



Summary

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| | |
|--------------------------------|--|
| Number of contacts Low Voltage | 19 |
| Gender | Standard |
| Socket / Receptacle | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system | Ratchet |
| Size | 2M |
| Matching parts | FMU.2M.319.XLC |
| Series | M - Rugged Ratchet coupling |

Technical details

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/heu-2m-319-xlnp.html

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Electrical Configuration

| | |
|---------------------------------------|-------------------------|
| Contact Termination Low voltage | PCB - Straight |
| R (max) | 6.1 mOhm |
| Insert configuration value | 2M.319 - 19 Low Voltage |
| Insulator | L: PEEK |
| Rated current | 4 Amps |
| Test voltage (kV rms) Contact-contact | 1.20 |
| Test voltage (kV rms) Contact-shell | 1.00 |
| Contact Type | Print (straight) |
| Contact Dia. | 0.7 mm (0.028in) |
| Number of contacts Low Voltage | 19 |
| Gender | Standard |

Form & Material

| | |
|------------------------|---|
| Shell style / Model id | HE - Fixed receptacle, nut fixing for printed circuit, watertight |
| Socket / Receptacle | Fixed Panel Rear 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) |
| Variant | Watertight unmated (connector to device) |
| Weight | 10.61 g |

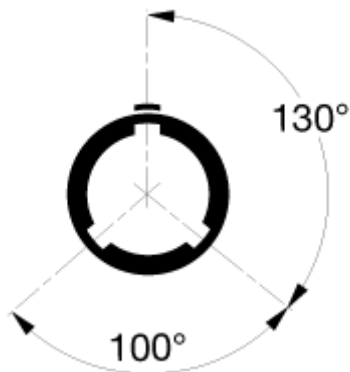
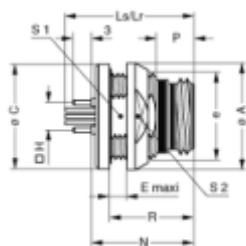
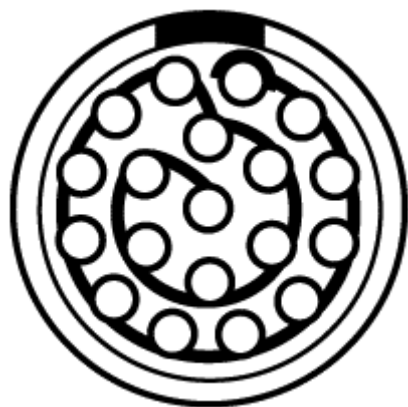
Environment

| | |
|--------------------------------------|--|
| Technical domain | Motorsport, Security and Defence, Transportation, Aerospace and UAV |
| Environmental protection (IP rating) | IP68 |
| Minimal temperature | -20°C / +80°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] |
| 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 |

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Drawings



Dimensions

| | A | C | e | E | H | Ls | Lr | N | P | R | S1 | S2 |
|-----|------|------|----------|-----|------|------|------|------|------|------|------|------|
| mm. | 21 | 20.8 | M17x1.00 | 5 | 8.89 | 20.8 | 21 | 16.8 | 5.3 | 13.8 | 15.5 | 18 |
| in. | 0.83 | 0.82 | | 0.2 | 0.35 | 0.82 | 0.83 | 0.66 | 0.21 | 0.54 | 0.61 | 0.71 |