38999 Series II 8T Series



38999 Bayonet Low Profile Connector

With the increasing requirement for compacity and EMI shielding, SOURIAU has more than doubled its 8T range.

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

Lower profile design Lightweight. Space saving (30% shorter compared to 8LT).



High reliability EMI shielding. Excellent shock vibration & fluid resistance. QPL approuved.

High density connector ■ From 1 to 128 contacts.





Description

- Low profile / Not scoop proof
- Bayonet locking system
- 11 shell types, 43 layouts
- High density connector from 1 to 128 contacts
- An excellent shock vibration and fluid resistance solution
- QPL qualified
- Standards:
 - MIL-C 38999 Series II
 - NFC 93422 HE 309
- VG 96912 Series II
- PAN 6433-1
- BS 9522 N 003

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			
M	1300	800			
I	1800	1000			
II	2300	1000			

• Contact resistance:

Size 22D: $14.6m\Omega$ Size 20: $7.3m\Omega$ Size 16: $3.8m\Omega$

• Insulation resistance:

 \geq 5000M Ω (at 500Vdc)

• Contact rating:

Size 22D: 5A Size 16: 13A Size 20: 7.5A Size 12: 23A

• Shell continuity (with EMI ring):

Black zinc nickel plating: $2.5 m\Omega$ Olive green plating: $2.5 \text{m}\Omega$ Nickel plating: $1m\Omega$

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 ≤ 8cm³/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

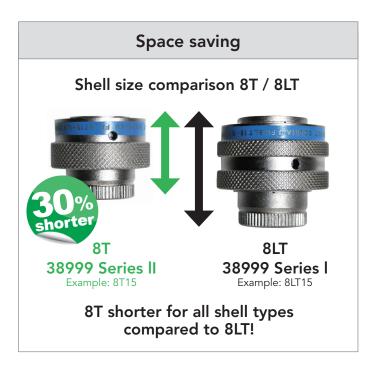
• Resistance to fluids:

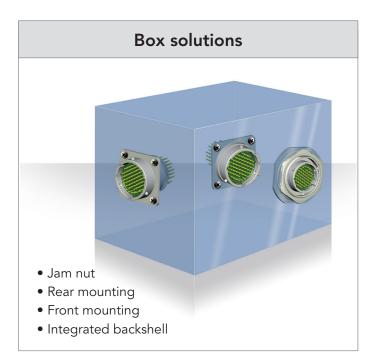
To MIL-L 38999:

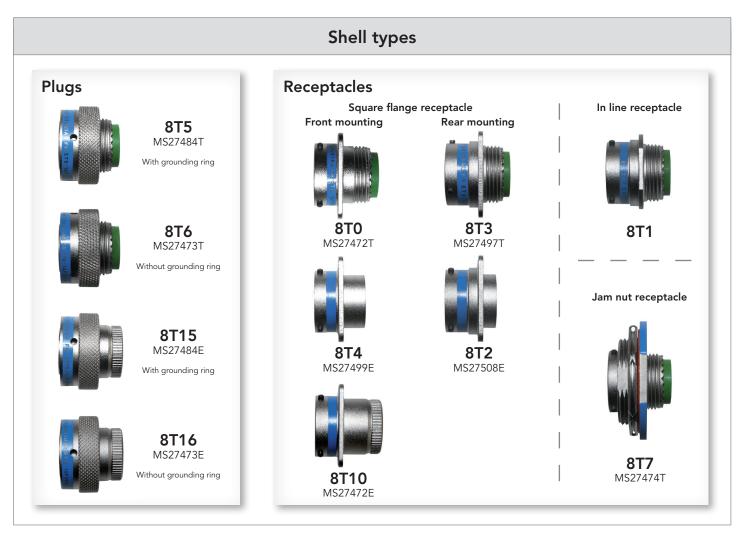
MIL-L 7808, MIL-L 23699, MIL-H 5606, MIL-A 8243, MIL-L 25769, MIL-G 3056, MIL-T 5624 (JP5); hydraulic fluids; solvents

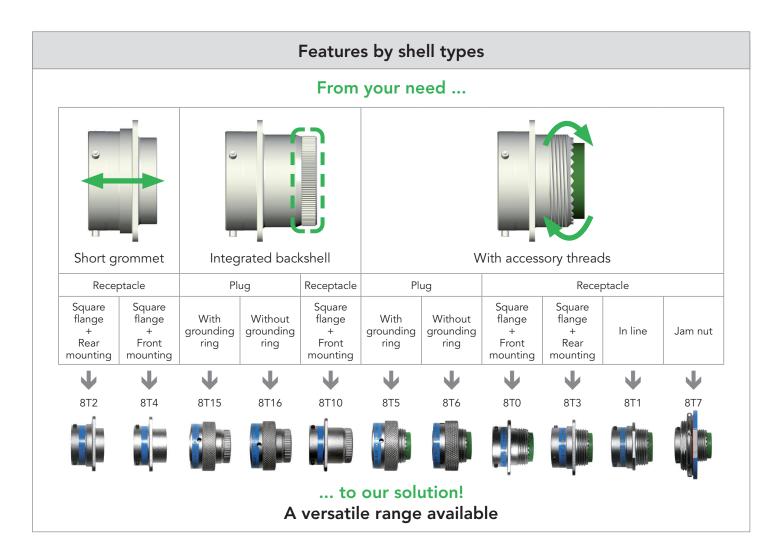
To NFC 93422:

F 46, F 54, 0/180, H 515, H 542, XH 45



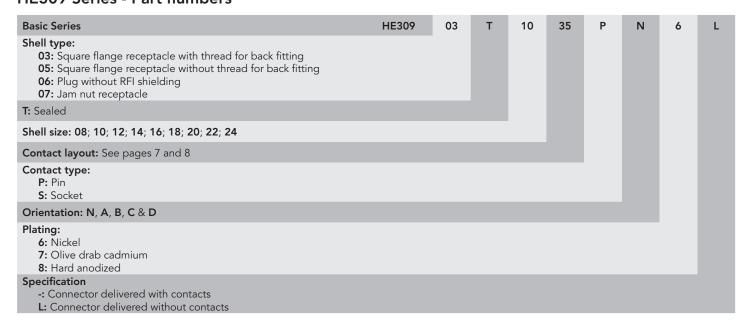




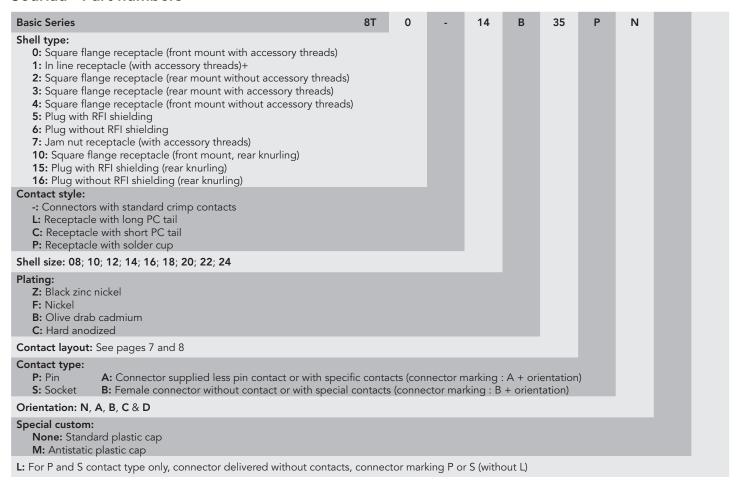


Ordering information

HE309 Series - Part numbers



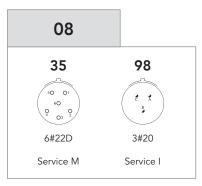
Souriau - Part numbers

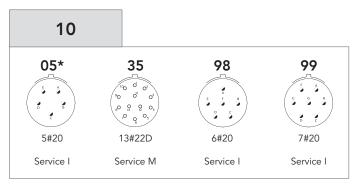


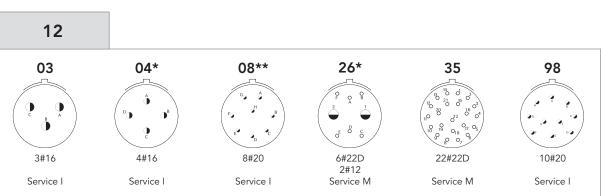
MIL-DTL-38999 Series II - Part numbers

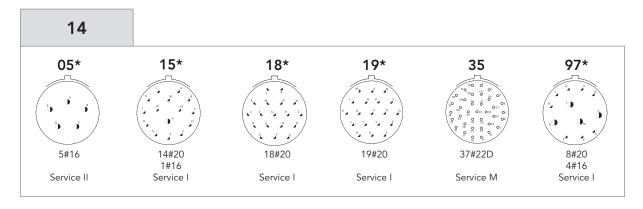
Shell type & Class:	Basic Series	MS	27497T	14	В	35	Р	N	
Plating: Z: Black zinc nickel B: Olive drab cadmium F: Nickel Contact layout: See pages 7 and 8 Contact type: P: Pin A: Connector supplied less pin contact or with specific contacts (connector marking: A + orientation) S: Socket B: Female connector without contact or with special contacts (connector marking: B + orientation)	 27472T: Square flange receptacle (front mount with accessory thread 27508E: Square flange receptacle (rear mount without accessory thread 27497T: Square flange receptacle (rear mount with accessory threads 27499E: Square flange receptacle (front mount without accessory threads 27484T: Plug with RFI shielding 27473T: Plug without RFI shielding 27474T: Jam nut receptacle (with accessory threads) 27472E: Square flange receptacle (front mount, rear knurling) 27484E: Plug with RFI shielding (rear knurling) 	eads) s)							
Z: Black zinc nickel B: Olive drab cadmium F: Nickel Contact layout: See pages 7 and 8 Contact type: P: Pin A: Connector supplied less pin contact or with specific contacts (connector marking: A + orientation) S: Socket B: Female connector without contact or with special contacts (connector marking: B + orientation)	Shell size: 08; 10; 12; 14; 16; 18; 20; 22; 24								
Contact type: P: Pin S: Socket A: Connector supplied less pin contact or with specific contacts (connector marking : A + orientation) B: Female connector without contact or with special contacts (connector marking : B + orientation)	Z: Black zinc nickel B: Olive drab cadmium				_				
P: Pin A: Connector supplied less pin contact or with specific contacts (connector marking: A + orientation) S: Socket B: Female connector without contact or with special contacts (connector marking: B + orientation)	Contact layout: See pages 7 and 8								
Orientation: N, A, B, C & D	P: Pin A: Connector supplied less pin contact or with specific								
	Orientation: N, A, B, C & D								

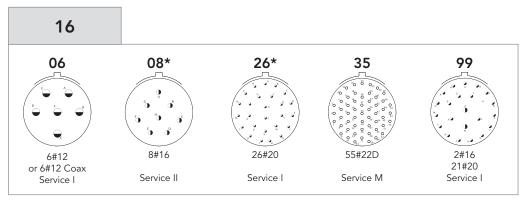
Contact layouts











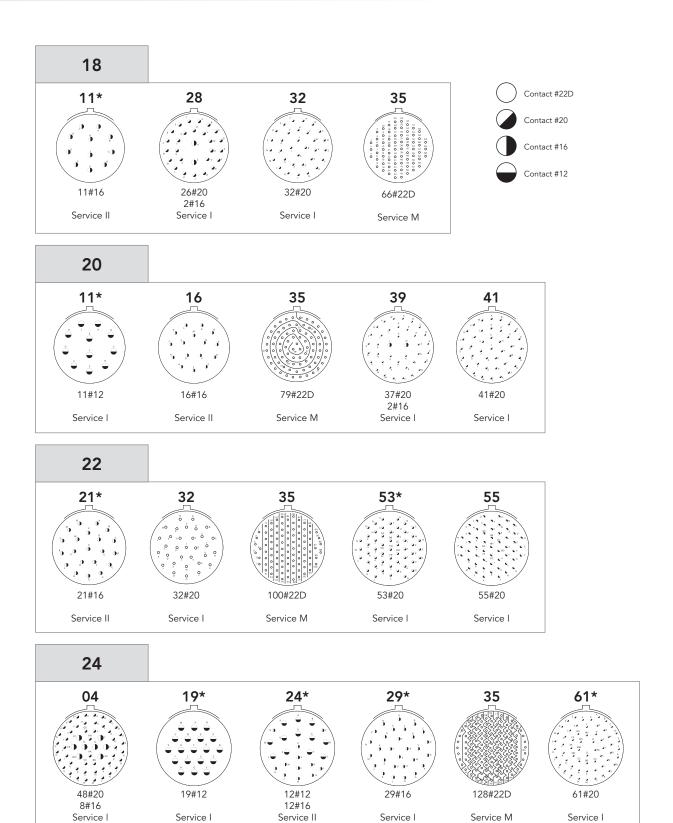
 ^{*} Layout not available on 8T2 & 8T4 (short grommet). On demand only, please consult us.
 **Layout not available on 8T2 & 8T4 (short grommet) / Layout available on other types (long grommet) but only with male insert. For female version or short grommet, please consult us.

Contact #22D

Contact #20

Contact #16

Contact #12



^{*} Layout not available on 8T2 & 8T4 (short grommet). On demand only, please consult us.

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