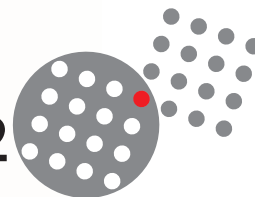


8STA Circular Miniature Connector Size 02



FEATURES

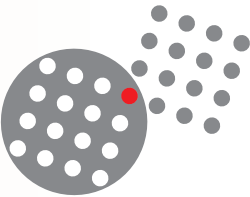
- Ultra compact design & very light weight.
- Rugged aluminium body to ensure long service time in the harsh environments.
- Positive locking mechanism with locked color indicators.
- 7 colour-coded keyway orientations (N, A, B, C, D, E, U).
- Boot termination.
- PCB option available.
- Conductive black zinc plating.



TECHNICAL CHARACTERISTICS

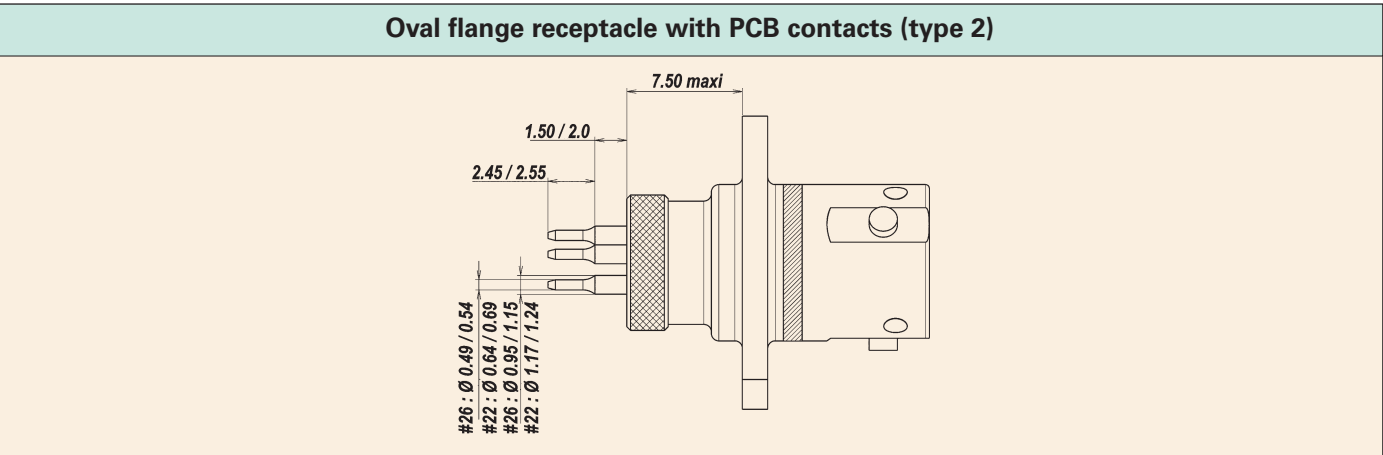
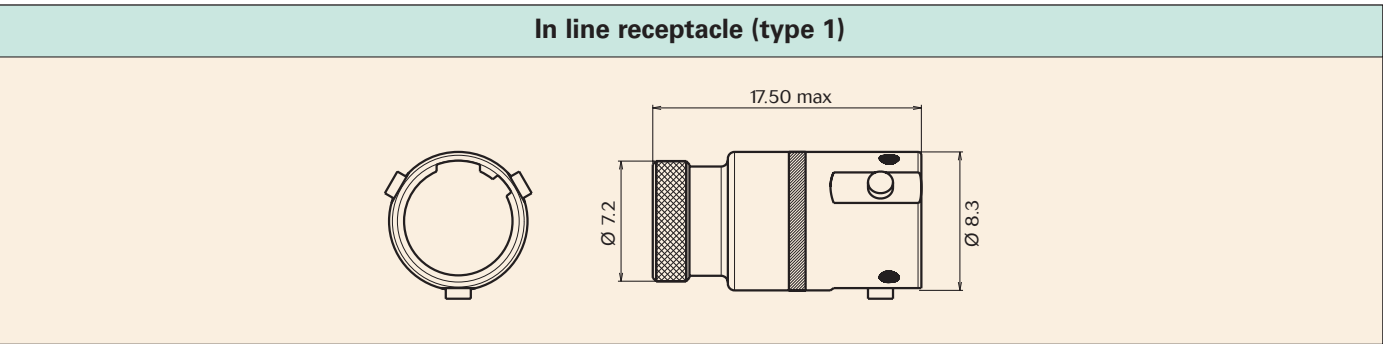
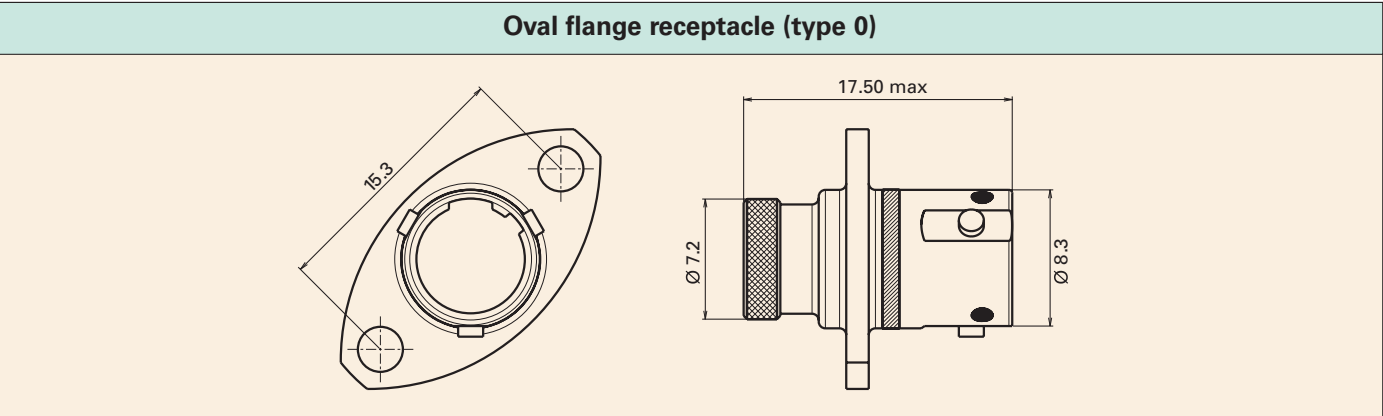
Mechanical characteristics		Aluminium version	
Shell		Aluminium alloy	
Shell plating		Conductive black zinc	
Insulator		Thermoplastic	
Grommet and seal		Liquid silicone rubber	
Contact		Copper alloy	
Contact plating		Gold	
Endurance		500 mating/unmating operations	
Shock		300 g for 3 ms and MIL-S-901 Grade A	
Vibration		147 m/s ² , 10 to 2000 Hz	
Contact retention	35N (size 26)		45N (size 22)
Electrical characteristics		Aluminium version	
Test voltage	400 Vrms (02-05)		1000 Vrms (02-35)
Contact resistance	< 16 mΩ (02-05)		< 14.6 mΩ (02-35)
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		Aluminium version	
Temperature range		-55°C to +175°C	
Sealing mated connectors		IP67 - 1 meter 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 02

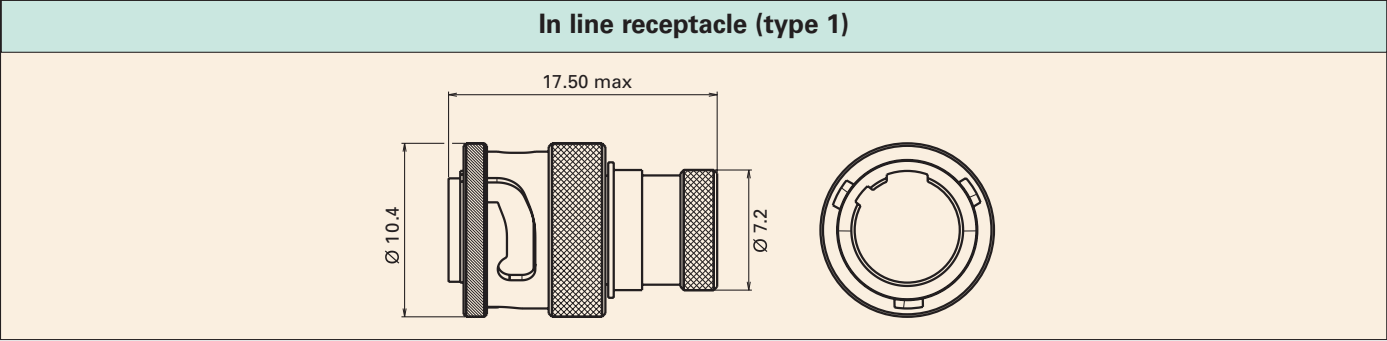
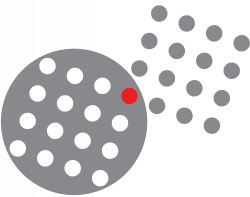


Basic series:	8 STA	0	02	05	P	N
Shell style:	0: Oval flange receptacle 1: In line receptacle 2: Oval flange receptacle with PCB contact 6: Plug					
Shell size:	02					
Contact layouts:	See table page 8					
Type of contacts:	P: Pin S: Socket					
Orientation:	N: Red – A: Yellow – B: Blue – C: Orange – D: Green – U: Universal					

Souriau part numbers for protective caps
8STA802 for plug and 8STA902 for receptacle



8STA Circular Miniature Connector Size 02



Crimped contacts / PCB contacts

Contact size	Contact type	Contact dia.	Part numbers	Admissible wire section				External dia. over insulation (mm)	
				AWG		mm²			
Crimp contact				Min.	Max.	Min.	Max.	Min.	Max.
22D	Male	0.76	8599 0702-JJ	28	22	0.095	0.38	0.76	1.37
	Female		8599 0710-900						
26	Male	0.50	8599 1001-JL	30	24	0.095	0.24	0.60	0.83
	Female		8599 1002-900						
PCB contact									
22D	Male	0.76	8599 1031-JJ						
	Female		8599 1032-900						
26	Male	0.50	8599 1004-JL						
	Female		8599 1005-900						

Crimping tools

Contact size	Wire sizes	Contact type	Locator part number	Tool part number
	AWG			
22D	22 to 28	Male	8476 09	M22520/2-01
		Female	8476 06	
26	24 to 30	Male	640 088	
		Female	640 089	

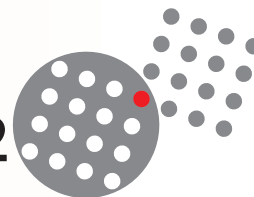
Insertion and extraction of wired contacts

Contact size	Part number
22D	M81969/14-01 (Plastic)
26	8599-1006 (Metallic)

Panel cut out

Ø A±0.10	9.30
B±0.20	15.30
C±0.20	3.10

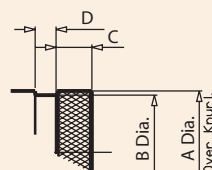
8STA Circular Miniature Connector Size 02



Shrinkable termination detail

Shell size	Ø A	Ø B ± 0.05	C ± 0.05	D ± 0.05
02	7.2	6.55	2.2	2.3

Heatsrink boots available, please consult us.



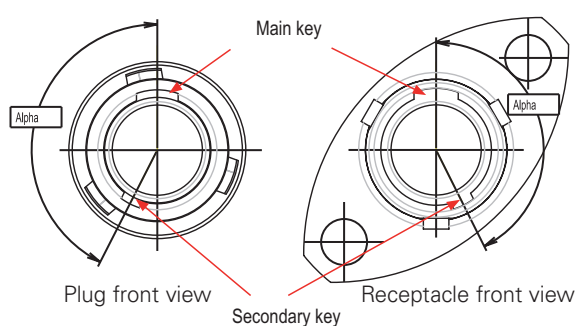
Orientations

Key position	Alpha	Colour band
N	153°	Red
A	51°	Yellow
B	102°	Blue
C	204°	Orange
D	255°	Green
E	306°	Grey

Main key remains fixed.

8STA 02-05 and 8STA 02-35 have the same orientations.

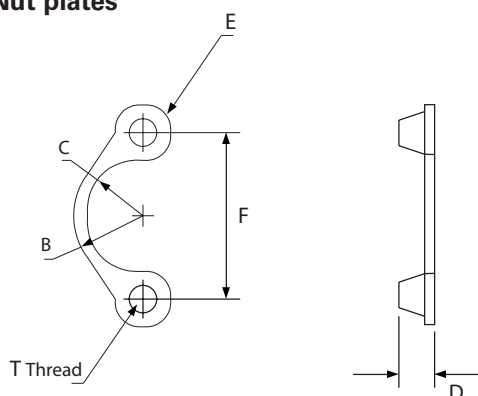
Keyways width dimensions are different to avoid wrong mating in blind conditions.



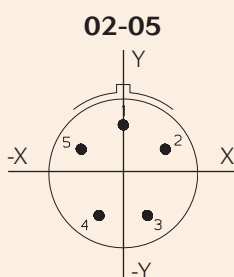
Filter plug

Contact size	Part number	Colour
22D	8599-1027	Black
26		

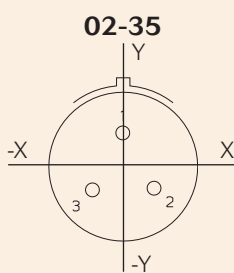
Nut plates



Dimensions relate to the front pin face view



Contact	X (mm)	Y (mm)
1	0.00	1.45
2	1.38	0.45
3	0.85	-1.18
4	-0.85	-1.18
5	-1.38	0.45



Contact	X (mm)	Y (mm)
1	0.00	1.45
2	1.38	0.45
3	0.85	-1.18

Part Number	Shell size	B mac	C max	D max	E (rad) max	F ± 0.8	T thread Class 6H
8STA-02 M2.5	2	5.70	3.75	2.03/3.55	2.92	15.3	M 2.5 x .45
8STA-02	2	6.76	4.72	2.03/3.05	2.92	15.3	m 2 x .4