

8D Series

Receptacle with Clinch Nuts or Helicoils



Solutions for Box Mounting

Equivalent mounting retention of the receptacle ensured with only 4 clinch nuts or helicoils. Designed for severe applications.

User friendly ■ Easy to install.

Selflocking ■ Fast and secure.

Reduced mounting hardware ■ Elimination of nuts and washers.



8D Series | Receptacle with Clinch Nuts or Helicoils



Description

- Square flange receptacle with 4 clinch nuts or 4 helicoils
- Clinch nut & helicoils are self-locking
- Rear mounting
- Easy to install, time saving
- Equivalent MIL level qualification as 38999 Series III
- Clinch nut & helicoil tested:
 - . Impact test (drop 0.4kg from height of 100mm)
 - . Push out test (130N during 15s max)
 - . Wrench out test (1N/m)

Technical features

Mechanical

- **Shell:** Aluminum
- **Shells plating:**
 - Black zinc nickel (Z)
 - Cadmium olive drab (W)
 - Nickel (F)
- **Insulator:** Thermoplastic
- **Grommet and interfacial seal:**
 - Silicone elastomer
- **Contact:** Copper alloy
- **Contact plating:** Gold over nickel plated
- **Endurance:**
 - . 500 mating/unmating operations
- **Shock:**
 - 300g, 3ms according EN2591-D2 method A
- **Vibration:**
 - . Sinus:
 - . 10 à 2000 Hz, 3x12 hrs
 - (60g, 140 - 2000 Hz) with T° cycling
 - . Random:
 - . 50 to 2000 Hz, 2x8 Hrs
 - (1g2/ Hz, 100 - 2000Hz) at T° max.
 - . 25 to 2000 Hz, 2x8 Hrs
 - (5g2/ Hz, 100 - 300Hz) at ambient T°
 - Test with accessories in acc with EN2591-D3
- **Contact retention:**

Contacts size	26	22	20	16	12	8	4
Min force in N	30	44	67	111	111	111	200

Electrical

- **Test voltage rating (Vrms)**

Service	sea level	at 21000 m
R	400	N/A
M	1 300	800
N	1 000	600
I	1 800	1 000
II	2 300	1 000

- **Contact resistance**

Contacts size	26	22	20	16	12	8	4
Resistance mΩ	16	14.6	7.3	3.8	3.5	3	2

- **Insulation resistance:**
 - ≥ 5 000 MΩ (under 500 Vdc)

- **Contact rating:**

Contacts size	26	22	20	16	12	8	4
Rating (A)	3	5	7.5	13	23	45	80

- **Shell continuity**
 - Black zinc nickel (Z): 2.5 mΩ
 - Cadmium olive drab (W): 2.5 mΩ
 - Nickel (F): 1 mΩ

- **Shielding:**
 - F: 65 db at 10 GHz
 - Z, F & W: 85 db at 1 GHz
 - Z & W: 50 db at 10 GHz

Environmental

- **Temperature range:**
 - W: -65°C +175°C
 - Z & F: -65°C +200°C
- **Sealing:**
 - Mated connectors meet altitude immersion requirements of MIL-DTL-38999.
- **Salt spray:**
 - Z & W: 500 Hours
 - F: 48 Hours

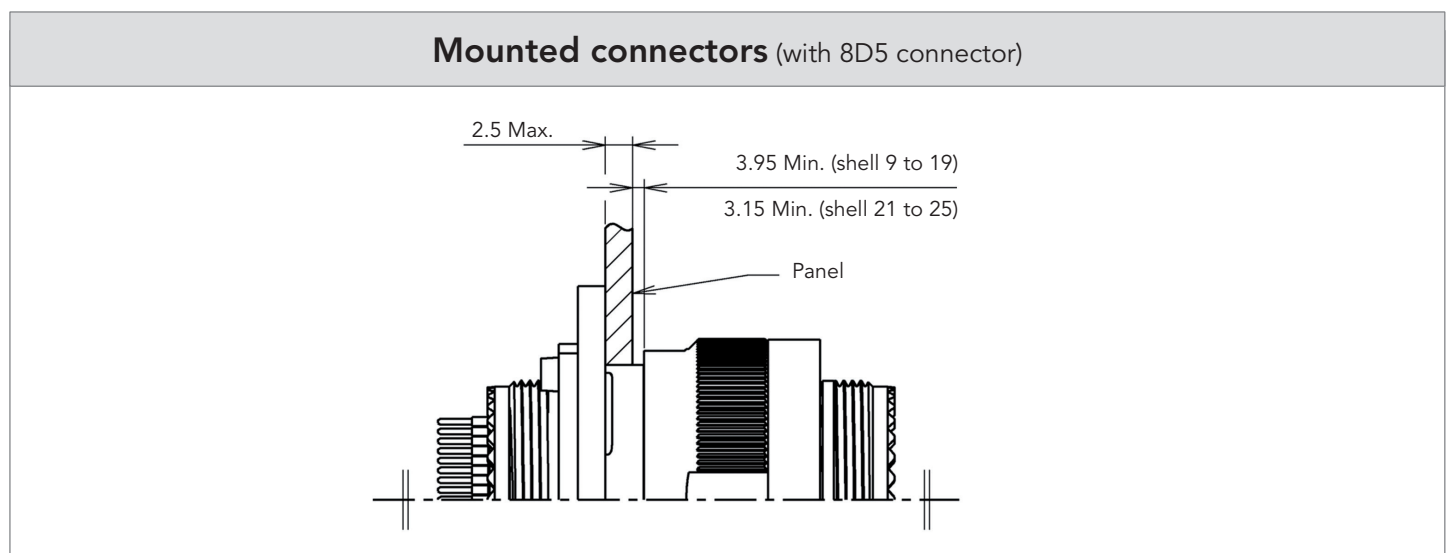
Resistance to fluids

- **According to MIL-DTL-38999 standard**
 - . Gasoline: JP5 (OTAN F44)
 - . Mineral hydrolic fluid: MIL-H-5606 (OTAN H515)
 - . Synthetic hydraulic fluid: Skydrol 500 B4
- **LD4 (SAE AS 1241)**
 - . Mineral lubricating: MIL-L-7870A (OTAN 0142)
 - . Synthetic lubricating: MIL-L-23699 (OTAN 0156), MIL-L-7808
 - . Cleaning fluid: MIL-C-87936 diluted
 - . De-icing fluid: MIL-A-8243
 - . Extinguishing fluid: Bromochloromethane
 - . Cooling fluid: Coolanol

Ordering information

Basic Series	8D	34	-	19	F	35	S	N
Shell style: 34: Square flange receptacle with M3 clinch nuts, F & W only 35: Square flange receptacle with M3 helicoils, Z only 37: Square flange receptacle with UNC 4-40 helicoils, Z only 39: Square flange receptacle with UNC 4-40 clinch nuts, F & W only								
Contact length: (consult us) - : Connectors with standard crimp contacts C: Short PC tail L: Long PC tail								
Shell size: 9 - 11 - 13 - 15 - 17 - 19 - 21 - 23 - 25								
Plating: Z: Black zinc nickel F: Nickel W: Olive green cadmium								
Contact layout: Consult Souriau 38999 Series III catalog								
Contact type: P: Pin S: Socket								
Orientation: N, A, B, C, D & E								
Specification: 046: Tin plated contact SnPb 046E: Tin plated contact Sn pure 046S: Tin plated contact SAC305 900: Contact without shoulder (gold plated) 901: Tin plated contact without shoulder SnPb 901E: Tin plated contact without shoulder Sn pure 901S: Tin plated contact without shoulder SAC305								

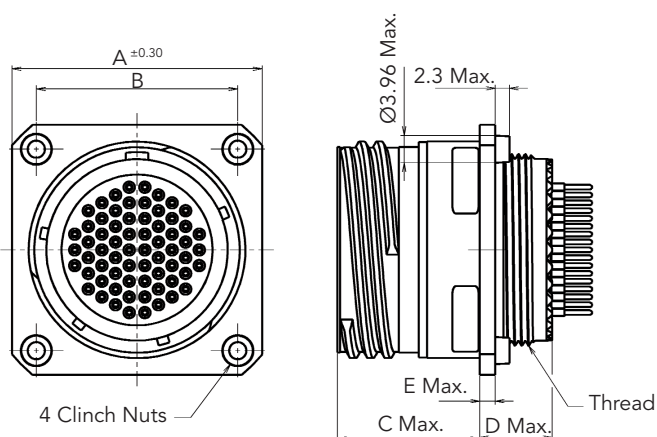
Dimensions



Note: All dimensions are in millimeters (mm)

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Square flange receptacle - type 34 & type 39

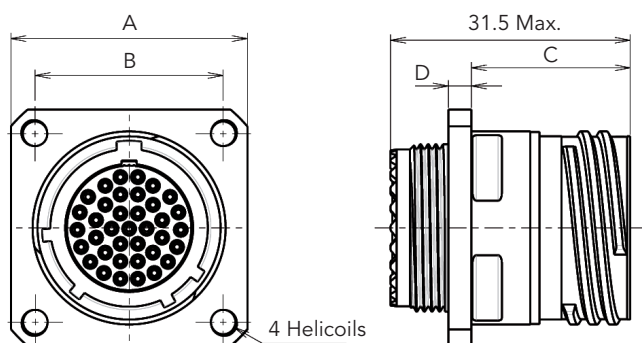


Shell Size	A ±0.3	B	C Max	D Max	E Max	Thread
9	27.79	18.26	20.90	10.60	2.50	M12x1-6g
11	30.15	20.62				M15x1-6g
13	32.54	23.01				M18x1-6g
15	34.14	24.61				M22x1-6g
17	36.5	26.97				M25x1-6g
19	38.89	29.36	20.10	11.40	3.20	M28x1-6g
21	41.27	31.75				M31x1-6g
23	44.45	34.93				M34x1-6g
25	47.62	38.1				M37x1-6g

Contact length

See page 26 of 8D Series Catalog.

Square flange receptacle - type 35 & type 37



Shell Size	A	B	C	D
9	24	18.26	20.9	4.3
11	26.4	20.62		
13	28.8	23.01		
15	31.2	24.61		
17	33.5	26.97		
19	36.7	29.36	20.1	
21	39.9	31.75		
23	43.1	34.93		
25	46.2	38.1		

Contact length

Please contact us.

Note: All dimensions are in millimeters (mm)

For further information contact us at technical.emear@souriau.com (Europe - Asia - Africa)
technical.americas@souriau.com (North America)
or visit our web site www.souriau.com

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