



*Image for illustrative purpose only*

## Summary

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Number of contacts Low Voltage	22
Wire Size/AWG	26 - 22
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Free
Locking system	Ratchet
Jacket cable outside diameter [mm]	7.50 - 15.00 mm
Size	3M
Suggested matching part	<a href="#">FMU.3M.322.XLC</a>
Series	M - Rugged Ratchet coupling

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/pmu-3m-322-xlm.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pmu-3m-322-xlm.html)

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# Technical details

## Electrical Configuration

Number of contacts Low Voltage	22
Contact Termination Low voltage	Crimp
R (max)	6.1 mOhm
Insert configuration value	3M.322 - 22 Low Voltage
Insulator	L: PEEK
Rated current	4 A
Test voltage (kV rms) Contact-contact	1.25
Test voltage (kV rms) Contact-shell	1.15
Contact retention	22 N
Max. Conductor	0.34 mm <sup>2</sup> (AWG 22)
Min. Conductor	0.14 mm <sup>2</sup> (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	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	U: 3 keys (beta=130, gamma=100, plug: male contacts, receptacle: female contacts)
Colour	Grey

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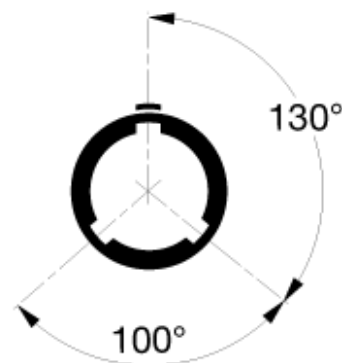
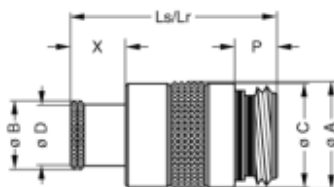
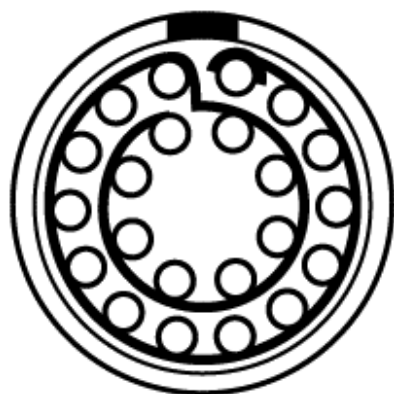
## Environment

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	$\geq 80$ 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]	7.50 - 15.00 mm

## Drawings



[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/pmu-3m-322-xlm.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pmu-3m-322-xlm.html)

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## Dimensions

	A	B	C	D	Ls	Lr	P	X
mm.	19.6	16	19.2	15	26	26	5.3	7.1
in.	0.77	0.63	0.76	0.59	1.02	1.02	0.21	0.28

## Recommended By Lemo

### Accessories

Replacement contact	<a href="#">EGN.0M.655.ZZM</a>
Compatible cap	<a href="#">BMF.3M.200.XAZ</a>

### Tools

Positionner	<a href="#">DCE.91.070.3MVM</a>
Extraction tool	<a href="#">DCF.93.070.4LT</a>
Crimp tool	<a href="#">DPC.91.701.V</a>

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