

## SUMMARY

### # Wires

Low voltage 3



*Image is for illustrative purpose only*

Series	1F
Termination type	Male crimp
IP rating	67
AWG wire size	20.00 - 18.00
Cable Ø	3.80 - 10.70 mm
Status	active
Matching parts	<a href="#">FGS.1F.303.XLM</a>

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## TECHNICAL DETAILS

### Mechanics

Shell Style/Model	PE*: Straight 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	8.25 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<sup>2</sup> (AWG 20)  
 Max. Conductor: 1 mm<sup>2</sup> (AWG 18)  
 R (max): 3.6 mOhm  
 Vtest (contact-shell): 1850 V (AC), 2600 V (DC)

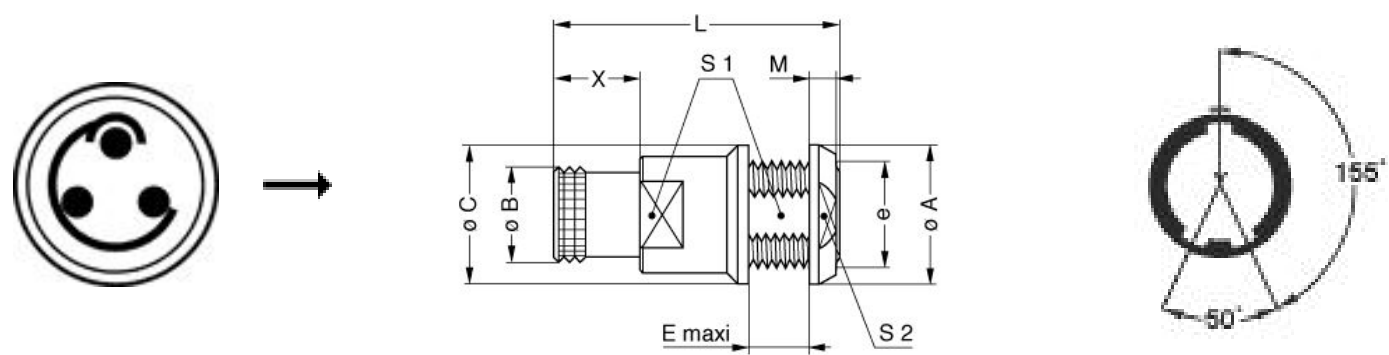
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Vtest (contact-contact): 1600 V (AC), 2250 V (DC)

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	C	E	L	M	S1	S2	X	e
mm.	17	10.7	17	6.2	26.7	3.2	11.5	14	8	M13x0.75
in.	0,67	0,42	0,67	0,24	1,05	0,13	0,45	0,55	0,31	

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			
130240	PVC	Black	
130250	PVC	Grey	
230500	PVC	Grey	
230750	PVC	Grey	
30110	PVC	Grey	
30260	PVC	Black	
3220	PVC	Black	
3280	PVC	Black	
60080	PVC	Grey	

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