

SUMMARY

Wires

Low voltage 3



Image is for illustrative purpose only

| | |
|------------------|--------------------------------|
| Series | 1M |
| Termination type | Male crimp |
| IP rating | 68 |
| AWG wire size | 20.00 - 16.00 |
| Cable Ø | 4.85 - 9.70 mm |
| Status | active |
| Matching parts | EGN.1M.303.XLM |

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[Catalog](#)

[See video assembly instructions](#)

TECHNICAL DETAILS

Mechanics

| | |
|-------------------|---|
| Shell Style/Model | FG*: Straight plug with arctic grip |
| Keying | 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts) |
| Housing Material | Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass |
| Weight | 7.40 g |

Performance

| | |
|---------------|------------------------|
| Configuration | 1M.303 : 3 Low Voltage |
| Insulator | L: PEEK |
| Rated Current | 15.5 Amps |

Specifications

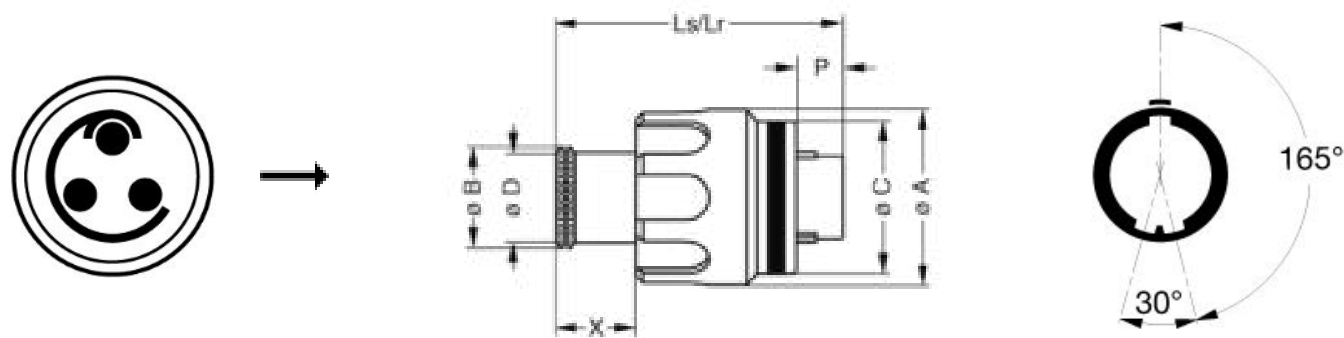
Contact Type: Crimp
Contact Retention: 40 N
Contact Dia.: 1.3 mm (0.051in)
Bucket Dia.: 1.4 mm (0.055in)
Min. Conductor: 0.5 mm² (AWG 20)
Max. Conductor: 1 mm² (AWG 18)
R (max): 3.6 mOhm

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Others

- Endurance (Shell): 3000 mating cycles
- Temp (min / max): -20°C / +200°C
- Humidity (max): 21 days at 95%
- Gunfire vibration: 25 Hz - 2000 Hz, 3 axis (Apache helicopter)
- Vibration-Sine: 30 g, 3 axes, 12 hr [10 Hz - 2000 Hz]
- Vibration-Random: 37.8 g rms - 3 axes, 4 hr amb [50 Hz - 2000 Hz]
- Shock Resistance: 300 g [3 ms]
- Lighting strike EIA 364-75: 10K amps - 6 times
- Thermal shock: 5 cycles: -65°C to +150°C
- EMI Shielding EIA 364-66A: >= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz), >= 40 dB (10 GHz)
- Salt Spray Corrosion: max. 48 hr

DRAWINGS



Dimensions

| | A | B | C | D | Lr | Ls | P | X |
|-----|------|------|------|------|------|------|------|------|
| mm. | 15.9 | 10.5 | 14.2 | 9.7 | 24.1 | 24.1 | 3.9 | 6.7 |
| in. | 0,63 | 0,41 | 0,56 | 0,38 | 0,95 | 0,95 | 0,15 | 0,26 |

RECOMMENDED BY LEMO






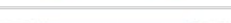



Tools

Crimp settings: AWG/Selector = 16-18-20/8-7-7

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Positionner: [DCE.91.130.5MVC](#)
 Extractor: [DCF.93.131.4LT](#)
 Replacement contact: FGN.0M.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 | | |  |
| 230500 | PVC | Grey |  |
| 230750 | PVC | Grey |  |
| 3220 | PVC | Black |  |
| 330150 | PVC | Grey |  |

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