

SPACECRAFT COMPONENTS CORP.

Serving Connector Users Since 1962

micr 38999

by



SOURIAU
Connection Technology

Previously the smallest size available.



D38999 Series III (8D) Size 9



#22D
Ø 0.76mm

Compact Shell

Now even **SMALLER!**

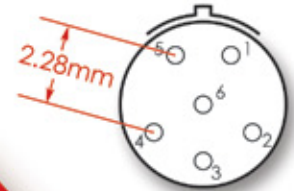


micr  38999

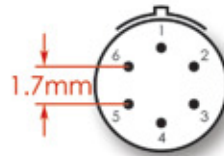
Available in Sizes 3, 5 & 7

Contact Size

#26
Ø 0.5mm



Contact Pitch



In three different versions



Bayonet
Coupling



Threaded
Coupling



Quick Disconnect
(Break Away)

- 50% shorter
- 33% smaller diameter
- 3 times lighter
- Scoop proof
- 55°C to +175°C

THREADED COUPLING 8DA



8DA0*
Square flange
receptacle



8DA1*
In line
receptacle



8DA5*
8DA6*
Plug



8DA7*
Jam nut
receptacle

BREAK AWAY 8BA



8BA1*
In line
receptacle



8BA6*
Plug



8BA7*
Jam nut
receptacle

BAYONET COUPLING 8LTA



8LTA0*
Square flange
receptacle



8LTA1*
In line
receptacle



8LTA2*
Oval flange
receptacle

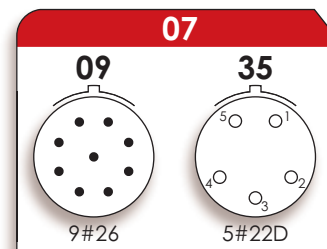
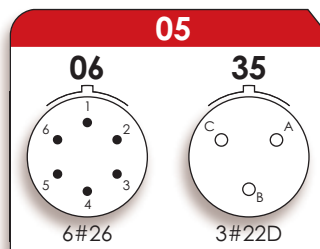
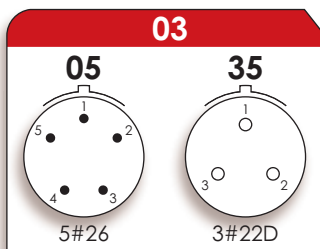


8LTA6*
Plug



8LTA7*
Jam nut
receptacle

CONTACT LAYOUTS



ORDERING INFORMATION



Shell Type:

8DA - Threaded Coupling

- 0: Square flange receptacle
- 1: In line receptacle
- 5: Plug with EMI ring (Size 5 & size 7)
- 6: Plug without EMI ring (Size 3 only)
- 7: Jam nut receptacle

8BA - Break Away

- 1: In line receptacle
- 6: Plug
- 7: Jam nut receptacle

8LTA - Bayonet Coupling

- 0: Square flange receptacle
- 1: In line receptacle
- 2: Oval flange receptacle
- 6: Plug without EMI ring
- 7: Jam nut receptacle

Orientation:

N, A, B, C, D, E

Contact Type:

- P: Pin (Shell size 3 scoop proof only when pin contacts mounted in Type 6)
- S: Socket (Shell size 3 scoop proof only when socket contacts mounted in Type 1 & Type 7)

Contact Layouts: See bottom of previous page

Plating:

- F: Nickel
- K: Passivated stainless steel (except for size 3)
- W: Olive drab cadmium
- Z: Black zinc nickel

Shell Size: 03 - 05 - 07

Highlighted items are carried in stock.

TECHNICAL FEATURES

Mechanical

- **Shell:**
Aluminum alloy (for sizes 3, 5 & 7)
Passivated stainless steel (for sizes 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:**
8BA & 8DA
Aluminum:
500 mating/unmating cycles
Passivated stainless steel:
1000 mating/unmating cycles
8LTA
Aluminum:
250 mating/unmating cycles
Passivated stainless steel:
1000 mating/unmating cycles
- **Vibration:**
8DA
44 grms @ 125°C, 2 axes during 8 hours
8BA & 8LTA
30 grms @ 125°C, 2 axes during 8 hours
- **Shock:**
300g, 3 ms

Electrical

- **Wire Size**

Layout	Wire (AWG)
03-05	24-30
03-35	22-28
05-06	24-30
05-35	22-28
07-09	24-30
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**

	Shell sizes	Aluminum version	Stainless steel version
8BA, 8DA	3, 5 & 7	< 10 mΩ	< 60 mΩ
8LTA		< 250 mΩ	
- **EMI:**
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: 500 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**

Non QPL listed.

SPACECRAFT COMPONENTS CORP.

S e r v i n g C o n n e c t o r U s e r s S i n c e 1 9 6 2



SCP 5015 STYLE
CONNECTORS
(CATALOG 101)



SCPT 26482 STYLE
SC1 38999 SERIES I
SC2 38999 SERIES II
SC39 38999 SERIES III
(CATALOG 201)



SCPB SERIES
(CATALOG 302)



CONNECTOR
ACCESSORIES
(CATALOG 401)



CONNECTORS
WITH INTEGRATED
BACKSHELLS
(CATALOG 601)

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Catalogs available.**

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CATALOG 701
All Plastic Connectors**



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