

SUMMARY

Wires

Low voltage	5
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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 mm ² (AWG 24)
Max. Conductor:	0.5 mm ² (AWG 20)
R (max):	4.8 mOhm
Test voltage (kV rms)	Contact-contact: 1.3

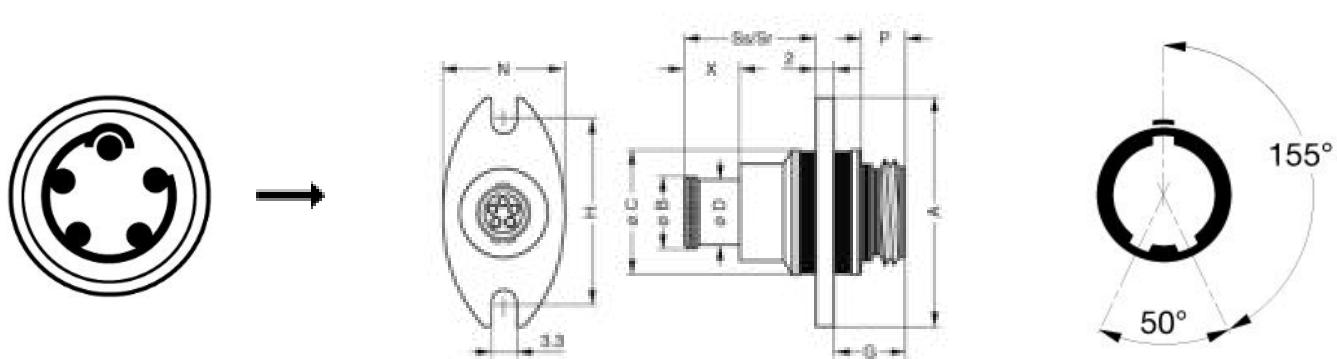
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Test voltage (kV rms) Contact-shell: 1.3

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

RECOMMENDED BY LEMO

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Tools

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

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