

## SUMMARY

### # Wires

Low voltage	12
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*Image is for illustrative purpose only*

Series	2M
Termination type	Male print PCB
IP rating	68 when mated
AWG wire size	0.00 - 0.00
Cable Ø	0.00 - 0.00 mm
Status	active
Matching parts	<a href="#">FMS.2M.312.XLM</a>

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[PCB Eagle Pattern](#)  
[PCB Altium Pattern](#)  
[PCB KiCad Pattern](#)  
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## TECHNICAL DETAILS

### Mechanics

Shell Style/Model	ED*: Fixed receptacle with square flange for printed circuit
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	35.36 g

### Performance

Configuration	2M.312 : 12 Low Voltage
Insulator	L: PEEK
Rated Current	7 Amps

### Specifications

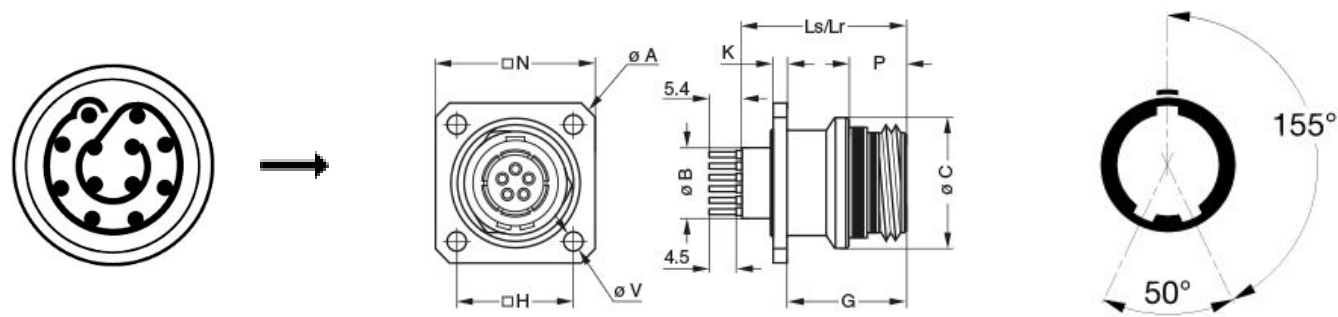
Contact Type: Print (straight)  
Contact Dia.: 0.7 mm (0.028in)  
R (max): 6.1 mOhm  
Test voltage (kV rms) Contact-contact: 1.65  
Test voltage (kV rms) Contact-shell: 1.15

### Others

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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.	26.9	8.95	17.2	12.8	15.1	1.5	18.3	18.3	20.6	5.3	3.3
in.	1,06	0,35	0,68	0,50	0,59	0,06	0,72	0,72	0,81	0,21	0,13

# RECOMMENDED BY LEMO

## Tools

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