

## SUMMARY

### # Wires

Low voltage 19



*Image is for illustrative purpose only*

|                  |                                 |
|------------------|---------------------------------|
| Series           | 2M                              |
| Termination type | Female crimp                    |
| IP rating        | 68                              |
| AWG wire size    | 26.00 - 22.00                   |
| Cable Ø          | 6.50 - 13.00 mm                 |
| Status           | active                          |
| Matching parts   | <a href="#">FMN.2M.319.XLCM</a> |

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## TECHNICAL DETAILS

### Mechanics

|                   |                                                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------------|
| Shell Style/Model | PM*: Free receptacle with knurled grip and MIL-DTL-38999L                                               |
| 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            | 11.89 g                                                                                                 |

### Performance

|               |                         |
|---------------|-------------------------|
| Configuration | 2M.319 : 19 Low Voltage |
| Insulator     | L: PEEK                 |
| Rated Current | 4 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: 1.2

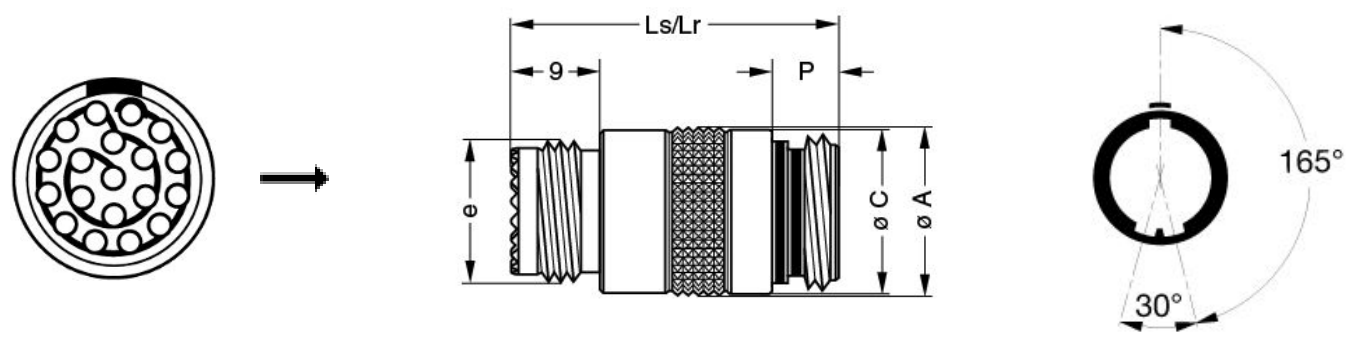
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Test voltage (kV rms) Contact-shell: 0.95

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. | 17.6 | 17.2 | 27.9 | 27.9 | 5.3  | M15x1.0 |
| in. | 0,69 | 0,68 | 1,10 | 1,10 | 0,21 |         |

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## 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                  |

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