

## SUMMARY

### # Wires

Low voltage 7



Image is for illustrative purpose only

Series	1M
Termination type	Male crimp
IP rating	68
AWG wire size	26.00 - 22.00
Cable Ø	4.85 - 9.70 mm
Status	active
Matching parts	<a href="#">PMN.1M.307.XLMT</a>

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## 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	7.43 g

### Performance

Configuration	1M.307 : 7 Low Voltage
Insulator	L: PEEK
Rated Current	7.0 Amps

### Specifications

Contact Type: Crimp  
Contact Retention: 22 N  
Contact Dia.: 0.7 mm (0.028in)  
Bucket Dia.: 0.8 mm (0.031in)  
Min. Conductor: 0.14 mm<sup>2</sup> (AWG 26)  
Max. Conductor: 0.34 mm<sup>2</sup> (AWG 22)  
R (max): 6.1 mOhm

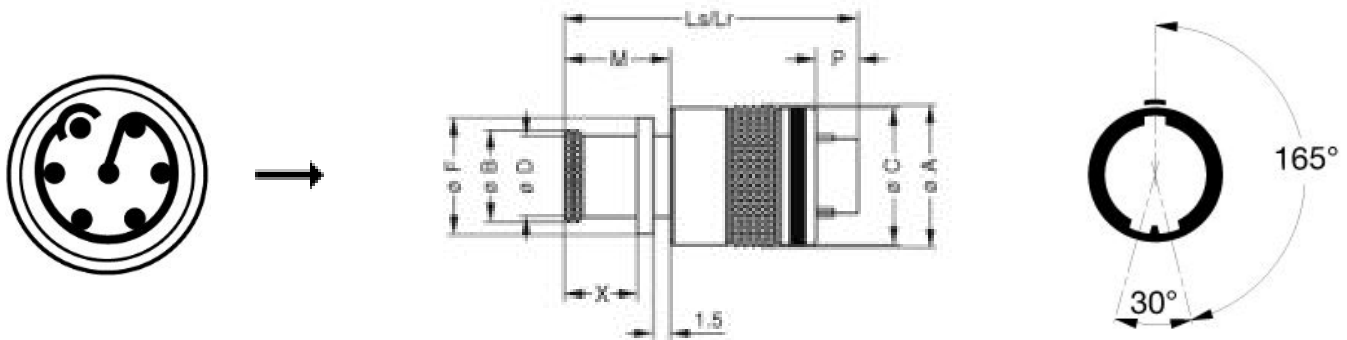
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Test voltage (kV rms) Contact-contact: 1.45  
 Test voltage (kV rms) Contact-shell: 1.2

## 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

## RECOMMENDED BY LEMO

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## Tools

Crimp Tool: [DPC.91.701.V](#)  
Crimp settings: AWG/Selector = 22-24-26/6-5-5  
Positionner: [DCE.91.070.5MVC](#)  
Extractor: [DCF.93.070.4LT](#)  
Replacement contact: FGN.0M.555.ZZC

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