

SUMMARY

Wires

Low voltage	5
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Image is for illustrative purpose only

Series	1M
Termination type	Female crimp
IP rating	68
AWG wire size	24.00 - 20.00
Cable Ø	4.85 - 9.70 mm
Status	active
Matching parts	FMN.1M.305.XLC

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TECHNICAL DETAILS

Mechanics

Shell Style/Model	EG*: Fixed receptacle, nut fixing
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	4.67 g

Performance

Configuration	1M.305 : 5 Low Voltage
Insulator	L: PEEK
Rated Current	9.0 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 mm ² (AWG 24)
Max. Conductor:	0.5 mm ² (AWG 20)
R (max):	4.8 mOhm
Test voltage (kV rms)	Contact-contact: 1.3

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Test voltage (kV rms) Contact-shell: 1.3

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]

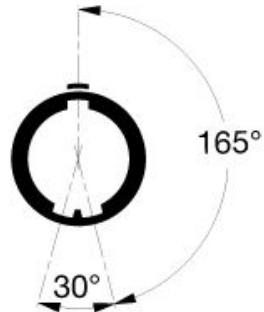
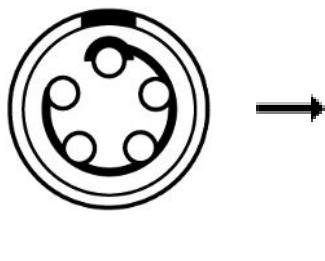
Lighting strike EIA 364-75: 10K amps - 6 times

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

	C	D	E	Ls	Ls	P	S1	S2	e
mm.	14.2	6.8	4.5	18.3	18.3	5.3	9.5	13	M11x1.0
in.	0,56	0,27	0,18	0,72	0,72	0,21	0,37	0,51	

RECOMMENDED BY LEMO

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Tools

Crimp Tool:	<u>DPC.91.701.V</u>
Crimp settings:	AWG/Selector = 20-22-24/6-5-5
Positionner:	<u>DCE.91.090.3MVM</u>
Extractor:	<u>DCF.93.090.4LT</u>
Replacement contact:	EGN.0M.660.ZZM

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