



## Summary

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[See video assembly instructions](#)

Number of contacts Low Voltage	12
Wire Size/AWG	26 - 22
Gender	Standard
Plug	Plug - Straight
Locking system	Push-pull
Jacket cable outside diameter [mm]	5.30 - 14.00 mm
Size	2F
Matching parts	<a href="#">EGN.2F.312.XLM</a>
Series	F - Rugged Push-Pull

## Technical details

[https://www.lemo.com/int\\_en/solutions/optima/f-rugged-push-pull/fgn-2f-312-xlcs.html](https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/fgn-2f-312-xlcs.html)

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## Electrical Configuration

Contact Termination Low voltage	Crimp
R (max)	6.1 mOhm
Insert configuration value	2F.312 - 12 Low Voltage
Insulator	L: PEEK (UL 94 / V-0/1.5)
Rated current	7 Amps
Vtest (contact-contact)	1650 V (AC), 2350 V (DC)
Vtest (contact-shell)	2000 V (AC), 2850 V (DC)
Contact retention	22 N
Contact Type	Crimp
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)
Number of contacts Low Voltage	12
Wire Size/AWG	26 - 22
Gender	Standard

## Form & Material

Shell style / Model id	FG - Straight plug
Plug	Straight
Housing material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass
Locking system	Push-pull
Keying	3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)
Weight	12.39 g

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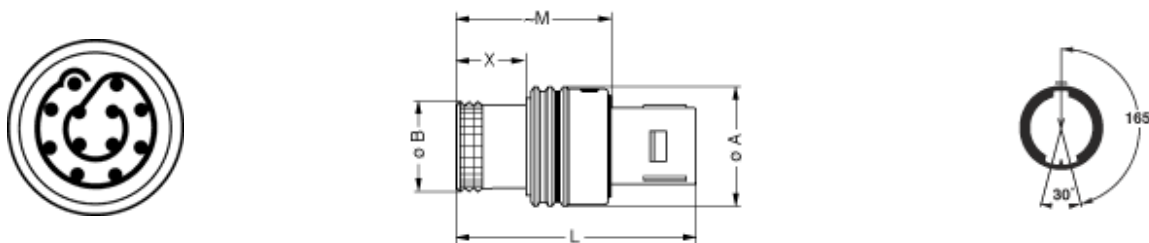
## Environment

Technical domain	Motorsport, Security and Defence
Environmental protection (IP rating)	IP67
Minimal temperature	-55°C / +200°C
Climatical Category	15/200/21 (Aluminium shell)
Humidity (max)	<=95% [at 60 deg C /140 F]
Operating temperature	-55°C/ +200°C
Shock Resistance	100 g [ 6 ms]
Vibration	15 g [10 Hz - 2000 Hz]
Salt Spray Corrosion	max. 48 hr

## Cable fixation

Cable termination protection	Heatshrink
Fixation type	Cable collet
Jacket cable outside diameter [mm]	5.30 - 14.00 mm

## Drawings



## Dimensions

	<b>M</b>	<b>A</b>	<b>B</b>	<b>L</b>	<b>X</b>
mm.	17.9	17	14	27.8	8
in.	0.7	0.67	0.55	1.09	0.31

## Recommended By Lemo

### Accessories

Replacement contact	<a href="#">FGG.0B.555.ZZC</a>
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## Tools

Positionner	<a href="#">DCE.91.070.BVC</a>
Extraction tool	<a href="#">DCF.93.070.4LT</a>
Crimp tool	<a href="#">DPC.91.701.V</a>

## Cables

Cable PartNumber	Material	Colour	Cable image
CMN.12.T22.070QGZE	TPR (medical)	Grey	
CMN.12.T28.054PGZE		grey	
CMN.12.T28.054PNZE			
112240	PTFE	White	
112260	PTFE	White	
112280	PVC	Black	
124080	PVC	Grey	
124084	PVC	Black	
212220	PVC	Black	
212240	PVC	Black	
212250	PVC	Grey	
212260	PVC	Black	

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