

SUMMARY

Wires

Low voltage 7

Image is for illustrative purpose only

| | |
|------------------|--------------------------------|
| Series | 1M |
| Termination type | Female crimp |
| IP rating | 68 mated (mating interface) |
| AWG wire size | 26.00 - 22.00 |
| Cable Ø | 4.85 - 9.70 mm |
| Status | active |
| Matching parts | FMN.1M.307.XLC |

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TECHNICAL DETAILS

Mechanics

| | |
|-------------------|---|
| Shell Style/Model | *: |
| 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 | 7.09 g |

Performance

| | |
|---------------|------------------------|
| Configuration | 1M.307 : 7 Low Voltage |
| Insulator | L: PEEK |
| Rated Current | 7.0 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: 1.45

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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]

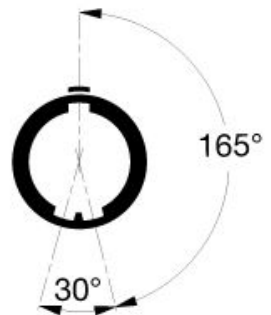
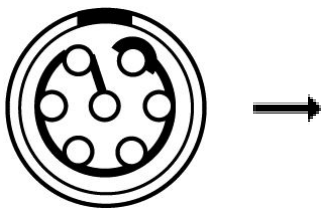
Lighting strike EIA 364-75: 10K amps - 6 times

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



RECOMMENDED BY LEMO

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.65.160.AZ |

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