

## SUMMARY

### # Wires

Low voltage 5



Image is for illustrative purpose only

|                  |                                |
|------------------|--------------------------------|
| Series           | 1M                             |
| Termination type | Male crimp                     |
| IP rating        | 68 when mated                  |
| AWG wire size    | 24.00 - 20.00                  |
| Cable Ø          | 4.85 - 9.70 mm                 |
| Status           | active                         |
| Matching parts   | <a href="#">EGN.1M.305.XLM</a> |

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[See video assembly instructions](#)

## TECHNICAL DETAILS

### Mechanics

|                   |   |
|-------------------|---|
| Shell Style/Model | FG*: Straight plug with arctic grip and MIL spec backend  |
| 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            | 7.46 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]

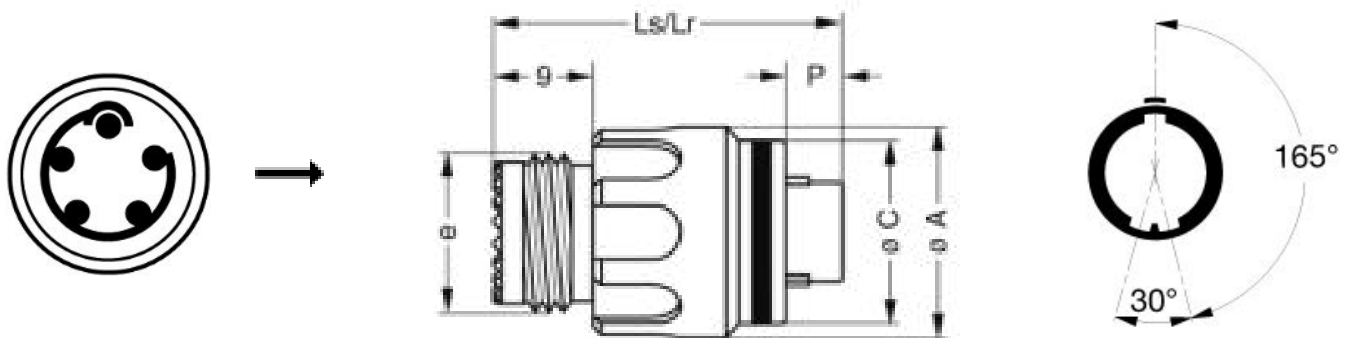
Lighting strike EIA 364-75: 10K amps - 6 times

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    | C    | Lr   | Ls   | P    | e       |
|-----|------|------|------|------|------|---------|
| mm. | 15.9 | 14.2 | 26.4 | 26.4 | 3.9  | M12x1.0 |
| in. | 0,63 | 0,56 | 1,04 | 1,04 | 0,15 |         |

## 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.91.090.5MVC</a> |
| Extractor:           | <a href="#">DCC.09.05B.LAG</a>  |
| Replacement contact: | FGN.0M.560.ZZC                  |

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