

Standard



Image for illustrative purpose only

Summary

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[M series](#)

[Application leaflet Security Defence](#)

Number of contacts Low Voltage	12
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Panel Drill Hole	M17
Size	2M
Suggested matching part	FMS.2M.312.XLM
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/hes-2m-312-xldp.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	12
Contact Termination Low voltage	PCB - Straight
R (max) - electrical contact resistance	6.1 mOhm
Insert configuration value	2M.312 - 12 Low Voltage
Footprint IPC Class3 compatibility	Yes
Class3 Productibility Level Compatibility	A (General Design Producibility - Preferred)
Insulator	L: PEEK
Rated current	7 A
Test voltage contact-contact	1.7 kV DC
Test voltage contact-shell	1.6 kV DC
Contact Dia.	0.7 mm (0.028 in)
Gender	Reverse Gender

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	S: 3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts)
Colour	Grey
Variant	Watertight unmated (connector to device)
Weight	8.74 g
Panel Drill Hole	M17

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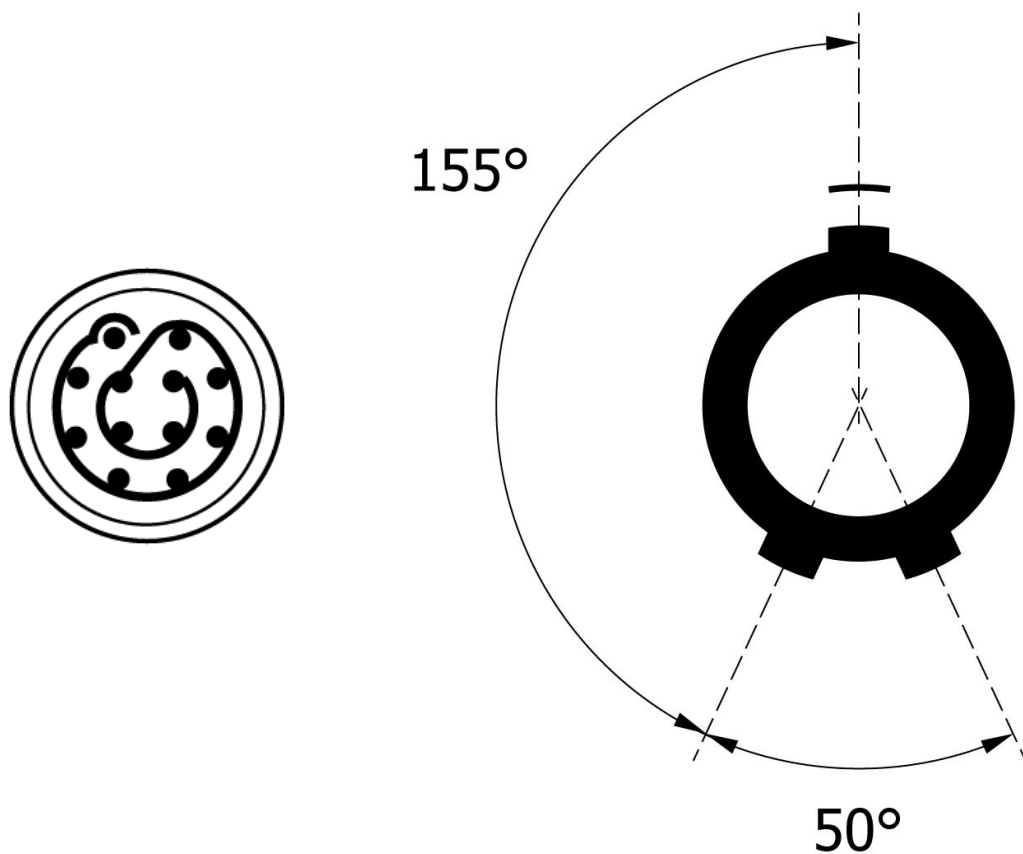
Environment

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

Drawings

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Dimensions

	A	C	e	E	H	Ls	Lr	N	P	R	S1	S2
mm.	21	20.8	M17x1.00	5	8.89	20.8	21	16.8	5.3	13.8	15.5	18
in.	0.83	0.82		0.2	0.35	0.82	0.83	0.66	0.21	0.54	0.61	0.71

Recommended By Lemo

Caps

Compatible cap [BGK.2M.200.XAZ](#)

Cap 2 [BMK.2M.200.XAZ](#)

Tools

Spanner 2 [DCM.65.180.AZ](#)

Spanner wrench [DCM.65.180.AZ](#)

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