

SUMMARY

Wires

Low voltage 7

Series 1M
Termination type Female crimp
IP rating 68
AWG wire size 26.00 - 22.00
Cable Ø 4.85 - 9.70 mm
Status active
Matching parts [EGS.1M.307.XLC](#)



Image is for illustrative purpose only

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TECHNICAL DETAILS

Mechanics

Shell Style/Model FG*: Straight plug with arctic grip and mold stop
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 7.58 g

Performance

Configuration 1M.307 : 7 Low Voltage
Insulator L: PEEK
Rated Current 7.0 Amps

Specifications

Contact Type: Crimp
Contact Retention: 22 N
Contact Dia.: 0.7 mm (0.028in)
Bucket Dia.: 0.8 mm (0.031in)
Min. Conductor: 0.14 mm² (AWG 26)
Max. Conductor: 0.34 mm² (AWG 22)
R (max): 6.1 mOhm
Test voltage (kV rms) Contact-contact: 1.45

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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]

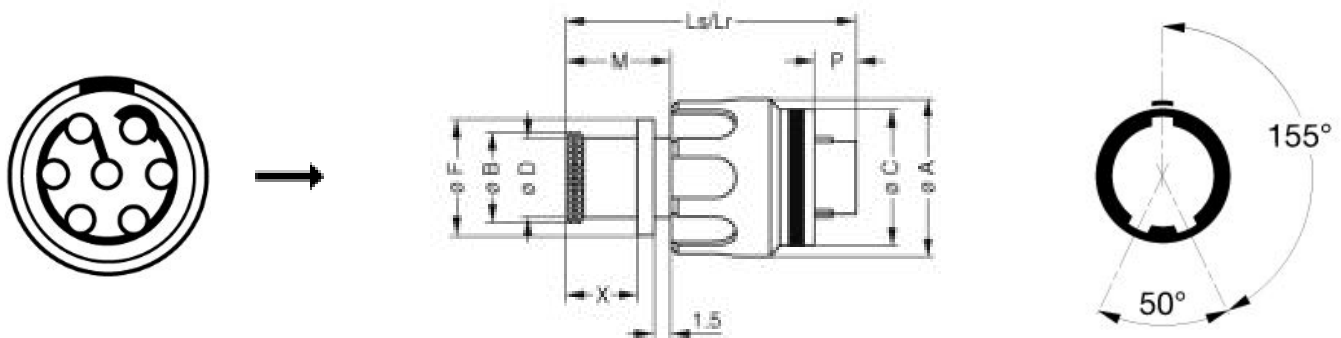
Lighting strike EIA 364-75: 10K amps - 6 times

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.	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

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Tools

Crimp Tool:	DPC.91.701.V
Crimp settings:	AWG/Selector = 22-24-26/6-5-5
Positionner:	DCE.91.070.3MVM
Extractor:	DCF.93.070.4LT
Replacement contact:	EGN.0M.655.ZZM

Cables

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