩ (at 500Vdc)

Contact rating

Size 26: 3 Amp

Shell continuity

≤10 mΩ

Environmental

Operating temperature

-55°C to +175°C (-67°F to +347°F)

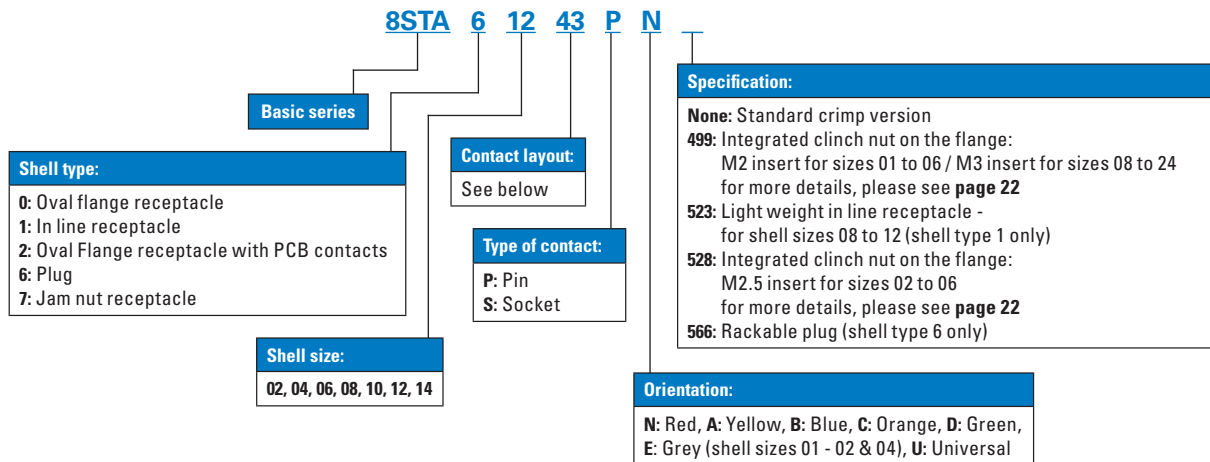
Sealing mated connectors

IP67 (1 meter for 30 min minimum)

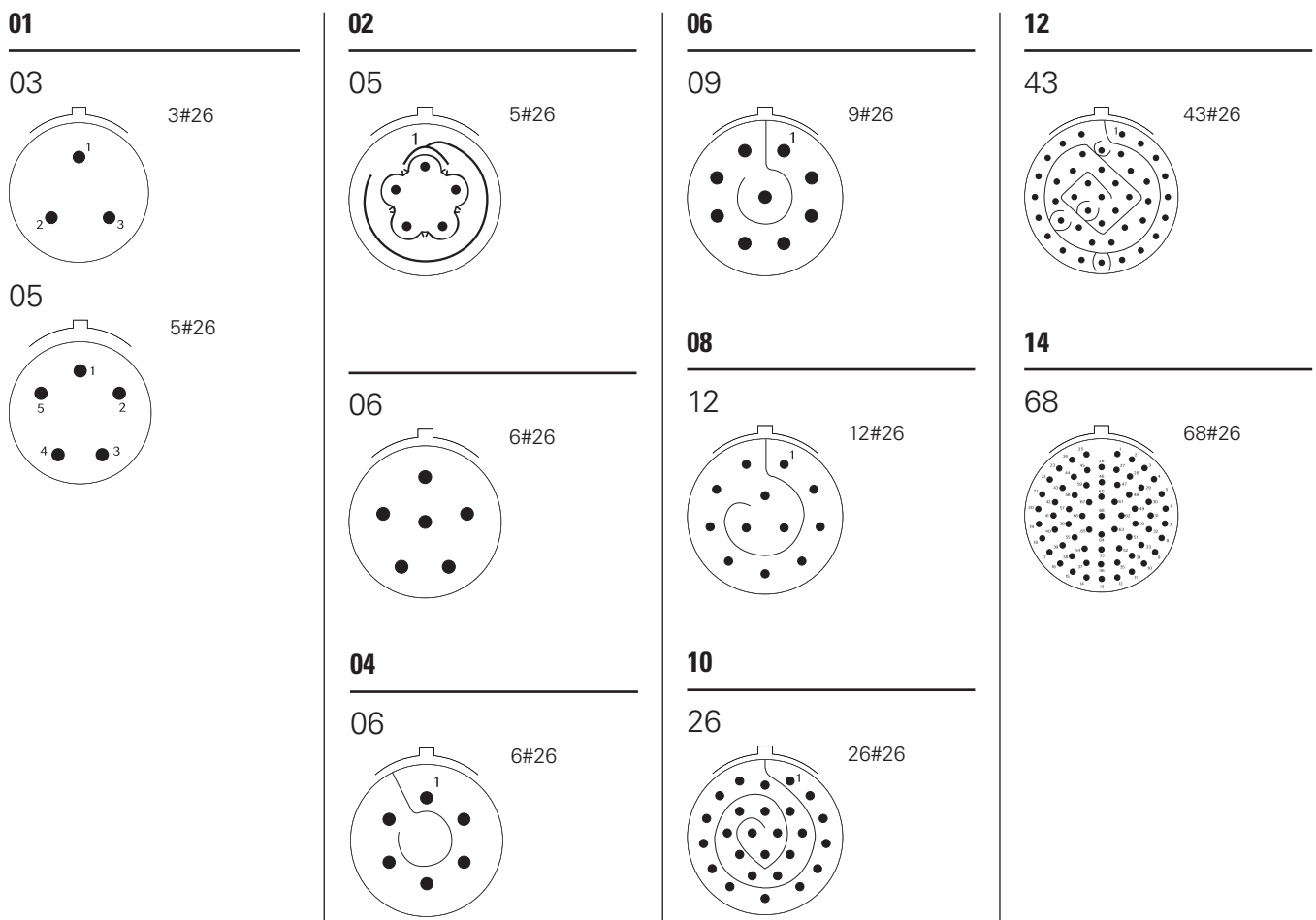
Salt spray

48 hours

Part numbers



Contact layouts (viewed from front face of male insulator)



8STA series integrated clinch nuts

Technical specifications



Description

- A convenient and time saving feature - weight saving opportunities: elimination of nut plates
- Souriau offering:
 - 12 shell sizes available, from size 02 to 24
 - Available with standard crimp contacts (shell type 0) and PCB contacts (shell type 2)

Technical specifications

Mechanical

Shell

Aluminium alloy

Shell plating

Conductive black zinc

Insulator

Thermoplastic

Grommet & seal

Liquid silicone rubber

Contact

Copper alloy

Contact plating

Gold

Endurance

500 mating cycles

Shock

300g for 3ms and EIA-364-27

Vibration

147m/s², 10 to 2000Hz

Contact retention

Size 26 (shell 01):	20 N
Size 26 (02-06):	30 N
Size 26:	35 N
Size 22D:	45 N
Size 20:	60 N
Size 16:	100 N
Size 12:	100 N
Size 8:	110 N
Size 4:	200 N

Electrical

Please see page 16 for sizes 02 to 06, and **page 19** for sizes 08 to 24

Environmental

Operating temperature

-55°C to +175°C (-67°F to +347°F)

Sealing mated connectors

IP67 (1 meter for 30 min minimum)

Salt spray

48 hours

Current solution:



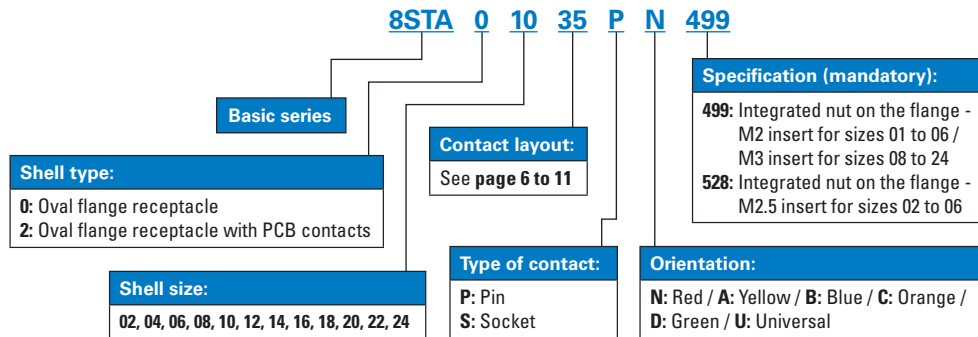
Connector + extra nut plate fixed on the rear connector side.

NEW solution:



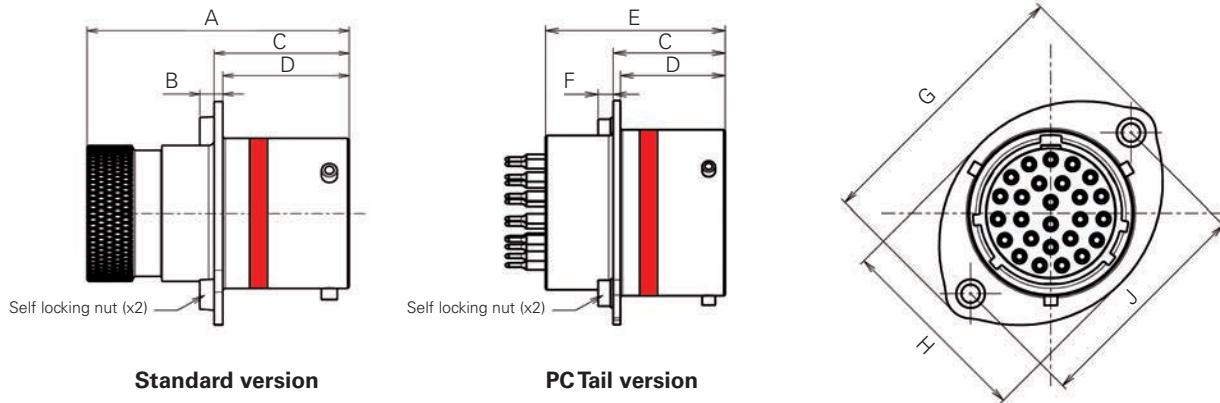
Integrated clinch nuts on the flange = Cost and time saving!

Part numbers



Dimensions

Oval flange receptacle



Shell size	A	B	C	D	E max.	F	G max.	H max.	J ±0.20
02	16.30	3.22	10.15	8.80	17.5	2.05	21.4	10.50	15.4
04	18.30	3.37	10.7	9.2	18.3	2.05	22.3	13.2	16.4
06	23.25	3.83	12.95	10.95	23.25	2.05	24.0	15.0	18.2
08	33.4	3.32	17.21	16.05	27.65	2.72	29.25	16.50	21.40
10	33.4	3.32	17.21	16.05	27.65	2.72	33.75	19.50	25.90
12	33.4	3.32	17.21	16.05	27.65	2.72	36.95	24.00	29.10
14	33.4	3.32	17.21	16.05	27.65	2.72	40.35	27.00	32.50
16	33.4	3.32	17.21	16.05	27.65	2.72	42.65	30.30	34.80
18	33.4	3.32	17.21	16.05	27.65	2.72	46.05	33.70	38.20
20	33.4	3.32	17.21	15.29	27.65	2.72	49.45	37.00	41.60
22	33.4	3.32	17.21	15.29	27.65	2.72	52.85	40.40	45.00
24	33.4	3.32	18.20	15.29	27.65	2.72	57.35	43.40	49.50

For other dimensions please see:
 Page 18 for standard version sizes 02 to 06.
 Page 21 for standard version sizes 08 to 24.
 Page 44 for PC Tail version sizes 02 to 24.

Note: All dimensions are in millimeters (mm)

8STA series single hole fixing

Technical specifications



Description

- Half flange weight saving connector
- Derived from MIL-DTL-38999 & JN1003 standard
- 100% scoop proof
- Available from 02 to 24 shell sizes
- Clinch nuts or PCB version available

Technical specifications

Mechanical

Shell

Aluminium alloy

Shell plating

Conductive black zinc:
Nickel (F)

Insulator

Thermoplastic

Grommet & seal

Liquid silicone rubber

Contact

Copper alloy

Contact plating

Gold

Endurance

500 mating cycles

Shock

300g for 3ms and EIA-364-27

Vibration

147m/s², 10 to 2000Hz

Contact retention

Size 26 (shell 01): 20 N
Size 26 (02-06): 30 N
Size 26: 35 N
Size 22D: 45 N
Size 20: 60 N
Size 16: 100 N
Size 12: 100 N
Size 8: 110 N
Size 4: 200 N

Electrical

Test voltage

Service	Sea level	@21,000m
R	400	N/A
S	1,000	N/A
M	1,300	800
N	1,000	600
I	1,800	1,000
II	2,300	1,000

Contact resistance

Size 26: <16 mΩ
Size 22D: 14.6 mΩ
Size 20: 7.3 mΩ
Size 16: 3.8 mΩ
Size 12: 3.5 mΩ
Size 8: 3 mΩ
Size 4: 2 mΩ

Insulation resistance

≥ 5000MΩ @ 400Vdc / Size 26
≥ 5000MΩ @ 500Vdc / All other sizes

Contact rating

Size 26: 3 Amp
Size 22D: 5 A
Size 20: 7.5 A
Size 16: 13 A
Size 12: 23 A
Size 8: 45 A
Size 4: 80 A

Shell continuity

≤10 mΩ

Environmental

Operating temperature

-55°C to +175°C (-67°F to +347°F)

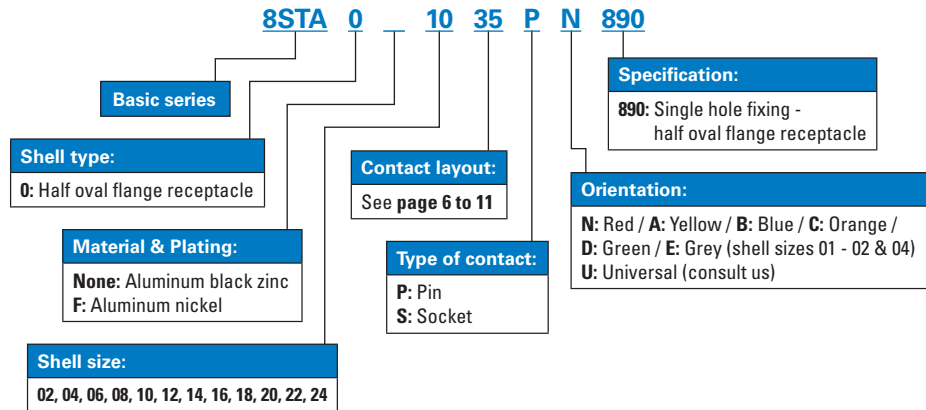
Sealing mated connectors

IP67 (1 meter for 30 min minimum)

Salt spray

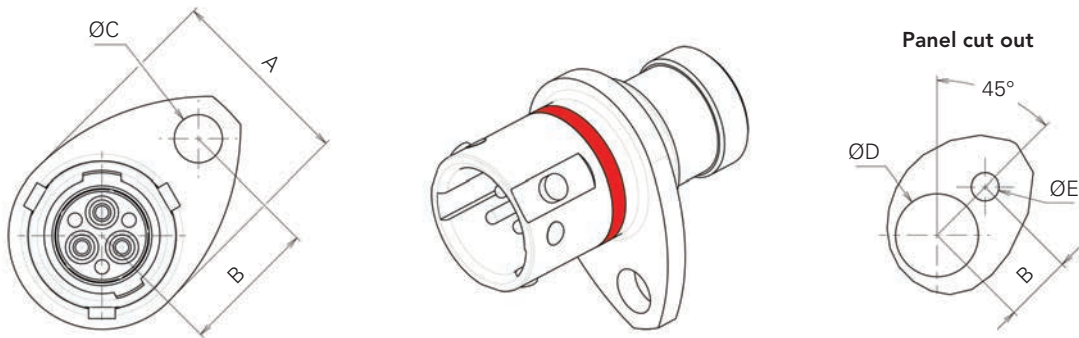
Aluminum nickel: 48 hours
Aluminum conductive black zinc:
48 hours

Part numbers



For other configuration (clinch nuts, PC tail, etc.) please consult us.

Dimensions



Size	02	04	06	08	10	12	14	16	18	20	22	24
A max.	10.7/0.42"	13.2/0.52"	14.9/0.59"	16.5/0.65"	19.5/0.77"	24.0/0.94"	27.0/1.06"	30.3/1.19"	33.7/1.33"	37.0/1.46"	40.4/1.59"	43.4/1.71"
B^{±0.1}	7.65/0.30"	8.1/0.32"	9.0/0.35"	10.7/0.42"	12.95/0.51"	14.55/0.57"	16.25/0.64"	17.4/0.69"	19.1/0.75"	20.8/0.82"	22.5/0.89"	24.75/0.97"
ØC max.	2.80/0.11"	2.80/0.11"	2.80/0.11"	3.20/0.13"	3.20/0.13"	3.20/0.13"	3.20/0.13"	3.20/0.13"	3.20/0.13"	3.20/0.13"	3.20/0.13"	3.77/0.15"
ØD^{±0.1}	9.3/0.37"	12.0/0.47"	13.0/0.51"	14.5/0.57"	17.4/0.69"	21.9/0.86"	25.0/0.98"	28.2/1.11"	31.4/1.24"	34.6/1.36"	37.6/1.48"	41.0/1.61"
ØE^{±0.2}	3.10/0.12"	3.10/0.12"	3.10/0.12"	3.60/0.14"	3.60/0.14"	3.60/0.14"	3.60/0.14"	3.60/0.14"	3.60/0.14"	3.60/0.14"	3.60/0.14"	4.10/0.16"

Note: All dimensions are in millimeters and inches (mm/inch).

8STA series quick release for steering boss system

Technical specifications



Description

- Rugged aluminium body to ensure long service life in the harshest environment.
- 100% scoop proof.
- Available in 2 shell sizes: 10 and 12, please consult us for other sizes.
- Standard insulators shell sizes 10 and 12 available.

Technical specifications

Mechanical

- Shell**
Aluminium
- Shell plating**
Conductive black zinc
- Insulator**
Thermoplastic
- Grommet & seal**
Liquid silicone rubber
- Contact**
Copper alloy
- Contact plating**
Gold
- Endurance**
500 mating cycles
- Shock**
300g for 3ms and EIA-364-27
- Vibration**
147m/s², 10 to 2000Hz

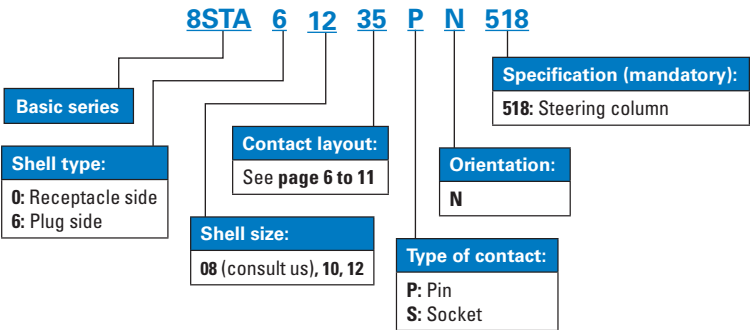
Electrical

- Contact resistance**
Size 22D: 14.6 mΩ
- Insulation resistance**
≥ 5000MΩ @ 500Vdc
- Contact rating**
Size 22D: 5 Amp
- Shell continuity**
≤10 mΩ

Environmental

- Operating temperature**
-55°C to +175°C (-67°F to +347°F)
- Sealing mated connectors**
IP67 (1 meter for 30 min minimum)
- Salt spray**
48 hours

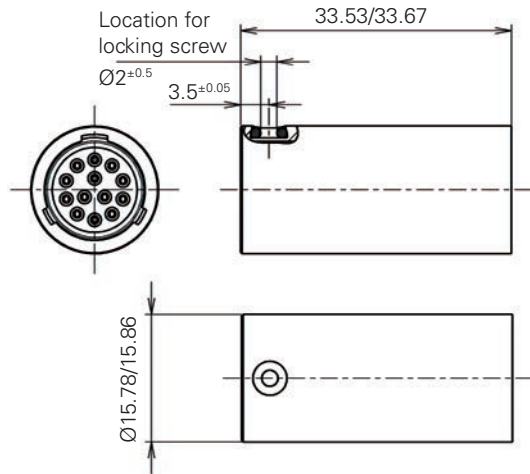
Part numbers



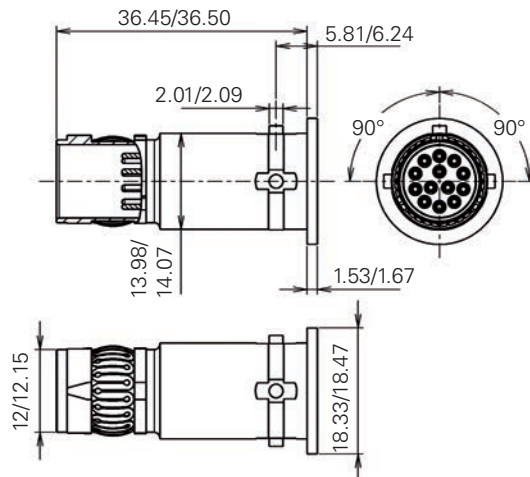
Dimensions

Shell size 10

Female receptacle

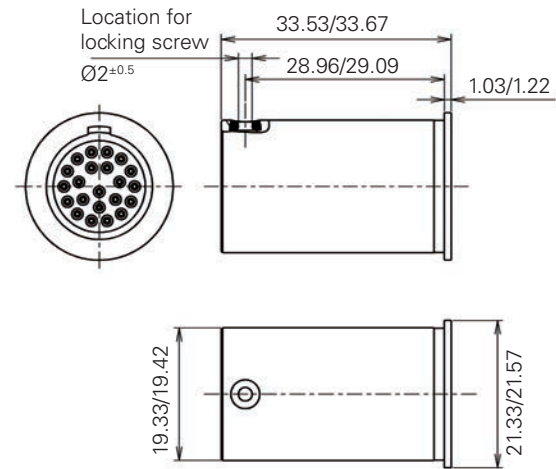


Male plug

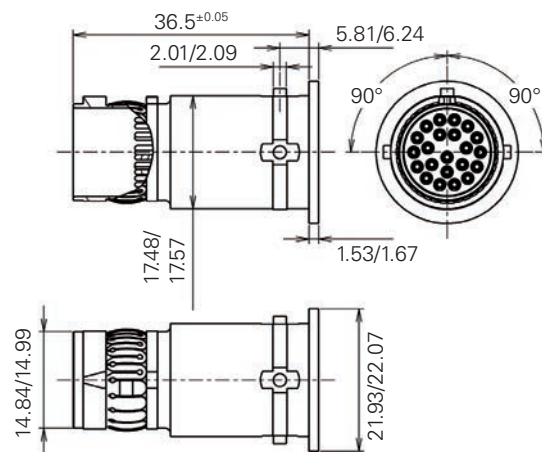


Shell size 12

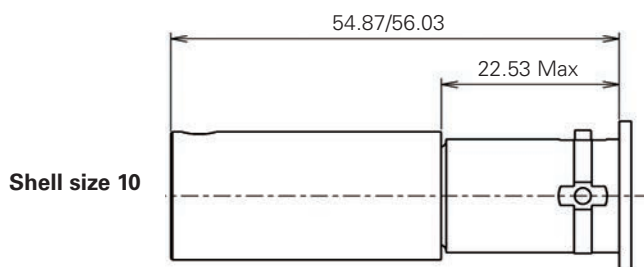
Female receptacle



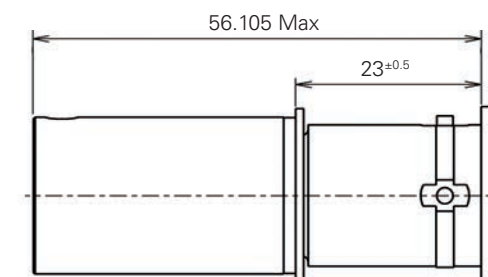
Male plug



Mounting dimension requirement



Shell size 10



Shell size 12

Note: All dimensions are in millimeters (mm)

blind mating plug sizes 08 to 24

Technical specifications



Description

- Blind mating solution for quick connection in hard-to-reach areas.
- Specific 8STA plug: compensating for misalignment in 3 axes.
- Blind connection:
 - Easy and fast connection without any coupling/uncoupling between float-mounting unit and fixed unit.
 - 100% Scoop proof.
- A versatile product:
 - Available in sizes 10, 12, 14 and 16
 - All layouts according connector shell size.
 - Available in crimp contacts.
- Mandatory mating part: standard jam nut receptacle 8STA7

Technical specifications

Mechanical

Shell

Aluminium alloy

Shell plating

Conductive black zinc

Insulator

Thermoplastic

Grommet & seal

Liquid silicone rubber

External cover

Green fluoro silicone

Contact

Copper alloy

Contact plating

Gold

Contact retention

Size 26 (shell 01):	20 N
Size 26 (02-06):	30 N
Size 26:	35 N
Size 22D:	45N
Size 20:	60N
Size 16:	100N
Size 12:	100N
Size 8:	110N
Size 4:	200N

Flange dimension

- Flange of plug size 16 equivalent to flange of receptacle size 22
- Flange of plug size 14 equivalent to flange of receptacle size 20
- Flange of plug size 12 equivalent to flange of receptacle size 18
- Flange of plug size 10 equivalent to flange of receptacle size 16

Electrical

Test voltage

Service	M	N	I	II
Sea level	1300	1000	1800	2300

Contact resistance

Size 22D:	4.6 mΩ
Size 20:	7.3 mΩ
Size 16:	3.8 mΩ
Size 12:	3.5 mΩ
Size 4:	2 mΩ

Insulation resistance

≥ 5000 MΩ (at 500 Vdc)

Contact rating

Size 22D:	5A
Size 20:	7.5A
Size 16:	13A
Size 12:	23A
Size 8:	45A
Size 4:	80A

Environmental

Temperature range

-55°C to +175°C (-67°F to +347°F)

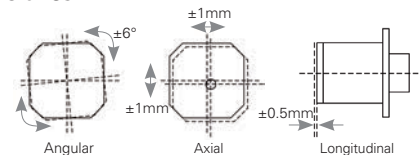
Sealing mated connectors

IP67 (1 meter for 30 min. minimum)

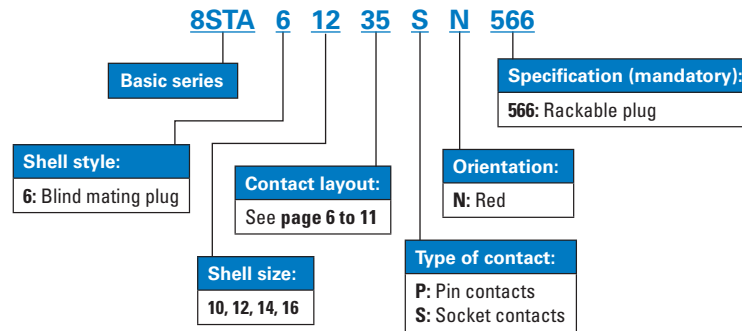
Salt spray:

48 hours

Compensating for misalignment in 3 axes



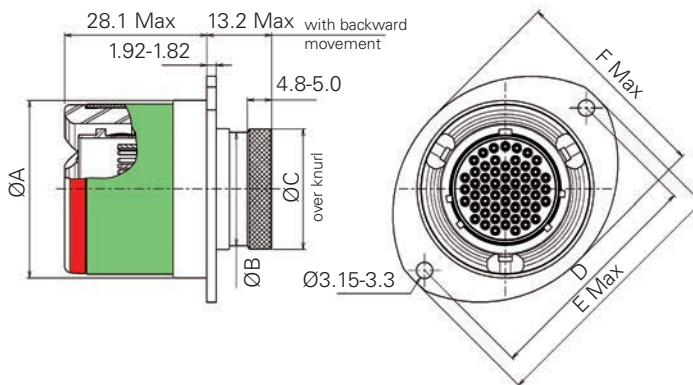
Part numbers



Note: Receptacle to be used with rackable plug = 8STA7xxxxx (standard jam nut version)

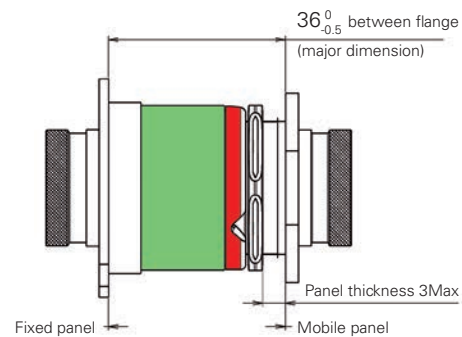
Dimensions

Plug type 6



Mated connector

(plug type 6 & jam nut receptacle type 7)



Shell size	ØA ^{+0.3} ₀	ØB ^{+0.2} ₀	ØC	D ^{+0.4} ₀	E	F
10	25.17	12.85	13.72	34.60	41.00	30.30
12	28.35	15.92	17.26	38.00	44.70	33.70
14	31.52	18.90	20.41	41.40	47.90	37.00
16	34.70	22.08	23.60	44.80	51.00	40.40

Note: All dimensions are in millimeters (mm)

8STA series hermetic connectors

Technical specifications



Description

- Bayonet coupling connector
- Glass sealed hermetic:
 - High hermeticity performance
 - Compact low profile
- Various mounting styles:
 - Compact solder mount receptacle
 - Easy to replace jam nut receptacle
- Solder cup or PC tail contacts
- Specific fuel tank version for long term fuel immersion

Technical specifications

Mechanical

Shell

Stainless steel

Shell plating

Passivated

Insulator

Glass bead

Contact

Nickel iron

Contact plating

Gold

Endurance

500 mating cycles

Electrical

Test voltage

Service I: 1800V

Service M: 1300V

Contact resistance

2 mΩ

Insulation resistance

≥ 5000MΩ (at 500Vdc)

Contact rating

Size 16: 10 A

Size 20: 5 A

Size 22D: 3 A

Size 26: 1.8 A

Environmental

Operating temperature

-55°C to +175°C (-67°F to +347°F)

Sealing mated connectors

IP67 (1 meter for 30 min minimum)

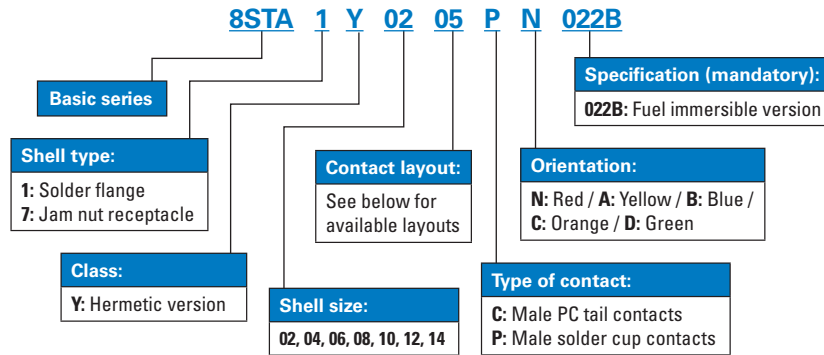
Salt spray

48 hours

Hermeticity

Leak rate < 1.10⁻⁷ atm.cm³/s
(helium gas test)

Part numbers

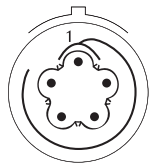


Contact layouts (viewed from front face of male insulator)

● Contact #26 ○ Contact #22D ◐ Contact #20 ◑ Contact #16

02

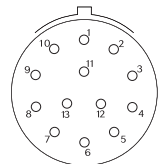
05



5#26
Service R

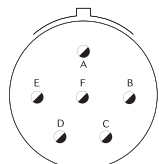
10

35



13 #22D
Service M

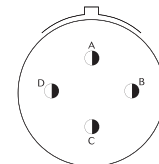
98



6 #20
Service I

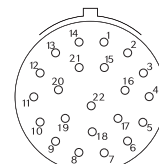
12

04



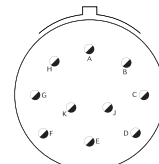
4 #16
Service I

35



22 #22D
Service M

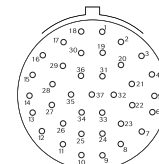
98



10 #20
Service I

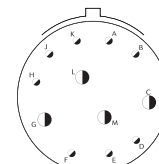
14

35



37 #22D
Service M

97



4 #16, 8 #20
Service I

8STA series hermetic connectors

Ordering informationw

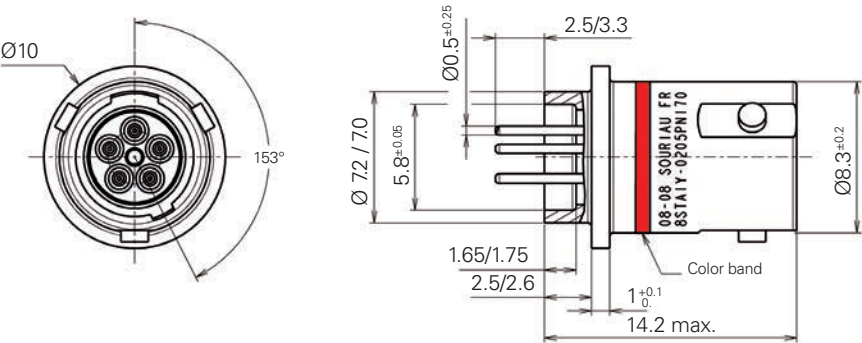
Contact layouts (matrix)

Shell size	Layout	Hermetic 8STA	Number of contacts				
			#26	#22D	#20	#16	#12
02	02-05	OK	5				
	02-35	Available on request, please consult us		3			
04	04-05	Available on request, please consult us	5				
	04-06	Available on request, please consult us	6				
	04-35	Available on request, please consult us		3			
06	06-05	Available on request, please consult us	5				
	06-09	Available on request, please consult us	9				
	06-35	Available on request, please consult us		5			
08	08-12	Available on request, please consult us	12				
	08-35	Available on request, please consult us		6			
	08-98	Available on request, please consult us			3		
10	10-02	Available on request, please consult us				2	
	10-04	Available on request, please consult us			4		
	10-05	Available on request, please consult us			5		
	10-22	Available on request, please consult us		4			
	10-26	Available on request, please consult us	26				
	10-35	OK		13			
	10-98	OK			6		
12	12-03	Available on request, please consult us				3	
	12-04	OK				4	
	12-08	Available on request, please consult us			8		
	12-26	Available on request, please consult us		6			2
	12-35	OK		22			
	12-43	Available on request, please consult us	43				
	12-98	OK			10		
14	14-05	Available on request, please consult us				5	
	14-15	Available on request, please consult us			14	1	
	14-18	Available on request, please consult us			18		
	14-19	Available on request, please consult us			19		
	14-35	OK		37			
	14-68	Available on request, please consult us	68				
	14-97	OK			8	4	

OK = Souriau's layout

Dimensions

Solder flange receptacle - size 02

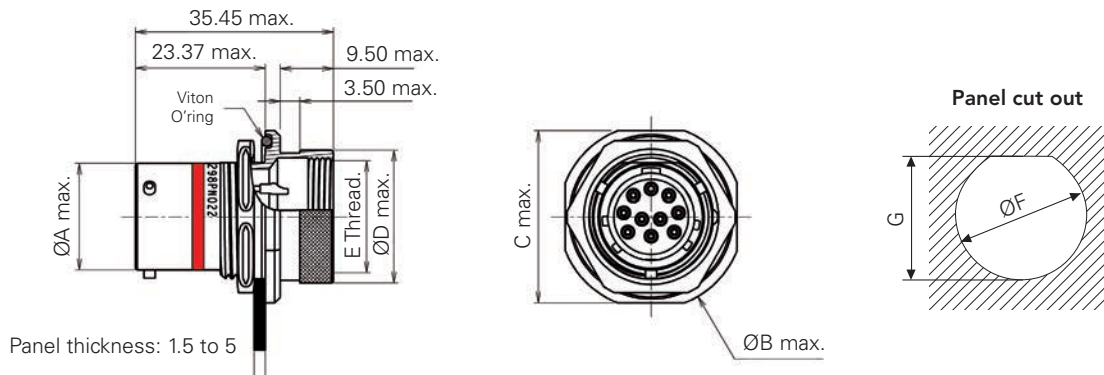


Please consult us for other shell sizes.

Note: All dimensions are in millimeters (mm)

Dimensions

Jam nut receptacle - sizes 10 to 14



Shell size	Ø A max.	Ø B max.	C max.	Ø D max.	E Thread	Panel cut out	
						Ø F ± 0.10	G ± 0.20
10	15.04	28.40	25.95	20.50	M18 x 1	17.70	16.80
12	19.09	33.00	30.75	23.67	M21 x 1	22.70	20.90
14	22.26	36.30	33.85	26.84	M24 x 1	25.70	24.10

Please consult us for other shell sizes.

Connector weight

Shell size	Receptacle type	Maximum weight in grams
02	In-line	2.5
10	Jam nut	35
12	Jam nut	52
14	Jam nut	63

Note: All dimensions are in millimeters (mm)

8STA series hermetic feedthrough

Technical specifications



Description

- Solder contacts on both sides of bulkhead
- Designed for high vibration environment
- Wire soldered on both sides of the feed-through: no plugs needed
- Cost and space saving:
 - Adapted to space-constrained area
 - No plugs necessary
- Easy to solder:
 - Contacts fully tin plated
 - Different contact sizes available
- High performance sealing:
<1.10-7 atm.cm3/s

Technical specifications

Mechanical

- Shell**
Stainless steel
- Shell plating**
Passivated
- Insulator**
Glass bead
- Contact**
Nickel iron, tin plated

Electrical

- Test voltage**
Service M: 1300V
- Contact resistance**
2 mΩ
- Insulation resistance**
≥ 5000MΩ (at 500Vdc)
- Contact rating**
Size 22D: 3 A

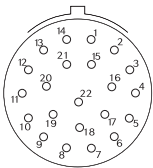
Environmental

- Operating temperature**
-55°C to +175°C (-67°F to +347°F)
- Sealing mated connectors**
IP67 (1 meter for 30 min minimum)
- Salt spray**
48 hours
- Hermeticity**
1.10-7cm3/s

Contact layouts (viewed from front face of male insulator)

12

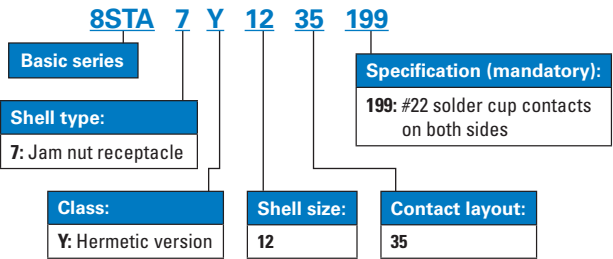
35



22#22D
Service M

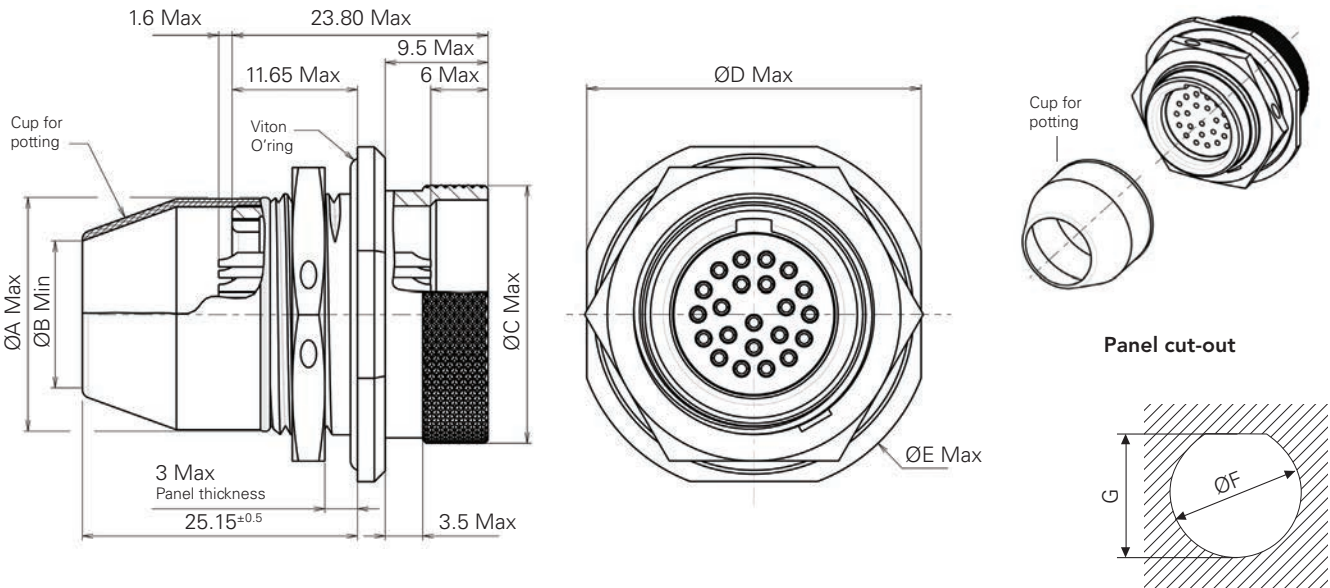
Consult us for other layouts or shell sizes.

Part numbers



Note: Delivery will contain the cup for potting and the jam nut receptacle not mounted. Consult us for other layouts or shell sizes.

Dimension



Size	A	B	C	D	E	F	G
12	21.70	12.90	23.70	30.85	33.00	22.70	20.90

Note: All dimensions are in millimeters (mm)

8STA series PC tail contacts

Technical specifications



Technical specifications

Mechanical

- Shell**
Aluminium
- Shell plating**
Conductive black zinc
- Insulator**
Liquid silicone rubber
- Seal**
Liquid silicone rubber
- Contact**
Copper alloy
- Contact plating**
Gold

- Endurance**
500 matings/unmatings
- Shock**
300g for 3ms and EIA-364-27
- Vibration**
147m/s², 10 to 2000 Hz

Electrical

- Contact resistance**
Size 26: 16 mΩ
Size 22D: 14.6 mΩ
Size 20: 7.3 mΩ
Size 16: 3.8 mΩ
- Insulation resistance**
≥ 5000MΩ (at 500Vdc)
- Contact rating**
Size 26: 3 Amp
Size 22D: 5 Amp
Size 20: 7.5 Amp
Size 16: 13 Amp
- Shell continuity**
≤ 10mΩ

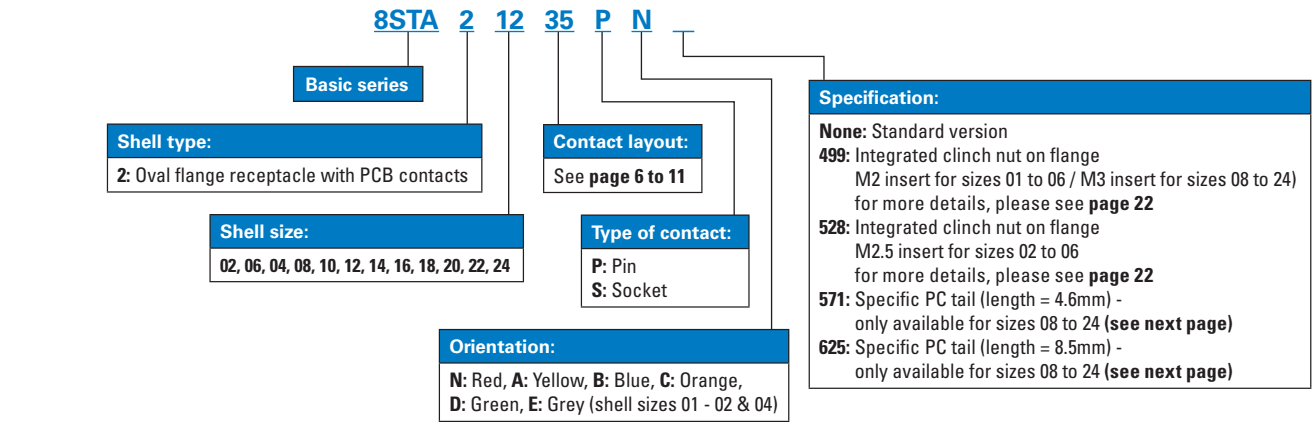
Environmental

- Temperature range**
-55°C to +175°C (-67°F to +347°F)
- Sealing mated connectors**
IP67 (1 meter for 30 min minimum)
- Salt spray**
48 hours

Description

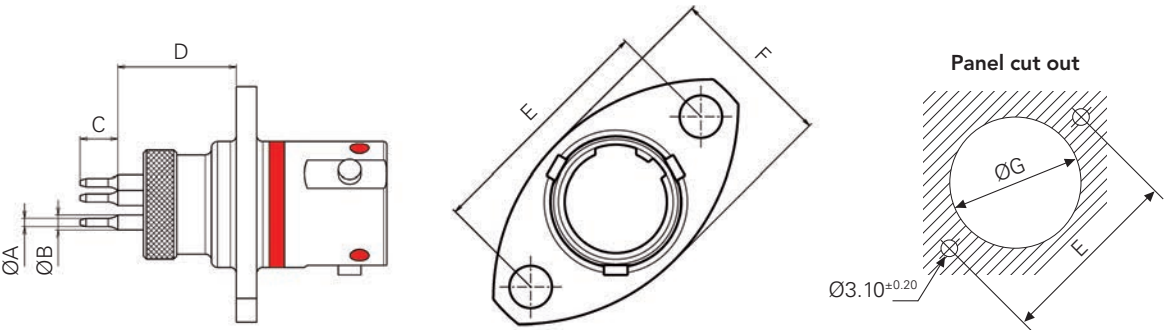
- Rugged aluminium body to ensure long service life in the harshest environment
- 8STA PCB connectors are available in shell sizes 02 to 24 (12 sizes)
- 100% scoop proof
- Available with clinch nut
- 6 color coded keyway orientations

Part numbers



Dimensions

Shell sizes 02, 04 & 06



Contact size	ØA Max	ØB Max
#22D	0.70	1.25
#26	0.55	1.16

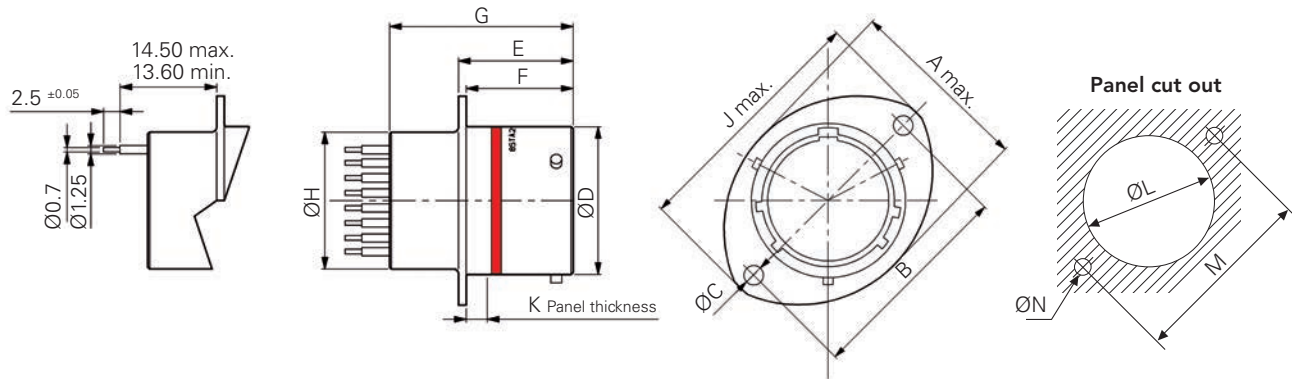
Shell size	C Max	D max	E ^{+0.2}	F Max	ØG ^{+0.1}
02-05	2.55	8.3	15.3	10.7	9.3
02-35	2.55	9.5	15.3	10.7	9.3
04	2.5	8.7	16.2	13.2	12.0
06	4.1	14.7	18.0	14.8	13.0

Note: All dimensions are in millimeters (mm)

8STA series PC tail contacts

Ordering information

Shell sizes 08 to 24



Shell size	A Max	B ^{+0.20}	ØC	ØD ^{+0.2}	E	F	G Max	ØH Max	J Max	K Max	ØL ^{+0.10}	M ^{+0.20}	ØN ^{+0.20}
08	16.50	21.40	3.20	12.00	17.21	16.05	27.65	11.10	27.20	3.00	14.50	21.40	3.60
10	19.50	25.90	3.20	14.97	17.21	16.05	27.65	13.90	32.00	3.00	17.40	25.90	3.60
12	24.00	29.10	3.20	19.05	17.21	16.05	27.65	17.35	35.20	3.00	21.90	29.10	3.60
14	26.90	32.50	3.20	22.22	17.21	16.05	27.65	20.50	38.40	3.00	25.00	32.50	3.60
16	30.30	34.80	3.20	25.40	17.21	16.05	27.65	23.70	41.00	3.00	28.20	34.80	3.60
18	33.70	38.20	3.20	28.57	17.21	16.05	27.65	26.91	44.70	3.00	31.40	38.20	3.60
20	37.00	41.60	3.20	31.77	17.21	15.29	27.65	30.11	47.80	3.00	34.60	41.60	3.60
22	40.40	45.00	3.20	34.90	17.21	15.29	27.65	33.20	51.00	3.00	37.60	45.00	3.60
24	43.40	49.50	3.77	38.10	18.20	15.29	27.65	36.40	55.80	3.00	41.00	49.50	4.10

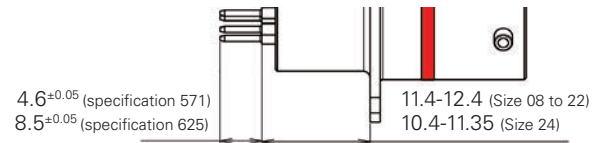
Specific PC Tail version

Available with layouts using contacts #22D and/or #20

Also available with clinch nut: please consult us

Specification 571: PC tail length = 4.6 mm

Specification 625: PC tail length = 8.5 mm



Note: All dimensions are in millimeters (mm)



Description

- Available for 8STA & 8TA series
- Special fuel resistant insert: continuous immersion without loss of performance
- Excellent connector sealing on panels by using the jam nut version

Technical specifications

Mechanical

Shell

Aluminium alloy

Shell plating

Conductive black zinc

Insulator

Thermoplastic

Grommet & seal

Fluoroelastomer

Contact

Copper alloy

Contact plating

Gold

Endurance

500 mating cycles

Shock

300g for 3ms and EIA-364-27

Vibration

8STA: 147m/s², 10 to 2000Hz

8TA: random 100 to 1000 Hz - 1G²/Hz

Contact retention

Size 26 (shell 01): 20 N

Size 26 (02-06): 30 N

Size 26: 35 N

Size 22D: 45 N

(8TA: Size 22D only)

Size 20: 60N

Size 16: 100 N

Size 12: 100 N

Size 8: 110 N

Size 4: 200 N

Electrical

Test voltage

1300 Vrms

Contact resistance

(8TA: Size 22D only)

Size 22D: 14.6 mΩ

Size 20: 7.3 mΩ

Size 16: 3.8 mΩ

Size 12: 3.5 mΩ

Insulation resistance

≥ 5000 MΩ (at 500 Vdc)

Contact rating

(8TA: Size 22D only)

Size 22D: 5 A

Size 20: 7.5 A

Size 16: 13 A

Size 12: 23 A

Shell continuity

≤10 mΩ

Environmental

Operating temperature

-55°C to +105°C (-67°F to +221°F)

Sealing mated connectors

IP67 (1 meter for 30 min minimum)

Salt spray

48 hours

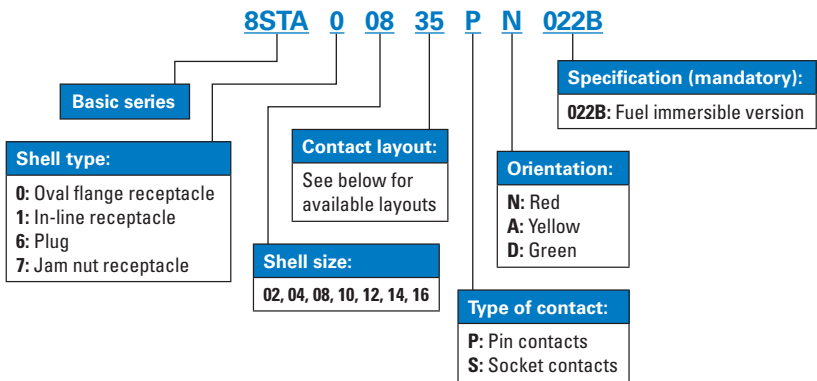
Resistance to fluids

Withstands most motorsport fluids

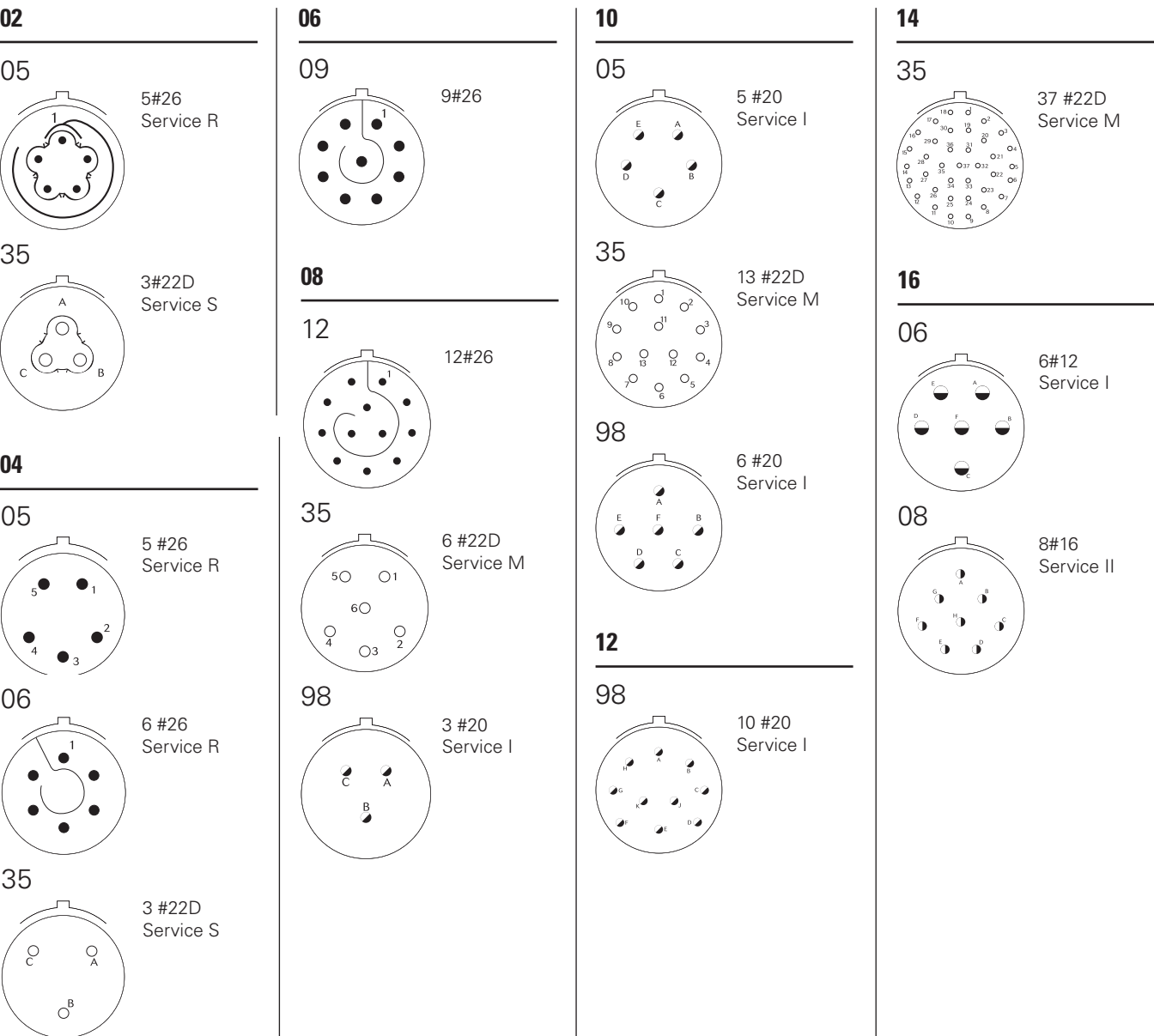
8STA/8TA series fuel immersible

Ordering information

Part numbers



Contact layouts (viewed from front face of male insulator)





Description

- Rugged aluminium body to ensure long service life in the harshest environment
- Compact low profile
- 6 gold plated #22D contacts
- Environment sealing from interfacial seal and rear grommet
- Positive locking mechanism with locked color indicators 3 keyway orientations
- Not scoop proof
- Conductive black zinc plating

Technical specifications

Mechanical

Shell

Aluminium alloy

Shell plating

Conductive black zinc
Nickel (consult us)

Insulator

Thermoplastic

Grommet & seal

Liquid silicone rubber

Contact

Copper alloy

Contact plating

Gold

Endurance

500 mating cycles

Shock

300g for 3ms and EIA-364-27

Vibration

Random 100 to 1000 Hz - 1 g²/Hz

Contact retention

45 N

Electrical

Test voltage

1300 Vrms sea level)

Contact resistance

<14.6 mΩ

Insulation resistance

≥ 5000 MΩ (at 500 Vdc)

Contact rating

5A

Shell continuity

<60 mΩ

Environmental

Operating temperature

-55°C to +175°C (-67°F to +347°F)

Sealing mated connectors

IP67 (1 meter for 30 min minimum)

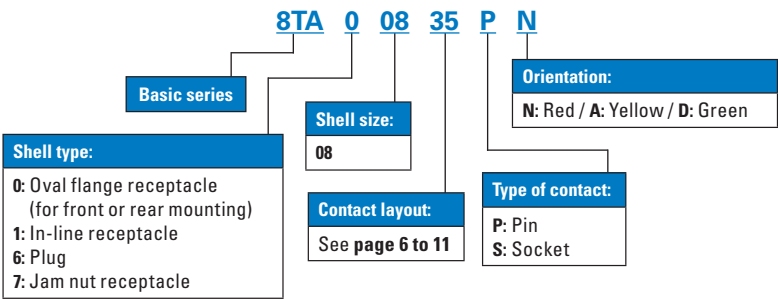
Salt spray

48 hours

8TA series compact low profile

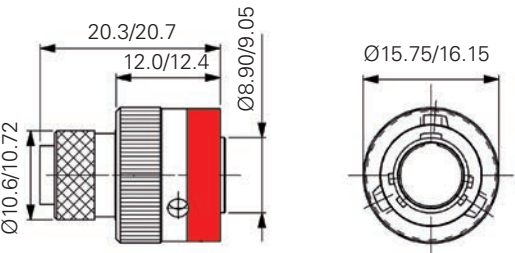
Ordering information

Part numbers

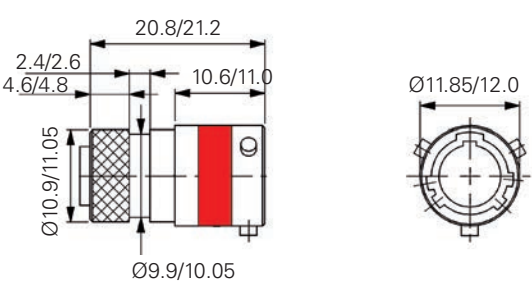


Dimensions

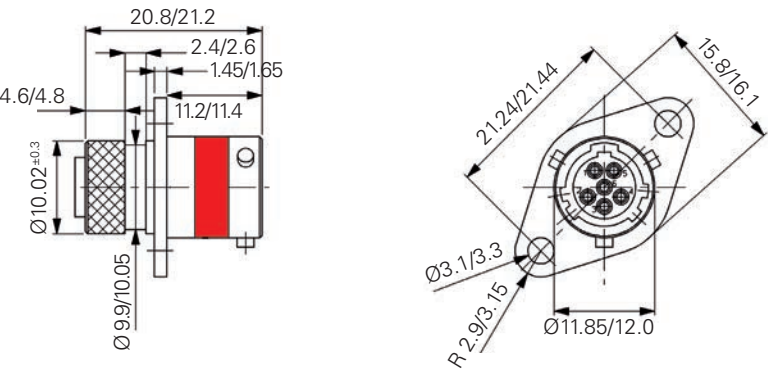
Plug



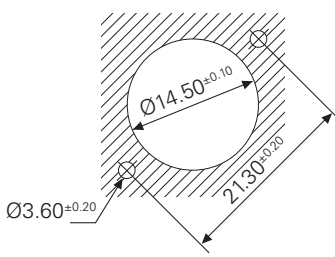
In-line receptacle



Oval flange receptacle

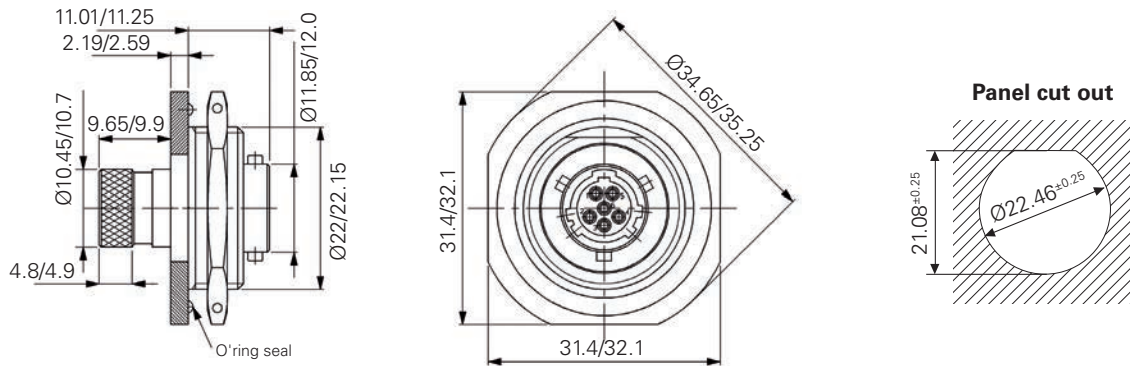


Panel cut out

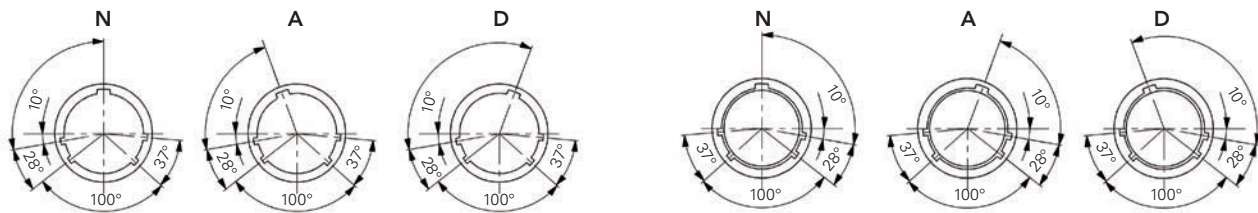


Note: All dimensions are in millimeters (mm)

Jam nut receptacle



Orientations



Viewed from front face of receptacle

Viewed from front face of plug

Key positions	Alpha 1	Color band
N	100°	Red
A	82°	Yellow
D	118°	Green

Note: All dimensions are in millimeters (mm)

8STA/8TA series

Contacts

Contacts

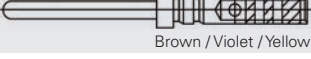
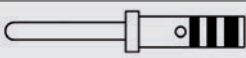
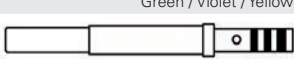
Crimp contacts

Series	Contact size	Shell size & layout	Contact type	Contact Ø max.	Part numbers	Admissible wire section				External Ø over insulation (mm)	
						mm ²		AWG		Min.	Max.
						Min.	Max.	Min.	Max.		
8STA Series	#26 High Density	06-05	Pin	0.50	8593 0998 A	0.055	0.215	30	24	0.60	0.83
			Socket	0.50	8593 0999 A	0.055	0.215	30	24	0.60	0.83
		Shell sizes 08 to 24	Pin	0.50	8599-0297	0.055	0.215	30	24	0.60	0.83
			Socket	0.50	8599-0298	0.055	0.215	30	24	0.60	0.83
		04-05	Pin	0.50	8593-0947 A	0.055	0.215	30	24	0.60	0.83
			Socket	0.50	8593-0948 A	0.055	0.215	30	24	0.60	0.83
		02-05; 04-06; 06-09	Pin	0.50	8599-1001	0.055	0.215	30	24	0.60	0.83
			Socket	0.50	8599-1002	0.055	0.215	30	24	0.60	0.83
		01-03; 01-05; 02-06	Pin	0.50	8599-0297	0.055	0.215	30	24	0.60	0.83
			Socket	0.50	8593-2516A	0.055	0.215	30	24	0.60	0.83
	#22D Signal contact	Shell sizes 08 to 24	Pin	0.76	8599-0702 900	0.090	0.380	28	22	0.76	1.37
			Socket	0.76	8599-0706 900	0.090	0.380	28	22	0.76	1.37
		02-35; 04-35; 06-35	Pin	0.76	8599-0702 900	0.090	0.380	28	22	0.71	1.37
			Socket	0.76	8599-0710 900	0.090	0.380	28	22	0.71	1.37
	#20 Signal contact	Shell sizes 08 to 24	Pin	1.00	8599-0703 SA	0.215	0.600	24	20	1.02	2.11
			Socket	1.00	8599-0707 900	0.215	0.600	24	20	1.02	2.11
	#16 Signal contact	Shell sizes 08 to 24	Pin	1.60	8599-0704 MJ	0.600	1.340	20	16	1.65	2.77
			Socket	1.60	8599-0708 900	0.600	1.340	20	16	1.65	2.77
	#16 Coaxial contact	Shell sizes 08 to 24	Pin	1.60	M39029/76 424	RG 174; RG 179; RG 316				1.65	2.60
			Socket	1.60	M39029/77 428	RG 174; RG 179; RG 316				1.65	2.60
	#12 Signal contact	Shell sizes 08 to 24	Pin	2.40	8599-0705 MJ	1.910	3.180	14	12	2.46	3.61
			Socket	2.40	8599-0709 900	1.910	3.180	14	12	2.46	3.61
	#12 Coaxial contact	Shell sizes 08 to 24	Pin	2.40	M39029/102 558	RG 174; RG 179; RG 316				2.40	2.60
			Socket	2.40	M39029/103 559	RG 174; RG 179; RG 316				2.40	2.60
	#08 Power contact	Shell sizes 08 to 24	Pin	3.64	8599-7580	-	8.980	-	8	4.50	6.50
			Socket	3.64	8599-7581	-	8.980	-	8	4.50	6.50
			Boot	3.64	8599-4542	-	8.980	-	8	4.50	6.50
			Reductor*	3.64	8599-7645	-	8.980	-	8	4.50	6.50
	#08 Coaxial contact	Shell sizes 08 to 24	Pin	3.64	M39029/59 366	RG 188A/U RG 188A/U RG 188A/U RG 188A/U				-	2.80
			Socket	3.64	M39029/60 367	RG 188A/U RG 188A/U RG 188A/U RG 188A/U				-	2.80
			Boot	3.64	8590-4571	RG 188A/U RG 188A/U RG 188A/U RG 188A/U				-	2.80
	#08 Triaxial contact	Shell sizes 08 to 24	Pin	3.64	M39029/90-529	MIL-C17/176 00002; FILECA F2703/14				3.15	3.40
			Socket	3.64	M39029/91-530	RAYCHEM CHEMINAX 10612; FILOTEX M 17/176 00002				3.15	3.40
			Boot	3.64	8590-4571					3.15	3.40
	#04 Power contact (see page 25)	Shell sizes 08 to 24	Pin	5.75	8599-7520A 900	7	10	According to wire used			
			Socket	5.75	8599-7521A 900	7	10	According to wire used			
			Boot	5.75	8599-4593	7	10	According to wire used			
			Reductor**	5.75	8400-2351A	7	10	According to wire used			
			Pin	5.75	8599-7520A 900	4	16	According to wire used			
			Socket	5.75	8599-7521A 900	4	16	According to wire used			
			Boot	5.75	8599-4594	4	16	According to wire used			
8TA Series	#22D Signal contact	08-35	Pin	0.76	8599-0702 900	0.090	0.380	28	22	0.71	1.37
			Socket	0.76	8599-0710 900	0.090	0.380	28	22	0.71	1.37
	#20 Signal contact	08-98	Pin	1.00	8599-0703 SA	0.215	0.600	24	20	1.02	2.11
			Socket	1.00	8599-0711 900	0.215	0.600	24	20	1.02	2.11

* Reductor must be used for wire 8 mm² ** Reductor must be used for wire 8 & 10 mm²

Note: All dimensions are in millimeters (mm)

Thermocouple contacts

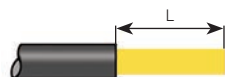
Contact size	Contact type	SOURIAU part numbers (without color code)	Part numbers	MIL-DTL-38999 contacts Profile and color code	Ø Contact (mm)	Wire section				Ø Over insulation (mm)	
						Awg	min	max	mm ²	min	max
#22D Chromel	Pin	-	M39029/87-472	 Red / Violet / Yellow	0.75	28	22	0.095	0.34	0.76	1.37
	Socket	-	M39029/88-484	 Yellow / Grey / Yellow	0.75	28	22	0.095	0.34	0.76	1.37
#22D Alumel	Pin	-	M39029/87-471	 Brown / Violet / Yellow	0.75	28	22	0.095	0.34	0.76	1.37
	Socket	-	M39029/88-483	 Orange / Grey / Yellow	0.75	28	22	0.095	0.34	0.76	1.37
#20 Chromel	Pin	8599-0749 900	8599-0949 900	 Blue / Violet / Yellow	1	24	20	0.21	0.6	1.02	2.11
	Socket	8599-0753 900	8599-0953 900	 Grey / Grey / Yellow	1	24	20	0.21	0.6	1.02	2.11
#20 Alumel	Pin	8599-0761 900	8599-0961 900	 Green / Violet / Yellow	1	24	20	0.21	0.6	1.02	2.11
	Socket	8599-0765 900	8599-0965 900	 Violet / Grey / Yellow	1	24	20	0.21	0.6	1.02	2.11

PC tail contacts

Contact size	Shell size & layout	Contact type	Contact Ø max.	Part numbers
#22D	02-35	Pin	0.76	8599 1031 900
		Socket	0.76	8599 1032 900
	04-35	Pin	0.76	F1P2P3C0004ALY
		Socket	0.76	F1P2ES3Z201A00
	Shell size 06	Pin	0.76	F1P1P3E0002AJJ
		Socket	0.76	F1P1ES3Z202A00
#26	02-05	Pin	0.76	F1P1P3E0001ALY
		Socket	0.76	F1P1ES3Z201A00
	04-05	Pin	0.50	8593 0949 A
		Socket	0.50	8593 0950 A
	04-06	Pin	0.50	8593 0953 A
		Socket	0.50	8593 0951 A
	06-05	Pin	0.50	8593 0954 A
		Socket	0.50	8593 0952 A
	06-05	Pin	0.50	8593 1000 A
		Socket	0.50	8593 1001 A
#20	Shell sizes 08 to 24	Pin	0.50	8599 0292
		Socket	0.50	8599 0293
#20	Shell sizes 08 to 24	Pin	1.04	8599 0292
		Socket	1.04	8599 0293
#16	Shell sizes 08 to 24	Pin	1.04	F1P1P3E0020ALY
		Socket	1.04	F1P1ES3Z001A00
#16	Shell sizes 08 to 24	Pin	1.61	F1P1P3E0016ALY
		Socket	1.61	F1P1ES31601A00

Wiring instruction

Cable preparation and wire stripping



L = length of wire stripping

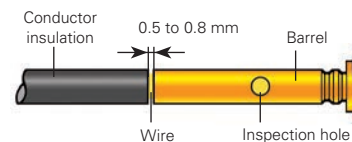
#26

Contact size	Shell size 01-05		Other shell sizes						
	Shell size 01	02-06*		#22D	#20	#16	#12	#8	#4
L	3.5	3.0	4	4	6	6	6	12	12

* See technical instruction N°386

Note: All dimensions are in millimeters (mm)

Insertion of wire in contact barrel



When inserting the stripped wire into the contact barrel check that no strands are left outside and that the wire is visible through the wire inspection hole in the barrel.

Important:

- Slide any accessories over wire strands before carrying out the following operations.
- Contacts are inserted and extracted from the rear of the connector.

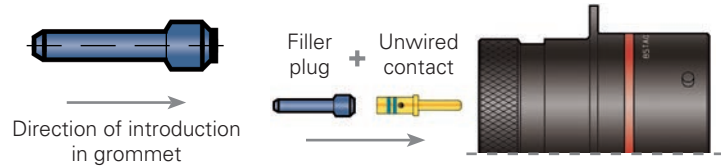
8STA/8TA series

Filler plugs & crimping tools

Filler plugs

These filler plugs are installed at the rear of unwired contacts to maintain connector sealing.

Contact size	MS Part number (Rev. N)	Color	SOURIAU Part number	Color
#22D	MS27488-22-2	Black	8660-212	Black
#20	MS27488-20-2	Red	8522-389A	Red
#16	MS27488-16-2	Green	8522-390A	Blue
#12	MS27488-12-2	Orange	8522-391A	Yellow



Recommended tooling

Crimp contacts

8STA Series sizes 01, 02, 04, 06 and 8TA Series

Contact size	Contact type	Wire size	Shell size & layout	Locator part number		Tool part number	
				Norm	SOURIAU	Norm	SOURIAU
#22D	Pin	22 to 28	02-35, 04-35, 06-35, 08-35 (8TA only)	M22520/2-09	8476-09	M22520/2-01	8476-01
	Socket	22 to 28	02-35, 04-35, 06-35, 08-35 (8TA only)	M22520/2-06	8476-06	M22520/2-01	8476-01
#26	Pin	24 to 30	06-05	-	8599-0048	M22520/2-01	8476-01
	Socket	24 to 30	06-05	-	8599-0049	M22520/2-01	8476-01
	Pin	24 to 30	04-05	-	8599-0050	M22520/2-01	8476-01
	Socket	24 to 30	04-05	-	8599-0051	M22520/2-01	8476-01
	Pin	24 to 30	02-05, 04-06, 06-09	-	640 088	M22520/2-01	8476-01
	Socket	24 to 30	02-05, 04-06, 06-09	-	640 089	M22520/2-01	8476-01
	Pin	24 to 30	01-03, 01-05, 02-06	-	8599-0397	M22520/2-01	8476-01
	Socket	24 to 30	01-03, 01-05, 02-06	-	8593-2556A	M22520/2-01	8476-01

Crimp contacts

8STA Series size 08 to 24

Contact size	Contact type	Plier M22520/1-01	Plier M22520/2-01 (SOURIAU 8476-01)	Plier M300BT	Pneumatic plier M22520/23-01	
		Turret part number	Locator part number	Locator part number	Turret part number	Locator part number
#26	Pin	-	8599-0397	-	-	-
	Socket	-	8599-0398	-	-	-
#22D	Pin	-	M22520/2-09	-	-	-
	Socket	-	M22520/2-06	-	-	-
#20	Pin	M22520/1-04	M22520/2-10	-	-	-
	Socket	M22520/1-04	M22520/2-10	-	-	-
#16	Pin	M22520/1-04	-	-	-	-
	Socket	M22520/1-04	-	-	-	-
#12	Pin	M22520/1-04	-	-	-	-
	Socket	M22520/1-04	-	-	-	-
#8	Pin	-	-	SP 593	M22520/23-02	8599-9601
	Socket	-	-	SP 593	M22520/23-02	8599-9601
#4	Pin	-	-	-	M22520/23-04	M22520/23-11
	Socket	-	-	-	M22520/23-04	M22520/23-11

Insertion and extraction tools

Contact size		Material	Part number		Color	
			Specification	SOURIAU	Insertion	Extraction
#26	Shells 02 to 06	Plastic	-	8599 0444 900	Blue	Red
	Shells 01 & 02-06 & 08 to 24	Plastic	-	8599 0394B 900	Black	White
	Shells 04-05	Plastic	M81969/14-01	-	Green	White
#22D		Plastic	M81969/14-01	-	Green	White
#20		Plastic	M81969/14-10	-	Red	Orange
#16		Plastic	M81969/14-03	-	Blue	White
#12		Plastic	M81969/14-04	-	Yellow	White
#8		Plastic	M81969/14-06	-	-	Red
		Metallic	-	8660 197	-	-
#4		Plastic	M81969/14-07	-	-	Blue
		Metallic	-	8533 8175	-	-



Boots (recommended)

8STA Series

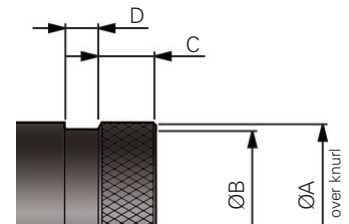
Shell size	Straight boot		90° boot	
	Raychem	Hellerman	Raychem	Hellerman
01	204W201-25	1038-4-G	224W201-25	1183-4-G
02	203W301-25-G02	1037-4-G	223W601-25	1182-4-G
04	204W221-25-G03	1037-4-G	224W221-25-G03	1182-4-G
06	204W221	1030-4-G	224W221	1181-4-G
08	202K121	152-42-G	222K121	1152-4-G
10	202K132	152-42-G	222K132	1152-4-G
12	202K142	154-42-G	222K142	1154-4-G
14	202K142	155-42-G	222K142	1155-4-G
16	202K153	156-42-G	222K153	1156-4-G
18	202K153	156-42-G	222K153	1156-4-G
20	202K163	157-43-G	222K163	1157-4-G
22	202K163	157-43-G	222K163	1157-4-G
24	202K174	157-43-G	222K174	1157-4-G

8TA Series

Shell size	Straight boot		90° boot	
	Raychem	Hellerman	Raychem	Hellerman
08	202K121	152-42-G	222K121	1152-4-G

Shrinkable termination detail

Shell size	8TA		8STA											
	08	01	02	04	06	08	10	12	14	16	18	20	22	24
ØA	8.65	5.60	7.20	8.65	9.90	10.62	13.72	17.26	20.41	23.6	26.76	29.93	33.11	36.3
ØB ^{±0.15}	8.00	5.05	6.55	8.00	9.25	9.70	12.65	16.02	19.00	22.23	25.22	28.37	31.86	34.67
C ^{±0.15}	2.70	2.20	2.20	2.70	4.20	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
D	2.30	2.30	2.30	2.30	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50



Note: All dimensions are in millimeters (mm)

8STA/8TA series

Metal protective caps

Metal protective caps with lanyard

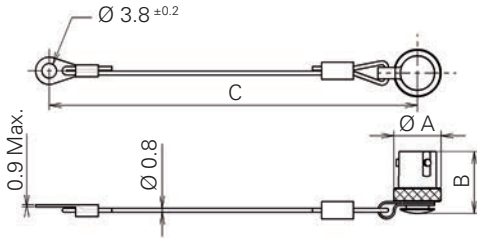
Plug caps

Cord material: Nylon

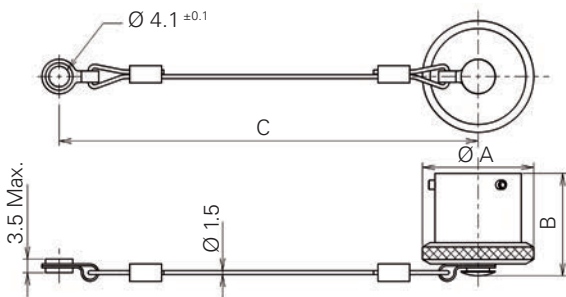
Cap plating: Conductive black zinc

Shell size & Layout	Part number	Ø A Max.	B Max.	C ±5
02, except 02-06	8STA802A	10.60	13.20	80
04	8STA804A	12.20	13.80	80
06-05	8STA806A	15.25	15.50	80
06-09, 06-35	8STA806A	15.25	15.50	80
08	8STA808A	17.50	27.44	128
10	8STA810A	20.50	27.44	128
12	8STA812A	24.50	27.44	140
14	8STA814A	27.50	27.44	140
16	8STA816A	30.90	27.44	140
18	8STA818A	34.00	27.44	140
20	8STA820A	37.20	27.44	153
22	8STA822A	40.40	27.44	153
24	8STA824A	43.50	27.44	153

Size 02 to 06



Size 08 to 24



Note: All dimensions are in millimeters (mm)

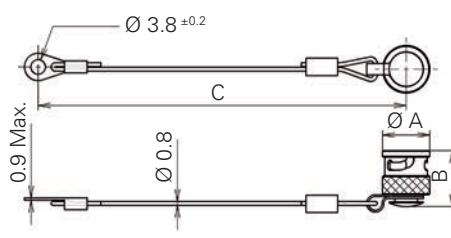
Receptacle caps

Cord material: Nylon

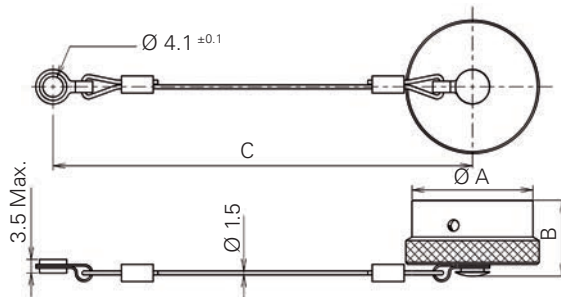
Cap plating: Conductive black zinc

Shell size & Layout	Part number	Ø A Max.	B Max.	C ±5
02, except 02-06	8STA902A	10.60	14.30	80
04	8STA904A	13.60	15.50	80
06-05	8STA906A	15.25	15.50	80
06-09, 06-35	8STA906A	15.25	15.50	80
08	8STA908A	18.90	21	128
10	8STA910A	21.90	21	128
12	8STA912A	26.20	21	140
14	8STA914A	29.40	21	140
16	8STA916A	32.60	22	140
18	8STA918A	35.40	22	140
20	8STA920A	38.90	22	153
22	8STA922A	42.10	22	153
24	8STA924A	45.20	23	153

Size 02 to 06



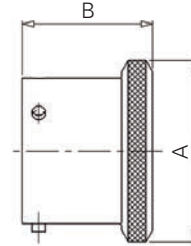
Size 08 to 24



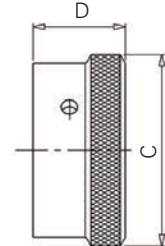
Metal protective caps without lanyard

Shell size & layout	Part numbers		Dimensions			
	Plug cap	Recep. cap	ØA Max.	B Max.	ØC Max.	D Max.
01-03	8STA801	8STA901	8.70	13.20	9.20	10.20
01-05	8STA8F01	8STA9F01	9.55	13.20	10.10	10.20
02, except 02-06	8STA802	8STA902	10.60	11.20	10.60	9.85
04	8STA804	8STA904	12.30	10.80	13.60	10.95
06-05	8STA806	8STA906	15.15	11.05	15.15	9.70
06-09, 06-35	8STA8F06	8STA9F06	15.25	11.15	15.15	13.00
08 8TA	8TA808	8TA908	-	-	-	-
8STA	8STA808	8STA908	17.50	21.00	19.00	14.20
10	8STA810	8STA910	20.50	21.00	21.80	14.20
12	8STA812	8STA912	24.50	21.00	26.10	14.20
14	8STA814	8STA914	27.70	21.00	29.30	14.20
16	8STA816	8STA916	30.90	21.00	32.50	15.00
18	8STA818	8STA918	34.00	21.00	35.30	15.00
20	8STA820	8STA920	37.20	21.00	38.80	15.00
22	8STA822	8STA922	40.40	21.00	42.00	15.00
24	8STA824	8STA924	43.50	21.00	45.10	15.85

Plug cap
Type 8



Receptacle cap
Type 9



Nut plates

Nut plates are available for all 8STA sizes.
Designed for oval flange receptacles with two holes.
Their design was specially made for motorsport market.



Shell size	Self-locking nut thread	Part number
02	M2	8STA-02 M20
02	M2.5	8STA-02 M25
04	M2	8STA-04
04	M2.5	8STA-04 M25
06	M2.5	8STA-06 M25
08	M3	8STA-08
10	M3	8STA-10
12	M3	8STA-12
14	M3	8STA-14
16	M3	8STA-16
18	M3	8STA-18
20	M3	8STA-20
22	M3	8STA-22
24	M3	8STA-24

Gaskets

Gaskets are available for all 8STA sizes.
They are available in standard version (liquid silicone rubber) and fuel tank version (fluorel).



Shell size	Part number Standard	Part number Fuel tank
02	8STA-G02	8STA-G02 022B
04	8STA-G04	8STA-G04 022B
06	8STA-G06	8STA-G06 022B
08	8STA-G08	8STA-G08 022B
10	8STA-G10	8STA-G10 022B
12	8STA-G12	8STA-G12 022B
14	8STA-G14	8STA-G14 022B
16	8STA-G16	8STA-G16 022B
18	8STA-G18	8STA-G18 022B
20	8STA-G20	8STA-G20 022B
22	8STA-G22	8STA-G22 022B
24	8STA-G24	8STA-G24 022B

Note: All dimensions are in millimeters (mm)



Description

- Crimp removable contacts AWG 24 to 28
- High density layouts from 7 to 104 ways
- High vibration and shock withstanding
- Shell in composite and aluminium: very light and non magnetic

Technical specifications

Mechanical

Shell

Composite
(glass fiber reinforced, material for maximum mechanical resistance)
Aluminum

Shell plating

10µ Ni over Cu

Contact

Copper alloy

Contact plating

1.27 µm (50 µin) Au according to
Type 2, Grade C of MIL-DTL-45204

Insulator

Thermoplastic

Mounting accessories (clips, jackscrews and jackposts)

Stainless steel, passivated per
QQ-P-35

Grommet and seal

Silicone rubber

Drilled bar

Thermoplastic

Endurance/Durability

500 mating/unmating operations

Contact retention in insert

15 N

Vibration

Random: 44g
Sine: 20g

Shock

50g

Electrical

Contact size

#26

Contact pitch

2 mm

Current rating

2.5 Amps

Dielectric withstanding voltage

Sea level: 600 Vrms
70.000 feet: 200 Vrms

Insulation resistance

5,000 MΩ

Low level contact resistance

6 mΩ

Rated current contact resistance

<5 mΩ

Admissible wire gauge

AWG 24 to 28

Shielding effectiveness

> 60dB attenuation
from 1 to 500 MHz

Shell to shell continuity

Composite version: < 2mΩ
Aluminum version: < 2mΩ

Environmental

Operating temperature

-55°C to +175°C (-67°F to +347°F)

Storage temperature range

-65°C to +125°C (-85°F to +257°F)

Soldering temperature

+260°C (+500°F)

Salt spray (corrosion)

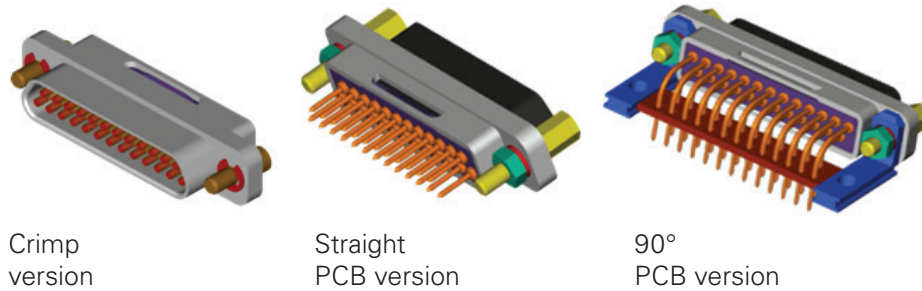
Composite shell: 2,000 hrs
Aluminum shell: 48 hrs

Flammability

UL 94V-0 (self-extinguishing materials)

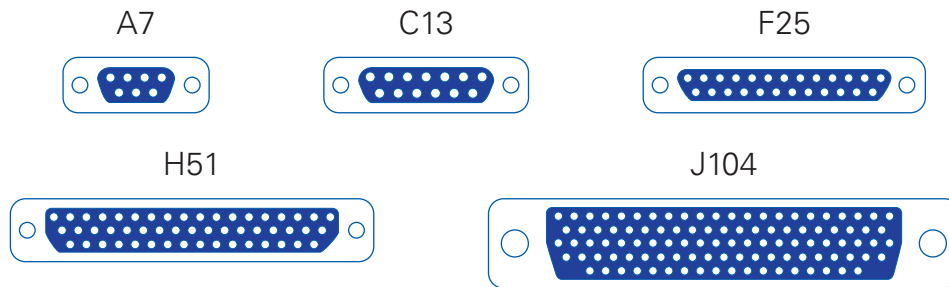
RoHS compliant

Product range

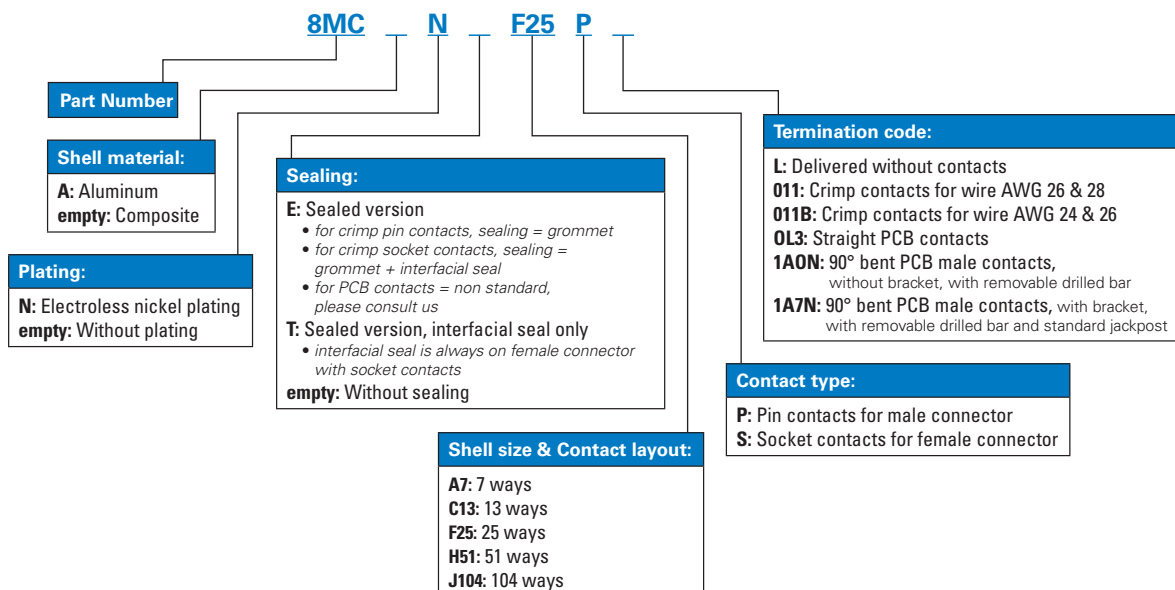


Available layouts

Scale 1:1



Part numbers



Insertion/extraction tool 8MCIET is always included with -S011, -S011B, -P011B and -P011 versions, but not with -L versions.
Termination codes -011, -011B and -L are not marked on the connector (only for order). Jackscrews kits are never included.

For more information contact us:
www.eaton.com/interconnect-support



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