

## SUMMARY

### # Wires

Low voltage 5



Image is for illustrative purpose only

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

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## TECHNICAL DETAILS

### Mechanics

Shell Style/Model PM\*: Free receptacle 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 8.18 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<sup>2</sup> (AWG 24)  
Max. Conductor: 0.5 mm<sup>2</sup> (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]

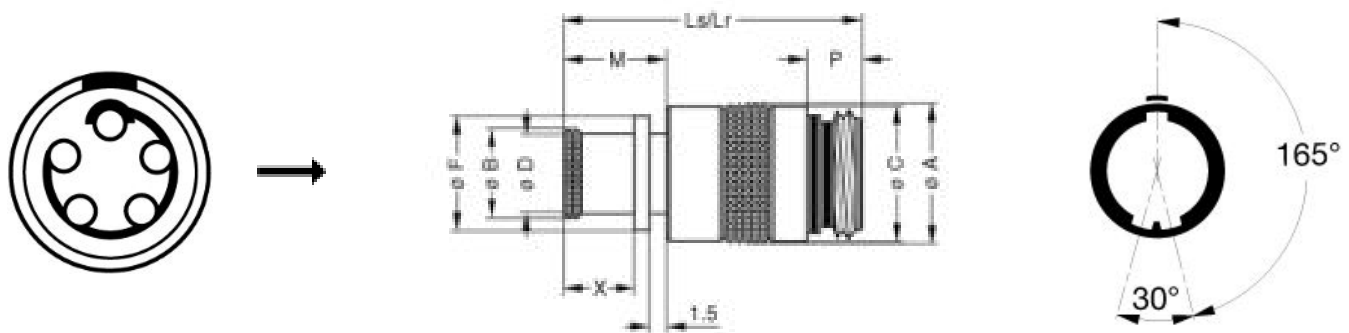
Lighting strike EIA 364-75: 10K amps - 6 times

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	F	Lr	Ls	M	P	X
mm.	14.6	10.5	14.2	9.7	12.4	28.6	28.6	9.7	5.3	6.7
in.	0,57	0,41	0,56	0,38	0,49	1,13	1,13	0,38	0,21	0,26

## RECOMMENDED BY LEMO

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## Tools

Crimp Tool:	<a href="#">DPC.91.701.V</a>
Crimp settings:	AWG/Selector = 20-22-24/6-5-5
Positionner:	<a href="#">DCE.91.090.3MVM</a>
Extractor:	<a href="#">DCF.93.090.4LT</a>
Replacement contact:	EGN.0M.660.ZZM

## Cables

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