FMN.3M.330.XLCM





Summary

Request a quote

Catalog

See video assembly instructions

Number of contacts	30		
Wire Size/AWG	26 - 22		
Gender	Standard		
Plug	Plug - Straight		
Locking system	Ratchet		
Jacket cable outside diameter [mm]	7.50 - 15.00 mm		
Size	3M		
Matching parts	PEN.3M.330.XLMM		
Series	M - Rugged Ratchet coupling		

Technical details

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-3m-330-xlcm.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.

Electrical Configuration

Contact Termination Low voltage	Crimp
R (max)	6.1 mOhm
Insert configuration value	3M.330 - 30 Low Voltage
Insulator	L: PEEK
Rated current	3.5 Amps
Test voltage (kV rms) Contact-contact	1.10
Test voltage (kV rms) Contact-shell	1.00
Contact retention	22 N
Contact Type	Crimp
Max. Conductor	0.34 mm^2 (AWG 22)
Min. Conductor	0.14 mm^2 (AWG 26)
Bucket Dia.	0.8 mm (0.031in)
Contact Dia.	0.7 mm (0.028in)
Number of contacts	30
Wire Size/AWG	26 - 22
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 and MIL-DTL-38999L shell thread
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	15.52 g

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-3m-330-xlcm.html

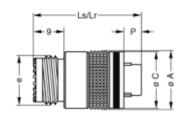
LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO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

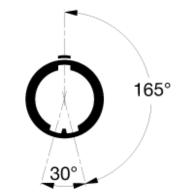
Environment

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	For backshell MIL-DTL-38999M			
Fixation type	MIL-DTL-38999M			
Jacket cable outside diameter [mm]	7.50 - 15.00 mm			

Drawings







Dimensions

	Α	С	е	Ls	Lr	Ρ
mm.	19.6	19.2	M18x1.0	26.4	26.4	3.9
in.	0.77	0.76		1.04	1.04	0.15

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-3m-330-xlcm.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.