



*Image for illustrative purpose only*

## Summary

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Number of contacts Low Voltage	25
Wire Size/AWG	24 - 20
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Ratchet
Jacket cable outside diameter [mm]	8.35 - 16.70 mm
Size	TM
Suggested matching part	<a href="#">FMV.TM.325.XLMT</a>
Series	M - Rugged Ratchet coupling

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/pev-tm-325-xlct.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pev-tm-325-xlct.html)

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# Technical details

## Electrical Configuration

Number of contacts Low Voltage	25
Contact Termination Low voltage	Crimp
R (max)	4.8 mOhm
Insert configuration value	TM.325 - 25 Low Voltage
Insulator	L: PEEK
Rated current	5 A
Test voltage (kV rms) Contact-contact	1.10
Test voltage (kV rms) Contact-shell	1.25
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	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	V: 5 keys (alpha=110, beta=120, gamma=35, delta=25, plug: female contacts, receptacle: male contacts)
Colour	Grey

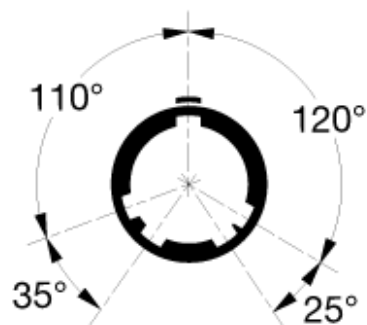
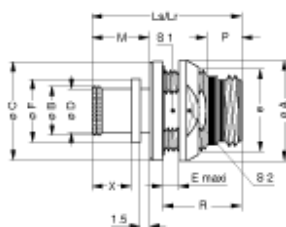
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Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Endurance	3000 mating cycles
Temperature range	-20°C / +200°C (max. temperature valid for short periods of use.)
EMI Shielding 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 termination protection	For overmolding
Fixation type	Mold stop (overmolding)
Jacket cable outside diameter [mm]	8.35 - 16.70 mm

## Drawings



[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/pev-tm-325-xlct.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/pev-tm-325-xlct.html)

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## Dimensions

	A	B	C	D	E	e	Ls	Lr	M	P	R	S1	S2
mm.	27	17.9	25.8	16.7	4	M22x1.00	29.5	30.1	10.6	7.9	16.9	20.5	23
in.	1.06	0.7	1.02	0.66	0.16		1.16	1.19	0.42	0.31	0.67	0.81	0.91

## Recommended By Lemo

Accessories	
Replacement contact	<a href="#">FGN.0M.560.ZZC</a>
Compatible cap	<a href="#">BGK.TM.200.XAZ</a>
Tools	
Spanner 2	<a href="#">DCM.65.230.AZ</a>
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>
Spanner wrench	<a href="#">DCM.65.230.AZ</a>