EGN.2M.308.XLM

Standard



Image for illustrative purpose only

Summary

Request a quote

M series

LEMO Brochure Industry Defence Security

Number of contacts Low Voltage	8
Wire Size/AWG	24 - 20
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Front Mounted
Locking system	Ratchet
Panel Drill Hole	M14
Jacket cable outside diameter [mm]	6.50 - 13.00 mm
Size	2M
Suggested matching part	FMN.2M.308.XLC

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/egn-2m-308-xlm.html
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Series	M - Rugged Ratchet coupling

Technical details

Electrical Configuration	
Number of contacts Low Voltage	8
Contact Termination Low voltage	Crimp
R (max) - electrical contact resistance	4.8 mOhm
Insert configuration value	2M.308 - 8 Low Voltage
Insulator	L: PEEK
Rated current	10 A
Test voltage contact-contact	1.7 kV DC
Test voltage contact-shell	1.6 kV DC
Contact retention	30 N
Max. Conductor	0.5 mm² (AWG 20)
Min. Conductor	0.25 mm² (AWG 24)
Bucket Dia.	1.1 mm (0.043 in)
Contact Dia.	0.9 mm (0.035 in)
Wire Size/AWG	24 - 20
Gender	Standard

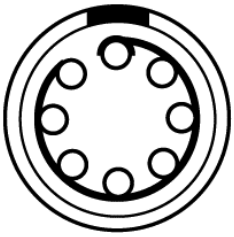
Form & Material	
Shell style / Model id	EG - Fixed receptacle, nut fixing
Socket / Receptacle	Fixed Panel Front Mounted
Housing material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass
Locking system	Ratchet
Keying	N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	7.41 g
Panel Drill Hole	M14

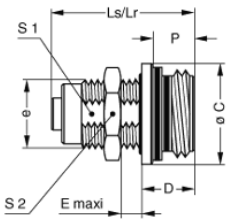
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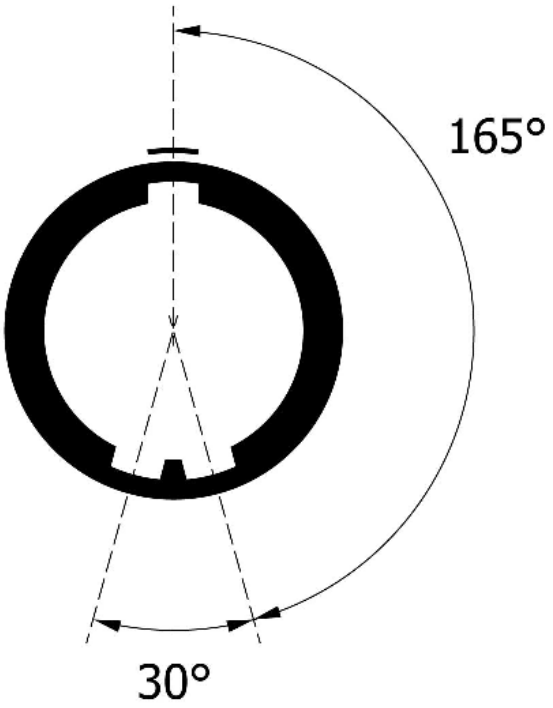
Environment	
Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Endurance	3000 mating cycles
Temperature range	-20°C / +200°C (max. temperature valid for short periods of use.)
EMI Shielding EIA 364-66A	>= 80 dB (1 GHz), >=70 dB (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]	6.50 - 13.00 mm

Drawings

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Dimensions

	C	D	e	E	Ls	Ls	P	S1	S2
mm.	17.2	6.8	M14x1.0	4.5	18.3	18.3	5.3	12.5	17
in.	0.68	0.27		0.18	0.72	0.72	0.21	0.49	0.67

Recommended By Lemo

Contacts	
Replacement contact	EGN.0M.660.ZZM
Caps	
Compatible cap	BGE.2M.200.XAZ
Cap 2	BME.2M.200.XAZ
Tools	
Positionner	DCE.91.090.3MVM
Extraction tool	DCC.09.05B.LAG
Insertion tool	DCV.09.05M.LA
Crimp tool	DPC.91.701.V

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