# FMN.MM.304.XLC





# **Summary**

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### See video assembly instructions

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Number of contacts Low Voltage	4
Wire Size/AWG	32 - 28
Gender	Standard
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	2.80 - 5.60 mm
Size	ММ
Matching parts	EGN.MM.304.XLM
Series	M - Rugged Ratchet coupling

## **Technical details**

## **Electrical Configuration**

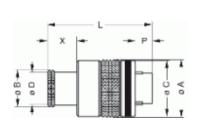
Contact Termination Low voltage	Crimp
R (max)	8.7 mOhm
Insert configuration value	MM.304 - 4 Low Voltage
Insulator	L: PEEK
Rated current	2 Amps
Contact retention	12 N
Contact Type	Crimp
Max. Conductor	0.09 mm^2 (AWG 28)
Min. Conductor	0.035 mm^2 (AWG 32)
Bucket Dia.	0.45 mm (0.018in)
Contact Dia.	0.5 mm (0.02in)
Number of contacts Low Voltage	4
Wire Size/AWG	32 - 28
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	4.25 g

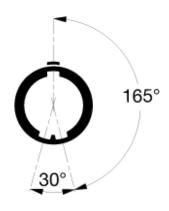
#### **Environment**

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				
Jacket cable outside diameter [mm]	2.80 - 5.60 mm				

# **Drawings**







## **Dimensions**

	A	В	C	D	Ls	Lr	P	X	
mm.	11.1	6.4	10.7	5.6	21.3	21.3	5.5	5.8	
in.	0.44	0.25	0.42	0.22	0.84	0.84	0.22	0.23	

### $\underline{https://www.lemo.com/int\_en/solutions/optima/m-ratchet-coupling/fmn-mm-304-xlc.html}$

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