



Image for illustrative purpose only

Summary

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| | |
|------------------------------------|---|
| Number of contacts Low Voltage | 3 |
| Wire Size/AWG | 20 - 16 |
| Gender | Standard |
| Socket / Receptacle | Socket / Receptacle - Fixed Panel Front Mounted |
| Locking system | Ratchet |
| Jacket cable outside diameter [mm] | 4.85 - 9.70 mm |
| Size | 1M |
| Suggested matching part | FMN.1M.303.XLC |
| Series | M - Rugged Ratchet coupling |

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/egn-1m-303-xlm.html

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Technical details

Electrical Configuration

| | |
|---------------------------------|------------------------------|
| Contact Termination Low voltage | Crimp |
| R (max) | 3.6 mOhm |
| Insert configuration value | 1M.303 - 3 Low Voltage |
| Insulator | L: PEEK |
| Rated current | 15.5 A |
| Contact retention | 40 N |
| Contact Type | Crimp |
| Max. Conductor | 1 mm ² (AWG 18) |
| Min. Conductor | 0.5 mm ² (AWG 20) |
| Bucket Dia. | 1.4 mm (0.055in) |
| Contact Dia. | 1.3 mm (0.051in) |
| Number of contacts Low Voltage | 3 |
| Wire Size/AWG | 20 - 16 |
| 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 | N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts) |
| Colour | Grey |
| Weight | 4.92 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 |
| 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] | 4.85 - 9.70 mm |
|------------------------------------|----------------|

Recommended By Lemo

Accessories

| | |
|---------------------|--------------------------------|
| Replacement contact | EGN.0M.665.ZZM |
| Compatible cap | BGE.1M.200.XAZ |






















Tools

| | |
|-----------------|---------------------------------|
| Positionner | DCE.91.130.5MVM |
| Extraction tool | DCF.93.131.4LT |

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Cables

| Cable PartNumber | Material | Colour | Cable image |
|--------------------|---------------|--------|--|
| CMN.03.T18.055PGZE | | grey |  |
| CMN.03.T18.055PNZE | | |  |
| CMN.03.T18.055QGZE | TPR (medical) | Grey |  |
| CMN.03.T20.049PGZE | | grey |  |
| CMN.03.T20.049PNZE | | |  |
| CMN.03.T28.031PGCE | PVC | GREY |  |
| CMN.03.T28.031PGZE | | grey |  |
| CMN.03.T28.031PNCE | PVC | Black |  |
| CMN.03.T28.031PNZE | | |  |
| 130240 | PVC | Black |  |
| 130250 | PVC | Grey |  |
| 230500 | PVC | Grey |  |
| 230750 | PVC | Grey |  |
| 30110 | PVC | Grey |  |
| 30141 | PVC | Grey |  |
| 30260 | PVC | Black |  |
| 3041 | PVC | Grey |  |
| 3050 | PVC | Black |  |
| 3081 | PVC | Black | |
| 3220 | PVC | Black |  |
| 3280 | PVC | Black |  |
| 330150 | PVC | Grey |  |
| 60080 | PVC | Grey | |

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