

SUMMARY

Wires

Low voltage 5



Image is for illustrative purpose only

Series 1M
Termination type Male crimp
IP rating 68
AWG wire size 24.00 - 20.00
Cable Ø 4.85 - 9.70 mm
Status active
Matching parts [FMS.1M.305.XLM](#)

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TECHNICAL DETAILS

Mechanics

Shell Style/Model PB*: Fixed receptacle with antivibration flange, 2 holes fixing
Keying 3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts)
Housing Material Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass
Weight 9.45 g

Performance

Configuration 1M.305 : 5 Low Voltage
Insulator L: PEEK
Rated Current 9.0 Amps

Specifications

Contact Type: Crimp
Contact Retention: 30 N
Contact Dia.: 0.9 mm (0.035in)
Bucket Dia.: 1.1 mm (0.043in)
Min. Conductor: 0.25 mm² (AWG 24)
Max. Conductor: 0.5 mm² (AWG 20)
R (max): 4.8 mOhm
Test voltage (kV rms) Contact-contact: 1.3

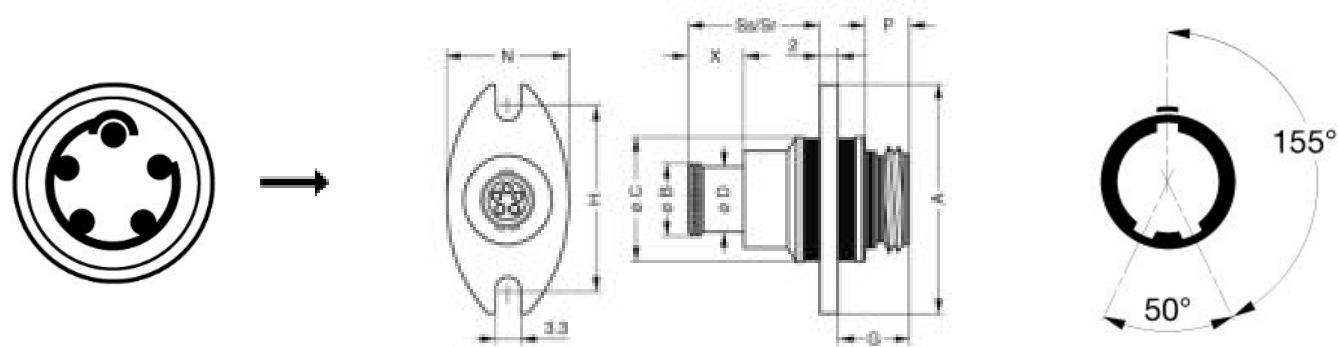
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Test voltage (kV rms) Contact-shell: 1.3

Others

- Endurance (Shell): 3000 mating cycles
- Temp (min / max): -20°C / +200°C
- Humidity (max): 21 days at 95%
- Gunfire vibration: 25 Hz - 2000 Hz, 3 axis (Apache helicopter)
- Vibration-Sine: 30 g, 3 axes, 12 hr [10 Hz - 2000 Hz]
- Vibration-Random: 37.8 g rms - 3 axes, 4 hr amb [50 Hz - 2000 Hz]
- Shock Resistance: 300 g [3 ms]
- Lighting strike EIA 364-75: 10K amps - 6 times
- Thermal shock: 5 cycles: -65°C to +150°C
- EMI Shielding EIA 364-66A: >= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz), >= 40 dB (10 GHz)
- Salt Spray Corrosion: max. 48 hr

DRAWINGS



Dimensions

	A	B	C	D	G	H	N	P	Sr	Ss	X
mm.	29	10.5	16.5	9.7	8.3	23.4	18	5.3	15.3	15.3	6.7
in.	1,14	0,41	0,65	0,38	0,33	0,92	0,71	0,21	0,60	0,60	0,26

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Tools

Crimp Tool:	DPC.91.701.V
Crimp settings:	AWG/Selector = 20-22-24/6-5-5
Positionner:	DCE.91.090.5MVC
Extractor:	DCF.93.090.4LT
Replacement contact:	FGN.0M.560.ZZC

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