FMN.3M.330.XLCM





Summary

Request a quote

Catalog

See video assembly instructions

| Number of contacts | 30 | | |
|------------------------------------|-----------------------------|--|--|
| Wire Size/AWG | 26 - 22 | | |
| Gender | Standard | | |
| Plug | Plug - Straight | | |
| Locking system | Ratchet | | |
| Jacket cable outside diameter [mm] | 7.50 - 15.00 mm | | |
| Size | 3M | | |
| Matching parts | PEN.3M.330.XLMM | | |
| Series | M - Rugged Ratchet coupling | | |

Technical details

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-3m-330-xlcm.html

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Electrical Configuration

| Contact Termination Low voltage | Crimp |
|---------------------------------------|---|
| R (max) | 6.1 mOhm |
| Insert configuration value | 3M.330 - 30 Low Voltage |
| Insulator | L: PEEK |
| Rated current | 3.5 Amps |
| Test voltage (kV rms) Contact-contact | 1.10 |
| Test voltage (kV rms) Contact-shell | 1.00 |
| 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) |
| Number of contacts | 30 |
| 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 | 15.52 g |
| | |

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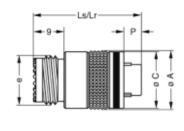
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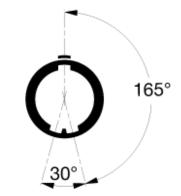
Environment

| 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 | For backshell MIL-DTL-38999M | | | |
| Fixation type | MIL-DTL-38999M | | | |
| Jacket cable outside diameter [mm] | 7.50 - 15.00 mm | | | |

Drawings







Dimensions

| | Α | С | е | Ls | Lr | Ρ |
|-----|------|------|---------|------|------|------|
| mm. | 19.6 | 19.2 | M18x1.0 | 26.4 | 26.4 | 3.9 |
| in. | 0.77 | 0.76 | | 1.04 | 1.04 | 0.15 |

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