FMN.1M.303.XLC





Summary

Request a quote

Catalog

See video assembly instructions

| Low Voltage | 3 |
|------------------------------------|-----------------------------|
| Wire Size/AWG | 20 - 16 |
| Gender | Standard |
| Plug | Plug - Straight |
| Locking system | Ratchet |
| Jacket cable outside diameter [mm] | 4.85 - 9.70 mm |
| Size | 1M |
| Matching parts | PMN.1M.303.XLM |
| Series | M - Rugged Ratchet coupling |

Technical details

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-1m-303-xlc.html

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Electrical Configuration

| Contact Termination Low voltage | Crimp |
|---------------------------------|---|
| R (max) | 3.6 mOhm |
| Insert configuration value | 1M.303 - 3 Low Voltage |
| Insulator | L: PEEK |
| Rated current | 15.5 Amps |
| Contact retention | 40 N |
| Contact Type | Crimp |
| Max. Conductor | 1 mm^2 (AWG 18) |
| Min. Conductor | 0.5 mm^2 (AWG 20) |
| Bucket Dia. | 1.4 mm (0.055in) |
| Contact Dia. | 1.3 mm (0.051in) |
| Low Voltage | 3 |
| Wire Size/AWG | 20 - 16 |
| 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 |
| 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 | 6.54 g |
| | |

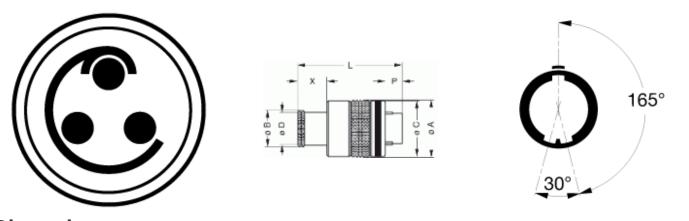
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Environment

| 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 | Heatshrink | | | |
| Fixation type | Cable collet | | | |
| Jacket cable outside diameter [mm] | 4.85 - 9.70 mm | | | |

Drawings



Dimensions

| | Α | В | С | D | Ls | Lr | Ρ | X |
|-----|------|------|------|------|------|------|------|------|
| mm. | 14.6 | 10.5 | 14.2 | 9.7 | 24.1 | 24.1 | 3.9 | 6.7 |
| in. | 0.57 | 0.41 | 0.56 | 0.38 | 0.95 | 0.95 | 0.15 | 0.26 |

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Recommended By Lemo

Accessories

| Replacement contact | FGN.0M.565.ZZC |
|---------------------|-----------------|
| Tools | |
| Positionner | DCE.91.130.5MVC |
| Extraction tool | DCF.93.131.4LT |

Cables

| Cable PartNumber | Material | Colour | Cable image |
|--------------------|---------------|--------|-------------|
| CMN.03.T18.055PGZE | | grey | |
| CMN.03.T18.055PNZE | | | |
| CMN.03.T18.055QGZE | TPR (medical) | Grey | |
| CMN.03.T20.049PGZE | | grey | |
| CMN.03.T20.049PNZE | | | |
| 230500 | PVC | Grey | |
| 230750 | PVC | Grey | |
| 3220 | PVC | Black | |
| 330150 | PVC | Grey | |

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