



Image for illustrative purpose only

Summary

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| | |
|------------------------------------|---|
| Number of contacts Low Voltage | 55 |
| Wire Size/AWG | 24 - 20 |
| Gender | Standard |
| Socket / Receptacle | Socket / Receptacle - Fixed Panel Front Mounted |
| Locking system | Ratchet |
| Jacket cable outside diameter [mm] | 11.35 - 22.70 mm |
| Size | LM |
| Suggested matching part | FMW.LM.355.XLC |
| Series | M - Rugged Ratchet coupling |

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/egw-lm-355-xlm.html

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Technical details

Electrical Configuration

| | |
|---------------------------------------|----------------------------------|
| Number of contacts Low Voltage | 55 |
| Contact Termination Low voltage | Crimp |
| R (max) | 4.8 mOhm |
| Insert configuration value | LM.355 - 55 (0.9 mm) Low Voltage |
| Insulator | L: PEEK |
| Rated current | 3.5 A |
| Test voltage (kV rms) Contact-contact | 1.65 |
| Test voltage (kV rms) Contact-shell | 1.95 |
| 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 | EG - Fixed receptacle, nut 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 | W: 5 keys (alpha=95, beta=115, gamma=35, delta=25, plug: male contacts, receptacle: female contacts) |
| Colour | Grey |
| Weight | 29.05 g |

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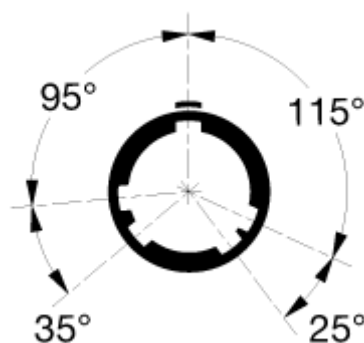
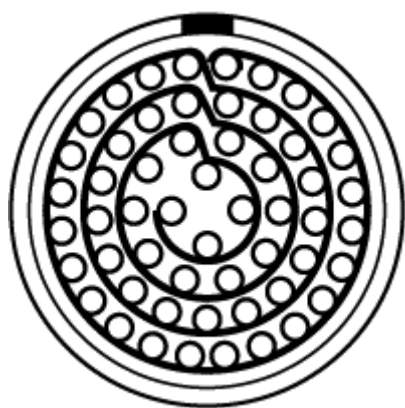
Environment

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

| | |
|------------------------------------|------------------|
| Jacket cable outside diameter [mm] | 11.35 - 22.70 mm |
|------------------------------------|------------------|

Drawings



Dimensions

| | C | D | e | E | Ls | LS | P | S1 | S2 |
|-----|----------|----------|----------|----------|-----------|-----------|----------|-----------|-----------|
| mm. | 28 | 9.4 | M24x1.0 | 4 | 20 | 21.9 | 7.9 | 22.5 | 30 |
| in. | 1.1 | 0.37 | | 0.16 | 0.79 | 0.86 | 0.31 | 0.89 | 1.18 |

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Recommended By Lemo

| Accessories | |
|---------------------|---------------------------------|
| Replacement contact | EGW.TM.660.ZZM |
| Compatible cap | BGE.LM.200.XAZ |
| Tools | |
| Positionner | DCE.91.09T.5MVM |
| Extraction tool | DCC.09.05B.LAG |
| Crimp tool | DPC.91.701.V |