

SUMMARY

Wires

Low voltage 4



Image is for illustrative purpose only

Series 2M
Termination type Male crimp
IP rating 68
AWG wire size 20.00 - 16.00
Cable Ø 6.50 - 13.00 mm
Status active
Matching parts [PEN.2M.304.XLMT](#)

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[See video assembly instructions](#)

TECHNICAL DETAILS

Mechanics

Shell Style/Model FM*: Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled 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 9.30 g

Performance

Configuration 2M.304 : 4 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

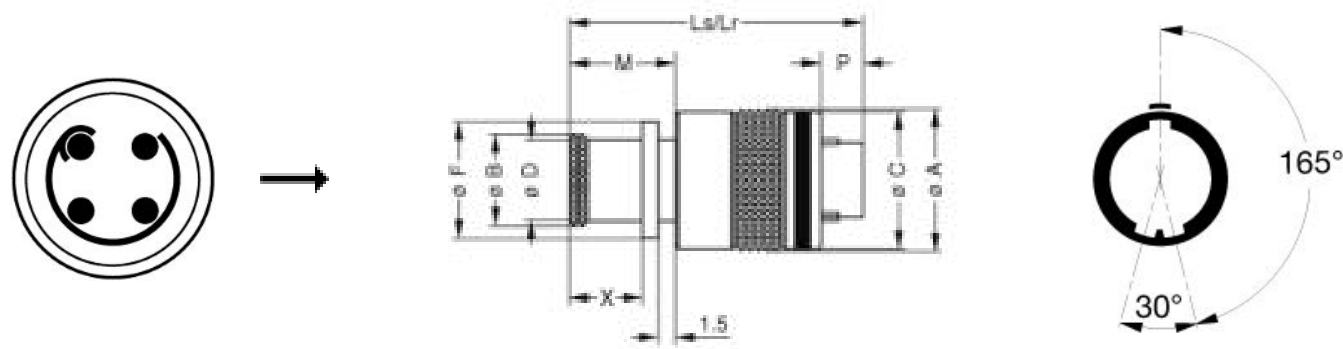
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Test voltage (kV rms) Contact-contact: 1.55
Test voltage (kV rms) Contact-shell: 1.55

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.	17.6	14	17.2	13	15.5	27.5	27.5	10.1	3.9	7.1
in.	0,69	0,55	0,68	0,51	0,61	1,08	1,08	0,40	0,15	0,28

RECOMMENDED BY LEMO

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Tools

- Crimp Tool:

[DPC.91.701.V](#)
- Crimp settings:

AWG/Selector = 16-18-20/8-7-7
- Positionner:

[DCE.91.130.5MVC](#)
- Extractor:

[DCF.93.131.4LT](#)
- Replacement contact:

FGN.0M.565.ZZC

Cables

240750	PVC	Grey	
417920	PVC	Grey	
CTR.75.030.121870G	PVC	Grey	

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