



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            | PMT.1M.305.XLC              |
| Series                             | M - Rugged Ratchet coupling |

## **Technical details**

### **Electrical Configuration**

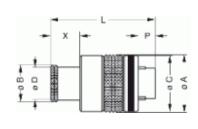
| Number of contacts Low Voltage        | 5   |  |  |  |
|---------------------------------------|---|--|--|--|
| Contact Termination Low voltage       | Crimp   |  |  |  |
| R (max)                               | 4.8 mOhm  |  |  |  |
| Insert configuration value            | 1M.305 - 5 Low Voltage  |  |  |  |
| 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                                | T: 3 keys (beta=135, gamma=90, plug: female contacts, receptacle: male contacts)                        |  |  |  |
| Colour                                | Grey  |  |  |  |
|                                       |   |  |  |  |

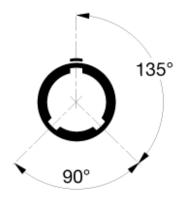
#### **Environment**

| 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    |  |  |