## **FMN.1M.302.XLC**





## **Summary**

### Request a quote

Catalog		
See video assembly instructions		
Law Malka wa	2	
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**

### **Electrical Configuration**

<b>j</b>	
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	FM - Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled 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	6.54 g

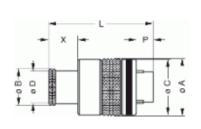
#### **Environment**

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	Heatshrink		
Fixation type	Cable collet		

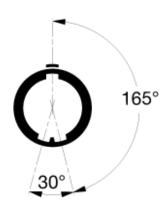
# **Drawings**



Jacket cable outside diameter [mm]



4.85 - 9.70 mm



### **Dimensions**

	A	В	С	D	Ls	Lr	P	X	
mm.	14.6	10.5	14.2	9.7	24.1	24.1	3.9	6.7	
in.	0.57	0.41	0.56	0.38	0.95	0.95	0.15	0.26	

### $\underline{https://www.lemo.com/int\_en/solutions/optima/m-ratchet-coupling/fmn-1m-302-xlc.html}$

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# **Recommended By Lemo**

#### **Accessories**

Replacement contact	FGN.0M.565.ZZC	FGN.0M.565.ZZC		
Tools				
Positionner	DCE.91.130.5MVC			
Extraction tool	DCF.93.131.4LT			
Crimp tool	DPC.91.701.V			

## **Cables**

Material	Colour	Cable image
PVC	Grey	
PVC	Black	
PVC	Grey	<b>-5</b> .
PVC	Grey	<b>3</b>
PVC	Grey	<b>3</b>
PVC	Grey	<del>2</del>
PVC	Grey	<b>3</b>
PVC	Grey	<b>&gt;</b>
	PVC PVC PVC PVC PVC PVC	PVC Grey  PVC Grey