



Image for illustrative purpose only

Summary

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| | |
|------------------------------------|--|
| Number of contacts Low Voltage | 12 |
| Wire Size/AWG | 26 - 22 |
| Gender | Standard |
| Socket / Receptacle | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system | Push-pull |
| Jacket cable outside diameter [mm] | 5.30 - 14.00 mm |
| Size | 2F |
| Suggested matching part | FGP.2F.312.XLC |
| Series | F - Rugged Push-Pull |

https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/pep-2f-312-xlm.html

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Technical details

Electrical Configuration

| | |
|---------------------------------|-------------------------------|
| Number of contacts Low Voltage | 12 |
| Contact Termination Low voltage | Crimp |
| R (max) | 6.1 mOhm |
| Insert configuration value | 2F.312 - 12 Low Voltage |
| Insulator | L: PEEK (UL 94 / V-0/1.5) |
| Rated current | 7 A |
| Vtest (contact-contact) | 1650 V (AC), 2350 V (DC) |
| Vtest (contact-shell) | 2000 V (AC), 2850 V (DC) |
| Contact retention | 22 N |
| Max. Conductor | 0.34 mm ² (AWG 22) |
| Min. Conductor | 0.14 mm ² (AWG 26) |
| Bucket Dia. | 0.8 mm (0.031in) |
| Contact Dia. | 0.7 mm (0.028in) |
| Wire Size/AWG | 26 - 22 |
| Gender | Standard |

Form & Material

| | |
|------------------------|---|
| Shell style / Model id | PE - Straight receptacle, nut fixing (back panel mounting) |
| Socket / Receptacle | Fixed Panel Rear Mounted |
| Housing material | Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass |
| Locking system | Push-pull |
| Keying | 3 keys (beta=150, gamma=60, plug: male contacts, receptacle: female contacts) |
| Colour | Grey |
| Weight | 11.92 g |

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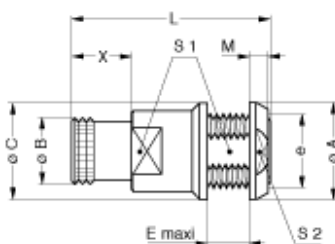
Environment

| | |
|-----------------------------------|---|
| 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] | 5.30 - 14.00 mm |

Drawings



Dimensions

| | A | B | S1 | M | L | E | e | C | S2 | X |
|-----|------|------|------|------|------|------|---------|------|------|------|
| mm. | 20 | 14 | 14.5 | 4 | 26.7 | 6.4 | M16x1.0 | 20 | 17 | 8 |
| in. | 0.79 | 0.55 | 0.57 | 0.16 | 1.05 | 0.25 | | 0.79 | 0.67 | 0.31 |

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Recommended By Lemo

Accessories

| | |
|---------------------|--------------------------------|
| Replacement contact | EGG.0B.655.ZZM |
|---------------------|--------------------------------|











Tools

| | |
|-------------|--------------------------------|
| Positionner | DCE.91.070.BVM |
|-------------|--------------------------------|

| | |
|-----------------|--------------------------------|
| Extraction tool | DCF.93.070.4LT |
|-----------------|--------------------------------|

| | |
|------------|------------------------------|
| Crimp tool | DPC.91.701.V |
|------------|------------------------------|

Cables

| Cable PartNumber | Material | Colour | Cable image |
|--------------------|---------------|--------|---|
| CMN.12.T22.070QGZE | TPR (medical) | Grey |  |
| CMN.12.T28.054PGZE | | grey |  |
| CMN.12.T28.054PNZE | | |  |
| 112240 | PTFE | White |  |
| 112260 | PTFE | White |  |
| 112280 | PVC | Black |  |
| 124080 | PVC | Grey | |
| 124084 | PVC | Black | |
| 212220 | PVC | Black |  |
| 212240 | PVC | Black |  |
| 212250 | PVC | Grey |  |
| 212260 | PVC | Black |  |

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