



Image for illustrative purpose only

Summary

Request a quote

Catalog

| Number of contacts Low Voltage | 5 |
|--------------------------------|-------------------------------------------------|
| Gender | Standard |
| Socket / Receptacle | Socket / Receptacle - Fixed Panel Front Mounted |
| Locking system | Ratchet |
| Size | 1M |
| Suggested matching part | FMU.1M.305.XLC |
| Series | M - Rugged Ratchet coupling |

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/ecu-1m-305-xln.html

Technical details

| Electrical Configuration | |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Number of contacts Low Voltage | 5 |
| Contact Termination Low voltage | PCB - Straight |
| R (max) | 4.8 mOhm |
| Insert configuration value | 1M.305 - 5 Low Voltage |
| Insulator | L: PEEK |
| Rated current | 9 A |
| Test voltage (kV rms) Contact-contact | 1.3 |
| Test voltage (kV rms) Contact-shell | 1.3 |
| Contact Dia. | 0.9 mm (0.035in) |
| Gender | Standard |
| Form & Material | |
| Shell style / Model id | EC - Fixed receptacle with two nuts, 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 | U: 3 keys (beta=130, gamma=100, plug: male contacts, receptacle: female contacts) |
| Colour | Grey |
| Weight | 56.69 g |

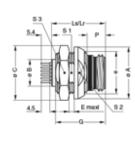
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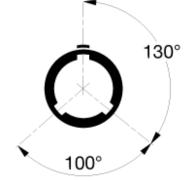
Environment

| Technical domain | Motorsport, Security and Defence, Transportation, Aerospace and UAV | | | | |
|-----------------------------------|------------------------------------------------------------------------|--|--|--|--|
| Environmental sealing (IP rating) | IP50 | | | | |
| 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 | | | | |

Drawings







Dimensions

| | Α | В | С | Ε | е | G | Ls | Lr | Ρ | S1 | S2 | S 3 |
|-----|------|------|------|-----|----------|------|------|------|------|-----------|------|------------|
| mm. | 18 | 5.95 | 19.2 | 5 | M14x1.00 | 16.8 | 18.3 | 18.3 | 5.3 | 12.5 | 16 | 17 |
| in. | 0.71 | 0.23 | 0.76 | 0.2 | | 0.66 | 0.72 | 0.72 | 0.21 | 0.49 | 0.63 | 0.67 |

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Recommended By Lemo

| Accessories | | | |
|----------------|----------------|--|--|
| Compatible cap | BGK.1M.200.XAZ | | |
| Tools | | | |
| Spanner 2 | DCM.65.160.AZ | | |
| Spanner wrench | DCM.65.160.AZ | | |
| | | | |

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