

## SUMMARY

### # Wires

Low voltage 12

Series 2M  
Termination type Male crimp  
IP rating 68 mated (mating interface)  
AWG wire size 26.00 - 22.00  
Cable Ø 6.50 - 13.00 mm  
Status active  
Matching parts [PMN.2M.312.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 10.03 g

### Performance

Configuration 2M.312 : 12 Low Voltage  
Insulator L: PEEK  
Rated Current 7 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

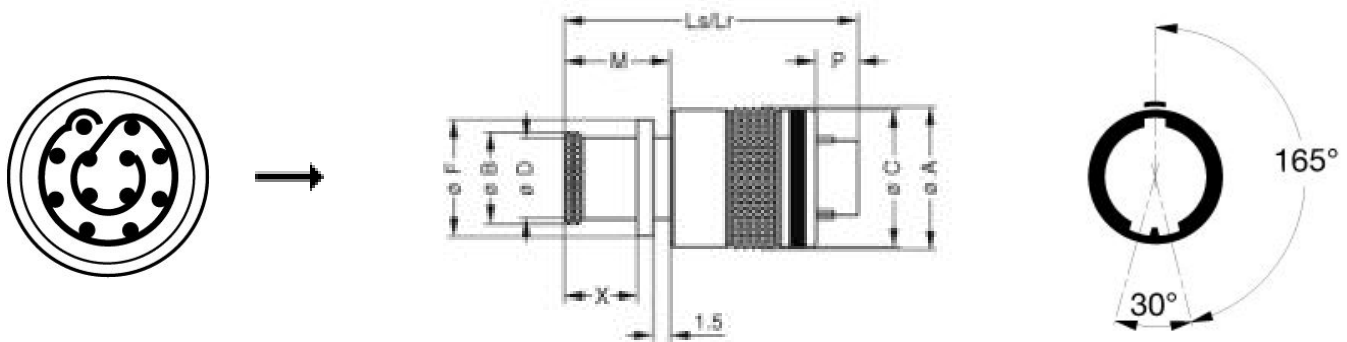
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Test voltage (kV rms) Contact-contact: 1.65  
 Test voltage (kV rms) Contact-shell: 1.15

## 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.	17.6	14	17.2	13	15.5	27.5	27.5	10.1	3.9	7.1
in.	0,69	0,55	0,68	0,51	0,61	1,08	1,08	0,40	0,15	0,28

## 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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