

Standard



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Summary

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M series

Number of contacts Low Voltage	30
Wire Size/AWG	26 - 22
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Jacket cable outside diameter [mm]	7.50 - 15.00 mm
Size	3M
Suggested matching part	FMN.3M.330.XLCT
Series	M - Rugged Ratchet coupling

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

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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
Footprint IPC Class3 compatibility	No
Insulator	L: PEEK
Rated current	3.5 A
Test voltage (kV rms) Contact-contact	1.1
Test voltage (kV rms) Contact-shell	1
Contact retention	22 N
Max. Conductor	0.382 mm ² (AWG 22
Min. Conductor	0.128 mm ² (AWG 26)
Bucket Dia.	0.87 mm (0.027in)
Contact Dia.	0.7 mm (0.028in)
Wire Size/AWG	26 - 22
Gender	Standard

Form & Material

Shell style / Model id	PE - Fixed receptacle, nut fixing and mold stop
Socket / Receptacle	Fixed Panel Rear 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	12 g

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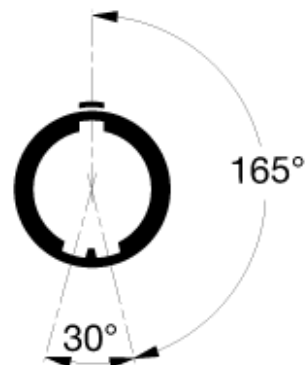
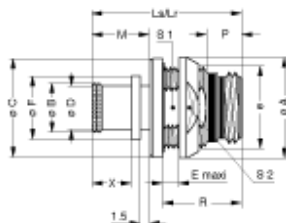
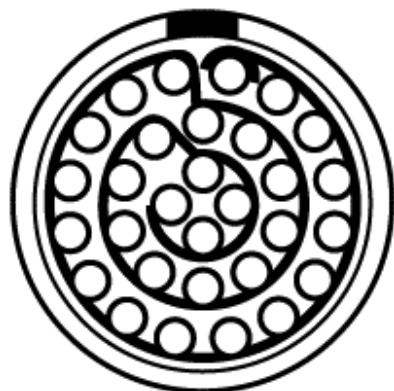
Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Endurance	3000 mating cycles
Temperature range	-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	Mold stop (overmolding)
Jacket cable outside diameter [mm]	7.50 - 15.00 mm
Panel Drill Hole	M19

Drawings



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Dimensions

	A	B	C	D	E	e	Ls	Lr	M	P	R	S1	S2
mm.	23	16	22.8	15	5	M19x1.00	26	26	10.1	5.3	13.8	17.5	20
in.	0.91	0.63	0.9	0.59	0.2		1.02	1.02	0.4	0.21	0.54	0.69	0.79

Recommended By Lemo

Accessories

Replacement contact	EGN.0M.655.ZZM
Compatible cap	BGK.3M.200.XAZ

Tools

Spanner 2	DCM.65.200.AZ
Positionner	DCE.91.070.3MVM
Extraction tool	DCC.07.04B.LAG
Crimp tool	DPC.91.701.V
Spanner wrench	DCM.65.200.AZ

CAD

Documents

Eplan	Download
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