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.
8STA Series | Single Hole Fixing

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 ELA-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
8STA Series | Single Hole Fixing

Ordering information

Basic series 8STA 0 10 35 P N 890

Shell type
0: Half oval flange receptacle

Material & Plating
None: Aluminum Black zinc
P: 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

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

For further information contact us at contactmilaero@souriau.com
or visit our web site www.motorsport-connectors.com