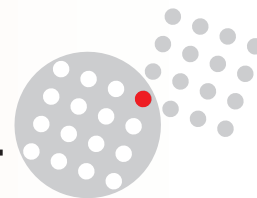


8STA Circular Miniature Connector Size 04



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 MIL-S-901 Grade A	
Vibration	147 m/s ² , 10 to 2000 Hz	
Flash fire test	> 2 mn at 600°C	
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	

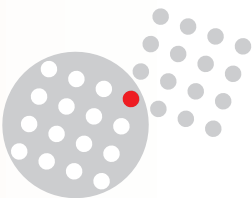
Climatic characteristics

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

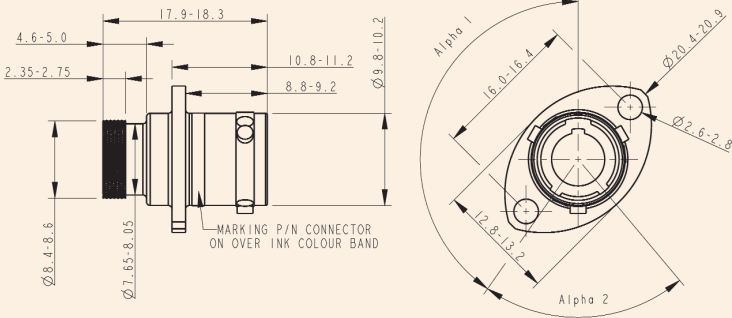


Basic series:	8 STA	0	04	05	P	N
Shell style:	0: Oval flange receptacle (for front or rear mounting) 1: In line receptacle 2: Oval flange receptacle with PCB contacts 6: Plug					
Shell size:	04					
Contact layouts:	See table page 33					
Type of contacts:	P: Pin contacts S: Socket contacts					
Orientation:	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

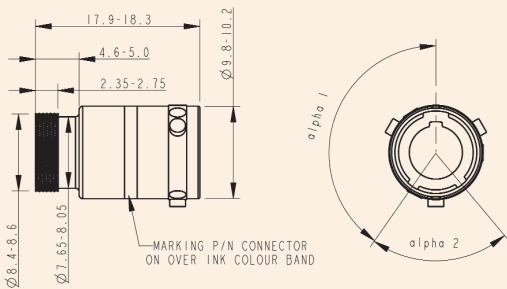
Type 8STA 0 04** Oval flange receptacle

See table Polarization page 8
 for Alpha 1 & Alpha 2 values

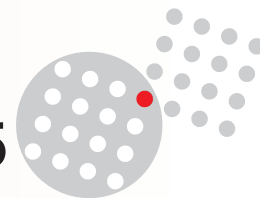


Type 8STA 1 04** In line receptacle

See table Polarization page 8
 for Alpha 1 & Alpha 2 values

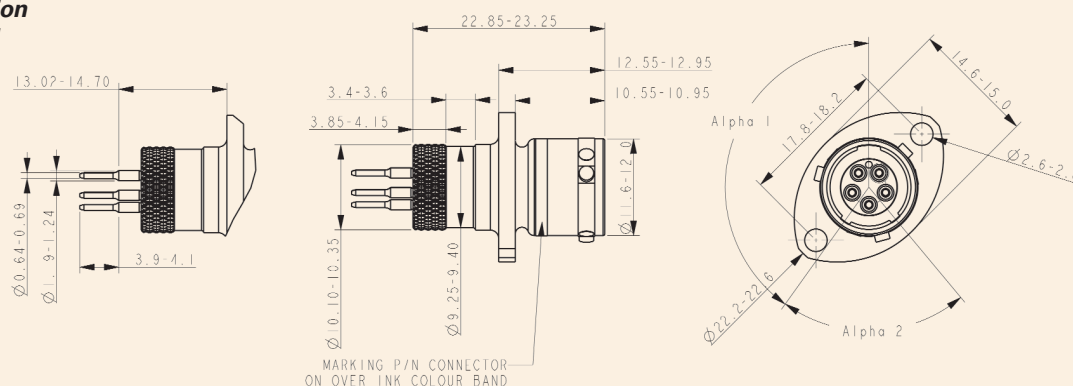


8STA Circular Miniature Connector Size 06-35



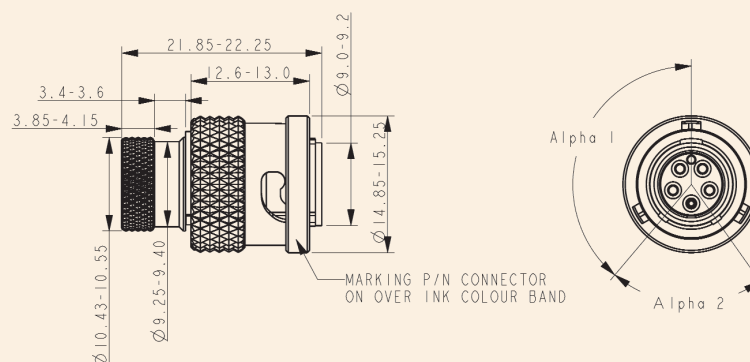
Type 8STA 2 0635 Oval flange receptacle with PCB contacts

See table Polarization
page 16 for Alpha 1
& Alpha 2 values



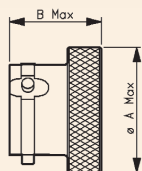
Type 8STA 6 0635 Plug

See table Polarization
page 16 for Alpha 1
& Alpha 2 values



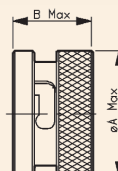
Metal protective caps

Plug cap 8STA8F06



Shell size	Ø A Max.	B Max.
06	15.10	11.00

Receptacle cap 8STA9F06

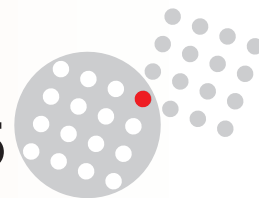


Shell size	Ø A Max.	B Max.
06	15.10	13.00

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						
PCB contact									
22D	Male	0.76	F1P1P3E-0002AJJ						
	Female		F1P1ES3-2202A00						

8STA Circular Miniature Connector Size 06-35



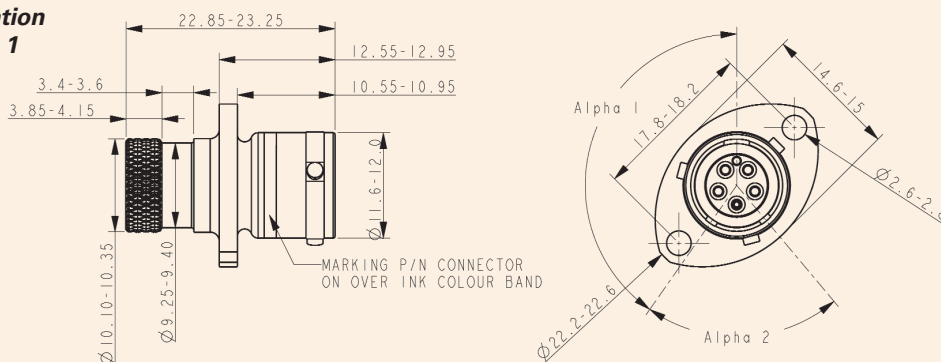
ORDERING INFORMATION

Basic series	8STA	0	x	06	35	P	N
Shell style:	0: Oval flange receptacle (front or rear mounting) (only for X,F & N) 1: In line receptacle (only for X,F & N) 2: Oval flange receptacle with PCB contacts (only for X,F & N) 6: Plug (only for X,N & P)						
Shell material:	X: Composite version F: Aluminium nickel plating (receptacle 0,1 & 2) P: Aluminium nickel plating (plug 6) N: Aluminium black zinc nickel plating						
Shell size:	06						
Contact layouts:	35 (5 contacts size 22D)						
Type of contacts:	P: Pin contacts S: Socket contacts						
Orientation:	N: Red - A: Yellow - B: Blue - C: Orange - D: Green - U: Universal (only in aluminium alloy)						

Souriau part numbers for protective caps
8STA8F06 for plug and **8STA9F06** for receptacle

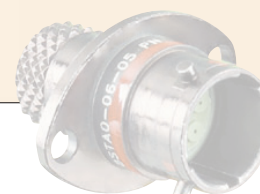
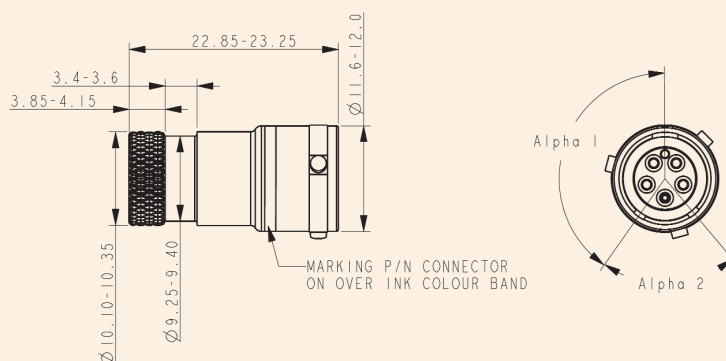
Type 8STA 0 0635 Oval flange receptacle

See table Polarization
page 16 for Alpha 1
& Alpha 2 values

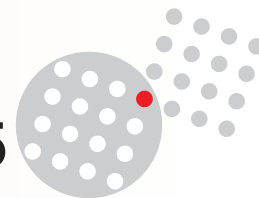


Type 8STA 1 0635 In line receptacle

See table Polarization
page 16 for Alpha 1
& Alpha 2 values



8STA Circular Miniature Connector Size 06-35



FEATURES

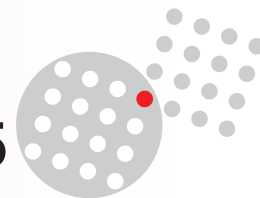
- Rugged aluminium body to ensure long service life in the harshest environment.
- Five rugged gold plated MIL spec contact.
- PCB contacts option available.
- Option of either MIL spec proven composite weight saving material body or aluminium, both intermateable.
- The composite version will provide you the lightest and most reliable small shell size connector that is currently available. The aluminium type is excellent for harshest environment or where additional mechanical strength is required.
- Environmental sealing from interfacial seal and rear grommet.
- Positive locking mechanism with locked colour indicators.
- 6 colours coded keyway orientation.
- Boot termination feature.



TECHNICAL CHARACTERISTICS

Mechanical characteristics	Composite version	Aluminium version
Shell	Glass fibre loaded plastic	Aluminium alloy
Shell plating	No plating	Nickel or conductive black zinc
Insulator	Thermoplastic	Thermoplastic
Grommet and seal	Liquid silicone rubber	Liquid silicone rubber
Contact	Copper alloy	Copper alloy
Contact plating	Gold	Gold
Endurance	500 mating/unmating operations	500 mating/unmating operations
Shock	300 g for 3 ms and MIL-S-901 Grade A	300 g for 3 ms and MIL-S-901 Grade A
Vibration	147 m/s ² , 10 to 2000 Hz	147 m/s ² , 10 to 2000 Hz
Flash fire test	> 2 mn at 600°C	> 2 mn at 600°C
Contact retention	45 N	45 N
Electrical characteristics	Composite version	Aluminium version
Test voltage	1300 Vrms	1300 Vrms
Contact resistance	< 14.6 mΩ	< 14.6 mΩ
Resistance of wire included measurement		
Insulation resistance (at 500 Vdc)	≥ 5000 MΩ	≥ 5000 MΩ
Contact rating	5 A	5 A
Shell continuity	No continuity	< 60 mΩ
Climatic characteristics	Composite version	Aluminium version
Temperature range	-55°C to +175°C	-55°C to +175°C
Sealing mated connectors	IP67	IP67
Salt spray	500 hours	48 hours
Resistance to fluids		
Lubricant (Oil)	MOTUL 300 competition (SP 95)	
Unleaded petrol		
Motor car brake fluid	Lockheed DOT5	

8STA Circular Miniature Connector Size 06-05



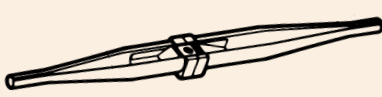
Crimp & PCB contact:

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.
26	Male	0.50	8599-7922 LY	30	24	0.095	0.24	0.60 (.023 inch)	0.83 (.032 inch)
	Female		8599-7923 900						
PCB contact									
26	Male	0.50	F1P1P3C-0001ALY						
	Female		F1P1ES3-2601A00						

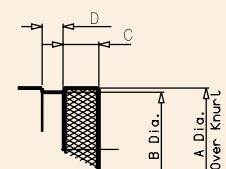
Crimping:

Contact size	Wire sizes	Type	Locator part number		Tool part number	
	AWG		Spec.	SOURIAU	Spec.	SOURIAU
26	24 to 30	Male	-	8599-0048	M22520/2-01	8476-01
		Female	-	8599-0049		

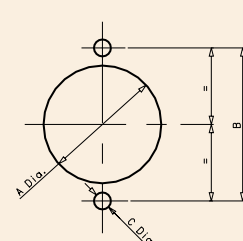
Insertion and extraction of wired contacts:

 Coloured tip for insertion white tip for extraction.	Contact size	Part numbers		Colour	
		Spec.	SOURIAU	Insert.	Extract.
	26	M81969/14-01	M81969/14-01	Green	White

Shrinkable termination detail:

	Shell size	Ø A	Ø B ±0.06	Ø C ±0.05	Ø D ±0.05
	06-05	9.90	9.05	4.20	3.50

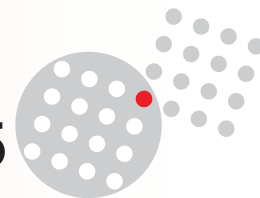
Panel cut-out:

	Shell size	
	Ø A ±0.10	13.00
	B ±0.20	18.00
	C ±0.20	3.10

Polarization:

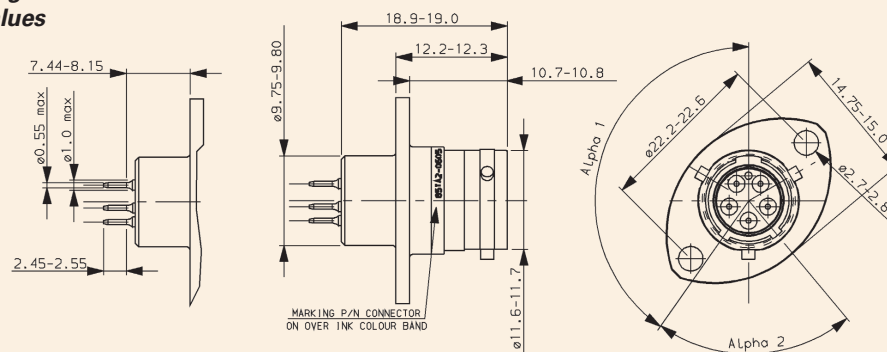
Key positions	Alpha 1	Alpha 2	Colour band
N	145°	75°	RED
A	130°	120°	YELLOW
B	110°	120°	BLUE
C	155°	115°	ORANGE
D	90°	115°	GREEN
U	NONE	NONE	NONE

8STA Circular Miniature Connector Size 06-05



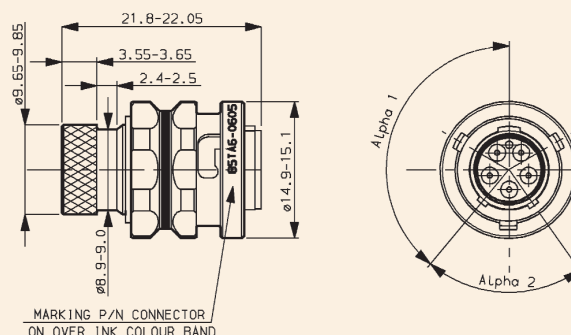
Type 8STA 2 0605 Oval flange receptacle with PCB contacts

See table Polarization page 12
for Alpha 1 & Alpha 2 values



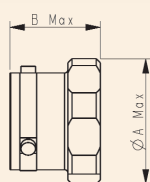
Type 8STA 6 0605 Plug

See table Polarization page 12
for Alpha 1 & Alpha 2 values



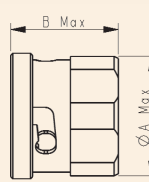
Metal protective caps

Plug cap 8STA806

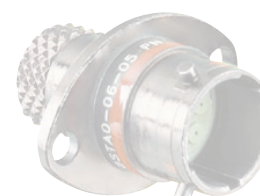


Shell size	Ø A Max.	B Max.
06	15.10	11.00

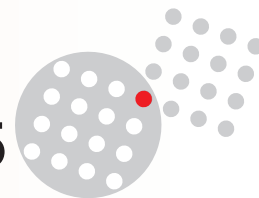
Receptacle cap 8STA906



Shell size	Ø A Max.	B Max.
06	15.10	11.00



8STA Circular Miniature Connector Size 06-05



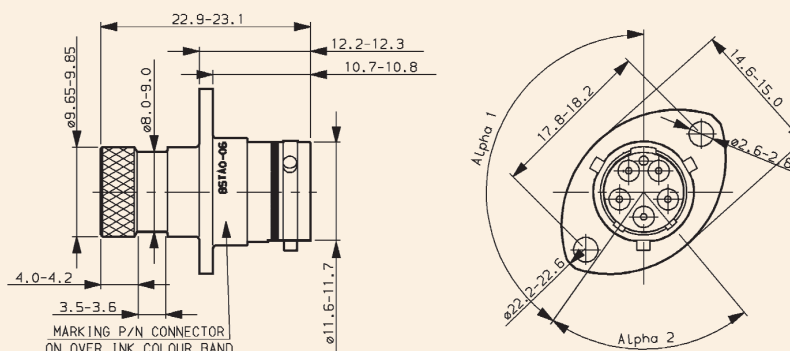
ORDERING INFORMATION

Basic series	8STA	0	06	05	P	N
8STA						
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:	06					
Contact layouts:	05 (5 contacts size 26)					
Type of contacts:	P: Pin contacts S: Socket contacts					
Orientation:	N: Red – A: Yellow – B: Blue – C: Orange – D: Green – U: Universal (only in aluminium alloy)					

Souriau part numbers for protective caps
8STA806 for plug and **8STA906** for receptacle

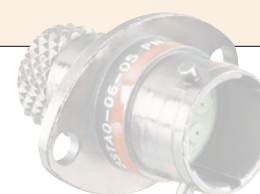
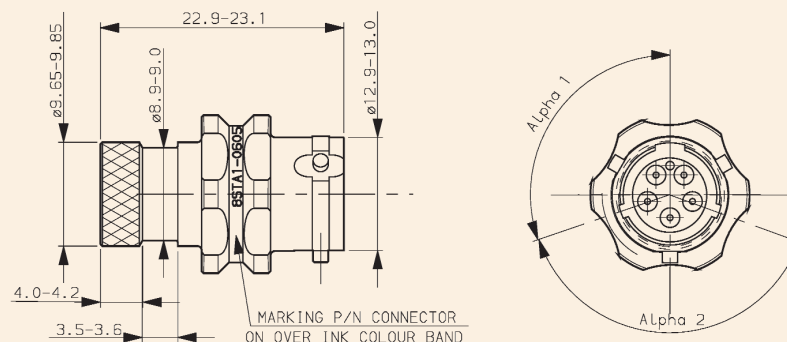
Type 8STA 0 0605 Oval flange receptacle

See table Polarization page 12
 for Alpha 1 & Alpha 2 values

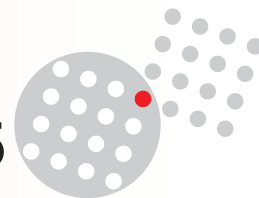


Type 8STA 1 0605 in line receptacle

See table Polarization page 12
 for Alpha 1 & Alpha 2 values



8STA Circular Miniature Connector Size 06-05



FEATURES

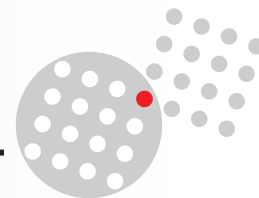
- Rugged aluminium body to ensure long service life in the harshest environment.
- Small compact connector with boot termination feature.
- Environmental sealing from interfacial seal & rear grommet.
- Positive locking mechanism with locked colour indicators.
- 6 colours coded keyway orientations.
- Conductive black zinc plating.
- Available with 5 size 26 gold plated crimp or PCB contacts.



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/s2, 10 to 2000 Hz
Flash fire test	> 2 mn at 600°C
Contact retention	45 N
Electrical characteristics	Aluminium version
Test voltage	1300 Vrms
Contact resistance	< 16 mΩ
Resistance of wire included measurement	
Insulation resistance (at 500 Vdc)	≥ 5000 MΩ
Contact rating	3 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

8STA Circular Miniature Connector Size 04



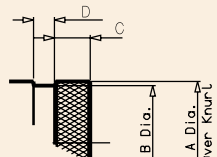
Crimping:

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		
26	24 to 30	Male	-	8599-0050		
		Female	-	8599-0051		

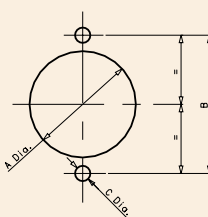
Insertion and extraction of wired contacts:

 Coloured tip for insertion white tip for extraction.	Contact size	Part number		Colour	
		Spec.	SOURIAU	Insert.	Extract.
	22D	M81969/14-01	M81969/14-01	Green	White
	26	M81969/14-01	M81969/14-01	Green	White

Shrinkable termination detail:

	Shell size	Ø A	Ø B ±0.05	Ø C ±0.05	Ø D ±0.05
	04	8.65	8.00	2.70	2.30

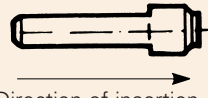
Panel cut-out:

	Shell size	
	Ø A ±0.10	12.00
	B ±0.20	16.20
	C ±0.20	3.10

Polarization:

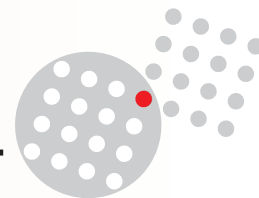
Key positions	Alpha 1	Alpha 2	Colour band
N	145°	75°	RED
A	130°	120°	YELLOW
B	110°	120°	BLUE
C	155°	115°	ORANGE
D	90°	115°	GREEN
U	NONE	NONE	NONE

Filler Plug:

 Direction of insertion	Contact size	Part number		Colour
		Spec.	SOURIAU	
	22D	MS7488-22	8660-212	Black

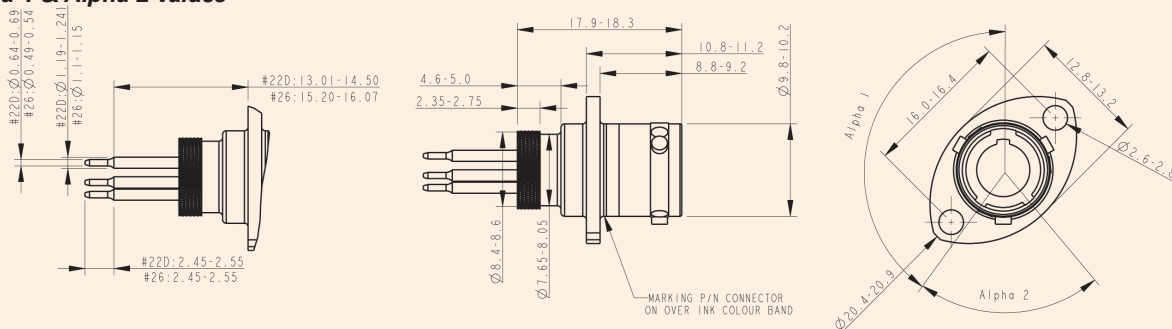
Not available for contact size 26.

8STA Circular Miniature Connector Size 04



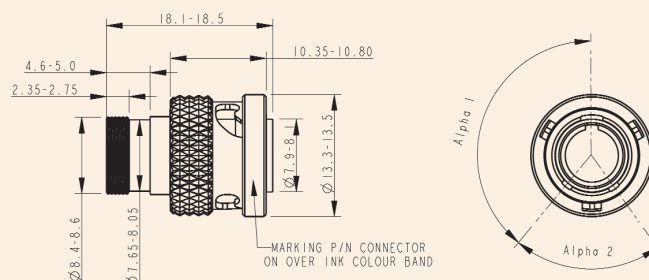
Type 8STA 2 04** Oval flange receptacle with PCB contacts

See table Polarization page 8 for Alpha 1 & Alpha 2 values



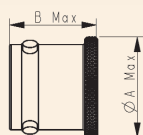
Type 8STA 6 04** Plug

See table Polarization page 8 for Alpha 1 & Alpha 2 values



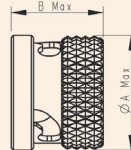
Metal protective caps

Plug cap 8STA804



Shell size	Ø A Max.	B Max.
04	12.20	10.80

Receptacle cap 8STA904

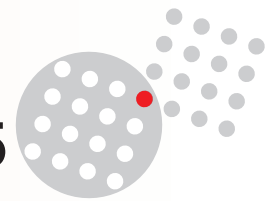


Shell size	Ø A Max.	B Max.
04	13.50	10.80

Crimped contacts / PCB 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						
26	Male	0.50	8599-0777 LY	30	24	0.095	0.24	0.60 (.023 inch)	0.83 (.032 inch)
	Female		8599-0778 900						
PCB contact									
22D	Male	0.76	F1P1P3E-0002AJJ						
	Female		F1P1ES3-2202A00						
26	Male	0.50	F1P2P3C-0001ALY						
	Female		F1P2ES3-2601A00						

8STA Circular Miniature Connector Size 06-35



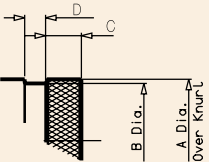
Crimping:

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		

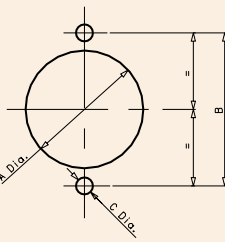
Insertion and extraction of wired contacts:

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

Shrinkable termination detail:

	Shell size	Ø A	Ø B ±0.05	Ø C ±0.05	Ø D ±0.05
	06-35	9.90	9.50	4.20	3.50

Panel cut-out:

	Shell size	
	Ø A ±0.10	13.00
	B ±0.20	18.00
	C ±0.20	3.10

Polarization:

Key positions	Alpha 1	Alpha 2	Colour band
N	145°	75°	RED
A	130°	120°	YELLOW
B	110°	120°	BLUE
C	155°	115°	ORANGE
D	90°	115°	GREEN
U	NONE	NONE	NONE

Filler Plug :

Direction of insertion

Contact size	Part number		Colour
	Spec.	SOURIAU	
22D	MS7488-22	8660-212	Black