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FGN.1M.308.XLCM

SUMMARY

Wires

Low voltage	**8**



Image is for illustrative purpose only

Series	1M
Termination type	Male crimp
IP rating	68
AWG wire size	26.00 - 22.00
Cable Ø	4.85 - 9.70 mm
Status	active
Matching parts	EGN.1M.308.XLM

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See video assembly instructions

TECHNICAL DETAILS

Mechanics

Shell Style/Model	FG*: Straight plug with arctic grip and MIL spec backend
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	7.94 g

Performance

Configuration	1M.308 : 8 Low Voltage
Insulator	L: PEEK
Rated Current	5.0 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 mm^2 (AWG 26)
Max. Conductor: 0.34 mm^2 (AWG 22)
R (max): 6.1 mOhm
Test voltage (kV rms) Contact-contact: 1.3

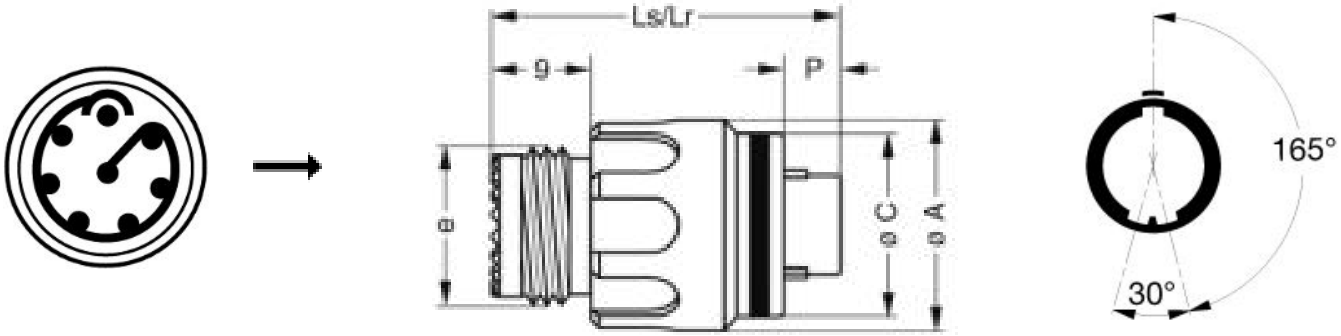
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Test voltage (kV rms) Contact-shell: 1.1

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	C	Lr	Ls	P	e
mm.	15.9	14.2	26.4	26.4	3.9	M12x1.0
in.	0,63	0,56	1,04	1,04	0,15	

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.91.070.5MVC
Extractor:	DCF.93.070.4LT
Replacement contact:	FGN.0M.555.ZZC

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