FMN.1M.307.XLCM





Summary

| Red | uest | a q | uote |
|-----|------|-----|------|
| | | | |

Catalog

See video assembly instructions

| Low Voltage | 7 |
|------------------------------------|-----------------------------|
| Wire Size/AWG | 26 - 22 |
| Gender | Standard |
| Plug | Plug - Straight |
| Locking system | Ratchet |
| Jacket cable outside diameter [mm] | 4.85 - 9.70 mm |
| Size | 1M |
| Matching parts | EGN.1M.307.XLM |
| Series | M - Rugged Ratchet coupling |

Technical details

Electrical Configuration

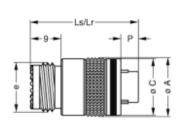
| Contact Termination Low voltage | Crimp | | |
|---------------------------------------|---|--|--|
| R (max) | 6.1 mOhm | | |
| Insert configuration value | 1M.307 - 7 Low Voltage | | |
| Insulator | L: PEEK | | |
| Rated current | 7 Amps | | |
| Test voltage (kV rms) Contact-contact | 1.45 | | |
| Test voltage (kV rms) Contact-shell | 1.2 | | |
| Contact retention | 22 N | | |
| Contact Type | Crimp | | |
| Max. Conductor | 0.34 mm^2 (AWG 22) | | |
| Min. Conductor | 0.14 mm^2 (AWG 26) | | |
| Bucket Dia. | 0.8 mm (0.031in) | | |
| Contact Dia. | 0.7 mm (0.028in) | | |
| Low Voltage | 7 | | |
| Wire Size/AWG | 26 - 22 | | |
| Gender | Standard | | |
| Form & Material | | | |
| Shell style / Model id | FM - Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip and MIL-DTL-38999L shell thread | | |
| Plug | Straight | | |
| Housing material | Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass | | |
| Locking system | Ratchet | | |
| Keying | 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts) | | |
| Weight | 7.25 g | | |

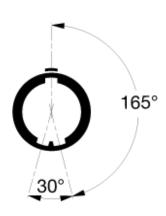
Environment

| Technical domain | Motorsport, Security and Defence, Transportation, Aerospace and UAV | | |
|--------------------------------------|--|--|--|
| Environmental protection (IP rating) | IP68 | | |
| Minimal temperature | -20°C / +200°C | | |
| EMI Shielding EIA 364-66A | >= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz) >= 40 dB (10 GHz) | | |
| Gunfire vibration | 25 Hz - 2000 Hz, 3 axis (Apache helicopter) | | |
| Humidity (max) | 21 days at 95% | | |
| Lighting strike EIA 364-76 | 10K amps - 6 times | | |
| Shock Resistance | 300 g [3 ms] | | |
| Thermal shock | 5 cycles: -65°C to +150°C | | |
| Vibration-Random | 37.8 g rms - 3 axes, 4 hr amb [50 Hz - 2000 Hz] | | |
| Vibration-Sine | 30 g, 3 axes, 12 hr [10 Hz - 2000 Hz] | | |
| Salt Spray Corrosion | max. 48 hr | | |
| Cable fixation | | | |
| Cable termination protection | For backshell MIL-DTL-38999M | | |
| Fixation type | MIL-DTL-38999M | | |
| Jacket cable outside diameter [mm] | 4.85 - 9.70 mm | | |

Drawings







Dimensions

| | Α | С | е | Ls | Lr | Р |
|-----|------|------|---------|------|------|------|
| mm. | 14.6 | 14.2 | M12x1.0 | 26.4 | 26.4 | 3.9 |
| in. | 0.57 | 0.56 | | 1.04 | 1.04 | 0.15 |

$\underline{https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-1m-307-xlcm.html}$

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