

## SUMMARY

### # Wires

Low voltage	2
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*Image is for illustrative purpose only*

Series	1M
Termination type	Female crimp
IP rating	68
AWG wire size	20.00 - 16.00
Cable Ø	4.85 - 9.70 mm
Status	active
Matching parts	<a href="#">FMN.1M.302.XLCT</a>

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[Catalog](#)

## 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	7.93 g

### Performance

Configuration	1M.302 : 2 Low Voltage
Insulator	L: PEEK
Rated Current	19.0 Amps

### Specifications

Contact Type:	Crimp
Contact Retention:	40 N
Contact Dia.:	1.3 mm (0.051in)
Bucket Dia.:	1.4 mm (0.055in)
Min. Conductor:	0.5 mm <sup>2</sup> (AWG 20)
Max. Conductor:	1 mm <sup>2</sup> (AWG 18)
R (max):	3.6 mOhm

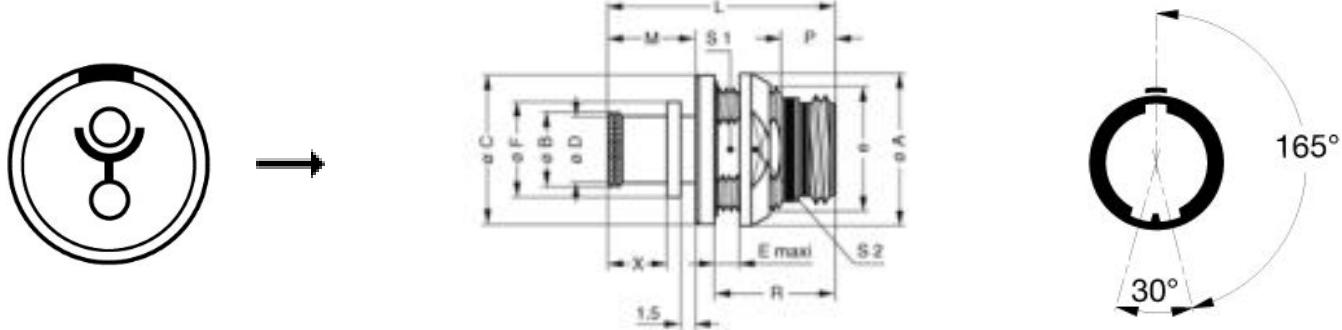
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## Others

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]  
Lightning 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

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## 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	

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## RECOMMENDED BY LEMO

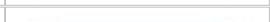
### Tools

Crimp Tool: [DPC.91.701.V](#)

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Crimp settings: AWG/Selector = 16-18-20/8-7-7  
 Positionner: [DCE.91.130.5MVM](#)  
 Extractor: [DCF.93.131.4LT](#)  
 Replacement contact: EGN.0M.665.ZZM  
 Spanner wrench: [DCM.65.000.4PA](#)

## Cables

CMN.02.T18.064UNCU			
102080	PVC	Grey	
120184	PVC	Black	
120500	PVC	Grey	
120501	PVC	Grey	
120751	PVC	Grey	
220151	PVC	Grey	
220750	PVC	Grey	
320150	PVC	Grey	

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