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Summary

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| | |
|------------------------------------|--|
| Number of contacts Low Voltage | 19 |
| Wire Size/AWG | 30 - 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 |
| Series | F - Rugged Push-Pull |

Technical details

Electrical Configuration

| | |
|---------------------------------|-------------------------------|
| Contact Termination Low voltage | Solder |
| R (max) | 6.1 mOhm |
| Insert configuration value | 2F.319 - 19 Low Voltage |
| Insulator | L: PEEK (UL 94 / V-0/1.5) |
| Rated current | 5 A |
| Contact Type | Solder |
| Max. Solid Conductor | 0.34 mm ² (AWG 22) |
| Max. Stranded Conductor | 0.34 mm ² (AWG 22) |
| Bucket Dia. | 0.8 mm (0.031in) |
| Contact Dia. | 0.7 mm (0.028in) |
| Number of contacts Low Voltage | 19 |
| Wire Size/AWG | 30 - 22 |
| Gender | Standard |

Form & Material

| | |
|------------------------|---|
| Shell style / Model id | HE - Fixed receptacle, nut fixing, for printed circuit (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=165, gamma=30, plug: male contacts, receptacle: female contacts) |
| Colour | Grey |
| Variant | Watertight unmated (connector to device) |
| Weight | 9.96 g |

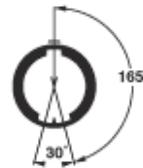
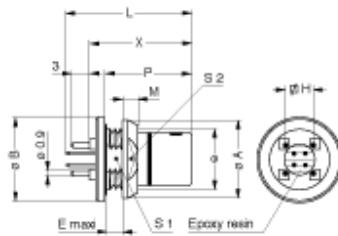
Environment

| | |
|-----------------------------------|----------------------------------|
| Technical domain | Motorsport, Security and Defence |
| Environmental sealing (IP rating) | IP68 |
| Endurance | 1000 mating cycles |
| Temperature range | -15°C / +100°C |
| 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] |
| Pressure | 5 bars |
| Salt Spray Corrosion | max. 48 hr |

Cable fixation

| | |
|------------------------------------|-----------------|
| Jacket cable outside diameter [mm] | 5.30 - 14.00 mm |
|------------------------------------|-----------------|

Drawings



Dimensions

| | A | B | e | E | H | L | M | P | S1 | S2 | X |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|
| mm. | 20 | 20 | M16x1.0 | 3 | 8.89 | 21.5 | 4 | 14.5 | 14.5 | 17 | 17.5 |
| in. | 0.79 | 0.79 | | 0.12 | 0.35 | 0.85 | 0.16 | 0.57 | 0.57 | 0.67 | 0.69 |

Recommended By Lemo

Accessories

| | |
|----------------|--------------------------------|
| Compatible cap | BRE.2F.200.XAV |
|----------------|--------------------------------|

Tools

| | |
|----------------|--|
| Spanner wrench | Socket for torque wrench DCM.65.170.AZ |
|----------------|--|

Cables

| Cable PartNumber | Material | Colour | Cable image |
|--------------------|---------------|--------|---|
| CMN.19.T22.079QGZE | TPR (medical) | Grey |  |

https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/hen-2f-319-xlipy.html

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