

SUMMARY

Wires

Low voltage 10

Series 2M
Termination type Male crimp
IP rating 68 when mated
AWG wire size 24.00 - 20.00
Cable Ø 6.50 - 13.00 mm
Status active
Matching parts [ECN.2M.310.XRM8](#)



Image is for illustrative purpose only

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TECHNICAL DETAILS

Mechanics

Shell Style/Model FG*: Straight plug with arctic grip
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 10.14 g

Performance

Configuration 2M.310_8 : 8 (0.7 mm) + 2 (1.3 mm) Low Voltage
Insulator R: PEEK (mixed multipole)
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 mm² (AWG 24)
Max. Conductor: 0.5 mm² (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]

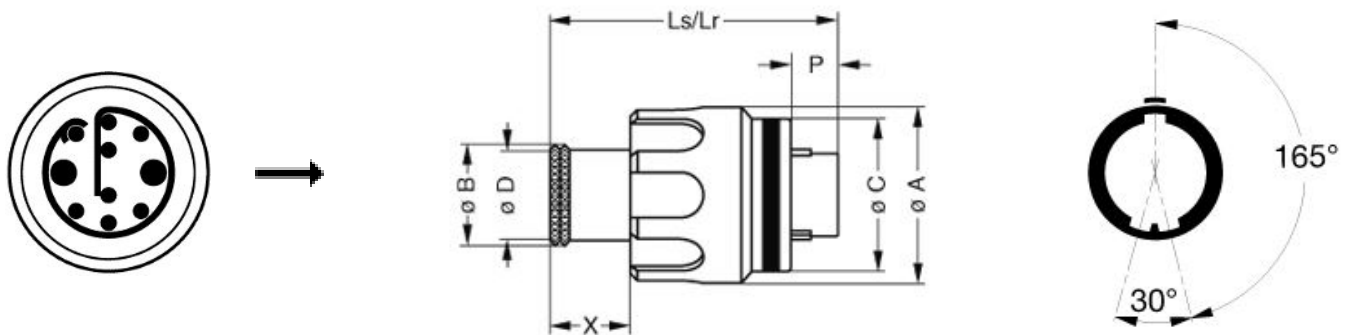
Lighting strike EIA 364-75: 10K amps - 6 times

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

| | A | B | C | D | Lr | Ls | P | X |
|-----|------|------|------|------|------|------|------|------|
| mm. | 18.9 | 14 | 17.2 | 13 | 24.5 | 24.5 | 3.9 | 7.1 |
| in. | 0,74 | 0,55 | 0,68 | 0,51 | 0,96 | 0,96 | 0,15 | 0,28 |

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Tools

| | |
|----------------------|--|
| Crimp Tool: | DPC.91.701.V |
| Crimp settings: | AWG/Selector = 22-24-26 16-18-20/6-5-5 8-7-7 |
| Positionner: | DCE.91.070.5MVC |
| Positionner 2: | DCE.91.130.5MVC |
| Extractor: | DCF.93.131.4LT |
| Extractor 2: | DCF.93.070.4LT |
| Replacement contact: | FGN.0M.555.ZZC / FGN.0M.565.ZZC |

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