

## SUMMARY

### # Wires

Low voltage 7

*Image is for illustrative purpose only*

Series 1M  
Termination type Female crimp  
IP rating 68 mated (mating interface)  
AWG wire size 26.00 - 22.00  
Cable Ø 4.85 - 9.70 mm  
Status active  
Matching parts [FMP.1M.307.XLC](#)

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## TECHNICAL DETAILS

### Mechanics

Shell Style/Model \*:   
Keying 3 keys (beta=150, gamma=60, 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 7.58 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  
Test voltage (kV rms) Contact-contact: 1.45

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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

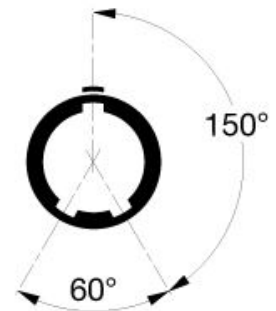
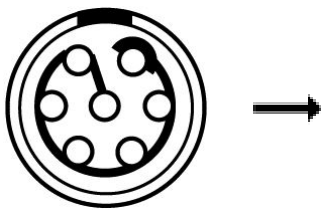
Thermal shock: 5 cycles: -65°C to +150°C

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

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## DRAWINGS



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## RECOMMENDED BY LEMO

### Tools

|                      |  |
|----------------------|--|
| Crimp Tool:          | <a href="#">DPC.91.701.V</a>                           |
| Crimp settings:      | AWG/Selector = 22-24-26/6-5-5                          |
| Positionner:         | <a href="#">DCE.91.070.3MVM</a>                        |
| Extractor:           | <a href="#">DCF.93.070.4LT</a>                         |
| Replacement contact: | EGN.0M.655.ZZM   |
| Spanner wrench:      | <a href="#">Socket for torque wrench DCM.65.160.AZ</a> |

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