## ECN.1M.305.XLM





Image for illustrative purpose only

# **Summary**

#### Request a quote

### Catalog

Number of contacts Low Voltage	5
Wire Size/AWG	24 - 20
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Front Mounted
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Suggested matching part	FMN.1M.305.XLC
Series	M - Rugged Ratchet coupling

# **Technical details**

### **Electrical Configuration**

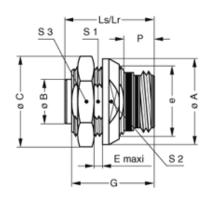
Licetifical configuration							
Number of contacts Low Voltage	5						
Contact Termination Low voltage	Crimp						
R (max)	4.8 mOhm						
Insert configuration value	1M.305 - 5 Low Voltage						
Insulator	L: PEEK						
Rated current	9 A						
Test voltage (kV rms) Contact-contact	1.3						
Test voltage (kV rms) Contact-shell	1.3						
Contact retention	30 N						
Max. Conductor	0.5 mm² (AWG 20)						
Min. Conductor	0.25 mm² (AWG 24)						
Bucket Dia.	1.1 mm (0.043in)						
Contact Dia.	0.9 mm (0.035in)						
Wire Size/AWG	24 - 20						
Gender	Standard						
Form & Material							
Shell style / Model id	EC - Fixed receptacle with two nuts						
Socket / Receptacle	Fixed Panel Front Mounted						
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	9.73 g						

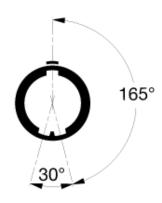
#### **Environment**

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV					
Environmental sealing (IP rating)	IP50					
Endurance	3000 mating cycles					
Temperature range	-20°C / +200°C (max. temperature valid for short periods of use.)					
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						
Jacket cable outside diameter [mm]	4.85 - 9.70 mm					

# **Drawings**







## **Dimensions**

	Α	В	C	E	е	G	Ls	Lr	P	S1	<b>S2</b>	<b>S3</b>
mm.	18	5.95	19.2	5	M14x1.00	16.8	18.3	18.3	5.3	12.5	16	17
in.	0.71	0.23	0.76	0.2		0.66	0.72	0.72	0.21	0.49	0.63	0.67

#### $\underline{https://www.lemo.com/int\_en/solutions/optima/m-ratchet-coupling/ecn-1m-305-xlm.html}$

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

# **Recommended By Lemo**

#### **Accessories**

Replacement contact	EGN.0M.660.ZZM	
Compatible cap	BGK.1M.200.XAZ	
Tools		
Spanner 2	DCM.65.160.AZ	
Positionner	DCE.91.090.3MVM	
Extraction tool	DCC.09.05B.LAG	
Crimp tool	DPC.91.701.V	
Spanner wrench	DCM.65.160.AZ	