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Summary

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| | |
|------------------------------------|-----------------------------|
| Number of contacts Low Voltage | 66 |
| Wire Size/AWG | 22 - 22 |
| Gender | Standard |
| Plug | Plug - Straight |
| Locking system | Ratchet |
| Jacket cable outside diameter [mm] | 14.25 - 28.50 mm |
| Size | 5M |
| Series | M - Rugged Ratchet coupling |

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgr-5m-366-xrwt44.html

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Technical details

Electrical Configuration

| | |
|--------------------------------|---|
| Number of contacts Low Voltage | 66 |
| Insert configuration value | 5M.366_44 - 44 (0.7 mm) + 22 (1.3 mm) Low Voltage |
| Insulator | R: PEEK (mixed multipole) |
| Rated current | 3 A |
| Wire Size/AWG | 22 - 22 |
| Gender | Standard |

Form & Material

| | |
|------------------------|---|
| Shell style / Model id | FG - Straight plug with arctic grip and mold stop |
| 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 | R: 5 keys (alpha=105, beta=115, gamma=30, delta=20, plug: male contacts, receptacle: female contacts) |
| Colour | Grey |
| Weight | 45.99 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 |
| 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 |

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Cable fixation

| | |
|------------------------------------|-------------------------|
| Cable termination protection | For overmolding |
| Fixation type | Mold stop (overmolding) |
| Jacket cable outside diameter [mm] | 14.25 - 28.50 mm |

Recommended By Lemo

Accessories

| | |
|---------------------|--------------------------------|
| Replacement contact | FGN.0M.555.44C |
| Compatible cap | BGF.5M.100.XAV |

Tools

| | |
|---------------|---------------------------------|
| Positionner 2 | DCE.91.130.5MVG |
|---------------|---------------------------------|

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