



## Summary

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Low Voltage	10
Wire Size/AWG	24 - 20
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Jacket cable outside diameter [mm]	6.50 - 13.00 mm
Size	2M
Matching parts	<a href="#">FGN.2M.310.XRCT8</a>
Series	M - Rugged Ratchet coupling

## Technical details

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/pen-2m-310-xrmt8.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pen-2m-310-xrmt8.html)

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## Electrical Configuration

Contact Termination Low voltage	Crimp
R (max)	4.8 mOhm
Insert configuration value	2M.310_8 - 8 (0.7 mm) + 2 (1.3 mm) Low Voltage
Insulator	R: PEEK (mixed multipole)
Rated current	8 Amps
Test voltage (kV rms) Contact-contact	1.8
Test voltage (kV rms) Contact-shell	1.2
Contact retention	30 N
Contact Type	Crimp
Max. Conductor	0.5 mm <sup>2</sup> (AWG 20)
Min. Conductor	0.25 mm <sup>2</sup> (AWG 24)
Bucket Dia.	1.1 mm (0.043in)
Contact Dia.	0.9 mm (0.035in)
Low Voltage	10
Wire Size/AWG	24 - 20
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	3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Weight	14.85 g

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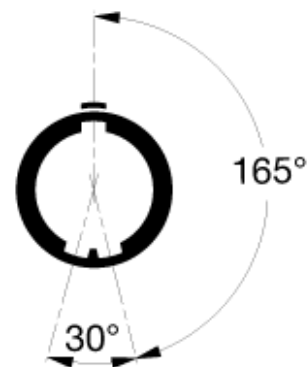
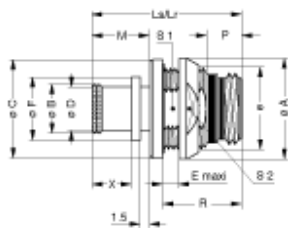
## Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental protection (IP rating)	IP68
Minimal temperature	-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	Heatshrink
Fixation type	T type cable adapter
Jacket cable outside diameter [mm]	6.50 - 13.00 mm

## Drawings



## 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

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