



Summary

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[See video assembly instructions](#)

| | |
|------------------------------------|---------------------------------|
| Low Voltage | 3 |
| Wire Size/AWG | 24 - 20 |
| Gender | Standard |
| Plug | Plug - Straight |
| Locking system | Ratchet |
| Jacket cable outside diameter [mm] | 4.00 - 8.00 mm |
| Size | 0M |
| Matching parts | PMN.0M.303.XLMT |
| Series | M - Rugged Ratchet coupling |

Technical details

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-0m-303-xlct.html

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Electrical Configuration

| | |
|---------------------------------------|-------------------------------|
| Contact Termination Low voltage | Crimp |
| R (max) | 4.8 mOhm |
| Insert configuration value | 0M.303 - 3 Low Voltage |
| Insulator | L: PEEK |
| Rated current | 8 Amps |
| Test voltage (kV rms) Contact-contact | 1.70 |
| Test voltage (kV rms) Contact-shell | 1.4 |
| Contact retention | 30 N |
| Contact Type | Crimp |
| Max. Conductor | 0.5 mm ² (AWG 20) |
| Min. Conductor | 0.25 mm ² (AWG 24) |
| Bucket Dia. | 1.1 mm (0.043in) |
| Contact Dia. | 0.9 mm (0.035in) |
| Low Voltage | 3 |
| Wire Size/AWG | 24 - 20 |
| 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 | 6.34 g |

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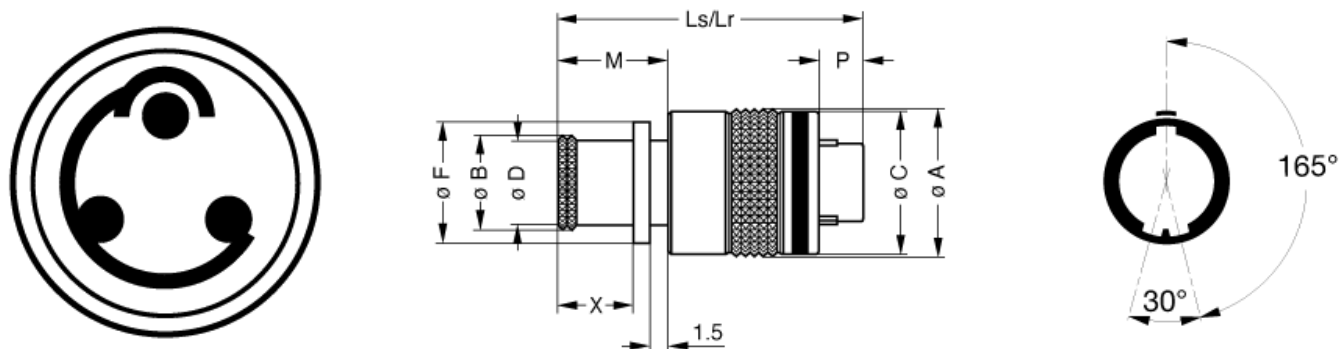
Environment

| | |
|--------------------------------------|--|
| 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 | For overmolding |
| Fixation type | T type cable adapter |
| Jacket cable outside diameter [mm] | 4.00 - 8.00 mm |

Drawings



Dimensions

| | A | B | C | D | F | Ls | Lr | M | P | X |
|-----|------|------|------|------|------|------|------|------|------|------|
| mm. | 13.1 | 8.8 | 12.7 | 8 | 10.7 | 27.1 | 27.1 | 9.7 | 3.9 | 6.7 |
| in. | 0.52 | 0.35 | 0.5 | 0.31 | 0.42 | 1.07 | 1.07 | 0.38 | 0.15 | 0.26 |

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