



Image for illustrative purpose only

Summary

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| | |
|------------------------------------|--------------------------------|
| Number of contacts Low Voltage | 10 |
| Wire Size/AWG | 24 - 20 |
| Gender | Standard |
| Socket / Receptacle | Socket / Receptacle - Free |
| Locking system | Ratchet |
| Jacket cable outside diameter [mm] | 6.50 - 13.00 mm |
| Size | 2M |
| Suggested matching part | FMN.2M.310.XLC |
| Series | M - Rugged Ratchet coupling |

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pm-n-2m-310-xlm.html

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Technical details

Electrical Configuration

| | |
|---------------------------------------|-------------------------------|
| Number of contacts Low Voltage | 10 |
| Contact Termination Low voltage | Crimp |
| R (max) | 4.8 mOhm |
| Insert configuration value | 2M.310 - 10 Low Voltage |
| Insulator | L: PEEK |
| Rated current | 8 A |
| Test voltage (kV rms) Contact-contact | 1.8 |
| Test voltage (kV rms) Contact-shell | 1.2 |
| Contact retention | 30 N |
| 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) |
| Wire Size/AWG | 24 - 20 |
| Gender | Standard |

Form & Material

| | |
|------------------------|---|
| Shell style / Model id | PM - Free receptacle with knurled grip |
| Socket / Receptacle | Free |
| Housing material | Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass |
| Locking system | Ratchet |
| Keying | N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts) |
| Colour | Grey |
| Weight | 11.68 g |

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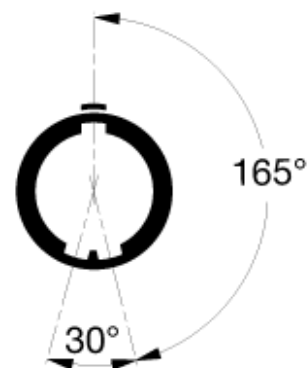
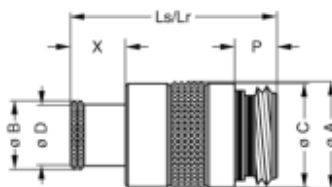
Environment

| | |
|-----------------------------------|---|
| Technical domain | Motorsport, Security and Defence, Transportation, Aerospace and UAV |
| Environmental sealing (IP rating) | IP68 |
| Endurance | 3000 mating cycles |
| Temperature range | -20°C / +200°C (max. temperature valid for short periods of use.) |
| 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 | Heatshrink |
| Jacket cable outside diameter [mm] | 6.50 - 13.00 mm |

Drawings



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Dimensions

| | A | B | C | D | Ls | Lr | P | X |
|-----|------|------|------|------|------|------|------|------|
| mm. | 17.6 | 14 | 17.2 | 13 | 26 | 26 | 5.3 | 7.1 |
| in. | 0.69 | 0.55 | 0.68 | 0.51 | 1.02 | 1.02 | 0.21 | 0.28 |

Recommended By Lemo

| Accessories | |
|---------------------|---------------------------------|
| Replacement contact | EGN.0M.660.ZZM |
| Compatible cap | BMF.2M.200.XAZ |
| Tools | |
| Positionner | DCE.91.090.3MVM |
| Extraction tool | DCC.09.05B.LAG |
| Crimp tool | DPC.91.701.V |