

Special



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Summary

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[M series](#)

[Application leaflet Security Defence](#)

Number of contacts Low Voltage	4
Wire Size/AWG	32 - 28
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Jacket cable outside diameter [mm]	2.80 - 5.60 mm
Size	MM
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/peu-mm-304-xlmt.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	4
Contact Termination Low voltage	Crimp
R (max)	8.7 mOhm
Insert configuration value	MM.304 - 4 Low Voltage
Insulator	L: PEEK
Rated current	2 A
Test voltage contact-contact	1.35 kV DC
Test voltage contact-shell	1.27 kV DC
Contact retention	12 N
Max. Conductor	0.09 mm ² (AWG 28)
Min. Conductor	0.035 mm ² (AWG 32)
Bucket Dia.	0.42 mm (0.018in)
Contact Dia.	0.5 mm (0.02in)
Wire Size/AWG	32 - 28
Gender	Standard

Form & Material

Shell style / Model id	PE - Fixed receptacle, nut fixing and mold stop
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	U: 3 keys (beta=130, gamma=100, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	4.78 g

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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
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

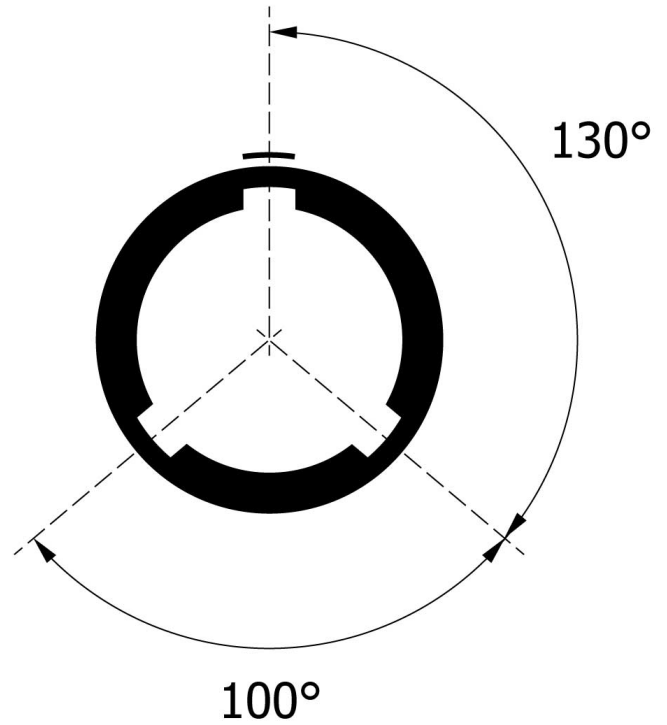
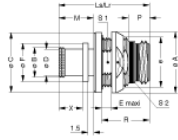
Cable fixation

Cable termination protection	For overmolding
Fixation type	Mold stop (overmolding)
Jacket cable outside diameter [mm]	2.80 - 5.60 mm

Drawings

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Dimensions

	A	B	C	D	E	e	Ls	Lr	M	P	R	S1	S2
mm.	14	6.4	13.8	5.6	4	M10x0.50	21.4	21.4	8.8	3.7	10.5	9	11
in.	0.55	0.25	0.54	0.22	0.16		0.84	0.84	0.35	0.15	0.41	0.35	0.43

Recommended By Lemo

Contacts

Replacement contact [EGG.00.654.ZZM](#)

Caps

Compatible cap [BGK.MM.200.XAZ](#)

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

Tools

Spanner 2 [DCM.65.110.AZ](#)

Positionner [DCE.91.050.0VM](#)

Extraction tool [DCC.05.02B.LAG](#)

Insertion tool [DCV.05.05M.LA](#)

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

Spanner wrench [DCM.65.110.AZ](#)

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