



*Image for illustrative purpose only*

## Summary

[Request a quote](#)

[Catalog](#)

Number of contacts Low Voltage	8
Wire Size/AWG	24 - 20
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Free
Locking system	Ratchet
Jacket cable outside diameter [mm]	6.50 - 13.00 mm
Size	2M
Suggested matching part	<a href="#">FMT.2M.308.XLM</a>
Series	M - Rugged Ratchet coupling

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/pmt-2m-308-xlc.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pmt-2m-308-xlc.html)

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

# Technical details

## Electrical Configuration

Number of contacts Low Voltage	8
Contact Termination Low voltage	Crimp
R (max)	4.8 mOhm
Insert configuration value	2M.308 - 8 Low Voltage
Insulator	L: PEEK
Rated current	10 A
Test voltage (kV rms) Contact-contact	1.95
Test voltage (kV rms) Contact-shell	1.1
Contact retention	30 N
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)
Wire Size/AWG	24 - 20
Gender	Reverse Gender

## Form & Material

Shell style / Model id	PM - Free receptacle with knurled grip
Socket / Receptacle	Free
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	10.98 g

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/pmt-2m-308-xlc.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pmt-2m-308-xlc.html)

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

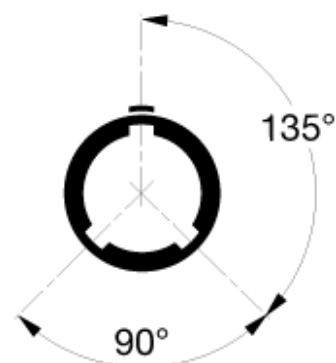
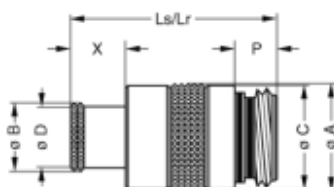
## Environment

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	$\geq 80$ dB (1 GHz), $\geq 70$ dB (3 GHz), $\geq 58$ dB (6 GHz), $\geq 40$ 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	Heatshrink
Jacket cable outside diameter [mm]	6.50 - 13.00 mm

## Drawings



[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/pmt-2m-308-xlc.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pmt-2m-308-xlc.html)

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

## Dimensions

	A	B	C	D	Ls	Lr	P	X
mm.	17.6	14	17.2	13	26	26	5.3	7.1
in.	0.69	0.55	0.68	0.51	1.02	1.02	0.21	0.28

## Recommended By Lemo

### Accessories

Replacement contact	<a href="#">FGN.0M.560.ZZC</a>
---------------------	--------------------------------

Compatible cap	<a href="#">BMF.2M.200.XAZ</a>
----------------	--------------------------------

### Tools

Positionner	<a href="#">DCE.91.090.5MVC</a>
-------------	---------------------------------

Extraction tool	<a href="#">DCC.09.05B.LAG</a>
-----------------	--------------------------------

Crimp tool	<a href="#">DPC.91.701.V</a>
------------	------------------------------

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/pmt-2m-308-xlc.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pmt-2m-308-xlc.html)

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.