

# 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!**

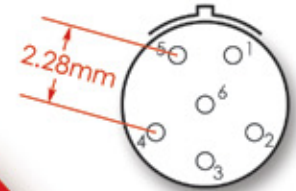


**micr  38999**

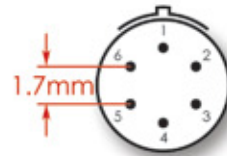
Available in Sizes 3, 5 & 7

**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

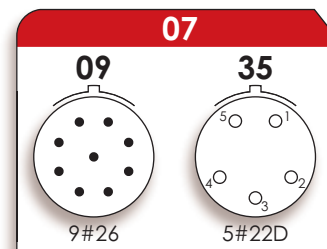
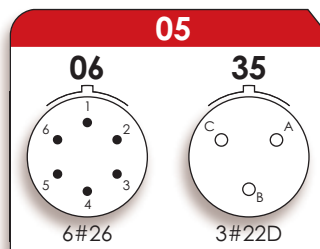
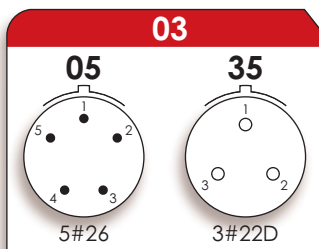


**8LTA6\***  
Plug



**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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connector products.  
Catalogs available.**

**COMING SOON...  
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All Plastic Connectors**



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COMPONENTS CORP.**

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