



Image for illustrative purpose only

Summary

Request a quote

| Catalog | |
|------------------------------------|-----------------------------|
| Number of contacts Low Voltage | 5 |
| Wire Size/AWG | 24 - 20 |
| Gender | Reverse Gender |
| Plug | Plug - Straight |
| Locking system | Ratchet |
| Jacket cable outside diameter [mm] | 4.85 - 9.70 mm |
| Size | 1M |
| Suggested matching part | PMS.1M.305.XLC |
| Series | M - Rugged Ratchet coupling |

Technical details

Electrical Configuration

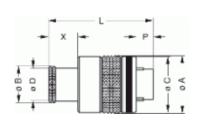
| Number of contacts Low Voltage | 5 | | | |
|---------------------------------------|---|--|--|--|
| Contact Termination Low voltage | Crimp | | | |
| R (max) | 4.8 mOhm | | | |
| Insert configuration value | 1M.305 - 5 Low Voltage | | | |
| Insulator | L: PEEK | | | |
| Rated current | 9 A | | | |
| Test voltage (kV rms) Contact-contact | 1.3 | | | |
| Test voltage (kV rms) Contact-shell | 1.3 | | | |
| Contact 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 | Reverse Gender | | | |
| Form & Material | | | | |
| Shell style / Model id | FM - Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip | | | |
| Plug | Straight | | | |
| Housing material | Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass | | | |
| Locking system | Ratchet | | | |
| Keying | S: 3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts) | | | |
| Colour | Grey | | | |
| Weight | 6.67 g | | | |
| | | | | |

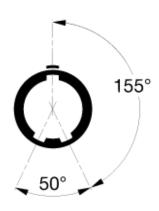
Environment

| Technical domain | Motorsport, Security and Defence, Transportation, Aerospace and UAV |
|------------------------------------|--|
| Environmental sealing (IP rating) | IP68 |
| Endurance | 3000 mating cycles |
| Temperature range | -55°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] | 4.85 - 9.70 mm |
| | |

Drawings







Dimensions

| | A | В | С | D | Ls | Lr | P | X |
|-----|------|------|------|------|------|------|------|------|
| mm. | 14.6 | 10.5 | 14.2 | 9.7 | 24.1 | 24.1 | 3.9 | 6.7 |
| in. | 0.57 | 0.41 | 0.56 | 0.38 | 0.95 | 0.95 | 0.15 | 0.26 |

Recommended By Lemo

Accessories

| Replacement contact | EGN.0M.660.ZZM | | |
|---------------------|-----------------|--|--|
| Compatible cap | BMF.1M.100.XAV | | |
| Tools | | | |
| Positionner | DCE.91.090.3MVM | | |
| Extraction tool | DCC.09.05B.LAG | | |
| Crimp tool | DPC.91.701.V | | |