

SUMMARY

Wires

Low voltage 5

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 [PMN.1M.305.XLMT](#)



Image is for illustrative purpose only

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[See video assembly instructions](#)

TECHNICAL DETAILS

Mechanics

Shell Style/Model FM*: Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip and mold stop
Keying 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Housing Material Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass
Weight 6.98 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

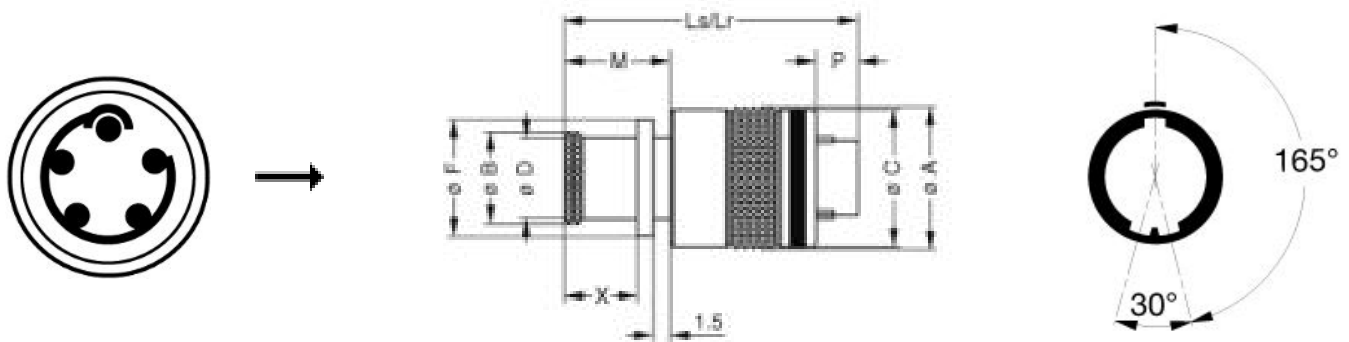
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Test voltage (kV rms) Contact-contact: 1.3
 Test voltage (kV rms) Contact-shell: 1.3

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	F	Lr	Ls	M	P	X
mm.	14.6	10.5	14.2	9.7	12.4	27.1	27.1	9.7	3.9	6.7
in.	0,57	0,41	0,56	0,38	0,49	1,07	1,07	0,38	0,15	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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