FMN.3M.330.XLCT

Summary

Request a quote

Catalog

See video assembly instructions

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
Matching parts	PMN.3M.330.XLMT
Series	M - Rugged Ratchet coupling

Technical details

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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)
Low Voltage	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 mold stop
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	15.01 g

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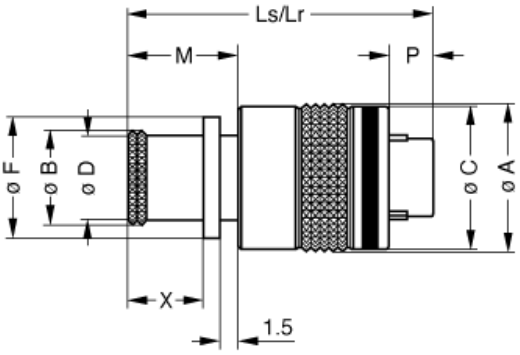
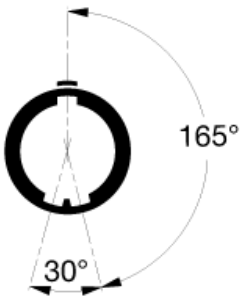
Environment	
Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental protection (IP rating)	IP68
Minimal temperature	-20°C / +200°C
EMI Shielding EIA 364-66A	>= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz), >= 40 dB (10 GHz)
Gunfire vibration	25 Hz - 2000 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 overmolding
Fixation type	T type cable adapter
Jacket cable outside diameter [mm]	7.50 - 15.00 mm

Drawings





Dimensions

	A	B	C	D	F	Ls	Lr	M	P	X
mm.	19.6	16	19.2	15	17.5	27.5	27.5	10.1	3.9	7.1
in.	0.77	0.63	0.76	0.59	0.69	1.08	1.08	0.4	0.15	0.28

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