

## SUMMARY

### # Wires

Low voltage 10



*Image is for illustrative purpose only*

Series 2M  
Termination type Female crimp  
IP rating 68  
AWG wire size 24.00 - 20.00  
Cable Ø 6.50 - 13.00 mm  
Status active  
Matching parts [FMN.2M.310.XLC](#)

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## TECHNICAL DETAILS

### Mechanics

Shell Style/Model EG\*: Fixed receptacle, nut fixing  
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 7.85 g

### Performance

Configuration 2M.310 : 10 Low Voltage  
Insulator L: PEEK  
Rated Current 8 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: 1.8

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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

DRAWINGS



Dimensions

|     | C    | D    | E    | Ls   | Ls   | P    | S1   | S2   | e       |
|-----|------|------|------|------|------|------|------|------|---------|
| mm. | 17.2 | 6.8  | 4.5  | 18.3 | 18.3 | 5.3  | 12.5 | 17   | M14x1.0 |
| in. | 0,68 | 0,27 | 0,18 | 0,72 | 0,72 | 0,21 | 0,49 | 0,67 |         |

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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                  |

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