SOURIAU



Miniature Threaded Coupling Connector

Space saving with scoop proof connector designed for any harsh application where both size and EMI shielding are critical.

A compact solution ■ Diameter up to 45% smaller than D38999 size 9. Integrated backshell: up to 40% shorter.

A high density solution With #26 contacts (according 39029). 6 layouts (size 3, 5 and 7 with #22 & #26).

Excellent features Designed for D38999 requirements. IP67 sealing when mated. EMI ring and ratcheting system.

RoHS and Cadmium freeAvailable in zinc nickel (RoHS) plating, as well as nickel and olive drab cadmium.

Not QPL listed.





Miniature sizes

• A compact solution

- The smallest connector available on the market (shell size 3)
- Miniaturization of MIL-DTL-38999 Series III
- Threaded coupling (between 1/2 and 3/4 turn to mate) with ratcheting system (size 5 & 7)
- Integrated backshell:
 - Easy to wire and handle
 - Compatible with heat shrink boot and braid retention band
 - Compliant with overmolding
- Triple-start thread

• A versatile solution

- 3 shell sizes (3, 5, 7), 4 shell types
- 2 materials, 4 platings
- Crimp & PC tails contacts
- Removable contacts #22D & #26
- 6 keyings

• Harsh environment-resistant solution

- Scoop Proof
- Cavity to cavity sealed with interfacial seal and grommet
- EMI ring (for size 5 & 7)
- Fluid resistant

Technical features

Mechanical

• Shell:

Aluminum alloy Passivated stainless steel (for size 5 & 7)

• Shell plating:

Aluminum:

- . Zinc nickel (RoHS)
- . Nickel (RoHS)
- . Olive drab cadmium

Passivated stainless steel (RoHS)

- Insulator: Thermoplastic
- Contact body: Copper alloy
- Contacts plating: Gold over nickel plated

• Shell endurance:

Aluminum:

500 mating/unmating cycles Passivated stainless steel: 1000 mating/unmating cycles

• Vibration:

44 grms @125°C, 2 axes during 8 hours

• Shock:

300g, 3 ms

Electrical

Wire size

Layouts	Wire (AWG)	
03-05; 05-06; 07-09	24-30	
03-35; 05-35; 07-35	22-28	

• Test voltage (at sea level):

Size 22D: 1000 Vrms Size 26: 400 Vrms

• Contact resistance:

Size 22D: <14.6 mΩ Size 26: <16 mΩ

• Contact rating:

Size 22D: 5A Size 26: 3A

• Contact retention:

Size 22D: 45N Size 26: 30N

• Shell to shell continuity (typical value)

Shell size	Aluminum version	Stainless steel version	
3		NA	
5	10 0	(0 0	
7	10 mΩ	60 mΩ	

Aluminum: -70dB @ 1GHz

Passivated stainless steel: -55 dB @ 1Ghz

Environmental

• Temperature range:

-55°C to +175°C

• Water immersion:

IP 67 on mated connector 1 meter for 30 min minimum > IP68 with appropriate cable termination

• Salt spray:

Zinc nickel: 500 hours Nickel: 48 hours

Olive drab cadmium: 500 hours Passivated stainless steel: 250 hours

Resistance to fluids

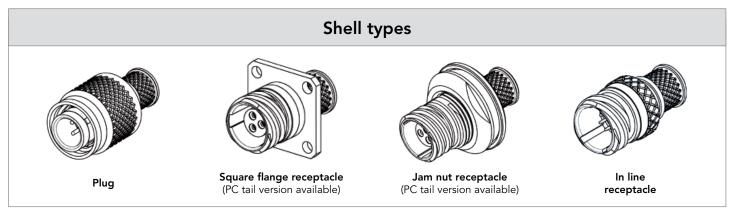
• According to MIL-DTL-38999 standard

Gasoline: JP5 (OTAN F44) Mineral hydraulic fluid: MIL-H-5606

(OTAN H515)

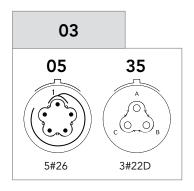
Synthetic hydraulic fluid: Skydrol 500 B4

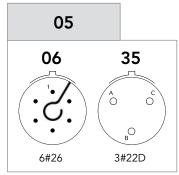
• Compatible with de-icing fluids containing potassium acetate

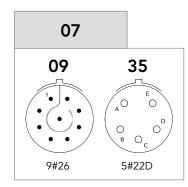


For other configuration, please consult us.

Contact layouts



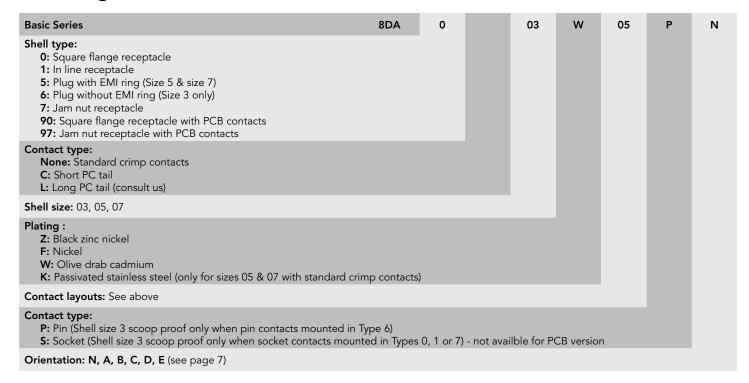




Size 3: Marking on shell.
Rear view of receptacle for male and female insulator.
Opposite marking between plug and receptacle.

Sizes 5 and 7: Marking on insulator. Rear view of male insulator for plug and receptacle. Opposite marking between male and female insulator.

Ordering information

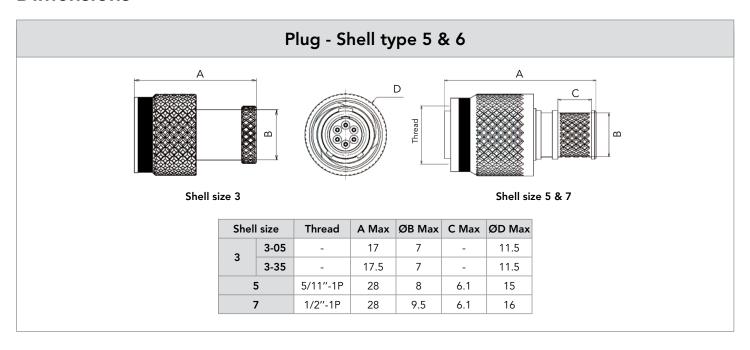


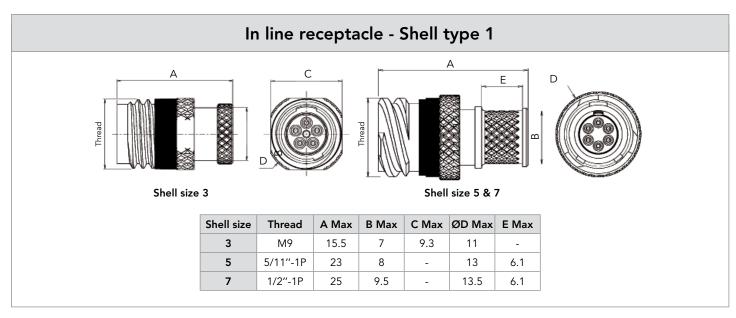
Connector weights

Aluminum version - in gram ±10 %

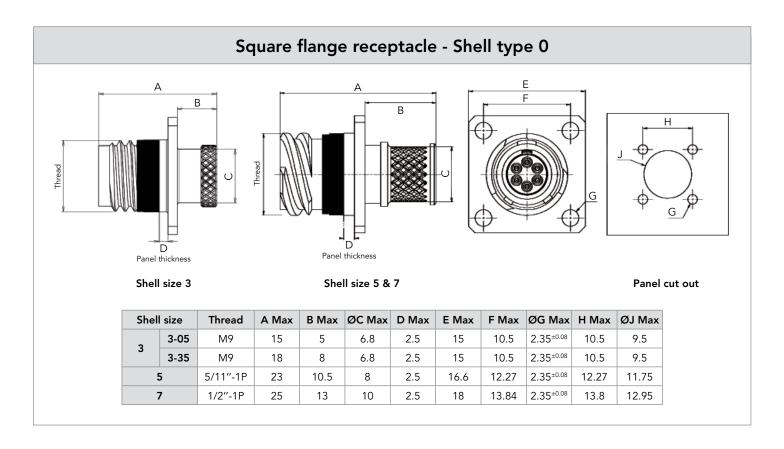
Shell size	PI	ug	Square flange receptacle		Jam nut receptacle	
& layout	Without contacts	With crimp contacts	Without contacts	With crimp contacts	Without contacts	With crimp contacts
3-05	2.4	2.5	1.9	2.1	3	3.1
5-06	6	6.2	5.4	5.8	6	6.4
7-09	6.5	6.8	6	6.5	7	7.5

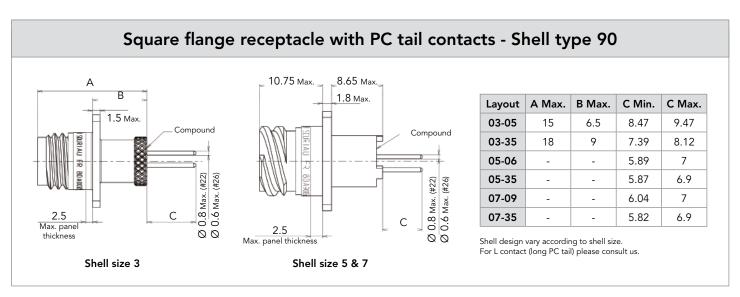
Dimensions

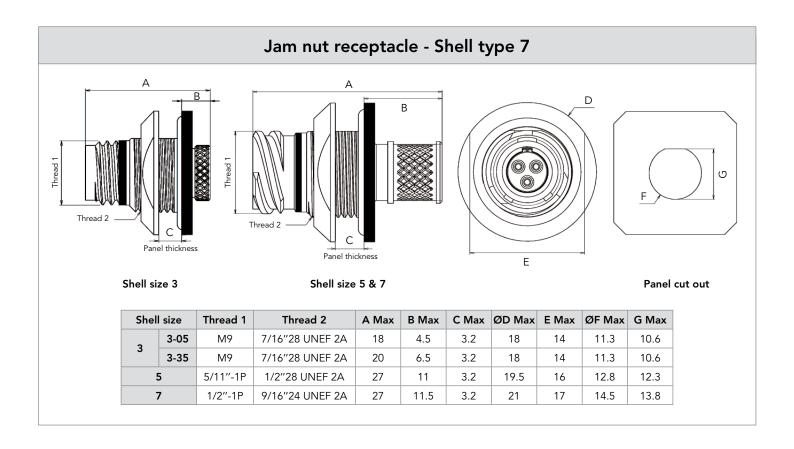


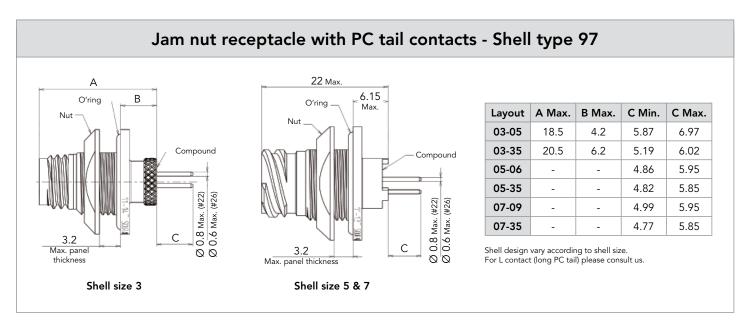


Note: All dimensions are in millimeters (mm)



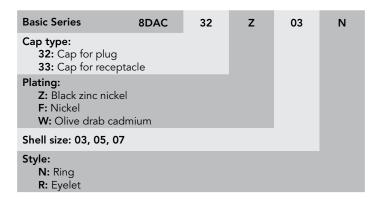






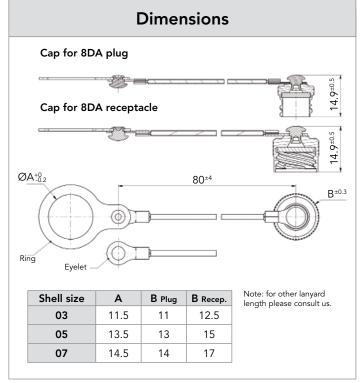
Orientations Shell size 3 Shell sizes 5 & 7 Shell С Master Kev **Angles** Ν Α В size 3 153 51 102 204 145 130 110 155 5 & 7 Z° 75 120 120 115 Viewed from front face of plug

Aluminum caps



Gaskets

Shell size	Part number	
3	8DA0G03	
5	8DA0G05	
7	8DA0G07	



D

255

90

115

Ε

306

90

180

Note: All dimensions are in millimeters (mm)

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