



38999 Bayonet Circular Connector For More Compacity

With the increasing requirement for low profile and EMI shielding, Souriau has more than doubled its 8T range.

A wide range

Lower profile design

RoHS plating available (black zinc nickel) 11 different shells available 43 layouts available (from size 8 to 24)

Lightweight Space saving (30% shorter compared to 8LT)



Excellent shock vibration & fluid resistance

High reliability

High density connector

From 1 to 128 contacts

QPL approuved







Applications

- · Civil and military aerospace
- · Communications equipments
- Ballistic missiles & weapon systems
- Medical instrumentation

Technical Features

Mechanical

• Shell: Aluminum alloy

• Plating: Black zinc nickel (Z) Nickel (F) Olive green cadmium (B) Hard anodized (C)

- Insulator: Thermoplastic
- Grommet and seal: Silicone elastomer
- Contact: Copper alloy
- · Plating: Gold over nickel
- Endurance: 500 mating cycles

- · Shock: 300g, 3ms duration
- Vibration: Random 100 to 1000Hz - 1g2/Hz
- Contact retention (mini force in N): Size 22D: 44N Size 16: 110N Size 20: 67N Size 12: 110N

Electrical

Test voltage (Vrms):

Service	Sea level	at 21 000 m
м	1300	800
I	1800	1000
(II	2300	1000

- Contact resistance: Size 22D: 14.6mΩ Size 20: 7.3mΩ Size 16: 3.8mΩ
- · Insulation resistance: ≥ 5000MΩ (at 500Vdc)
- Contact rating: Size 22D: 5A Size 16: 13A Size 20: 7.5A Size 12: 23A
- Shell continuity: Black zinc nickel plating: $2.5m\Omega$ Olive green plating: $2.5m\Omega$ Nickel plating: 1mQ

Description

- · Low profile
- · Bayonet locking system
- 11 shell types
- 43 layouts
- High density connector from 1 to 128 contacts
- · An excellent shock vibration and fluid resistance
- QPL qualified
- Standards:
 - MIL-C 38999 Series II
 - NFC 93422 HE 309 - VG 96912 series II
 - PAN 6433-1
 - BS 9522 N 003

Environmental

• Temperature range: Zinc nickel plating (Z):

-65°C +175°C -65°C +175°C Cadmium plating (B): Nickel plating (F): -65°C +200°C Hard anodized (C): -65°C +200°C

- Sealing (mated connectors): Differential pressure 1 bar Leakage ≤ 8 cm3/h
- Salt spray to: MIL-STD 1344 method 1001: . 500 hours (plating B & Z) . 48 hours (plating F & C)

NFC 93422: 48 hours (plating F & C)

• Damp heat:

MIL-C 38999: 10 cycles (24 hours) NFC 93422: 56 days

• Resistance to fluids:

To MIL-L 38999: MIL-L 7808, MIL-L 23699, MIL-H 5606, MIL-A 8243, MIL-L 25769, MIL-G 3056, MIL-T 5624 (JP5); hydraulic fluids; solvents

To NFC 93422: F 46, F 54, 0/180, H 515, H 542, XH 45

















Ordering information

Souriau - Part numbers

Basic Series	8T	0		14	В	35	Р	N	
 Shell type: O: Square flange receptacle (front mount with accessories threads) 1: In line receptacle (with accessories threads) 2: Square flange receptacle (rear mount without accessories threads) 3: Square flange receptacle (rear mount with accessories threads) 4: Square flange receptacle (front mount without accessories threads) 5: Plug with RFI shielding 6: Plug without RFI shielding 7: Jam nut receptacle (with accessories threads) 10: Square flange receptacle (front mount, rear knurling) 15: Plug with RFI shielding (rear knurling) 16: Plug without RFI shielding (rear knurling) 									
Type: None: Connectors with standard crimp contacts L: Receptacle with long spill (male and female size #22D) C: Receptacle with short spill (male and female size #22D, #20, #16) P: Receptacle with solder cup (male size #22D)									
Shell size: 08 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24									
Plating: Z: Black zinc nickel F: Nickel B: Olive drab cadmium C: Hard anodized									
Contact layout: See tables p. 7 & 8									
Contact type: P: Pin S: Socket A: Connector supplied less pin contact or with specific contacts (connect B: Female connector without contact or with special contacts (connector)					
Orientation: N, A, B, C, D & E									
Special custom: None: Standard plastic cap M: Antistatic plastic cap									
L: For P and S contact type only, connector delivered without contacts, connector	ector mark	king P or	S (withou	ut L)					

MIL-C-38999 Series II

Basic Series	MS	27497T	14	В	35	Р	N	
 Shell type & Class: 27472T: Square flange receptacle (front mount with accessories threads) 27508E: Square flange receptacle (rear mount without accessories threads) 27497T: Square flange receptacle (rear mount with accessories threads) 27499E: Square flange receptacle (front mount without accessories threads) 27484T: Plug with RFI shielding 27474T: Jam nut receptacle (with accessories threads) 27474T: Jam nut receptacle (front mount, rear knurling) 27474E: Plug with RFI shielding (rear knurling) 27473E: Plug without RFI shielding (rear knurling) 								
Shell size: 08 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24								
Plating: Z: Black zinc nickel B: Olive drab cadmium F: Nickel								
Contact layout: See tables p. 7 & 8								
Contact type: P: Pin S: Socket A: Connector supplied less pin contact or with specific contacts (connector ma B: Female connector without contact or with special contacts (connector marki)					
Orientation: N, A, B, C, D & E								
Special custom: None: Standard plastic cap M: Antistatic plastic cap								
L: For P and S contact type only, connector delivered without contacts, connector	marking	P or S (withou	it L)					

Note : connectors supplied with standard contacts



Contact layouts



* Layout not available on 8T2 & 8T4 (short grommet). On demand only, please consult us.
** Layout not available on 8T2 & 8T4 (short grommet) / Layout available on other types (long grommet) but only with male insert. For female version or short grommet, please consult us.





For further information contact us at contactmilaero@souriau.com or visit our web site www.souriau.com

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