SOURIAU

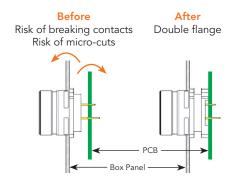


Double Flange Solution for PCB Mount

Connector specially designed for printed circuit board applications in harsh environments, decoupling vibration from the board.

performances

Excellent mechanical Standoffs integrated into the connector. No risk of breaking contacts or micro-cuts.



Design flexibility Square flange or Jam nut versions available. Versatile contact length options.

A wide range Available in aluminum with a range of layouts from shell size 9 to 25.

User friendly ■ Easy to assemble & time saving.





Description

- High level vibration resistance in harsh environments
- Offers the same level of performance as the MIL-DTL-38999 Series III connector
- Jam nut or square flange receptacle
- No risk of breaking contacts
- No risk of micro-cuts
- Allow direct grounding from PCB to the flange
- PC tails contacts without shoulder: #16, #20 and #22
- Resin sealed version, please consult us

Technical features

Mechanical

• Shell: Aluminum

• Shell plating:

. Cadmium olive drab (W)

. Nickel (F)

. Black zinc nickel (Z)

• Insulator: Thermoplastic

• Grommet and interfacial seal:

Silicone elastomer

• Contacts: Copper alloy

• Contacts plating: Gold over nickel plated

• Endurance: 500 mating cycles

• 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 ambiant T° Test with accessories in acc with EN2591-D3

• Contact retention:

Contacts size	22	20	16
Min force in N	44	67	111

Electrical

• Test voltage rating (Vrms)

Service	sea level	at 21000 m
M	1 300	800
N	1 000	600
- 1	1 800	1 000
II	2 300	1 000

Contact resistance

Contacts size	22	20	16
Resistance $m\Omega$	14.6	7.3	3.8

• Insulation resistance:

 \geq 5 000 M Ω (under 500 Vdc)

• Contact rating:

Contacts size	22	20	16
Rating (A)	5	7.5	13

• Shell continuity:

- Cadmium olive drab (W): 2.5 Ωh
- . Nickel (F): 1 Ωh
- . Black zinc nickel (Z): 2.5 Ωh

• Shielding:

- . F: 65 db at 10 GHz; 85 db at 1 GHz
- . W: 50 db at 10 GHz
- . Z: Consult us

Environmental

• Temperature range:

. W: -65°C +175°C

. F: -65°C +200°C

. Z: -65°C +200°C

Mated connectors meet altitude immersion requirements of MIL-DTL-38999.

• Salt spray:

- . W: 500 Hrs
- . F: 48 Hrs
- . Z: 500 Hrs

Resistance to fluids

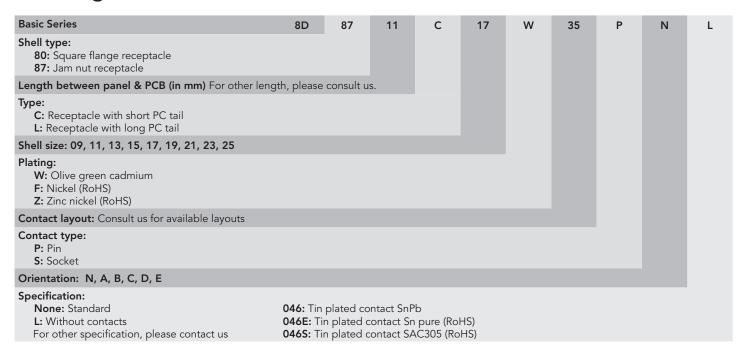
• According to MIL-DTL-38999 standard

- . Gasoline: JP5 (OTAN F44)
- . Mineral hydrolic fluid: MIL-H-5606 (OTAN H515)
- . Synthetic hydraulic fluid: Skydrol 500 B4

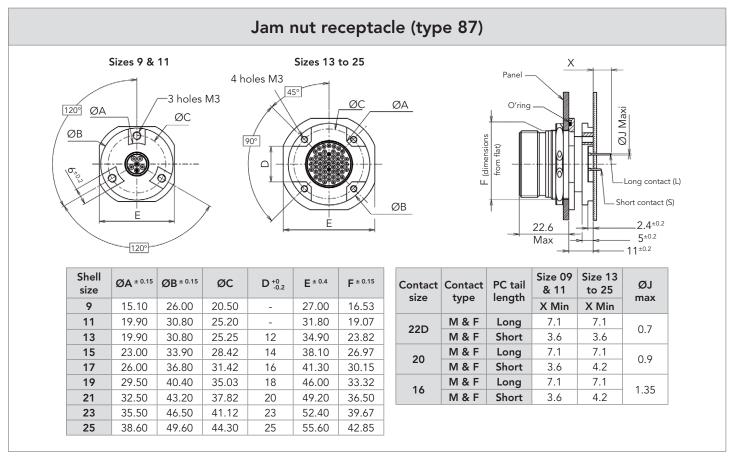
• LD4 (SAE AS 1241)

- . 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



Dimensions



Shell size	ØA ± 0.1	ØB ± 0.1	ØC ± 0.1	D ± 0.1	E ± 0.2	ØF ± 0.1	G ± 0.1
9	15.1	26	20.5	-	23.75	15.67	18.26
11	19.9	30.8	25.2	-	26.14	18.67	20.62
13	19.9	30.8	25.25	12	28.55	22.07	23.01
15	23	33.9	28.42	14	30.94	25.25	24.61
17	26	36.8	31.42	16	33.25	30	26.97
19	29.5	40.4	35.03	18	36.45	31.57	29.36
21	32.5	43.2	37.82	20	39.65	34.75	31.75
23	35.5	46.5	41.12	23	42.85	37.92	34.93
25	38.6	49.6	44.3	25	45.95	41.1	38.1

Contact	Contact type	PC tail	Size 09 & 11	Size 13 to 25	ØJ max	
3126	type	leligili	X Min	X Min	IIIdX	
	M F	Long	7.39	7.21		
22D		Short	4.39	4.21	0.70	
220		Long	7.12	6.94	0.70	
		Short	4.12	3.94		
	M F	Long	7.39	7.21	0.90	
20		Short	4.39	4.21		
20		Long	7.40	7.22		
		Short	4.40	4.22		
16	M F	Long	7.39	7.21		
		Short	4.39	4.21	1.35	
		Long	7.34	7.16		
		Short	7.34	4.16		

Note: All dimensions are in millimeters (mm)

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