



*Image for illustrative purpose only*

## Summary

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Gender	Standard
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	11.35 - 22.70 mm
Size	LM
Suggested matching part	<a href="#">EGW.LM.U2A.XPL</a>
Series	M - Rugged Ratchet coupling

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/fmw-lm-u2a-xpat.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmw-lm-u2a-xpat.html)

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# Technical details

## Electrical Configuration

Insert configuration value	LM.U2A - USB
Number of differentiated pairs (High speed)	1
Gender	Standard

## Form & Material

Shell style / Model id	FM - Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip and mold stop
Plug	Straight
Housing material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass
Locking system	Ratchet
Keying	W: 5 keys (alpha=95, beta=115, gamma=35, delta=25, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	21.8 g

## Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Temperature range	-55°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

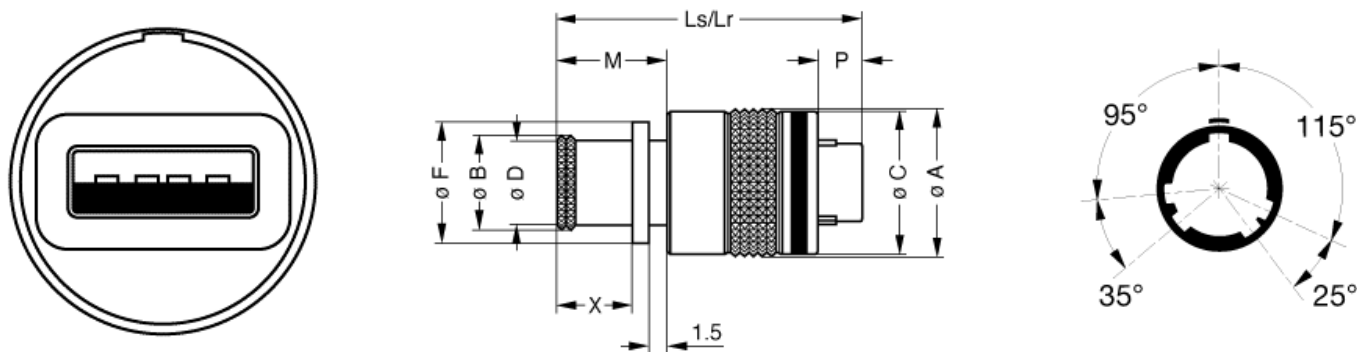
[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/fmw-lm-u2a-xpat.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmw-lm-u2a-xpat.html)

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## Cable fixation

Cable termination protection	For overmolding
Fixation type	T type cable adapter
Jacket cable outside diameter [mm]	11.35 - 22.70 mm

## Drawings



## Dimensions

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>F</b>	<b>Ls</b>	<b>Lr</b>	<b>M</b>	<b>P</b>	<b>X</b>
mm.	28.5	23.9	28	22.7	25.8	31.6	31.6	10.6	3.4	7.6
in.	1.12	0.94	1.1	0.89	1.02	1.24	1.24	0.42	0.13	0.3

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