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FGN.1M.303.XLCT

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 and mold stop
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

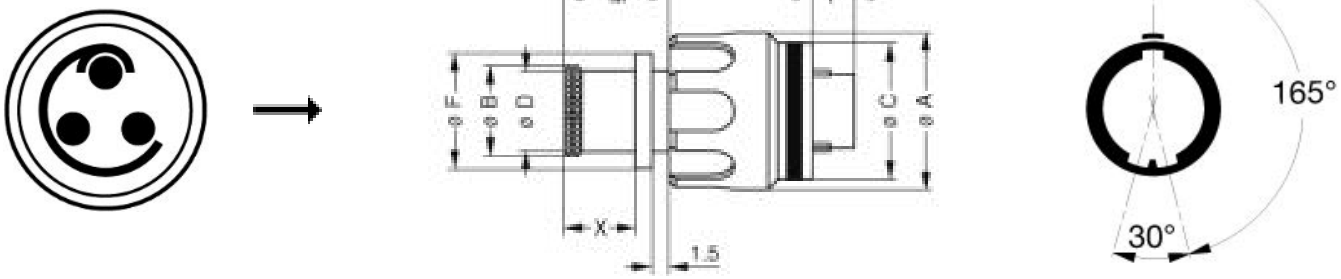
Contact Type: Crimp
Contact Retention: 40 N
Contact Dia.: 1.3 mm (0.051in)
Bucket Dia.: 1.4 mm (0.055in)
Min. Conductor: 0.5 mm^2 (AWG 20)
Max. Conductor: 1 mm^2 (AWG 18)
R (max): 3.6 mOhm

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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	F	Lr	Ls	M	P	X
mm.	15.9	10.5	14.2	9.7	12.4	27.1	27.1	9.7	3.9	6.7
in.	0,63	0,41	0,56	0,38	0,49	1,07	1,07	0,38	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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