

SUMMARY

Wires

Low voltage 7

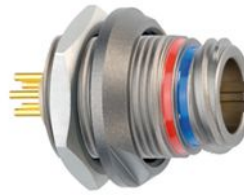


Image is for illustrative purpose only

| | |
|------------------|--------------------------------|
| Series | 1M |
| Termination type | Female print PCB |
| IP rating | 50 |
| AWG wire size | 30.00 - 22.00 |
| Cable Ø | 0.00 - 0.00 mm |
| Status | active |
| Matching parts | FMN.1M.307.XLC |

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TECHNICAL DETAILS

Mechanics

| | |
|-------------------|---------------------------------------------------------------------------------------------------------|
| Shell Style/Model | EC*: Fixed receptacle with two nuts, for printed circuit |
| 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 | 11.22 g |

Performance

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

Specifications

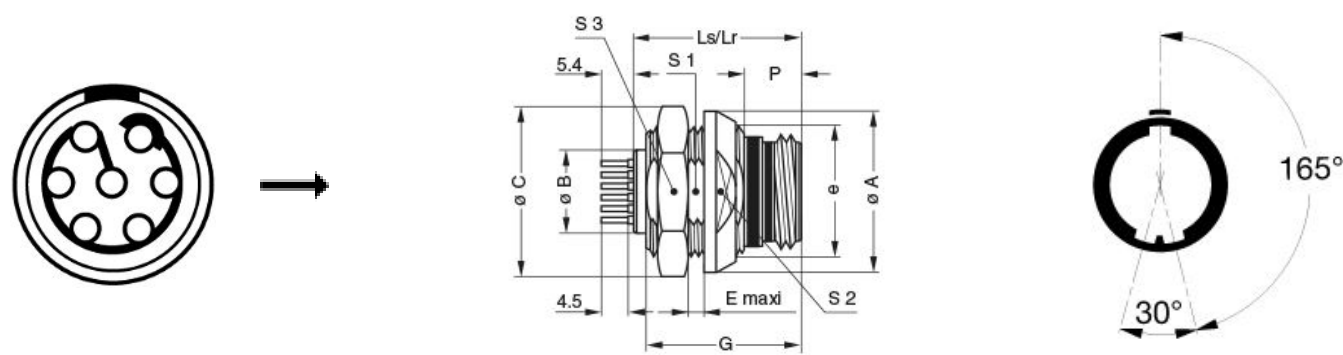
Contact Type: Print (straight)
Contact Dia.: 0.7 mm (0.028in)
R (max): 6.1 mOhm
Test voltage (kV rms) Contact-contact: 1.45
Test voltage (kV rms) Contact-shell: 1.2

Others

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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 | E | G | Lr | Ls | P | S1 | S2 | S3 | e |
|-----|------|------|------|------|------|------|------|------|------|------|------|----------|
| mm. | 18 | 5.95 | 19.2 | 5 | 16.8 | 18.3 | 18.3 | 5.3 | 12.5 | 16 | 17 | M14x1.00 |
| in. | 0,71 | 0,23 | 0,76 | 0,20 | 0,66 | 0,72 | 0,72 | 0,21 | 0,49 | 0,63 | 0,67 | |

RECOMMENDED BY LEMO

Tools

Spanner wrench: [DCM.65.000.4PA](#)

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