



Summary

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| | |
|------------------------------------|--|
| Number of contacts Low Voltage | 6 |
| Gender | Standard |
| Socket / Receptacle | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system | Ratchet |
| Jacket cable outside diameter [mm] | 6.50 - 13.00 mm |
| Size | 2M |
| Matching parts | FGN.2M.306.XRCT3 |
| Series | M - Rugged Ratchet coupling |

Technical details

Electrical Configuration

| | |
|---------------------------------|--|
| Contact Termination Low voltage | Crimp |
| Insert configuration value | 2M.306_3 - 3 (0.7 mm) + 3 (1.3 mm) Low Voltage |
| Insulator | R: PEEK (mixed multipole) |
| Contact Type | Crimp |
| Number of contacts Low Voltage | 6 |
| Gender | Standard |

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pen-2m-306-xrmt3.html

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Form & Material

| | |
|------------------------|---|
| Shell style / Model id | PE - Fixed receptacle, nut fixing and mold stop |
| 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=165, gamma=30, plug: male contacts, receptacle: female contacts) |
| Weight | 14.52 g |

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 |

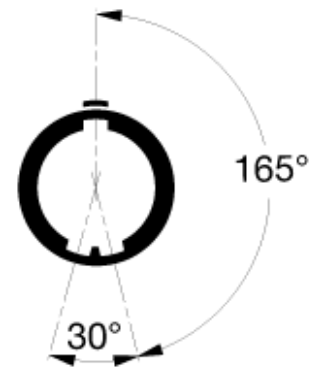
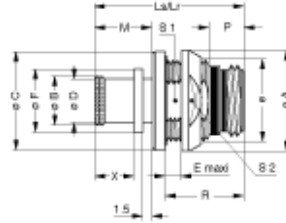
Cable fixation

| | |
|------------------------------------|----------------------|
| Cable termination protection | Heatshrink |
| Fixation type | T type cable adapter |
| Jacket cable outside diameter [mm] | 6.50 - 13.00 mm |

Drawings

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pen-2m-306-xrmt3.html

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Dimensions

| | A | B | C | D | E | e | Ls | Lr | M | P | R | S1 | S2 |
|-----|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|----------|----------|-----------|-----------|
| mm. | 21 | 14 | 20.8 | 13 | 5 | M17x1.00 | 26 | 26 | 10.1 | 5.3 | 13.8 | 15.5 | 18 |
| in. | 0.83 | 0.55 | 0.82 | 0.51 | 0.2 | | 1.02 | 1.02 | 0.4 | 0.21 | 0.54 | 0.61 | 0.71 |

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