

SUMMARY

Wires

Low voltage 16



Image is for illustrative purpose only

| | |
|------------------|------------------------------------|
| Series | 1K |
| Termination type | Female solder |
| IP rating | 68 |
| AWG wire size | 34.00 - 28.00 |
| Cable Ø | 0.00 - 0.00 mm |
| Status | active |
| Matching parts | FGG.1K.316.CLAC30Z |

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TECHNICAL DETAILS

Mechanics

| | |
|-------------------|---|
| Shell Style/Model | HG*: Fixed receptacle, nut fixing, watertight or vacuum-tight |
| Keying | 1 key (alpha=0, plug: male contacts, receptacle: female contacts) |
| Housing Material | Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces |
| Variant | PV : Watertight / Vacuum-tested |
| Weight | 21.46 g |

Performance

| | |
|---------------|---------------------------|
| Configuration | 1K.316 : 16 Low Voltage |
| Insulator | L: PEEK (UL 94 / V-0/1.5) |
| Rated Current | 1.5 Amps |

Specifications

Contact Type: Solder
Contact Dia.: 0.5 mm (0.02in)
Bucket Dia.: 0.45 mm (0.018in)
Max. Solid Conductor: 0.09 mm² (AWG 28)
Max. Stranded Conductor: 0.09 mm² (AWG 28)
R (max): 8.7 mOhm

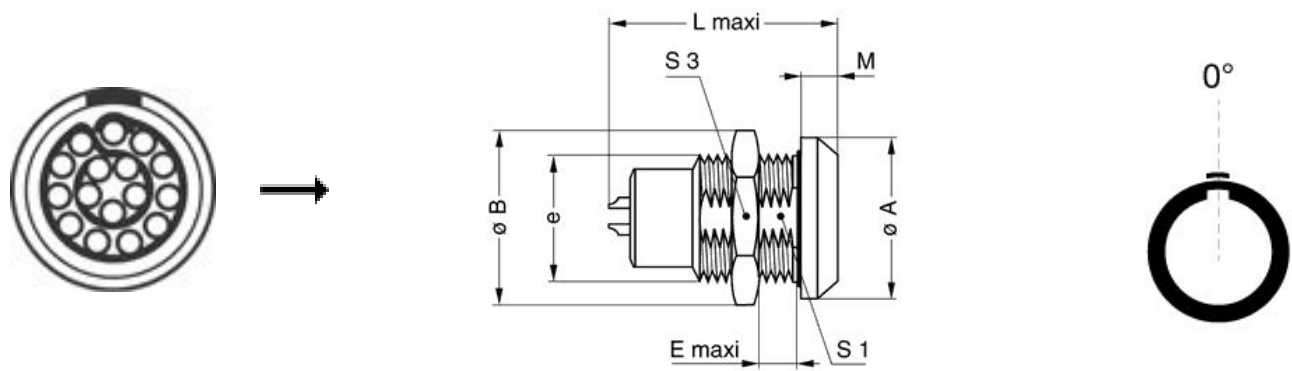
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Vtest (contact-shell): 1250 V (AC), 1770 V (DC)
Vtest (contact-contact): 800 V (AC), 1130 V (DC)

Others

Endurance (Shell): 5000 mating cycles
Temp (min / max): -20°C / +100°C
Humidity (max): <=95% [at 60 deg C / 140 F]
Vibration: 15 g [10 Hz - 2000 Hz]
Shock Resistance: 100 g [6 ms]
Climatical Category: 20/80/21
Shielding (min): 95 dB (10 MHz)
Shielding (min): 80 dB (1 GHz)
R leak (He) (max): 0.0000001 mbar*l/s (if vacuum-tested)
Salt Spray Corrosion: >1000 hr
Pressure: 60 bars

DRAWINGS



Dimensions

| | A | B | E | L | M | S1 | S3 | e |
|-----|------|------|------|------|------|------|------|---------|
| mm. | 20 | 21.5 | 9 | 30 | 4.5 | 14.5 | 19 | M16x1.0 |
| in. | 0,79 | 0,85 | 0,35 | 1,18 | 0,18 | 0,57 | 0,75 | |

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Tools

Cables

| | | | |
|--------------------|---------------|-------|---|
| CMN.16.T28.059PGZE | | Grey |  |
| CMN.16.T28.059PNZE | | |  |
| CMN.16.T28.070NNZZ | | | |
| CMN.16.T30.047QGZE | TPR (medical) | Grey |  |
| 116080 | PUR | Black | |
| 116280 | PVC | Black |  |
| 16050 | PVC | Black |  |

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