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Summary

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Number of contacts Low Voltage	5
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Size	0M
Suggested matching part	FGU.0M.305.LLCV
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/heu-0m-305-llnpv.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	5
Contact Termination Low voltage	PCB - Straight
R (max)	6.1 mOhm
Insert configuration value	0M.305 - 5 Low Voltage
Insulator	L: PEEK
Rated current	6.5 A
Test voltage (kV rms) Contact-contact	1.25
Test voltage (kV rms) Contact-shell	1
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
Locking system	Ratchet
Keying	U: 3 keys (beta=130, gamma=100, plug: male contacts, receptacle: female contacts)
Variant	Watertight / Vacuum-tested unmated (connector to device)
Weight	5.57 g

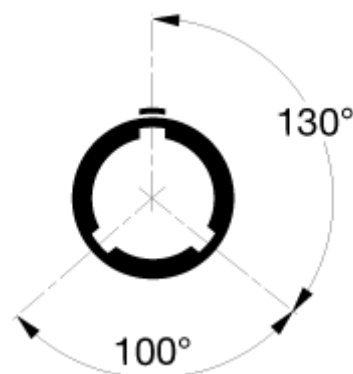
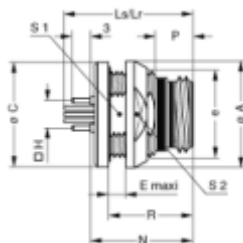
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Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	Hermetic unmated
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]
R leak (He) (max)	0.0000001 mbar*/l/s (if vacuum-tested)

Drawings



Dimensions

	A	C	e	E	H	Ls	Lr	N	P	R	S1	S2
mm.	17	16.8	M13x0.75	5	5.08	20.8	21	16.8	5.3	13.8	11.5	14
in.	0.67	0.66		0.2	0.2	0.82	0.83	0.66	0.21	0.54	0.45	0.55

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Recommended By Lemo

Tools

Spanner wrench

[DCM.65.140.AZ](#)

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/heu-0m-305-lnpv.html

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