

## SUMMARY

### # Wires

Low voltage	8
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*Image is for illustrative purpose only*

Series	1M
Termination type	Male crimp
IP rating	68
AWG wire size	26.00 - 22.00
Cable Ø	4.85 - 9.70 mm
Status	active
Matching parts	<a href="#">PEN.1M.308.CLMT</a>

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[Catalog](#)

[See video assembly instructions](#)

## TECHNICAL DETAILS

### Mechanics

Shell Style/Model	FG*: Straight plug with arctic grip and mold stop
Keying	3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Housing Material	Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces
Weight	14.86 g

### Performance

Configuration	1M.308 : 8 Low Voltage
Insulator	L: PEEK
Rated Current	5.0 Amps

### Specifications

Contact Type:	Crimp
Contact Retention:	22 N
Contact Dia.:	0.7 mm (0.028in)
Bucket Dia.:	0.8 mm (0.031in)
Min. Conductor:	0.14 mm <sup>2</sup> (AWG 26)
Max. Conductor:	0.34 mm <sup>2</sup> (AWG 22)
R (max):	6.1 mOhm
Test voltage (kV rms)	Contact-contact: 1.3

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Test voltage (kV rms) Contact-shell: 1.1

## Others

Endurance (Shell): 3000 mating cycles

Temp (min / max): -55°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]

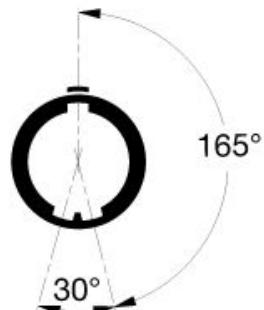
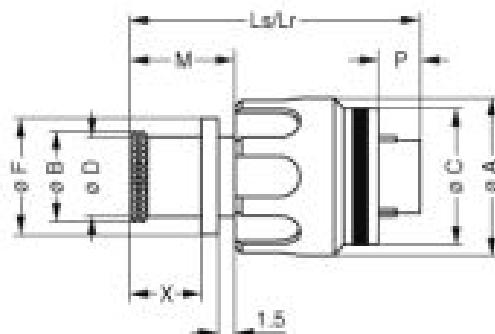
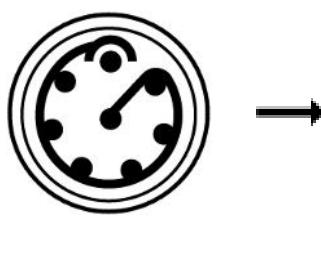
Lighting strike EIA 364-75: 10K amps - 6 times

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: >1000 hr

## DRAWINGS



## Dimensions

	A	B	C	D	F	Lr	Ls	M	P	X
mm.	15.9	10.5	14.2	9.7	12.4	27.1	27.1	9.7	3.9	6.7
in.	0,63	0,41	0,56	0,38	0,49	1,07	1,07	0,38	0,15	0,26

## RECOMMENDED BY LEMO

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## Tools

Crimp Tool:	<a href="#"><u>DPC.91.701.V</u></a>
Crimp settings:	AWG/Selector = 22-24-26/6-5-5
Positionner:	<a href="#"><u>DCE.91.070.5MVC</u></a>
Extractor:	<a href="#"><u>DCF.93.070.4LT</u></a>
Replacement contact:	FGN.0M.555.ZZC

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