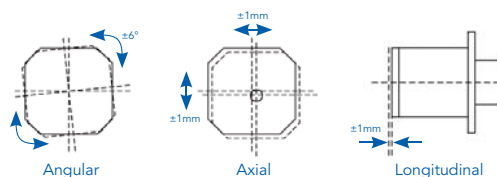




Blind Mating Plug for Hard-to-Reach Areas

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

Basic series	8STA	6	12	35	S	N	566
Shell style 6: Plug							
Shell size 10, 12, 14, 16							
Contact layouts See 8STA catalog							
Type of contacts P: Pin contacts S: Socket contacts							
Orientation N: Red							
Specification (mandatory) 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	$\text{ØA}^{+0.3}_0$	$\text{ØB}^{+0.2}_0$	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)

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