

## SUMMARY

### # Wires

Low voltage 10



*Image is for illustrative purpose only*

Series	2M
Termination type	Male crimp
IP rating	68 mated (mating interface)
AWG wire size	24.00 - 20.00
Cable Ø	6.50 - 13.00 mm
Status	Active
Matching parts	<a href="#">ECN.2M.310.XRM8</a>

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## TECHNICAL DETAILS

### Mechanics

Shell Style/Model	FG*: Straight plug with arctic grip
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	10.14 g

### Performance

Configuration	2M.310_8 : 8 (0.7 mm) + 2 (1.3 mm) Low Voltage
Insulator	R: PEEK (mixed multipole)
Rated Current	8 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: 1.8

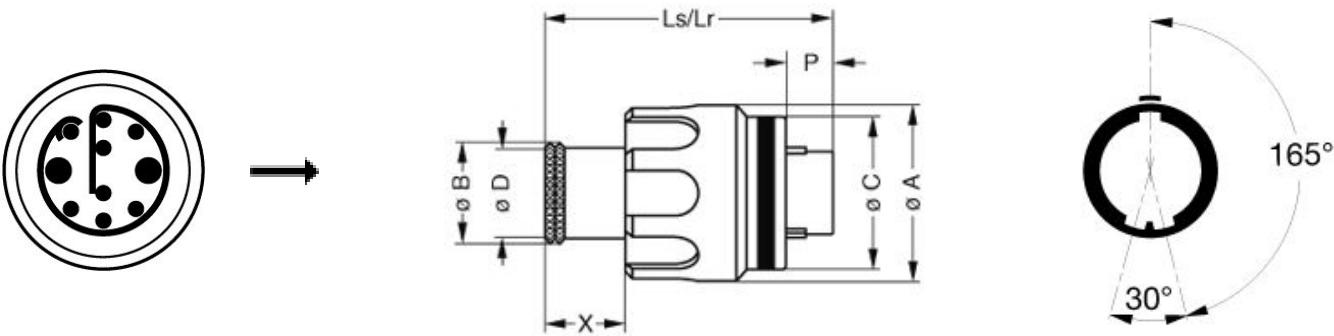
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Test voltage (kV rms) Contact-shell: 1.2

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	Lr	Ls	P	X
mm.	18.9	14	17.2	13	24.5	24.5	3.9	7.1
in.	0,74	0,55	0,68	0,51	0,96	0,96	0,15	0,28

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## Tools

Crimp Tool:	<a href="#">DPC.91.701.V</a>
Crimp settings:	AWG/Selector = 22-24-26 16-18-20/6-5-5 8-7-7
Positionner:	<a href="#">DCE.91.070.5MVC</a>
Positionner 2:	<a href="#">DCE.91.130.5MVC</a>
Extractor:	<a href="#">DCF.93.131.4LT</a>
Extractor 2:	<a href="#">DCF.93.070.4LT</a>
Replacement contact:	FGN.0M.555.ZZC / FGN.0M.565.ZZC

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