



Image for illustrative purpose only

Summary

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| | |
|------------------------------------|---|
| Number of contacts Low Voltage | 22 |
| Wire Size/AWG | 26 - 22 |
| Gender | Standard |
| Socket / Receptacle | Socket / Receptacle - Fixed Panel Front Mounted |
| Locking system | Ratchet |
| Jacket cable outside diameter [mm] | 7.50 - 15.00 mm |
| Size | 3M |
| Suggested matching part | FMU.3M.322.XLC |
| Series | M - Rugged Ratchet coupling |

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pbu-3m-322-xlm.html

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Technical details

Electrical Configuration

| | |
|---------------------------------------|-------------------------------|
| Number of contacts Low Voltage | 22 |
| Contact Termination Low voltage | Crimp |
| R (max) | 6.1 mOhm |
| Insert configuration value | 3M.322 - 22 Low Voltage |
| Insulator | L: PEEK |
| Rated current | 4 A |
| Test voltage (kV rms) Contact-contact | 1.25 |
| Test voltage (kV rms) Contact-shell | 1.15 |
| Contact retention | 22 N |
| Max. Conductor | 0.34 mm ² (AWG 22) |
| Min. Conductor | 0.14 mm ² (AWG 26) |
| Bucket Dia. | 0.8 mm (0.031in) |
| Contact Dia. | 0.7 mm (0.028in) |
| Wire Size/AWG | 26 - 22 |
| Gender | Standard |

Form & Material

| | |
|------------------------|---|
| Shell style / Model id | PB - Fixed receptacle with antivibration flange, 2 holes fixing |
| 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 | U: 3 keys (beta=130, gamma=100, plug: male contacts, receptacle: female contacts) |
| Colour | Grey |

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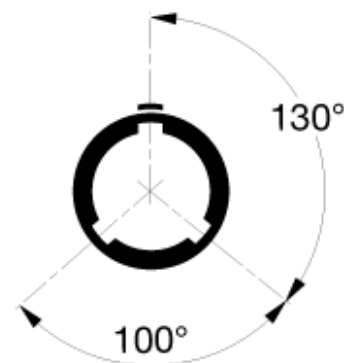
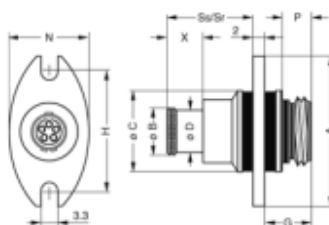
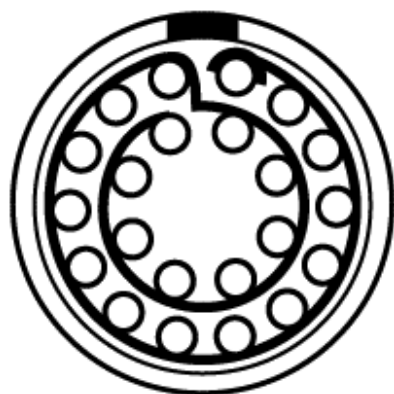
Environment

| | |
|-----------------------------------|---|
| 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] | 7.50 - 15.00 mm |

Drawings



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Dimensions

| | A | B | C | D | G | H | N | P | Ss | Sr | X |
|-----|------|------|------|------|------|------|------|------|------|------|------|
| mm. | 35 | 16 | 21.5 | 15 | 8.3 | 29 | 23 | 5.3 | 15.7 | 15.7 | 7.1 |
| in. | 1.38 | 0.63 | 0.85 | 0.59 | 0.33 | 1.14 | 0.91 | 0.21 | 0.62 | 0.62 | 0.28 |

Recommended By Lemo

Accessories

| | |
|---------------------|--------------------------------|
| Replacement contact | EGN.0M.655.ZZM |
| Compatible cap | BGE.3M.200.XAZ |

Tools

| | |
|-----------------|---------------------------------|
| Positionner | DCE.91.070.3MVM |
| Extraction tool | DCF.93.070.4LT |
| Crimp tool | DPC.91.701.V |