

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	EG*: Fixed receptacle, nut fixing
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	4.92 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 mm² (AWG 20)
Max. Conductor: 1 mm² (AWG 18)
R (max): 3.6 mOhm
Vtest (contact-shell): 1850 V (AC), 2600 V (DC)

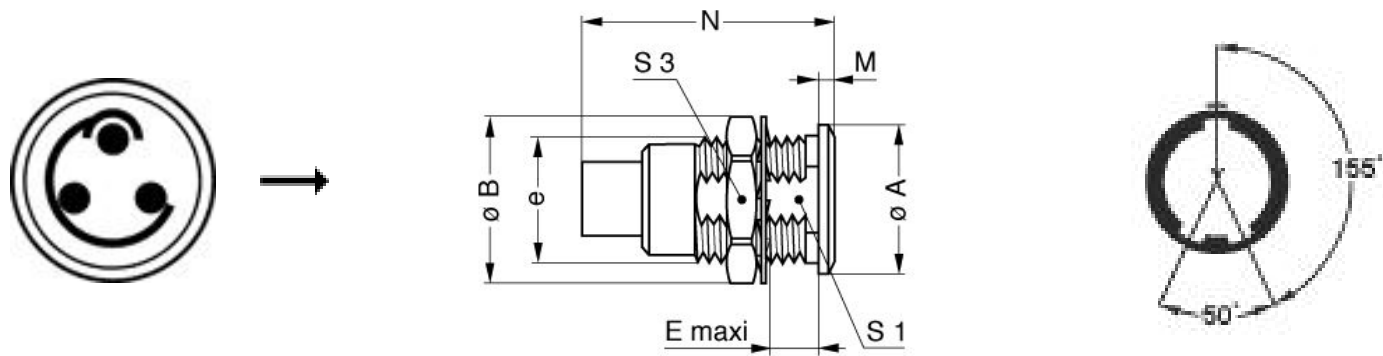
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Vtest (contact-contact): 1600 V (AC), 2250 V (DC)

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	S1	S3	e
mm.	14	16	7	1.5	19	10.5	14	M12x1.0
in.	0,55	0,63	0,28	0,06	0,75	0,41	0,55	

RECOMMENDED BY LEMO

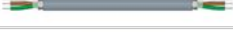
Tools

- 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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