

Special



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Summary

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[M series](#)

[Application leaflet Security Defence](#)

Number of contacts Low Voltage	10
Wire Size/AWG	24 - 20
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Panel Drill Hole	M17
Jacket cable outside diameter [mm]	6.50 - 13.00 mm
Size	2M
Suggested matching part	FMT.2M.310.XLMT
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pet-2m-310-xlct.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	10
Contact Termination Low voltage	Crimp
R (max) - electrical contact resistance	4.8 mOhm
Insert configuration value	2M.310 - 10 Low Voltage
Insulator	L: PEEK
Rated current	8 A
Test voltage contact-contact	2 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 (0.043 in)
Contact Dia.	0.9 mm (0.035 in)
Wire Size/AWG	24 - 20
Gender	Reverse Gender

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	T: 3 keys (beta=135, gamma=90, plug: female contacts, receptacle: male contacts)
Colour	Grey
Weight	12.98 g
Panel Drill Hole	M17

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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

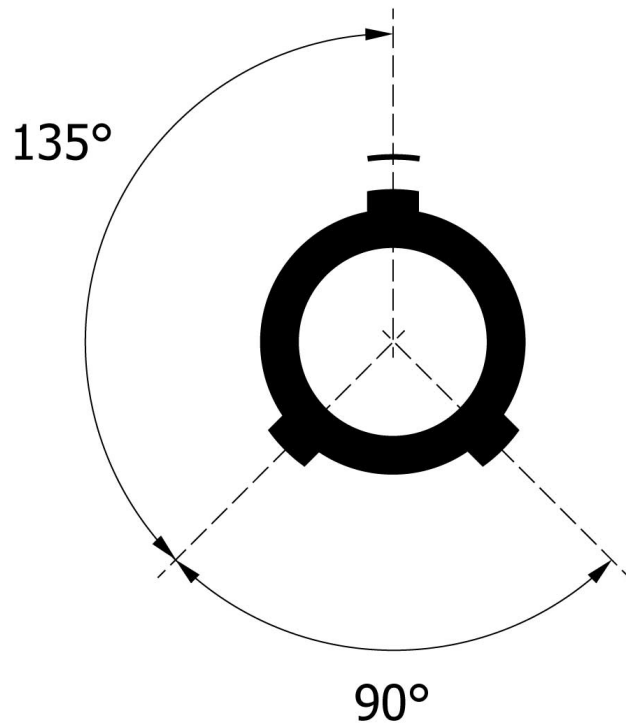
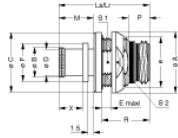
Cable fixation

Cable termination protection	For overmolding
Fixation type	Mold stop (overmolding)
Jacket cable outside diameter [mm]	6.50 - 13.00 mm

Drawings

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Dimensions

	A	B	C	D	E	e	Ls	Lr	M	P	R	S1	S2
mm.	21	14	20.8	13	5	M17x1.00	26	26	10.1	5.3	13.8	15.5	18
in.	0.83	0.55	0.82	0.51	0.2		1.02	1.02	0.4	0.21	0.54	0.61	0.71

Recommended By Lemo

Contacts

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

Caps

Compatible cap [BGK.2M.200.XAZ](#)

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

Tools

Spanner 2 [DCM.65.180.AZ](#)

Positionner [DCE.91.090.5MVC](#)

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

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

Spanner wrench [DCM.65.180.AZ](#)

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