FMN.1M.307.XLCT





Summary

Request a quote

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 | PMN.1M.307.XLMT | | | | |
| Series | M - Rugged Ratchet coupling | | | | |

Technical details

Electrical Configuration

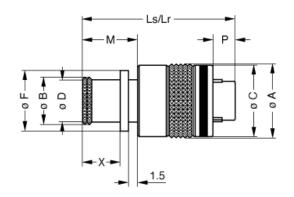
| • | | | | | |
|---------------------------------------|---|--|--|--|--|
| Contact Termination Low voltage | Crimp | | | | |
| R (max) | 6.1 mOhm | | | | |
| Insert configuration value | 1M.307 - 7 Low Voltage | | | | |
| Insulator | L: PEEK | | | | |
| Rated current | 7 Amps | | | | |
| Test voltage (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 mold stop | | | | |
| 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 | 7.43 g | | | | |

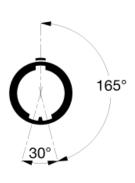
Environment

| 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 overmolding | | | | | |
| Fixation type | T type cable adapter | | | | | |
| Jacket cable outside diameter [mm] | 4.85 - 9.70 mm | | | | | |

Drawings







Dimensions

| | A | В | C | D | F | Ls | Lr | M | P | X |
|-----|------|------|------|------|------|------|------|------|------|------|
| mm. | 14.6 | 10.5 | 14.2 | 9.7 | 12.4 | 27.1 | 27.1 | 9.7 | 3.9 | 6.7 |
| in. | 0.57 | 0.41 | 0.56 | 0.38 | 0.49 | 1.07 | 1.07 | 0.38 | 0.15 | 0.26 |

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

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