FGN.1M.303.XLCT





Summary

Request a quote

Catalog		
See video assembly instructions		
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	
Matching parts	EGN.1M.303.XLM	
Series	M - Rugged Ratchet coupling	

Technical details

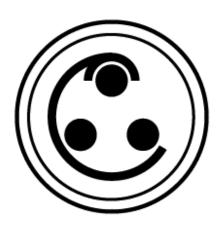
Electrical Configuration

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 Amps		
Contact retention	40 N		
Contact Type	Crimp		
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)		
Low Voltage	3		
Wire Size/AWG	20 - 16		
Gender	Standard		
orm & Material			
Shell style / Model id	FG - Straight plug with arctic 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	3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)		
Weight	7.4 g		

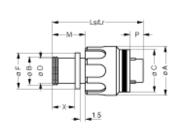
Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV			
Environmental protection (IP rating)	IP68			
Minimal temperature	-20°C / +200°C			
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. 48 hr			
Cable fixation				
Cable termination protection	For overmolding			
Fixation type	T type cable adapter			

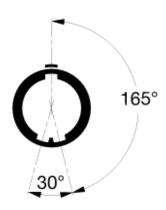
Drawings



Jacket cable outside diameter [mm]



4.85 - 9.70 mm



Dimensions

	A	В	С	D	F	Ls	Lr	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

$\underline{https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgn-1m-303-xlct.html}$

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Recommended By Lemo

Accessories

Replacement contact	FGN.0M.565.ZZC
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	