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PEN.1M.305.XLMT

SUMMARY

Wires

Low voltage	**5**



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.XLCT

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TECHNICAL DETAILS

Mechanics

Shell Style/Model	PE*: Fixed receptacle, nut fixing 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	8.27 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

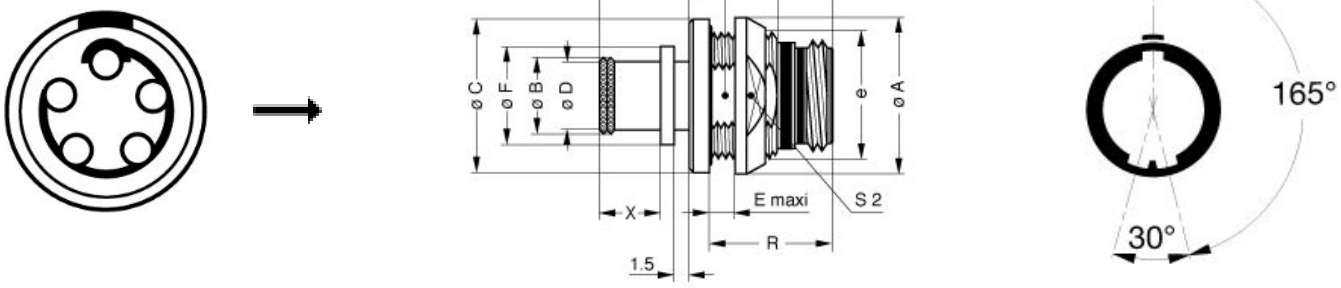
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Test voltage (kV rms) Contact-shell: 1.3

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

	A	B	C	D	E	Lr	Ls	M	P	R	S1	S2	e
mm.	18	10.5	17.8	9.7	5	25.6	25.6	9.7	5.3	13.8	12.5	16	M14x1.00
in.	0,71	0,41	0,70	0,38	0,20	1,01	1,01	0,38	0,21	0,54	0,49	0,63	

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:	DCF.93.090.4LT
Replacement contact:	EGN.0M.660.ZZM
Spanner wrench:	DCM.65.000.4PA

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