

## SUMMARY

### # Wires

Low voltage 5



*Image is for illustrative purpose only*

Series	1M
Termination type	Male crimp
IP rating	68 mated (mating interface)
AWG wire size	24.00 - 20.00
Cable Ø	4.85 - 9.70 mm
Status	Active
Matching parts	<a href="#">FMS.1M.305.XLM</a>

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## TECHNICAL DETAILS

### Mechanics

Shell Style/Model	ED*: Fixed receptacle with square flange
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	5.28 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<sup>2</sup> (AWG 24)  
 Max. Conductor: 0.5 mm<sup>2</sup> (AWG 20)  
 R (max): 4.8 mOhm  
 Test voltage (kV rms) Contact-contact: 1.3

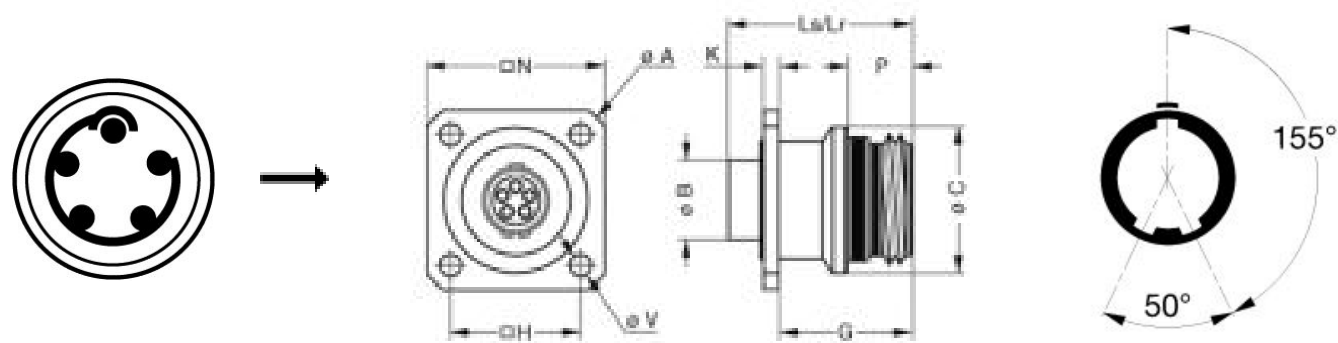
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Test voltage (kV rms) Contact-shell: 1.3

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	G	H	K	Lr	Ls	N	P	SV
mm.	23.8	5.95	14.2	12.8	12.9	1.5	18.3	18.3	18.4	5.3	3.3
in.	0,94	0,23	0,56	0,50	0,51	0,06	0,72	0,72	0,72	0,21	0,13

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## Tools

Crimp Tool:	<a href="#">DPC.91.701.V</a>
Crimp settings:	AWG/Selector = 20-22-24/6-5-5
Positionner:	<a href="#">DCE.91.090.5MVC</a>
Extractor:	<a href="#">DCC.09.05B.LAG</a>
Replacement contact:	FGN.0M.560.ZZC

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