

8STA size 04

Circular miniature connector

Souriau has extended the 8STA connector range with the launch of the smallest shell size connector in two layouts

Description

- ? Small size connector (shell size 04) suitable for sensor connections in limited space
- ? 2 layouts available:
 - ✍ 3 contacts size 22
 - ✍ 5 contacts size 26
- ? Rugged aluminium body to ensure a long service life in the harshest environment
- ? Light connector: 5.85g for a set of the 5 contact layout, contacts included
- ? Share the design and performance of the race proven 8STA connector range as successfully used in F1, WRC , IRL, CART and MotoGP



Technical features

Mechanical

- ? Shell: Aluminium alloy, black conductive plated
- ? Insulator: Thermoplastic
- ? Grommet and seal: Silicone elastomer
- ? Contact: Copper alloy, gold plated
- ? Endurance: 500 mating/unmating operations
- ? Shock: 300g for 3 ms and MIL-S-901 grade A
- ? Vibration: 147m/s², 10 to 2000 Hz
- ? Flash fire: > 2mn at 600°C
- ? Contact retention: 35N (size 22)
45N (size 26)

Electrical

- ? Test voltage: 400 Vrms (size 26)
1000 Vrms (size 22)
- ? Contact rating: 3A (size 26)
5A (size 22)
- ? Shell continuity: <60mOhm
- ? Insulation resistance: >5000 MOhm
- ? Contact resistance:
 - ✍ <16 mOhm (size 26)
 - ✍ <14.6 mOhm (size 22)

Environmental

- ? Temperature range: -55°C +175°C
- ? Sealing, mated connector: IP67
- ? Salt spray: 48 hours
- ? Resistance to fluids:
 - ✍ Lubricant (oil) : Motul 300 competition
 - ✍ Unleaded petrol (SP95)
 - ✍ Motor car brake fluid : Lockheed DOT5

Ordering information (The contacts have to be ordered separately)

Basic series	8STA	0	04	05	P	N
Shell style	0:Oval flange receptacle; 1: In line receptacle; 6: Plug					
Shell size	04					
Contact layout	05: 5 contacts size 26; 35: 3 contacts size 22					
Type of contacts	P: Male; S: Female					
Orientations	N:red; A: Yellow; B: Blue; C: Orange; D: Green; U: none					

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Contacts

Contact size	Contact type	Contact diameter (mm)	Admissible wire section				External dia. over insulation (mm)		Part number
			AWG		mm ²		Min.	Max.	
			Min.	Max.	Min.	Max.			
22	Male	0.76	28	22	0.095	0.38	0.71	1.37	8599-0702
	Female								8599-0710
26	Male	0.50	30	24	0.095	0.24	0.60	0.83	8599-0777
	Female								8599-0778

Crimp tooling

Contact size	Wire size		Type	Locator part number		Plier part number	
	mm ²	AWG		Spec.	Souriau	Spec.	Souriau
22D	0.38	22	Male	M22520/2-09	8476-09	M22520/2-01	8476-01
	0.24	24					
	0.15	26	Female	M22520/2-06	8476-06		
	0.089	28					
26	0.24	24	Male		8599-0050		
	0.15	26					
	0.089	28	Female		8599-0051		
	0.067	30					

Insertion and extraction of wired contacts

Contact size	Part number		Colour	
	Spec.	Souriau	Insertion side	Extraction side
22D	M81969/14-01	M81969/14-01	Green	White
26				

Filler plugs

Contact size	Part number		Colour
	Spec.	Souriau	
22D	MS27488-22	8660-212	Black
26			

Protective caps

Connector type	Part number
Plug	8STA804
Receptacle	8STA904