

Special



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Summary

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[M series](#)

[Application leaflet Security Defence](#)

Number of contacts Low Voltage	5
Wire Size/AWG	24 - 20
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Fixed Panel Front Mounted
Locking system	Ratchet
Panel Drill Hole	M11
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Suggested matching part	FMS.1M.305.XLM

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/egs-1m-305-xlc.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	5
Contact Termination Low voltage	Crimp
R (max)	4.8 mOhm
Insert configuration value	1M.305 - 5 Low Voltage
Insulator	L: PEEK
Rated current	9 A
Test voltage contact-contact	1.7 kV DC
Test voltage contact-shell	1.7 kV DC
Contact retention	30 N
Max. Conductor	0.5 mm ² (AWG 20)
Min. Conductor	0.25 mm ² (AWG 24)
Bucket Dia.	1.1 mm (0.043in)
Contact Dia.	0.9 mm (0.035in)
Wire Size/AWG	24 - 20
Gender	Reverse Gender

Form & Material

Shell style / Model id	EG - Fixed receptacle, nut fixing
Socket / Receptacle	Fixed Panel Front 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
Weight	4.6 g
Panel Drill Hole	M11

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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 (max. temperature valid for short periods of use.)
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

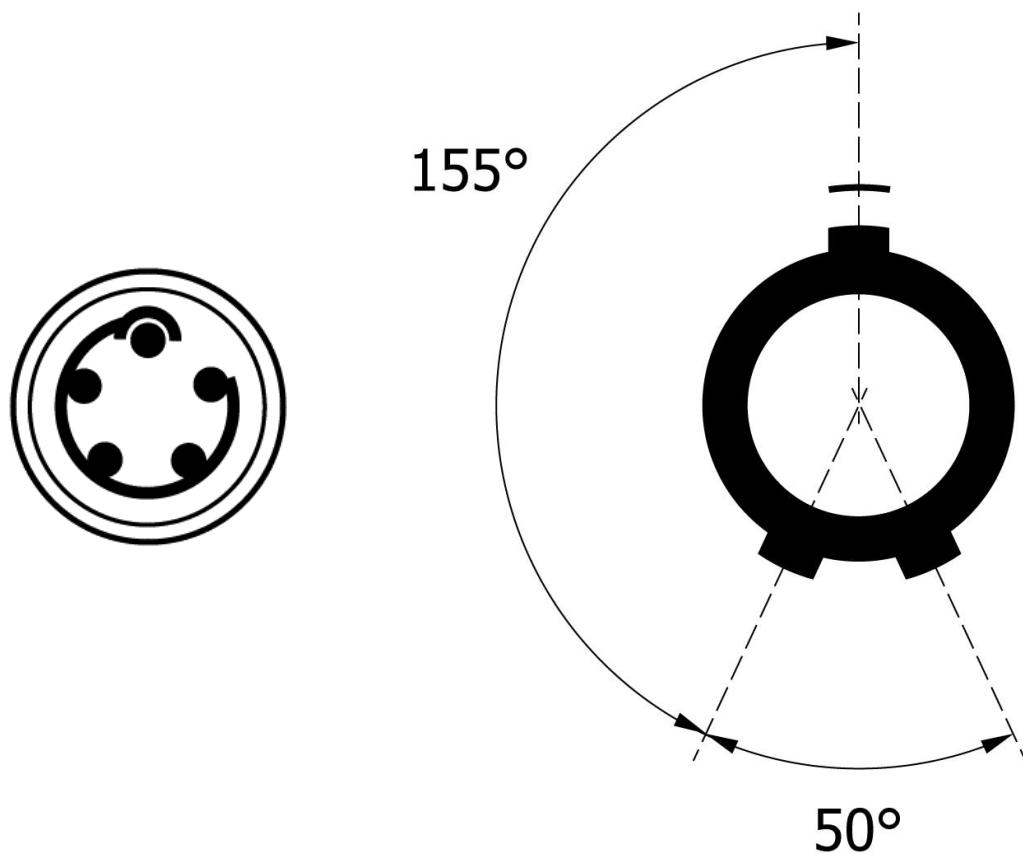
Cable fixation

Jacket cable outside diameter [mm]	4.85 - 9.70 mm
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Drawings

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Dimensions

	C	D	e	E	Ls	Ls	P	S1	S2
mm.	14.2	6.8	M11x1.0	4.5	18.3	18.3	5.3	9.5	13
in.	0.56	0.27		0.18	0.72	0.72	0.21	0.37	0.51

Recommended By Lemo

Contacts

Replacement contact [FGN.0M.560.ZZC](#)

Caps

Compatible cap [BGE.1M.200.XAZ](#)

Cap 2 [BME.1M.200.XAZ](#)

Tools

Positionner [DCE.91.090.5MVC](#)

Extraction tool [DCC.09.05B.LAG](#)

Crimp tool [DPC.91.701.V](#)

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