



Image for illustrative purpose only

Summary

Request a quote

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	EGN.1M.303.XLM	
Series	M - Rugged Ratchet coupling	

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	
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	N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)	
Colour	Grey	
Weight	7.4 g	

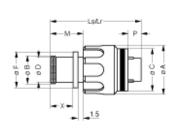
Environment

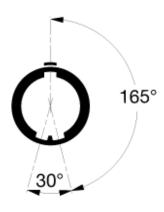
Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV		
Environmental sealing (IP rating)	IP68		
Endurance	3000 mating cycles		
Temperature range	-55°C / +200°C		
EMI Shielding EIA 364-66A	>= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz), >= 40 dB (10 GHz)		
Gunfire 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	Mold stop (overmolding)		
Jacket cable outside diameter [mm]	4.85 - 9.70 mm		

Drawings







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	
Compatible cap	BGF.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	3