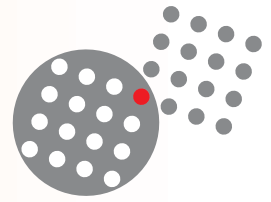


8TA Circular Miniature Connector



FEATURES

- Rugged aluminium body to ensure long service life in the harshest environment.
- Compact low profile derived from MIL-DTL-38999 Serie 2.
- 6 gold plated size 22 contacts.
- Environment sealing from interfacial seal and rear grommet.
- Positive locking mechanism with locked colour indicators 3 keyway orientations.
- Boot termination feature.
- Conductive black zinc plating.



TECHNICAL CHARACTERISTICS

Mechanical characteristics

Aluminium version

Shell	Aluminium alloy
Shell plating	Conductive black zinc
Insulator	Thermoplastic
Grommet and seal	Liquid silicone rubber
Contact	Copper alloy
Contact plating	Gold
Endurance	500 mating/unmating operations
Shock	300 g for 3 ms and MIL-S-901 Grade A
Vibration	Random 100 to 1000 Hz - 1g ² /Hz
Flash fire test	> 2 mn at 600°C
Contact retention	45 N

Electrical characteristics

Aluminium version

Test voltage	1300 Vrms
Contact resistance	< 14.6 mΩ
Resistance of wire included measurement	
Insulation resistance (at 500 Vdc)	≥ 5000 MΩ
Contact rating	5 A
Shell continuity	< 60 mΩ

Climatic characteristics

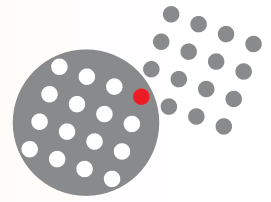
Aluminium version

Temperature range	-55°C to +175°C
Sealing mated connectors	IP67
Salt spray	48 hours

Resistance to fluids

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

8TA Circular Miniature Connector



ORDERING INFORMATION

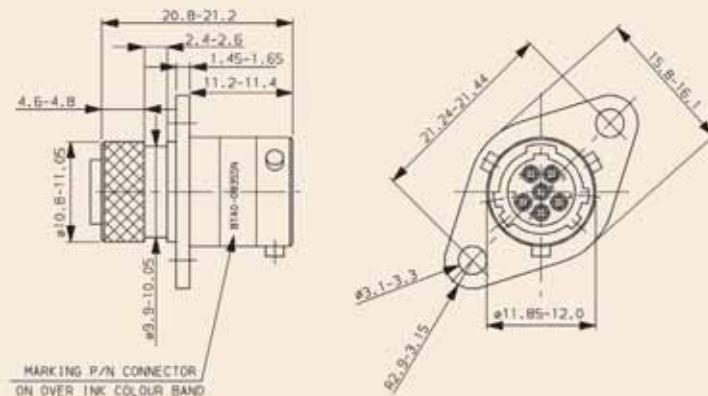
Basic series	8TA	0	08	35	P	N
Shell style:	0: Oval flange receptacle (for front or rear mounting) 1: In line receptacle 6: Plug 7: Jam nut receptacle					
Shell size:	08					
Contact layouts:	35 (6 contacts size 22D)					
Type of contacts:	P: Pin contacts S: Socket contacts					
Orientation:	N: Red - A: Yellow - D: Green					

Souriau part numbers for protective caps
8STA808 for plug and **8TA908** for receptacle

DIMENSIONS

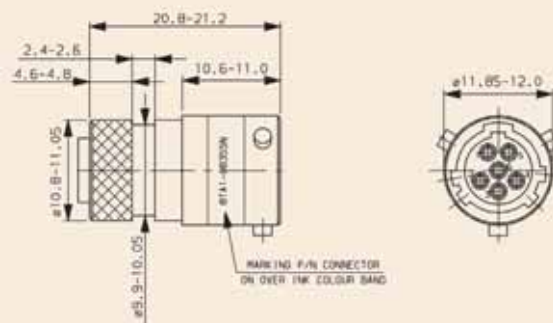
Type 8TA0 0835 Oval flange receptacle

See table orientation
 page 22 for Key position

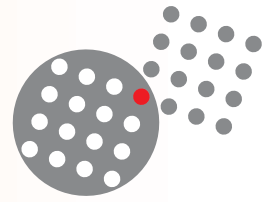


Type 8TA1 0835 In line receptacle

See table orientation
 page 22 for Key position

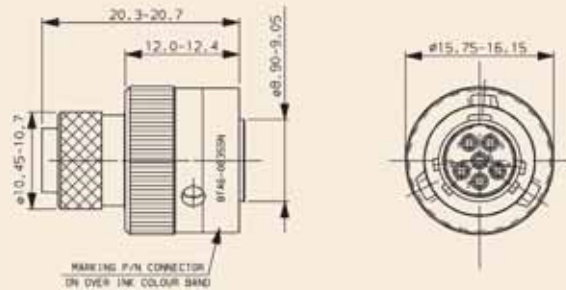


8TA Circular Miniature Connector



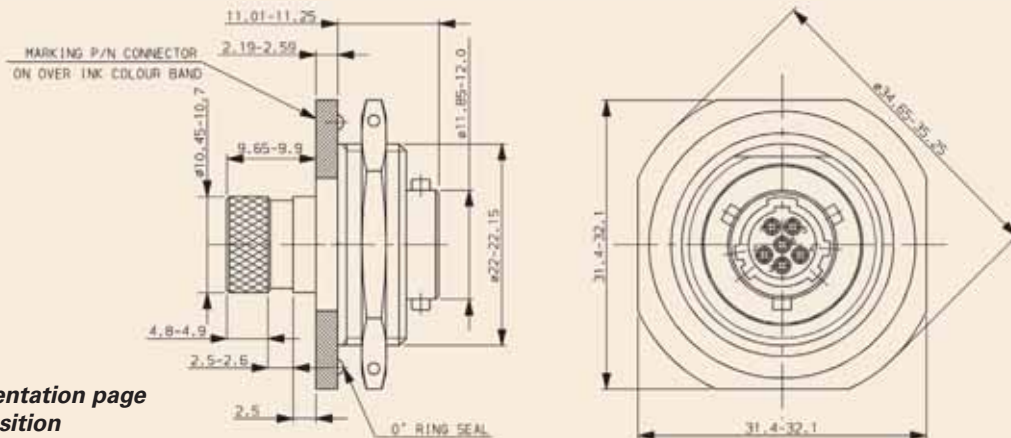
Type 8TA6 0835 Plug

See table orientation page 22 for Key position



Type 8TA7 0835 Jam nut receptacle

See table orientation page 22 for Key position



Metal protective caps

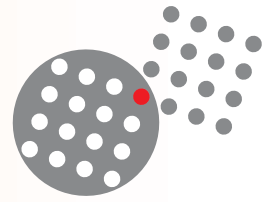
Plug cap 8TA 808: Please consult us.

Receptacle cap 8TA 908: Please consult us.

Contacts:

Contact size	Contact type	Contact dia.	Part numbers	Admissible wire section				External dia. over	
				AWG		mm ²		Insulation mm	
Crimp contact				Min.	Max.	Min.	Max.	Min.	Max.
22D	Male	0.76	8599-0702 JJ	28	22	0.095	0.38	0.71 (.028 inch)	1.37 (.054 inch)
	Female		8599-0710 900						

8TA Circular Miniature Connector



Crimping:

Contact size	Wire sizes	Type	Locator part number		Tool part number	
	AWG		Spec.	SOURIAU	Spec.	SOURIAU
22D	22 to 28	Male	M22520/2-09	8476-09	M22520/2-01	8476-01
		Female	M22520/2-06	8476-06		

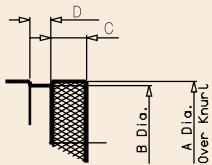
Insertion and extraction of wired contacts:

Coloured tip for insertion
white tip for extraction.



Contact size	Part number		Colour	
	Spec.	SOURIAU	Insert.	Extract.
22D	M81969/14-01	-	Green	White

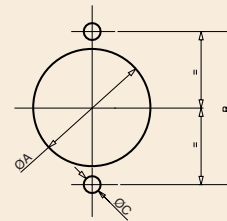
Shrinkable termination detail:



Shell size	Ø A	Ø B ±0.05	C ±0.05	D ±0.05
04	8.65	8.00	2.70	2.3

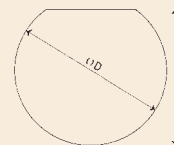
Panel cut-out:

Type 0:



Ø A ±0.10	14.50
B ±0.20	21.30
Ø C ±0.20	3.60

Type 7:

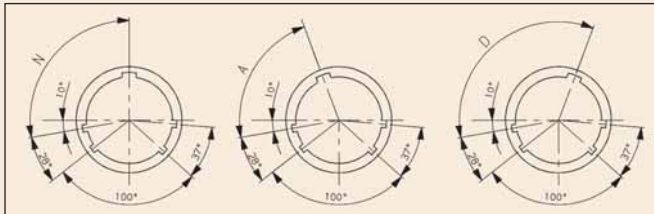


Ø D ±0.25	22.46
E ±0.25	21.08

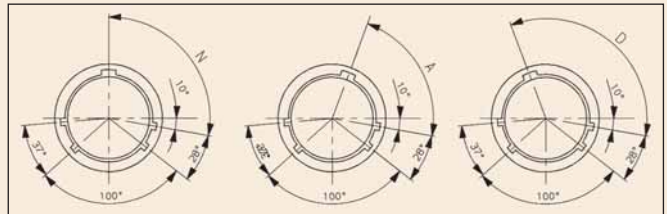
Orientation:

Key positions	Alpha 1	Colour band
N	100°	RED
A	82°	YELLOW
D	118°	GREEN

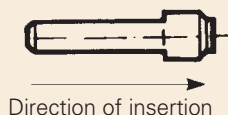
Viewed from face of receptacle



Viewed from front face of plug



Filler Plug :



Contact size	Part number		Colour
	Spec.	SOURIAU	
22D	MS27488-22	8660-212	Black