



Image for illustrative purpose only

Summary

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[See video assembly instructions](#)

| | |
|------------------------------------|--------------------------------|
| Number of contacts Low Voltage | 5 |
| Wire Size/AWG | 24 - 20 |
| Gender | Standard |
| Plug | Plug - Straight |
| Locking system | Break-away |
| Jacket cable outside diameter [mm] | 3.80 - 10.70 mm |
| Size | 1F |
| Suggested matching part | EGN.1F.305.XLM |
| Series | F - Rugged Push-Pull |

https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/fgn-1f-305-xlcf.html

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Technical details

Electrical Configuration

| | |
|---------------------------------|-------------------------------|
| Number of contacts Low Voltage | 5 |
| Contact Termination Low voltage | Crimp |
| R (max) | 4.8 mOhm |
| Insert configuration value | 1F.305 - 5 Low Voltage |
| Insulator | L: PEEK (UL 94 / V-0/1.5) |
| Rated current | 9 A |
| Vtest (contact-contact) | 1300 V (AC), 1840 V (DC) |
| Vtest (contact-shell) | 1550 V (AC), 2200 V (DC) |
| 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 | Standard |

Form & Material

| | |
|------------------------|---|
| Shell style / Model id | FG - Straight plug |
| Plug | Straight |
| Housing material | Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass |
| Locking system | Break-away |
| Keying | 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts) |
| Colour | Grey |
| Weight | 8.7 g |

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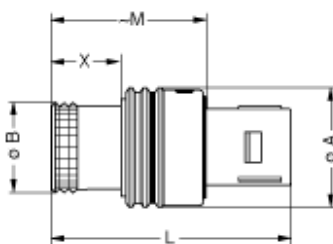
Environment

| | |
|-----------------------------------|---|
| Technical domain | Motorsport, Security and Defence |
| Environmental sealing (IP rating) | IP67 |
| Endurance | 1000 mating cycles |
| Temperature range | -15°C / +200°C (max. temperature valid for short periods of use.) |
| Climatical Category | 15/200/21 (Aluminium shell) |
| Humidity (max) | <=95% [at 60 deg C /140 F] |
| Shock Resistance | 100 g [6 ms] |
| Vibration | 15 g [10 Hz - 2000 Hz] |
| Salt Spray Corrosion | max. 48 hr |

Cable fixation

| | |
|------------------------------------|-----------------|
| Cable termination protection | Heatshrink |
| Fixation type | Heatshrink |
| Jacket cable outside diameter [mm] | 3.80 - 10.70 mm |

Drawings



Dimensions

| | M | A | B | L | X |
|-----|------|------|------|------|------|
| mm. | 17.9 | 14 | 10.7 | 27.8 | 8 |
| in. | 0.7 | 0.55 | 0.42 | 1.09 | 0.31 |

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Recommended By Lemo








Accessories

| | |
|---------------------|--------------------------------|
| Replacement contact | FGG.0B.560.ZZC |
| Compatible cap | BFG.1F.100.XAZ |

Tools

| | |
|-----------------|--------------------------------|
| Positionner | DCE.91.090.BVC |
| Extraction tool | DCC.09.05B.LAG |
| Crimp tool | DPC.91.701.V |

Cables

| Cable PartNumber | Material | Colour | Cable image |
|--------------------|---------------|--------|---|
| CMN.05.T20.057PGZE | | grey |  |
| CMN.05.T20.057PNZE | | |  |
| CMN.05.T20.057QGZE | TPR (medical) | Grey |  |
| CMN.05.T22.051QGZE | TPR (medical) | Grey |  |
| 150250 | PVC | Grey |  |
| 250500 | PVC | Grey |  |
| 50090 | PVC | Black | |
| 50140 | PVC | Grey |  |

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