

8STA Series Single Hole Fixing



Half Flange Weight Saving Connector

A specific connector with a single hole fixing design. Solution is dedicated where mounting space is limited.

Space saving ■ Optimized your electrical architecture for box mounting.

Weight saving ■ Because each gram counts!

Smart ■ Keep all the reliability of 8STA Series. Available in all shell sizes (02 to 24). Clinch nuts or PCB version available.

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 features

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: 35 N
 - Size 22D: 45 N
 - Size 20: 60N
 - 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

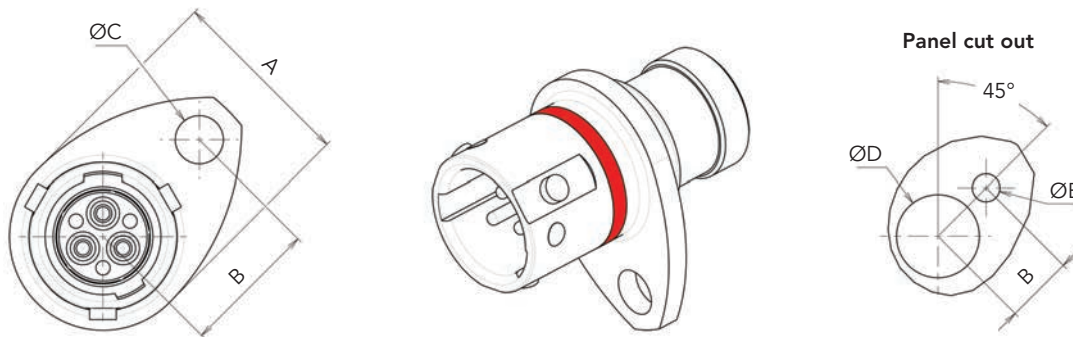
- **Operating temperature:**
-55°C to +175°C
- **Sealing mated connectors:**
IP67 (1 metre for 30 min minimum)
- **Salt spray:**
Aluminum Nickel: 48 hours
Aluminum conductive Black Zinc: 48 hours

Ordering information

Basic series	8STA	0		10	35	P	N	890
Shell type	0: Half oval flange receptacle							
Material & Plating	None: Aluminum Black zinc F: Aluminum Nickel							
Shell size	02, 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24							
Contact layout:	See 8STA Series catalog							
Type of contact	P: Pin S: Socket							
Orientation	N: Red / A: Yellow / B: Blue / C: Orange / D: Green / E: Grey (shell size 02 only) / U: Universal (consult us)							
Specification	890: Single hole fixing - half oval flange receptacle							

For any other configuration (clinch nuts, PC tail, ...), 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"			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"			3.60/0.14"								4.10/0.16"

Note: All dimensions are in millimeters and inches (mm/inch).
For other dimensions, please consult our catalog «8STA/8TA Series, compact circular connectors».

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or visit our web site www.souriau.com