

## SUMMARY

### # Wires

Low voltage	3
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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

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## TECHNICAL DETAILS

### Mechanics

Shell Style/Model	FG*: Straight plug with arctic grip and MIL spec backend
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	7.40 g

### Performance

Configuration	1M.303 : 3 Low Voltage
Insulator	L: PEEK
Rated Current	15.5 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

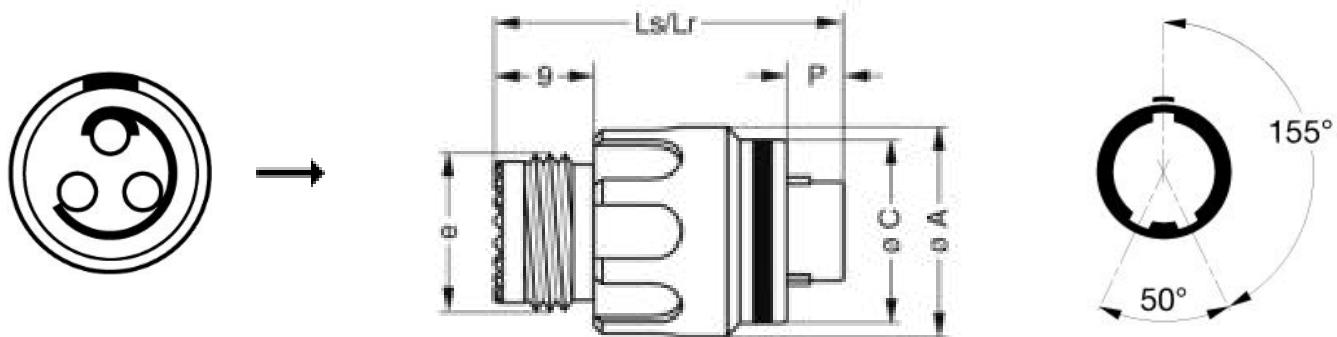
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## Others

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	C	Lr	Ls	P	e
mm.	15.9	14.2	26.4	26.4	3.9	M12x1.0
in.	0,63	0,56	1,04	1,04	0,15	

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## RECOMMENDED BY LEMO

### Tools

Crimp settings: AWG/Selector = 16-18-20/8-7-7

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Positionner: [DCE.91.130.5MVM](#)

Extractor: [DCF.93.131.4LT](#)

Replacement contact: EGN.0M.665.ZZM

## Cables

CMN.03.T18.055PGZE		Grey	
CMN.03.T18.055PNZE			
CMN.03.T18.055QGZE	TPR (medical)	Grey	
CMN.03.T20.049PGZE		Grey	
CMN.03.T20.049PNZE			
230500	PVC	Grey	
230750	PVC	Grey	
3220	PVC	Black	
330150	PVC	Grey	

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