

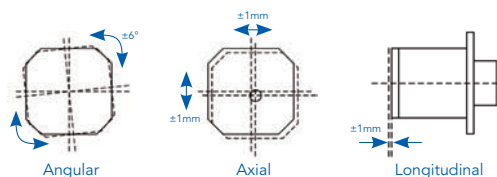
# 8STA Series Blind Mating Plug



## 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.

## 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



## 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 20: 60N
  - Size 16: 100N    Size 12: 100N
  - Size 8: 110N    Size 4: 200N
- Flange dimension:
  - . Flange of plug size 16 equivalent to flange of receptacle size 22
  - . Flange of plug size 14 equivalent to flange of receptacle size 20
  - . Flange of plug size 12 equivalent to flange of receptacle size 18
  - . Flange of plug size 10 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 16: 3.8 mΩ
  - Size 12: 3.5 mΩ    Size 4: 2 mΩ
- Insulation resistance:
  - ≥ 5000 MΩ (at 500 Vdc)
- Contact rating:
  - Size 22D: 5A    Size 20: 7.5A
  - Size 16: 13A    Size 12: 23A
  - Size 8: 45A    Size 4: 80A

### Environmental

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

## Ordering information

|  |      |   |    |    |   |   |     |
|--|------|---|----|----|---|---|-----|
| <b>Basic series</b>  | 8STA | 6 | 12 | 35 | S | N | 566 |
| <b>Shell style</b><br>6: Plug                                    |      |   |    |    |   |   |     |
| <b>Shell size</b><br>10, 12, 14, 16                              |      |   |    |    |   |   |     |
| <b>Contact layouts</b><br>See 8STA catalog                       |      |   |    |    |   |   |     |
| <b>Type of contacts</b><br>P: Pin contacts<br>S: Socket contacts |      |   |    |    |   |   |     |
| <b>Orientation</b><br>N: Red                                     |      |   |    |    |   |   |     |
| <b>Specification (mandatory)</b><br>566: Rackable plug           |      |   |    |    |   |   |     |

Note: Receptacle to be used with rackable plug = 8STA7xxxx (standard jam nut version)

## Dimensions

### Plug type 6

**Mated Connector**  
(plug type 6 & jam nut receptacle type 7)

| Shell size | $\text{ØA}^{+0.3}_{-0}$ | $\text{ØB}^{+0.2}_{-0}$ | $\text{ØC}$ | $\text{D}^{+0.4}_{-0}$ | E     | F     |
|------------|-------------------------|-------------------------|-------------|------------------------|-------|-------|
| 10         | 25.17                   | 12.85                   | 13.72       | 34.60                  | 41.00 | 30.30 |
| 12         | 28.35                   | 15.92                   | 17.26       | 38.00                  | 44.70 | 33.70 |
| 14         | 31.52                   | 18.90                   | 20.41       | 41.40                  | 47.90 | 37.00 |
| 16         | 34.70                   | 22.08                   | 23.60       | 44.80                  | 51.00 | 40.40 |

Note: All dimensions are in millimeters (mm)

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