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Summary

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Number of contacts Low Voltage	4
Wire Size/AWG	26 - 22
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Front Mounted
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.00 - 8.00 mm
Size	0M
Suggested matching part	FMP.0M.304.XLC
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/ecp-0m-304-xlm.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	4
Contact Termination Low voltage	Crimp
R (max)	6.1 mOhm
Insert configuration value	0M.304 - 4 Low Voltage
Insulator	L: PEEK
Rated current	7 A
Test voltage (kV rms) Contact-contact	1.35
Test voltage (kV rms) Contact-shell	0.9
Contact retention	22 N
Max. Conductor	0.34 mm ² (AWG 22)
Min. Conductor	0.14 mm ² (AWG 26)
Bucket Dia.	0.8 mm (0.031in)
Contact Dia.	0.7 mm (0.028in)
Wire Size/AWG	26 - 22
Gender	Standard

Form & Material

Shell style / Model id	EC - Fixed receptacle with two nuts
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	P: 3 keys (beta=150, gamma=60, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	7.2 g

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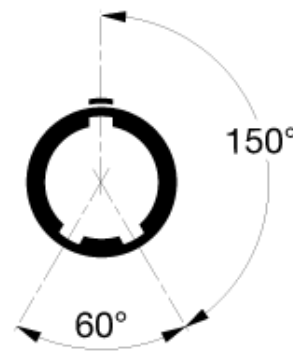
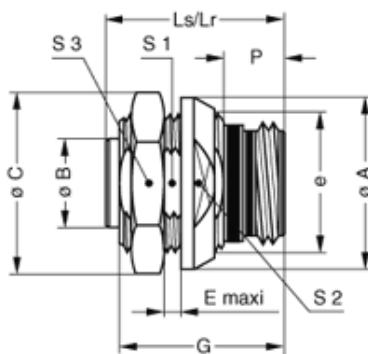
Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP50
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]	4.00 - 8.00 mm
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Drawings



Dimensions

	A	B	C	E	e	G	Ls	Lr	P	S1	S2	S3
mm.	17	4.72	18.2	5	M13x0.75	16.8	18.3	18.3	5.3	11.5	14	16
in.	0.67	0.19	0.72	0.2		0.66	0.72	0.72	0.21	0.45	0.55	0.63

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Recommended By Lemo

Accessories	
Replacement contact	EGN.0M.655.ZZM
Compatible cap	BGK.0M.200.XAZ
Tools	
Spanner 2	DCM.65.140.AZ
Positionner	DCE.91.070.3MVM
Extraction tool	DCF.93.070.4LT
Crimp tool	DPC.91.701.V
Spanner wrench	DCM.65.140.AZ