

Resin Sealed Series



Description

- Potted receptacle with male or female straight spill contacts
- 100% scoop proof
- High density connectors
- Lower profile for compactness
- Weight saving compared to hermetic version
- Reinforced sealing for harsh environment
- Good shock resistance

Applications

- Avionics
- Missile warning systems
- To be used when enhanced sealing is needed in harsh environments
- To be used as an alternative to hermetic glass bead

Layouts

All 8LT, 8D, 8533, 8525 layouts can be manufactured with resin sealed (for power contact please consult us)

Ordering information

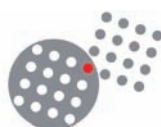
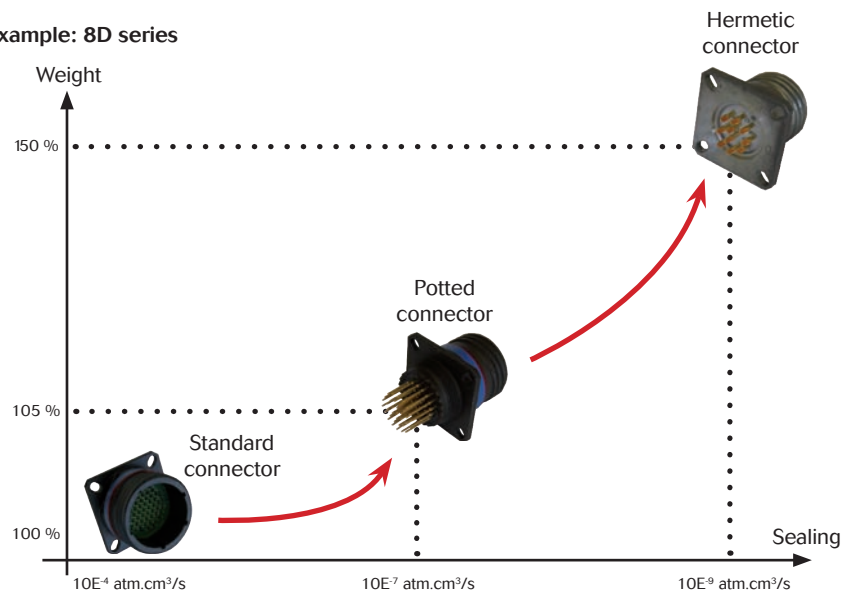
- After the basic series «8D» and «8LT», related to the digit «R» (8D+R... or 8LT+R...) Don't forget the digit related to the spill length (C, M, L, S)

- Specification suffix to be added:
8533: 167 (standard PN + 167)
8525: 172 (standard PN + 172)

- Examples:
8LT = 8LTR7 C 13 B 35 PN
8D (Alu) = 8DR0 C 13 W 35 PN
8533 = 8533 7 KS 1831 PN 167
8525 = 8525 1 H 18B32 PN H172

Comparison between standard, resin sealed and hermetic version:

Example: 8D series



SOURIAU
Connection Technology

Resin Sealed Series



Technical characteristics

Series	8LT	8D	8533	8525	
Mechanical	Standard	As per MIL DTL 38999	As per MIL DTL 38999	EN2997	EN3646
	Shell	Aluminium	Aluminium (W; F) Composite (J; X; M) Titanium (TT; TF) Stainless steel (K; S) Bronze (JVS)	W; R: aluminium K; E: stainless steel	Aluminium Stainless steel
	Shell plating	B: drab olive cadmium F: nickel	W; J: drab olive cadmium F; M; TF; S: nickel K: passivated JVS; TT; X: no plating	R: nickel W: drab olive cadmium K; E: passivated	R: black anodised N: nickel G: yellow cadmium
	Insulator	Thermoplastic	Thermoplastic	Thermoset	Thermoplastic
	Grommet & seal	Silicone elastomer	Silicone elastomer	Silicone elastomer	Silicone elastomer
	Contact	Copper alloy	Copper alloy	Copper alloy	Copper alloy
	Contact plating	Gold	Gold	Gold	Gold
	Endurance	500	Aluminium: 500 Composite: 1500*	250 to 500	250 to 500
	Shock	300g - 3ms	300g - 3ms	300g - 3ms	NFC93422 HE302
	Vibration	Sine: 10 to 2000 Hz-30g Random: 100 to 300 Hz-5g ² /Hz	Sine: 10 to 2000 Hz-30g, 3 x 12h Random: 50 to 2000 Hz, 2 x 8h	Random: 5 to 2000 Hz-5g ² /Hz	10 to 2000Hz acceleration 20G
Electrical	Test voltage (sea level)	1300 to 2300Vrms	1300 to 2300Vrms	1500Vrms	1500 to 2300Vrms
	Contact resistance	From 2 to 14.6mΩ	From 2 to 14.6mΩ	EN2997 NFL54143	Environmental: 0.35 to 1mΩ Hermetic: 2.4 to 7mΩ
	Insulation resistance	From 5 to 23A	≥ 5000mΩ at 500Vdc	≥ 5000mΩ at 500Vdc	≥ 5000mΩ at 500Vdc
	Shell continuity	B: 2.5mΩ F: 1mΩ	W; J: 2.5mΩ F; M: 1mΩ TT; TF: 11mΩ JVS: 5mΩ K: 1mΩ	5mΩ (RFI shielding) 60mΩ (no RFI shielding)	Environmental: ≤ 5mΩ
	Shielding	90db - 100MHz 50db - 10GHz	65db - 10GHz (F) 50db - 10GHz (W) 85db - 1GHz (F&W)	100MHz at 1GHz attenuation ≥ 65db	100MHz at 1GHz attenuation ≥ 65db
	Max current rating	N/A	N/A	From 5 to 23A	From 5 to 23A
Environmental	Temperature	-65° to +200°C	W; J; X: -65°C to +175°C F; TT; TF; M; K; S: -65°C to +200°C	W: -65°C to +175°C R; K: -65° to +200°C	G: -55°C to +175°C R; N: -55° to +200°C
	Salt spray	Aluminium B: 500h Aluminium F: 48h	F; TF: 48h W; JVS; TT; K; S: 500h X; J; M: 2000h	R: 48h W; K; E: 500h	48h
	Damp heat	Aluminium MIL: 10 x 24h Aluminium NFC: 56 days	MIL C: 10 x 24h	EN2997 NFL54143 10 x 24h	56 days
	Sealing	Mated connectors differential pressure 2 bars; leakage ≤ 16cm ³ /h	Sealing in altitude as per MIL DTL 38999	Differential pressure 1 bar; leakage ≤ 0.36mm ³ /h	Differential pressure 1 bar; leakage ≤ 2.8mm ³ /h
	Fire resistance	Composite: EN2591 C17	Yes	EN2997 NFL54143	Yes
Resistance to fluids	MIL C 38999 MIL L 7808 MIL L 23699 MIL H 5606 MIL A 8243 MIL A 8243 MIL C 25769 MIL T 5624 (JP5) Hydraulic fluids Solvents NFC 93422	MIL L 7808 MIL L 23699 MIL H 5606 MIL A 8243 MIL C 25769 MIL L 7870A JP5 Skydrol 500B4 Chlorobrometane Coolanol	MIL L 23699 MIL H 5606 MIL A 8243 MIL C 25769 MIL L 7870A MIL L 708 LD4; JP5 Skydrol 500B4	Fuel: Air 3405 Hydraulic: Oronite M2V Lubricant: Air 3517	

* with specific contacts

For further information, visit our web site www.souriau.com
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