



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

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
- · 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

Applications

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

• 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
ll l	2300	1000

· Contact resistance:

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

• 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: $1m\Omega$

Environmental

• Temperature range:

Zinc nickel plating (Z): $-65^{\circ}\text{C} + 175^{\circ}\text{C}$ Cadmium plating (B): $-65^{\circ}\text{C} + 175^{\circ}\text{C}$ Nickel plating (F): $-65^{\circ}\text{C} + 200^{\circ}\text{C}$ Hard anodized (C): $-65^{\circ}\text{C} + 200^{\circ}\text{C}$

• 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

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

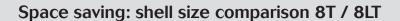
• Contact: Copper alloy

• Plating: Gold over nickel

Endurance:

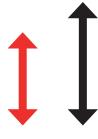
500 mating cycles













8T 38999 Series II Example: 8T 15

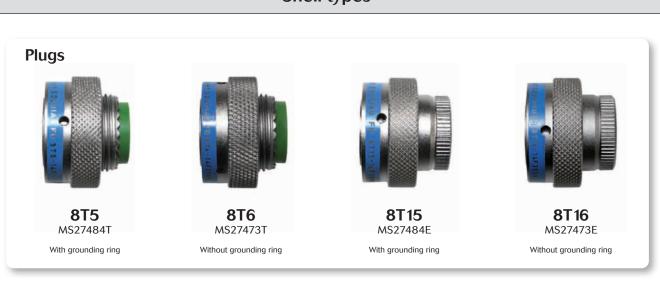
8LT 38999 Series I Example: 8LT 15

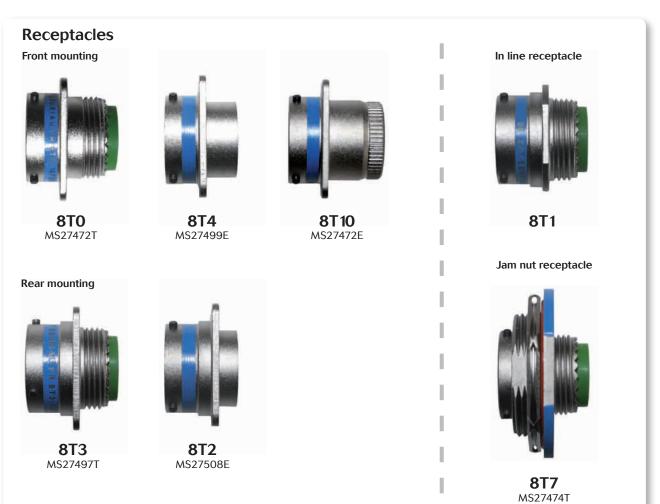
8T shorter for all shell types compared to 8LT!

• Rear mounting • Integrated backshell • Jam nut

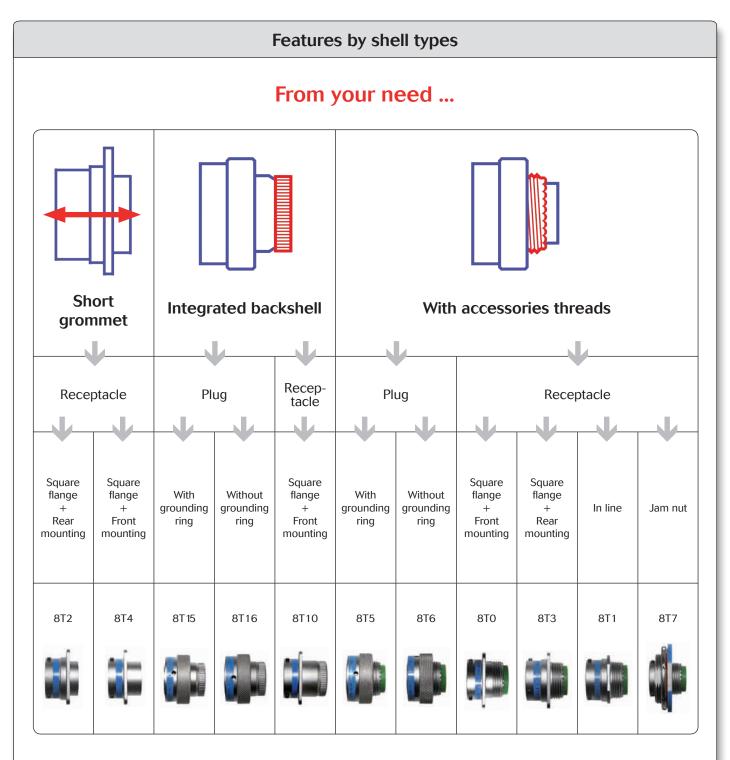












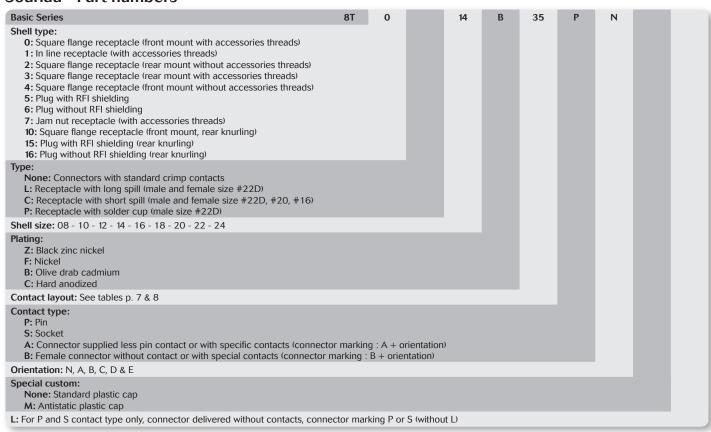
... to our solution!

A versatile range available!



Ordering information

Souriau - Part numbers



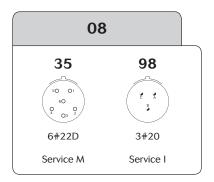
MIL-C-38999 Series II

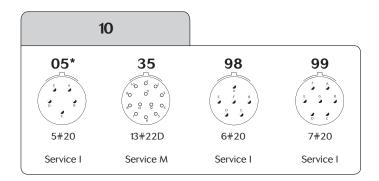
Basic Series	MS	27497T	14	В	35	Р	N	
Shell type & Class: 27472T: Square flange receptacle (front mount with accessories threads) 27508E: Square flange receptacle (rear mount without accessories threads) 27497T: Square flange receptacle (rear mount with accessories threads) 27499E: Square flange receptacle (front mount without accessories threads) 27484T: Plug with RFI shielding 27473T: Plug without RFI shielding 27474T: Jam nut receptacle (with accessories threads) 27472E: Square flange receptacle (front mount, rear knurling) 27484E: 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	_		n)					
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	rt I.)					

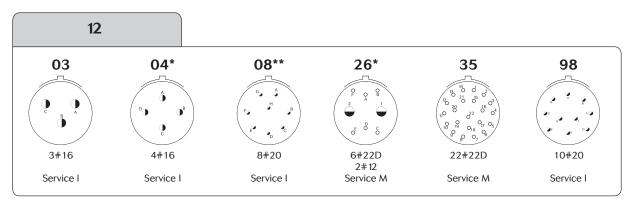
Note: connectors supplied with standard contacts

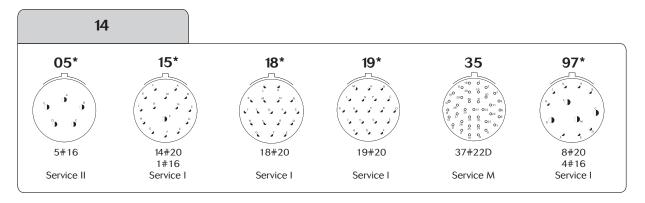


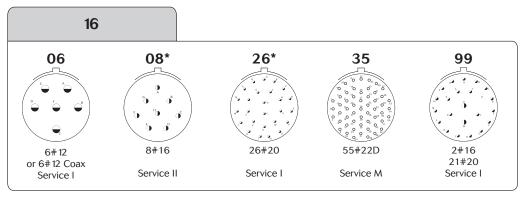
Contact layouts





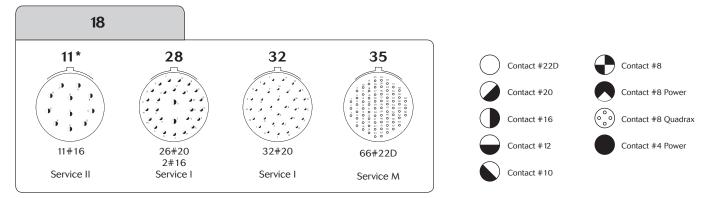


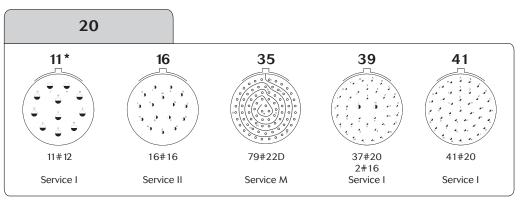


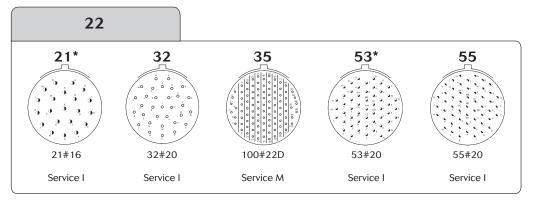


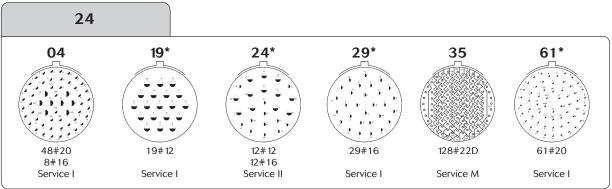
Layout not available on 8T2 & 8T4 (short grommet). On demand only, please consult us.
 Layout not available on 8T2 & 8T4 (short grommet) / Layout available on other types (long grommet) but only with male insert. For female version or short grommet, please consult us.











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