

SUMMARY

Wires

Low voltage 10



Image is for illustrative purpose only

Series	2M
Termination type	Female crimp
IP rating	68 when mated
AWG wire size	24.00 - 20.00
Cable Ø	6.50 - 13.00 mm
Status	active
Matching parts	FMN.2M.310.XLCT

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TECHNICAL DETAILS

Mechanics

Shell Style/Model	PM*: Free receptacle 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	12.11 g

Performance

Configuration	2M.310 : 10 Low Voltage
Insulator	L: PEEK
Rated Current	8 Amps

Specifications

Contact Type: Crimp
Contact Retention: 30 N
Contact Dia.: 0.9 mm (0.035in)
Bucket Dia.: 1.1 mm (0.043in)
Min. Conductor: 0.25 mm² (AWG 24)
Max. Conductor: 0.5 mm² (AWG 20)
R (max): 4.8 mOhm
Test voltage (kV rms) Contact-contact: 1.8

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Test voltage (kV rms) Contact-shell: 1.2

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]

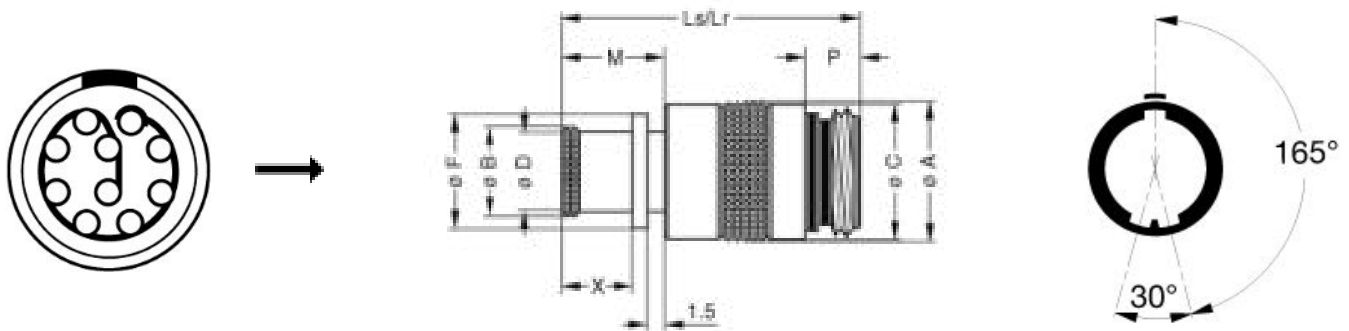
Lighting strike EIA 364-75: 10K amps - 6 times

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	29	29	10.1	5.3	7.1
in.	0,69	0,55	0,68	0,51	0,61	1,14	1,14	0,40	0,21	0,28

RECOMMENDED BY LEMO

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Tools

Crimp Tool:	DPC.91.701.V
Crimp settings:	AWG/Selector = 20-22-24/6-5-5
Positionner:	DCE.91.090.3MVM
Extractor:	DCC.09.05B.LAG
Replacement contact:	EGN.0M.660.ZZM

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