### FGN.1M.302.XLC





### **Summary**

Request a quote

Catalog

See video assembly instructions

Low Voltage	2
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.302.XLM
Series	M - Rugged Ratchet coupling

# **Technical details**

https://www.lemo.com/int\_en/solutions/optima/m-ratchet-coupling/fgn-1m-302-xlc.html

### **Electrical Configuration**

Contact Termination Low voltage	Crimp
R (max)	3.6 mOhm
Insert configuration value	1M.302 - 2 Low Voltage
Insulator	L: PEEK
Rated current	19 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	2
Wire Size/AWG	20 - 16
Gender	Standard
Form & Material	
Shell style / Model id	FG - Straight plug with arctic grip
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	6.89 g

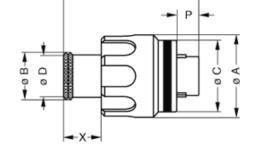
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### Environment

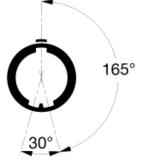
Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV		
Environmental protection (IP rating)	IP68		
Minimal temperature	-20°C / +200°C		
EMI Shielding EIA 364-66A	>= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz), >= 40 dB (10 GHz)		
Gunfire vibration 25 Hz - 2000 Hz, 3 axis (Apache heli			
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	Heatshrink		
Fixation type	Cable collet		
Jacket cable outside diameter [mm]	4.85 - 9.70 mm		

# **Drawings**





Ls/Lr-



### **Dimensions**

	Α	В	С	D	Ls	Lr	Ρ	X
mm.	15.9	10.5	14.2	9.7	24.1	24.1	3.9	6.7
in.	0.63	0.41	0.56	0.38	0.95	0.95	0.15	0.26

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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
Crimp tool	DPC.91.701.V

# Cables

Cable PartNumber	Material	Colour	Cable image			
CMN.02.T18.064UNCU	CMN.02.T18.064UNCU					
102080	PVC	Grey				
120184	PVC	Black				
120500	PVC	Grey				
120501	PVC	Grey				
120751	PVC	Grey				
220151	PVC	Grey				
220750	PVC	Grey				
320150	PVC	Grey				

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