

SUMMARY

Wires

| | |
|-------------|---|
| Low voltage | 3 |
|-------------|---|



Image is for illustrative purpose only

| | |
|------------------|--------------------------------|
| Series | 1F |
| Termination type | Male crimp |
| IP rating | 50 |
| AWG wire size | 20.00 - 18.00 |
| Cable Ø | 3.80 - 10.70 mm |
| Status | active |
| Matching parts | FGS.1F.303.XLM |

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TECHNICAL DETAILS

Mechanics

| | |
|-------------------|---|
| Shell Style/Model | EE*: Fixed receptacle, nut fixing (back panel mounting) |
| Keying | 3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts) |
| Housing Material | Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass |
| Weight | 5.44 g |

Performance

| | |
|---------------|---------------------------|
| Configuration | 1F.303 : 3 Low Voltage |
| Insulator | L: PEEK (UL 94 / V-0/1.5) |
| Rated Current | 12 Amps |

Specifications

| | |
|------------------------|------------------------------|
| Contact Type: | Crimp |
| Contact Retention: | 40 N |
| Contact Dia.: | 1.3 mm (0.051in) |
| Bucket Dia.: | 1.4 mm (0.055in) |
| Min. Conductor: | 0.5 mm ² (AWG 20) |
| Max. Conductor: | 1 mm ² (AWG 18) |
| R (max): | 3.6 mOhm |
| Vtest (contact-shell): | 1850 V (AC), 2600 V (DC) |

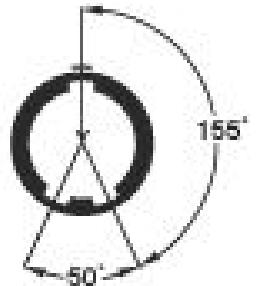
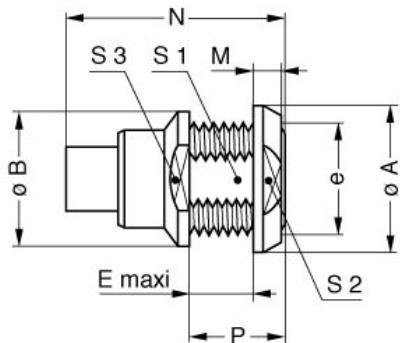
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Vtest (contact-contact): 1600 V (AC), 2250 V (DC)

Others

Endurance (Shell): 1000 mating cycles
Temp (min / max): -15°C / +200°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: 15/200/21 (Aluminium shell)
Salt Spray Corrosion: max. 48 hr

DRAWINGS



Dimensions

| | A | B | E | M | N | P | S1 | S2 | S3 | e |
|-----|------|------|------|------|------|------|------|------|------|----------|
| mm. | 17 | 15 | 6.2 | 3.2 | 19 | 9.4 | 11.5 | 14 | 14 | M13x0.75 |
| in. | 0,67 | 0,59 | 0,24 | 0,13 | 0,75 | 0,37 | 0,45 | 0,55 | 0,55 | |

RECOMMENDED BY LEMO

Tools

Crimp Tool: [DPC.91.701.V](#)

Crimp settings: AWG/Selector = 18-20/8-7

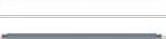
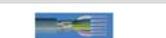
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Positionner: [DCE.91.131.FVC](#)

Extractor: [DCF.93.131.4LT](#)

Replacement contact: FGN.1F.565.ZZC

Cables

| | | | |
|--------------------|---------------|-------|---|
| CMN.03.T18.055PGZE | | Grey |  |
| CMN.03.T18.055PNZE | | |  |
| CMN.03.T18.055QGZE | TPR (medical) | Grey |  |
| CMN.03.T20.049PGZE | | Grey |  |
| CMN.03.T20.049PNZE | | |  |
| CMN.03.T28.031PGCE | PVC | GREY |  |
| CMN.03.T28.031PGZE | | Grey |  |
| CMN.03.T28.031PNCE | PVC | Black |  |
| CMN.03.T28.031PNZE | | |  |
| 130240 | PVC | Black |  |
| 130250 | PVC | Grey |  |
| 230500 | PVC | Grey |  |
| 230750 | PVC | Grey |  |
| 30110 | PVC | Grey |  |
| 30141 | PVC | Grey |  |
| 30260 | PVC | Black |  |
| 3041 | PVC | Grey |  |
| 3050 | PVC | Black |  |
| 3081 | PVC | Black | |
| 3220 | PVC | Black |  |
| 3280 | PVC | Black |  |
| 60080 | PVC | Grey | |

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