

SUMMARY

Wires

Low voltage 8



Image is for illustrative purpose only

| | |
|------------------|---------------------------------|
| Series | 1M |
| Termination type | Female crimp |
| IP rating | 68 |
| AWG wire size | 26.00 - 22.00 |
| Cable Ø | 4.85 - 9.70 mm |
| Status | active |
| Matching parts | FMN.1M.308.XLCM |

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TECHNICAL DETAILS

Mechanics

| | |
|-------------------|---|
| Shell Style/Model | PE*: Fixed receptacle, nut fixing with MIL-DTL38999L shell thread |
| 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 | 8.89 g |

Performance

| | |
|---------------|------------------------|
| Configuration | 1M.308 : 8 Low Voltage |
| Insulator | L: PEEK |
| Rated Current | 5.0 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 mm ² (AWG 26) |
| Max. Conductor: | 0.34 mm ² (AWG 22) |
| R (max): | 6.1 mOhm |
| Test voltage (kV rms) Contact-contact: | 1.3 |

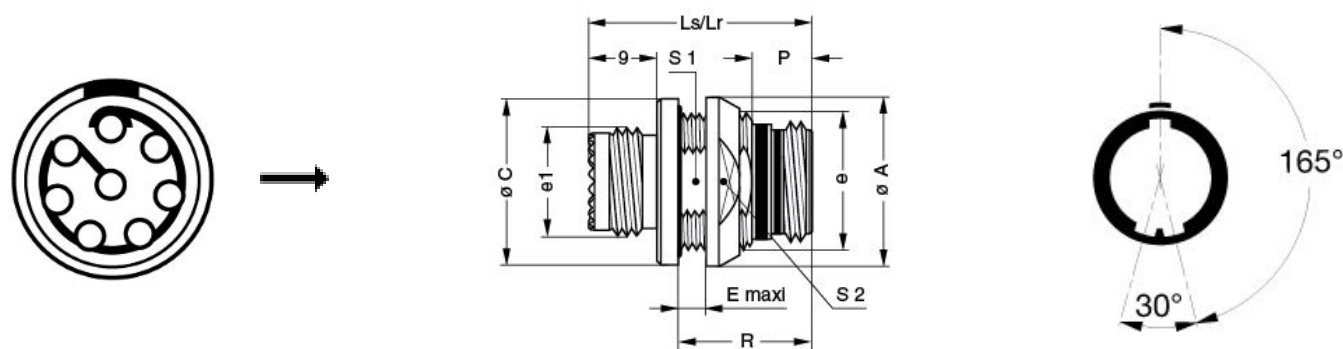
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Test voltage (kV rms) Contact-shell: 1.1

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 | C | E | Lr | Ls | R | S1 | S2 | e | e1 |
|-----|------|------|------|------|------|------|------|------|---------|---------|
| mm. | 18 | 17.8 | 5 | 26.4 | 26.4 | 13.8 | 12.5 | 16 | M14x1.0 | M12x1.0 |
| in. | 0,71 | 0,70 | 0,20 | 1,04 | 1,04 | 0,54 | 0,49 | 0,63 | | |

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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: | DCM.65.000.4PA |

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