



*Image for illustrative purpose only*

## Summary

[Request a quote](#)

[Catalog](#)

Number of contacts Low Voltage	4
Nb of contacts Coax	1
Gender	Standard
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	6.50 - 13.00 mm
Size	2M
Series	M - Rugged Ratchet coupling

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/fmn-2m-x04-xrc.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-2m-x04-xrc.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	4
Contact Termination Low voltage	Crimp
Nb of contacts Coax	1
Insert configuration value	2M.X04 - 1 Coax Type C + 2 Low Voltage 1.3 mm + 2 Low Voltage 0.9 mm
Insulator	R: PEEK (mixed multipole)
Test voltage contact-body shell	1.05 kV rms
Test voltage contact-contact	0.75 kV rms
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
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	N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Colour	Grey
Variant	Delivered without coaxial contacts
Weight	9.3 g

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/fmn-2m-x04-xrc.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-2m-x04-xrc.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.



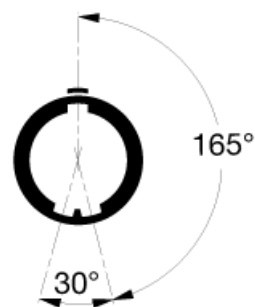
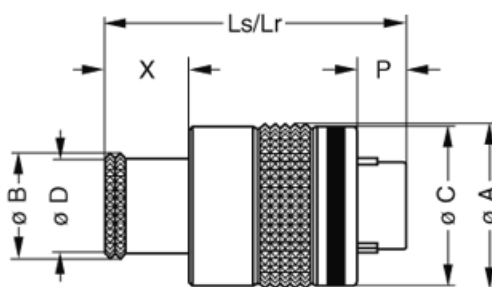
## Environment

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

Cable termination protection	Heatshrink
Fixation type	Heatshrink
Jacket cable outside diameter [mm]	6.50 - 13.00 mm

## Drawings



## Dimensions

	A	B	C	D	Ls	Lr	P	X
mm.	17.6	14	17.2	13	24.5	24.5	3.9	7.1
in.	0.69	0.55	0.68	0.51	0.96	0.96	0.15	0.28

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/fmn-2m-x04-xrc.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fmn-2m-x04-xrc.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.



# Recommended By Lemo

Accessories	
Replacement contact	<a href="#">FFS.2B.275.ZTCE31</a>
Compatible cap	<a href="#">BMF.2M.100.XAV</a>