### **FMN.3M.330.XLCM**





Image for illustrative purpose only

## **Summary**

#### Request a quote Catalog See video assembly instructions Number of contacts Low Voltage 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 Suggested matching part PEN.3M.330.XLMM Series M - Rugged Ratchet coupling

# **Technical details**

#### **Electrical Configuration**

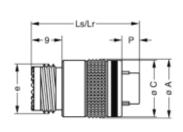
Number of contacts Low Voltage	30	
Contact Termination Low voltage	Crimp	
R (max)	6.1 mOhm	
Insert configuration value	3M.330 - 30 Low Voltage	
Insulator	L: PEEK	
Rated current	3.5 A	
Test voltage (kV rms) Contact-contact	1.10	
Test voltage (kV rms) Contact-shell	1.00	
Contact retention	22 N	
Max. Conductor	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)	
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	
Aluminium (nickel plated [SAE AMS QQ N anthracite color) shell and nut, other piec bronze/brass		
Locking system	Ratchet	
Keying	N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)	
Colour	Grey	
Weight	15.52 g	

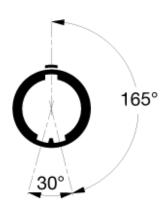
#### **Environment**

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV		
Environmental sealing (IP rating)	IP68		
Endurance	3000 mating cycles		
Temperature range	-55°C / $\pm$ 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			
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	P	
mm.	19.6	19.2	M18x1.0	26.4	26.4	3.9	
in.	0.77	0.76		1.04	1.04	0.15	

# **Recommended By Lemo**

#### **Accessories**

Replacement contact	FGN.0M.555.ZZC
Compatible cap	BMF.3M.100.XAV
Tools	
Positionner	DCE.91.070.5MVC
Extraction tool	DCF.93.070.4LT
Crimp tool	DPC.91.701.V