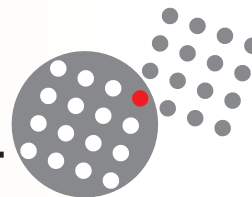


8STA Circular Miniature Connector Size 04



FEATURES

- Rugged aluminium body to ensure long service life in the harshest environment.
- Optimum space and weight saving whilst achieving maximum strength.
- Option of either size 22 or 26 gold plated crimp contact or PCB contact available.
- Environmental sealing from interfacial seal and rear grommet.
- Positive locking mechanism with locked colour indicators.
- 6 colours coded keyway orientations.
- Boot termination feature.
- Conductive black zinc plating.



TECHNICAL CHARACTERISTICS

Mechanical characteristics

| | | |
|-------------------|--------------------------------------|----------------|
| Shell | Aluminium alloy | |
| Shell plating | Conductive black zinc | |
| Insulator | Thermoplastic | |
| Grommet and seal | Liquid silicone rubber | |
| Contact | Copper alloy | |
| Contact plating | Gold | |
| Endurance | 500 matings/unmating operations | |
| Shock | 300 g for 3 ms and MILS-901 Grade A | |
| Vibration | 147 m/s ² , 10 to 2000 Hz | |
| Contact retention | 35 N (size 26) | 45 N (size 22) |

Electrical characteristics

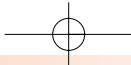
| | | |
|-----------------------|---------------------|---------------------|
| Test voltage | 400 Vrms (size 26) | 1000 Vrms (size 22) |
| Contact resistance | < 16 mΩ (size 26) | < 14.6 mΩ (size 22) |
| Insulation resistance | | |
| at 400 Vdc | > 5000 MΩ (size 26) | |
| at 500 Vdc | > 5000 MΩ (size 22) | |
| Contact rating | 3 A (size 26) | 5 A (size 22) |
| Shell continuity | < 60 mΩ | |

Climatic characteristics

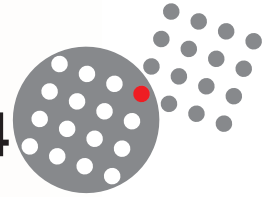
| | | |
|--------------------------|-----------------------------------|--|
| Temperature range | -55°C to +175°C | |
| Sealing mated connectors | IP67 - 1 metre for 30 min minimum | |
| Salt spray | 48 hours | |

Resistance to fluids

| | | |
|-----------------------|-----------------------|--|
| Lubricant (oil) | MOTUL 300 Competition | |
| Unleaded petrol | (SP 95) | |
| Motor car brake fluid | Lockheed DOT5 | |



8STA Circular Miniature Connector Size 04



| | | | | | | |
|--------------------------|---|---|----|----|---|---|
| Basic series: | 8 STA | 0 | 04 | 05 | P | N |
| Shell style: | 0: Oval flange receptacle (for front or rear mounting) 1: In line receptacle 2: Oval flange receptacle with PCB contacts 6: Plug | | | | | |
| Shell size: | 04 | | | | | |
| Contact layouts: | See table page 35 | | | | | |
| Type of contacts: | P: Pin contacts S: Socket contacts | | | | | |
| Orientation: | N: Red – A: Yellow – B: Blue – C: Orange – D: Green – U: Universal | | | | | |

Souriau part numbers for protective caps
8STA804 for plug and **8STA904** for receptable

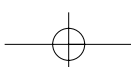
Type 8STA 0 04 Oval flange receptacle**

See table orientation page 18 for Alpha 1 & Alpha 2 values

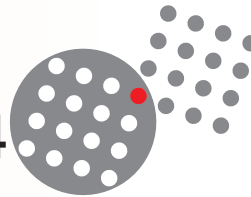
Type 8STA 1 04 In line receptacle**

See table orientation page 18 for Alpha 1 & Alpha 2 values

17.8-18.3
 4.8-5.8
 2.10-2.15
 Ø8.4-8.6
 Ø7.65-8.15
 Ø5.8-10.2
 MARKING PIN CONNECTOR ON OVER INK COLOUR BAND
 Alpha 1
 Alpha 2

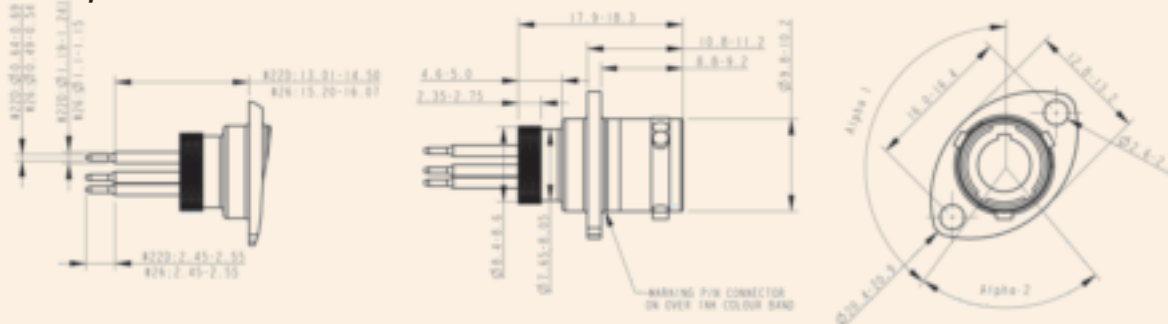


8STA Circular Miniature Connector Size 04



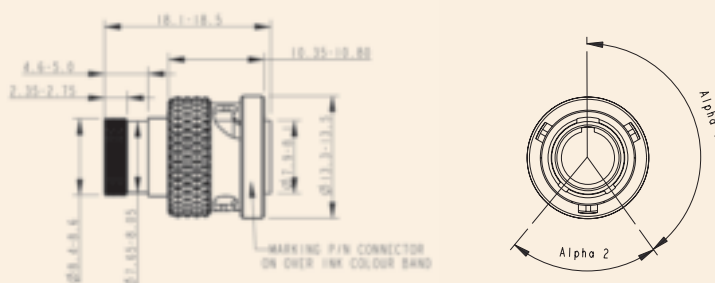
Type 8STA 2 04** Oval flange receptacle with PCB contacts

See table orientation page 18 for Alpha 1 & Alpha 2 values



Type 8STA 6 04** Plug

See table orientation page 18 for Alpha 1 & Alpha 2 values



Metal protective caps

| Plug cap 8STA804 | | | | Receptacle cap 8STA904 | | | |
|------------------|------------|----------|--------|------------------------|------------|----------|--------|
| | Shell size | Ø A Max. | B Max. | | Shell size | Ø A Max. | B Max. |
| | 04 | 12.20 | 10.80 | | 04 | 13.50 | 10.80 |

Crimped contacts / PCB contacts

| Contact size | Contact type | Contact dia. | Part numbers | Admissible wire section | | | | External dia. over insulation (mm) | |
|------------------------|--------------|--------------|-----------------|-------------------------|------|-----------------|------|------------------------------------|------|
| | | | | AWG | | mm ² | | Min. | Max. |
| Crimp contact | | | | Min. | Max. | Min. | Max. | Min. | Max. |
| 22D | Male | 0.76 | 8599-0702 JJ | 28 | 22 | 0.095 | 0.38 | 0.71 | 1.37 |
| | Female | | 8599-0710 900 | | | | | | |
| 26 for layout 04-05 | Male | 0.50 | 8599-0777 LY | 30 | 24 | 0.095 | 0.24 | 0.60 | 0.83 |
| | Female | | 8599-0778 900 | | | | | | |
| 26 for layout 04-06 | Male | | 8599-1001 JL | | | | | | |
| | Female | | 8599-1002 900 | | | | | | |
| PCB contact | | | | | | | | | |
| 22D | Male | 0.76 | F1P1P3E-0002AJJ | | | | | | |
| | Female | | F1P1ES3-2202A00 | | | | | | |
| 26 | Male | 0.50 | F1P2P3C-0001ALY | | | | | | |
| | Female | | F1P2ES3-2601A00 | | | | | | |