

SUMMARY

Wires

Low voltage 3



Image is for illustrative purpose only

Series 1M
Termination type Female crimp
IP rating 68
AWG wire size 20.00 - 16.00
Cable Ø 4.85 - 9.70 mm
Status active
Matching parts [FMN.1M.303.ILCT](#)

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TECHNICAL DETAILS

Mechanics

Shell Style/Model PE*: Fixed receptacle, nut fixing and mold stop
Keying 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Housing Material Aluminium (NiCorAl Nickel fluorocarbon polymer, anthracite color) shell and nut, other pieces bronze/brass
Weight 8.40 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]

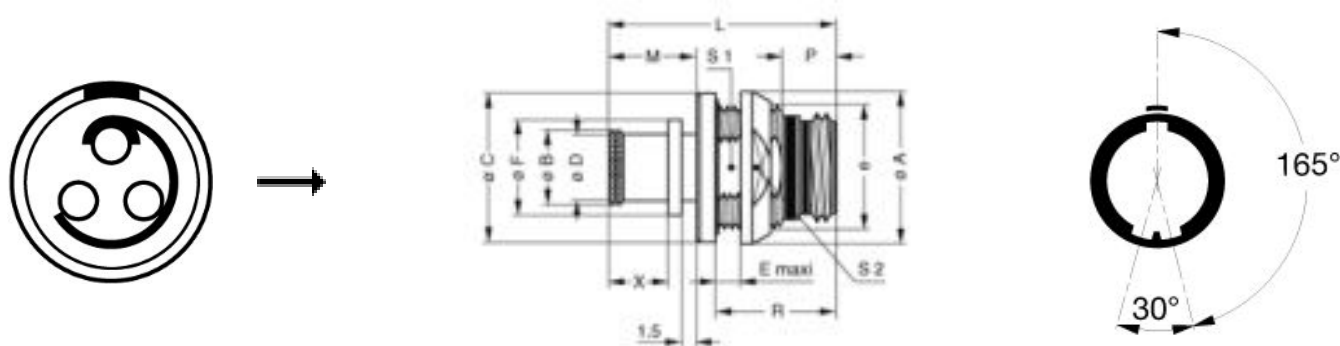
Lighting strike EIA 364-75: 10K amps - 6 times

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. 500 hr

DRAWINGS



Dimensions

	A	B	C	D	E	Lr	Ls	M	P	R	S1	S2	e
mm.	18	10.5	17.8	9.7	5	25.6	25.6	9.7	5.3	13.8	12.5	16	M14x1.00
in.	0,71	0,41	0,70	0,38	0,20	1,01	1,01	0,38	0,21	0,54	0,49	0,63	

RECOMMENDED BY LEMO







Tools

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

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Positionner: [DCE.91.130.5MVM](#)
 Extractor: [DCF.93.131.4LT](#)
 Replacement contact: EGN.0M.665.ZZM
 Spanner wrench: [DCM.65.000.4PA](#)

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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