

# M SERIES USB CONNECTORS RATCHET COUPLING



## Rugged Waterproof USB Connector (IP68)

LEMO has added a USB connector to its M Series product. This addition of a USB type A connector offers a reliable solution for harsh environments and when mated the connector meets the IP68 rating. This particular connector is designed for outdoor use including oil/petroleum, automotive, mining, military, marine or any type of application that requires rugged and reliable connections.

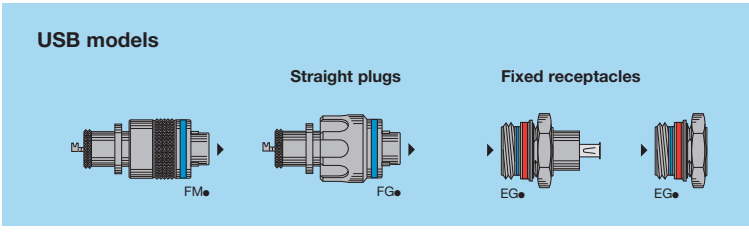
The complete product line includes panel mount sockets, plugs, protective, and caps.

### Features & Benefits

- Waterproof IP68 (when mated)
- Rugged, Outdoor, Harsh Environment
- Resistance to Vibration
- Lightweight
- Fast and Easy to Secure USB
- Aluminum or Brass outershell with conductive finish
- Use with off-the-shelf USB cable assemblies
- Easy to Use
- USB 2.0

This new addition to the M Series is just another product built by LEMO with Quality, Reliability and Safety!

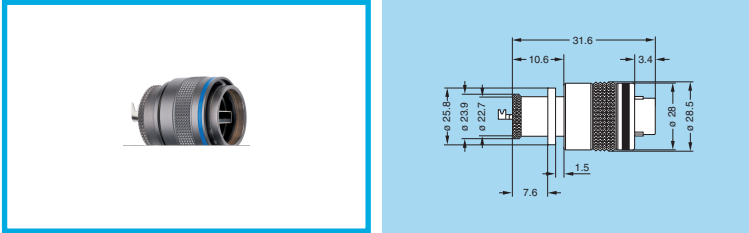
## Interconnections



## Models

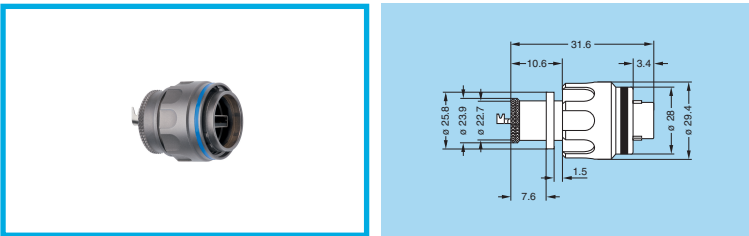
**FM•LM.U2A.XPAT**

Straight plug, key (W) or key (R) with knurled grip and mold stop – cable attach; solder



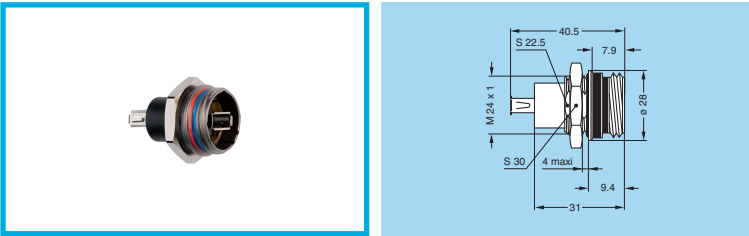
**FG•LM.U2A.XPAT**

Straight plug, key (W) or key (R) with arctic grip and mold stop – cable attach; solder



**EG•LM.U2A.XPP**

Fixed receptacle, female to female, nut fixing, key (W) or key (R) – USB connector socket



**EG•LM.U2A.XPL**

Fixed receptacle, nut fixing, key (W) or key (R) wire attach (solder)

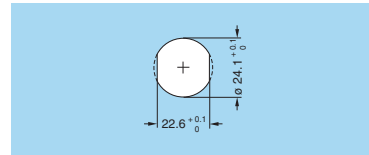


## Insert configuration

Male front view	Female front view	Reference	Number of contacts	Solder contact	AWG	Test voltage (kV rms) <sup>1)</sup> Contact-contact	Test voltage (kV rms) <sup>1)</sup> Contact-shell	Rated current (A) <sup>1)</sup>
		U2A	4	●	-	1.20	0.95	n.a.

Note: 1) Test voltage according to IEC 60512-2 test 4a.

## Cut-outs



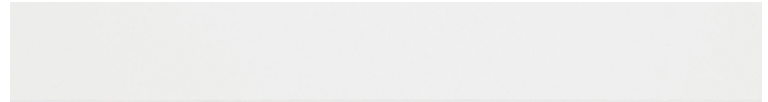
Mounting nut torque (on panel)

Torque (Nm)
6.5

## Alignment Key and Polarized Keying System

Front view receptacle	Model	Nb of keys	Angles				Color code	Contact type	
			α	β	γ	δ		Plug	Receptacle
	●W ●R	5	95°	115°	35°	25°	blue	male	female
			105°	115°	30°	20°	yellow	male	female

## Cable Termination Side



## LEMO USA

P.O. Box 2408, Rohnert Park, CA 94927-2408  
Tel: 707.578.8811 800.444.5366 Fax: 707.578.0869  
info@lemousa.com

www.lemo.com