



Summary

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| | |
|--------------------------------|---|
| Number of contacts Low Voltage | 12 |
| Gender | Standard |
| Socket / Receptacle | Socket / Receptacle - Fixed Panel Front Mounted |
| Locking system | Ratchet |
| Size | 2M |
| Suggested matching part | FMU.2M.312.XLC |
| Series | M - Rugged Ratchet coupling |

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/edu-2m-312-xln.html

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Technical details

Electrical Configuration

| | |
|---------------------------------------|-------------------------|
| Contact Termination Low voltage | PCB - Straight |
| R (max) | 6.1 mOhm |
| Insert configuration value | 2M.312 - 12 Low Voltage |
| Insulator | L: PEEK |
| Rated current | 7 A |
| Test voltage (kV rms) Contact-contact | 1.65 |
| Test voltage (kV rms) Contact-shell | 1.15 |
| Contact Type | Print (straight) |
| Contact Dia. | 0.7 mm (0.028in) |
| Number of contacts Low Voltage | 12 |
| Gender | Standard |

Form & Material

| | |
|------------------------|---|
| Shell style / Model id | ED - Fixed receptacle with square flange for printed circuit |
| Socket / Receptacle | Fixed Panel Front Mounted |
| 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=130, gamma=100, plug: male contacts, receptacle: female contacts) |
| Weight | 11.63 g |

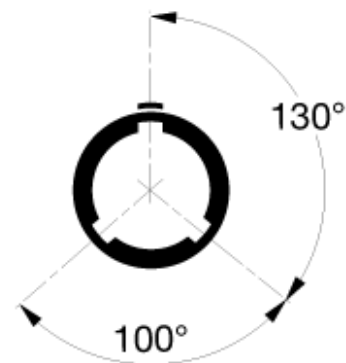
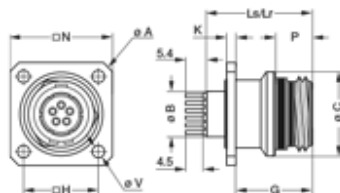
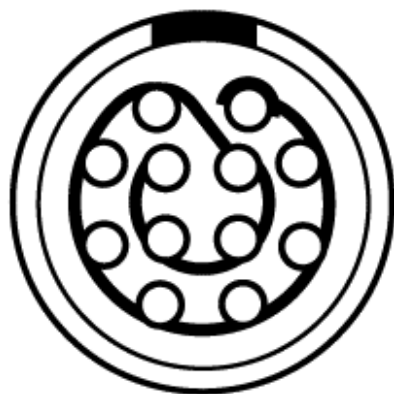
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Environment

| | |
|-----------------------------------|--|
| 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 |
| 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 |

Drawings



Dimensions

| | A | B | C | G | H | K | Ls | Lr | N | P | SV |
|-----|------|------|------|------|------|------|------|------|------|------|------|
| mm. | 26.9 | 8.95 | 17.2 | 12.8 | 15.1 | 1.5 | 18.3 | 18.3 | 20.6 | 5.3 | 3.3 |
| in. | 1.06 | 0.35 | 0.68 | 0.5 | 0.59 | 0.06 | 0.72 | 0.72 | 0.81 | 0.21 | 0.13 |

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