



## 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/s<sup>2</sup>, 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

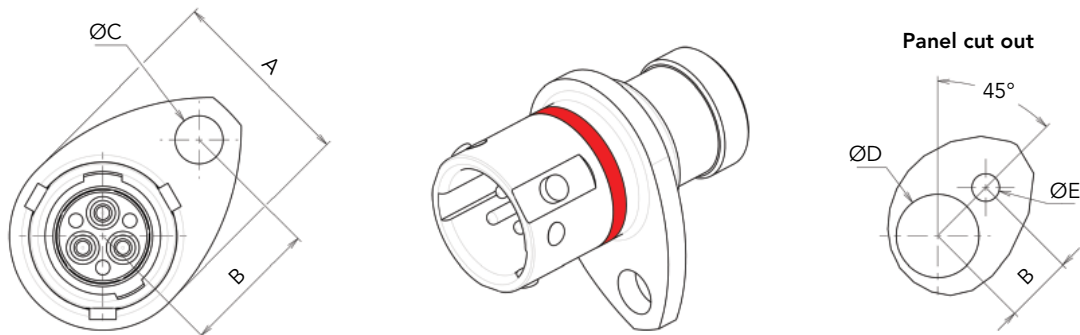
- **Operating temperature:**  
-55°C to +175°C
- **Sealing mated connectors:**  
IP67 (1 metre for 30 min minimum)
- **Salt spray:**  
Aluminum Nickel: 48 hours  
Aluminum conductive Black Zinc: 48 hours

## Ordering information

<b>Basic series</b>	<b>8STA</b>	<b>0</b>		<b>10</b>	<b>35</b>	<b>P</b>	<b>N</b>	<b>890</b>
<b>Shell type</b>	<b>0:</b> Half oval flange receptacle							
<b>Material &amp; Plating</b>	<b>None:</b> Aluminum Black zinc <b>F:</b> Aluminum Nickel							
<b>Shell size</b>	<b>02, 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24</b>							
<b>Contact layout:</b>	See 8STA Series catalog							
<b>Type of contact</b>	<b>P:</b> Pin <b>S:</b> Socket							
<b>Orientation</b>	<b>N:</b> Red / <b>A:</b> Yellow / <b>B:</b> Blue / <b>C:</b> Orange / <b>D:</b> Green / <b>E:</b> Grey (shell size 02 only) / <b>U:</b> Universal (consult us)							
<b>Specification</b>	<b>890:</b> 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
<b>A max.</b>	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>B<sup>±0.1</sup></b>	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"
<b>ØC max.</b>	2.80/0.11"			3.20/0.13"								3.77/0.15"
<b>ØD<sup>±0.1</sup></b>	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"
<b>ØE<sup>±0.2</sup></b>	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».

For further information contact us at [contactmilaero@souriau.com](mailto:contactmilaero@souriau.com)  
or visit our web site [www.motorsport-connectors.com](http://www.motorsport-connectors.com)