

Special



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Summary

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M series

Number of contacts Low Voltage	3
Wire Size/AWG	20 - 16
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Panel Drill Hole	M14
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Suggested matching part	FMN.1M.303.ILCT
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/catalog/product/view/id/587955/s/pen-1m-303-ilmt/category/56/

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Technical details

Electrical Configuration

Number of contacts Low Voltage	3
Contact Termination Low voltage	Crimp
R (max)	3.6 mOhm
Insert configuration value	1M.303 - 3 Low Voltage
Insulator	L: PEEK
Rated current	15.5 A
Contact retention	40 N
Max. Conductor	1 mm ² (AWG 18)
Min. Conductor	0.5 mm ² (AWG 20)
Bucket Dia.	1.4 mm (0.055in)
Contact Dia.	1.3 mm (0.051in)
Wire Size/AWG	20 - 16
Gender	Standard

Form & Material

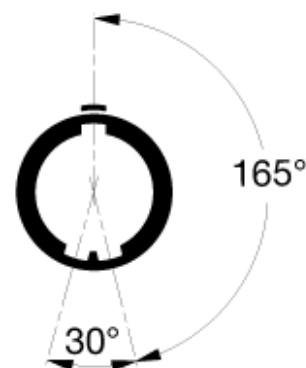
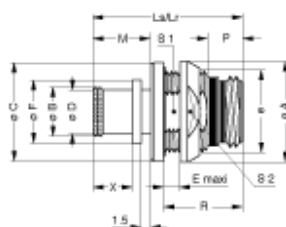
Shell style / Model id	PE - Fixed receptacle, nut fixing and mold stop
Socket / Receptacle	Fixed Panel Rear Mounted
Housing material	Aluminium (NiCorAl Nickel fluorocarbon polymer, anthracite color) shell and nut, other pieces bronze/brass
Locking system	Ratchet
Keying	3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	8.4 g
Panel Drill Hole	M14

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Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Endurance	3000 mating cycles
Temperature range	-20°C / +200°C (max. temperature valid for short periods of use.)
EMI Shielding EIA 364-66A	>= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz), >= 40 dB (10 GHz)
Gunfire vibration	25 Hz - 2000 Hz, 3 axis (Apache helicopter)
Humidity (max)	21 days at 95%
Lighting strike EIA 364-76	10K amps - 6 times
Shock Resistance	300 g [3 ms]
Thermal shock	5 cycles: -65°C to +150°C
Vibration-Random	37.8 g rms - 3 axes, 4 hr amb [50 Hz - 2000 Hz]
Vibration-Sine	30 g, 3 axes, 12 hr [10 Hz - 2000 Hz]
Salt Spray Corrosion	max. 500 hr

Cable termination protection	For overmolding
Fixation type	Mold stop (overmolding)
Jacket cable outside diameter [mm]	4.85 - 9.70 mm



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Dimensions

	A	B	C	D	E	e	Ls	Lr	M	P	R	S1	S2
mm.	18	10.5	17.8	9.7	5	M14x1.00	25.6	25.6	9.7	5.3	13.8	12.5	16
in.	0.71	0.41	0.7	0.38	0.2		1.01	1.01	0.38	0.21	0.54	0.49	0.63

Recommended By Lemo

Accessories

Replacement contact [EGN.0M.665.ZZM](#)

Tools










Spanner 2 [DCM.65.160.AZ](#)

Positionner [DCE.91.130.5MVM](#)

Extraction tool [DCC.13.15B.LAG](#)

Spanner wrench [DCM.65.160.AZ](#)

Cables

Cable PartNumber	Material	Colour	Cable image
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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