

Special



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Summary

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M series

Number of contacts Low Voltage	68
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Size	LM
Suggested matching part	FMR.LM.368.XLC
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/her-lm-368-xlnp.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	68
Contact Termination Low voltage	PCB - Straight
R (max)	6.1 mOhm
Insert configuration value	LM.368 - 68 (0.7 mm) Low Voltage
Footprint IPC Class3 compatibility	Yes
Class3 Productibility Level Compatibility	A (General Design Producibility - Preferred)
Insulator	L: PEEK
Rated current	2.5 A
Test voltage (kV rms) Contact-contact	1.40
Test voltage (kV rms) Contact-shell	1.65
Contact Dia.	0.7 mm (0.028in)
Gender	Standard

Form & Material

Shell style / Model id	HE - Fixed receptacle, nut fixing for printed circuit, watertight
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	R: 5 keys (alpha=105, beta=115, gamma=30, delta=20, plug: male contacts, receptacle: female contacts)
Colour	Grey
Variant	Watertight unmated (connector to device)
Weight	27.94 g

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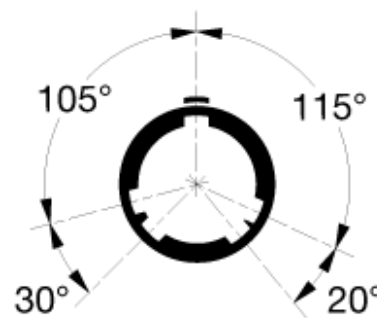
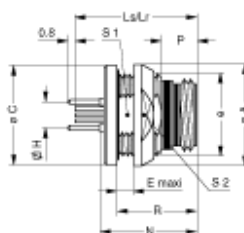
Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Endurance	3000 mating cycles
Temperature range	-20°C / +80°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]
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

Panel Drill Hole	M28
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Drawings



Dimensions

	A	C	e	E	H	LS	Lr	N	P	R	S1	S2
mm.	33	31.8	M28x1.00	4	16.51	24.6	24.6	19.9	7.9	16.9	26.5	29
in.	1.3	1.25		0.16	0.65	0.97	0.97	0.78	0.31	0.67	1.04	1.14

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Recommended By Lemo

Accessories	
Compatible cap	BGK.LM.200.XAZ
Tools	
Spanner 2	DCM.65.290.AZ
Spanner wrench	DCM.65.290.AZ

CAD

Documents	
PCB	Download
PCB Eagle	Download
Kicad	Download
PCB Altium	Download