SOURIAU offers new high density layouts with the 8STA series. These solutions are lightweight and flexible, designed for 24 to 30 AWG wire, smaller diameter tubing, and boots. PC tail pin and socket contacts are used for box design.

SOURIAU brings to market a lightweight, robust, and reliable 8STA High Density solution, available from the smallest to the largest size with #26 contact. The 8STA series offers seven shell sizes, providing flexibility according to your application, from shell size 02 to 14.

- **A reliable & robust solution**: Well proven design as standard 8STA: derived from MIL-DTL-38999 & JN1003.
- **7 shell sizes available**: Provides flexibility according to your application. From shell size 02 to 14.
- **Lightweight & flexible**: Designed for 24 to 30 AWG wire, smaller diameter tubing and boots. PC tail pin and socket contacts for box design.
- **Significant space saving**: High Density layout 14-68 example: Twice the number of contacts - a size smaller shell can be used for the same application.

Examples of contact counts and shell sizes include:
- **14-35** with 37 contacts #22D
- **14-68** with 68 contacts #26
- **18-35** with 66 contacts #22D
8STA Series | High Density

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

**Electrical**
- **Contact resistance**: Size 26: 16mΩ
- **Insulation resistance**: ≥5000MΩ (at 500Vdc)
- **Contact rating**: Size 26: 3 Amp
- **Shell continuity**: ≤10mΩ

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

Description
- Derived from MIL-DTL-38999 & JN1003 standard
- 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

Dimensions, Orientations, Contacts, Tooling and Accessories

Please see “8STA/8TA Series” Catalog.
Ordering information

<table>
<thead>
<tr>
<th>Basic series</th>
<th>8STA</th>
<th>6</th>
<th>12</th>
<th>43</th>
<th>P</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shell type:</td>
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<tr>
<td>0: Oval flange receptacle</td>
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<tr>
<td>1: In line receptacle</td>
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<td>2: Oval Flange receptacle with PCB contacts</td>
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<tr>
<td>6: Plug</td>
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<tr>
<td>7: Jam nut receptacle</td>
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</tbody>
</table>

| Shell size: |      |   |    |    |   |   |
| 02, 04, 06, 08, 10, 12, 14 |      |   |    |    |   |   |

Contact layout: See below

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

Specification:
- None: Standard crimp version
- 499: Integrated clinch nut on the flange:
  - M2 insert (shell type 0 & 2 only for shell sizes 04 & 06)
  - M3 insert (shell type 0 & 2 only for shell sizes 08, 10 & 12)
- 523: Light weight in line receptacle - for shell sizes 08 to 12 (shell type 1 only)
- 528: Integrated clinch nut on the flange: M2.5 insert (shell type 0 & 2 only for shell sizes 04 & 06)
- 566: Rackable plug - for shell sizes 10 & 12 (shell type 6 only)

Contact layouts (viewed from front face of male insulator)

<table>
<thead>
<tr>
<th>Shell size</th>
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<tbody>
<tr>
<td>02</td>
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<td>06</td>
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<td>08</td>
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<td>10</td>
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<tr>
<td>12</td>
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<tr>
<td>14</td>
</tr>
</tbody>
</table>

For each shell size, the contact layout is shown with the corresponding number (e.g., 5#26 for shell size 02).
PCB drilling information - Viewed from front face of male insulator.

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