

## SUMMARY

### # Wires

Low voltage 5



Image is for illustrative purpose only

|                  |                                 |
|------------------|---------------------------------|
| 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   | <a href="#">FMS.1M.305.XLMT</a> |

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## TECHNICAL DETAILS

### Mechanics

|                   |                                                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------------|
| Shell Style/Model | PM*: Free receptacle with knurled grip and mold stop                                                    |
| Keying            | 3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts)                           |
| Housing Material  | Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass |
| Weight            | 7.78 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]

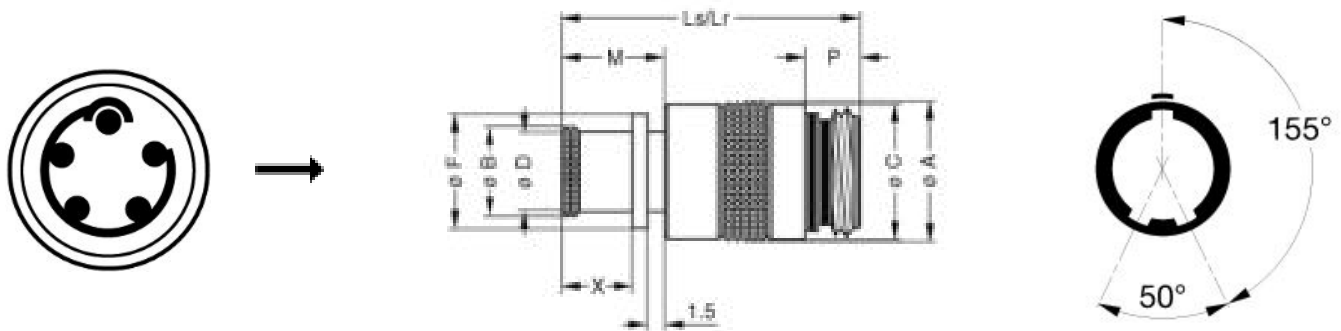
Lighting strike EIA 364-75: 10K amps - 6 times

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 |

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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.91.090.5MVC</a> |
| Extractor:           | <a href="#">DCF.93.090.4LT</a>  |
| Replacement contact: | FGN.0M.560.ZZC                  |

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