FMN.1M.303.XLCT





Image for illustrative purpose only

Summary

Request a quote	
Catalog	
See video assembly instructions	
Number of contacts Low Voltage	3
Wire Size/AWG	20 - 16
Gender	Standard
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Suggested matching part	PMN.1M.303.XLM
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-1m-303-xlct.html

Technical details

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	FM - Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip and mold stop
Plug	Straight
Housing material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass
Locking system	Ratchet
Keying	N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	7.04 g

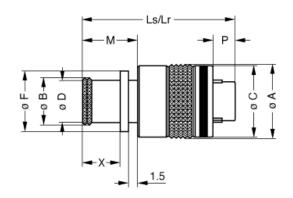
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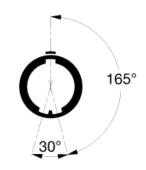
Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV		
Environmental sealing (IP rating)	IP68		
Endurance	3000 mating cycles		
Temperature range	-55°C / +200°C (max. temperature valid for short periods of use.)		
EMI Shielding EIA 364-66A >= 80 dB (1 GHz), >=70 dB (3 GHz), 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. 48 hr		
Cable fixation			
Cable termination protection	For overmolding		
Fixation type	Mold stop (overmolding)		
Jacket cable outside diameter [mm]	4.85 - 9.70 mm		

Drawings







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Dimensions

	Α	В	С	D	F	Ls	Lr	Μ	Ρ	X
mm.	14.6	10.5	14.2	9.7	12.4	27.1	27.1	9.7	3.9	6.7
in.	0.57	0.41	0.56	0.38	0.49	1.07	1.07	0.38	0.15	0.26

Recommended By Lemo

Accessories

Replacement contact	FGN.0M.565.ZZC
Compatible cap	BMF.1M.100.XAV
Tools	
Positionner	DCE.91.130.5MVC
Extraction tool	DCF.93.131.4LT

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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