

SUMMARY

Wires

Low voltage 12

Series 2M
Termination type Female crimp
IP rating 68 when mated
AWG wire size 26.00 - 22.00
Cable Ø 6.50 - 13.00 mm
Status active
Matching parts [FMP.2M.312.XLCT](#)



Image is for illustrative purpose only

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TECHNICAL DETAILS

Mechanics

Shell Style/Model PE*: Fixed receptacle, nut fixing and mold stop
Keying 3 keys (beta=150, gamma=60, 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 13.23 g

Performance

Configuration 2M.312 : 12 Low Voltage
Insulator L: PEEK
Rated Current 7 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 mm² (AWG 26)
Max. Conductor: 0.34 mm² (AWG 22)
R (max): 6.1 mOhm
Test voltage (kV rms) Contact-contact: 1.65

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Test voltage (kV rms) Contact-shell: 1.15

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]

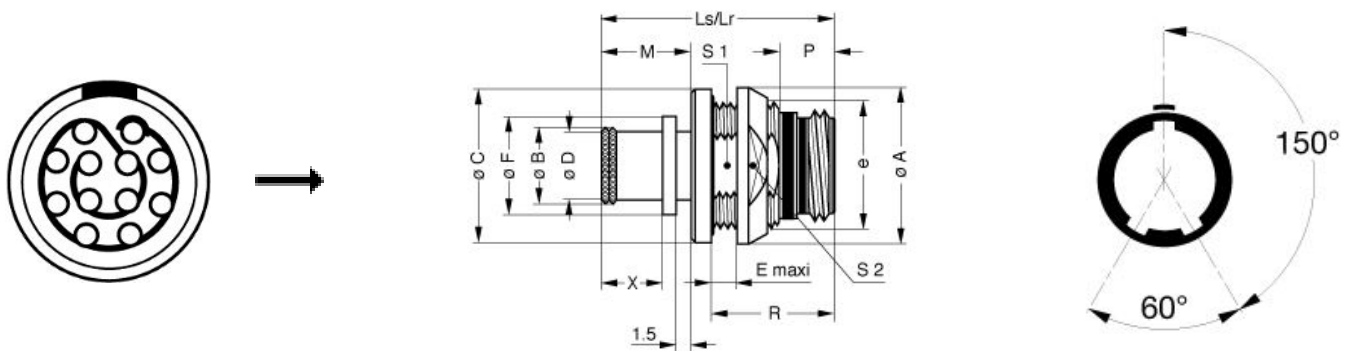
Lighting strike EIA 364-75: 10K amps - 6 times

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 | E | Lr | Ls | M | P | R | S1 | S2 | e |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| mm. | 21 | 14 | 20.8 | 13 | 5 | 26 | 26 | 10.1 | 5.3 | 13.8 | 15.5 | 18 | M17x1.00 |
| in. | 0,83 | 0,55 | 0,82 | 0,51 | 0,20 | 1,02 | 1,02 | 0,40 | 0,21 | 0,54 | 0,61 | 0,71 | |

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Tools

| | |
|----------------------|--------------------------------------------------------|
| Crimp Tool: | DPC.91.701.V |
| Crimp settings: | AWG/Selector = 22-24-26/6-5-5 |
| Positionner: | DCE.91.070.3MVM |
| Extractor: | DCF.93.070.4LT |
| Replacement contact: | EGN.0M.655.ZZM |
| Spanner wrench: | Socket for torque wrench DCM.65.180.AZ |

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