Blind Mating Plug for Hard-to-Reach Areas

Specific connector designed for quick connection in hard-to-reach areas. Blind mating solution 100% scoop proof.

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.

A versatile product  ■ Available in sizes 10, 12, 14 and 16
Accept all layouts according connector shell size. Available in crimp contacts.
8STA Series | Blind Mating Plug

Technical features

**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 22D: 45N
  - Size 16: 100N
  - Size 8: 110N
- Flange dimension:
  - Flange of plug size16 equivalent to flange of receptacle size 22
  - Flange of plug size14 equivalent to flange of receptacle size 20
  - Flange of plug size12 equivalent to flange of receptacle size 18
  - Flange of plug size10 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 12: 3.5 mΩ
- Insulation resistance:
  - ≥ 5000 MΩ (at 500 Vdc)
- Contact rating:
  - Size 22D: 5A
  - Size 16: 13A
  - Size 8: 45A

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

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
## Ordering information

<table>
<thead>
<tr>
<th>Basic series</th>
<th>8STA</th>
<th>6</th>
<th>12</th>
<th>35</th>
<th>S</th>
<th>N</th>
<th>566</th>
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</thead>
<tbody>
<tr>
<td>Shell style</td>
<td>6: Plug</td>
<td></td>
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<tr>
<td>Shell size</td>
<td>10, 12, 14, 16</td>
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<tr>
<td>Contact layouts</td>
<td>See 8STA catalog</td>
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<tr>
<td>Type of contacts</td>
<td>P: Pin contacts</td>
<td>S: Socket contacts</td>
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<td>Orientation</td>
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<td>Specification (mandatory)</td>
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</table>

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

## Dimensions

### Plug type 6

<table>
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<tr>
<th>Shell size</th>
<th>ØA</th>
<th>ØB</th>
<th>ØC</th>
<th>D</th>
<th>E</th>
<th>F</th>
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<tr>
<td>10</td>
<td>25.17</td>
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Note: All dimensions are in millimeters (mm)

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