

Special

Image for illustrative purpose only

Summary

[Request a quote](#)[f series](#)[LEMO Brochure Industry Defence Security](#)[See video assembly instructions](#)

Number of contacts Low Voltage	30
Wire Size/AWG	26 - 22
Gender	Standard
Plug	Plug - Straight
Locking system	Break-away
Jacket cable outside diameter [mm]	5.30 - 16.00 mm
Size	3F
Suggested matching part	EGN.3F.330.XLM

https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/fgn-3f-330-xlcfs.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	30
Contact Termination Low voltage	Crimp
R (max) - electrical contact resistance	6.1 mOhm
Insert configuration value	3F.330 - 30 Low Voltage
Insulator	L: PEEK (UL 94 / V-0/1.5)
Rated current	3.5 A
Test voltage contact-contact	1.54 kV DC
Test voltage contact-shell	1.4 kV DC
Contact retention	22 N
Max. Conductor	0.34 mm ² (AWG 22)
Min. Conductor	0.14 mm ² (AWG 26)
Bucket Dia.	0.8 mm (0.031 in)
Contact Dia.	0.7 mm (0.028 in)
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	Break-away
Keying	3 keys (beta=150, gamma=60, plug: male contacts, receptacle: female contacts)
Colour	Grey
Variant	S: Silicone gasket
Weight	16.11 g

https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/fgn-3f-330-xlcfs.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.

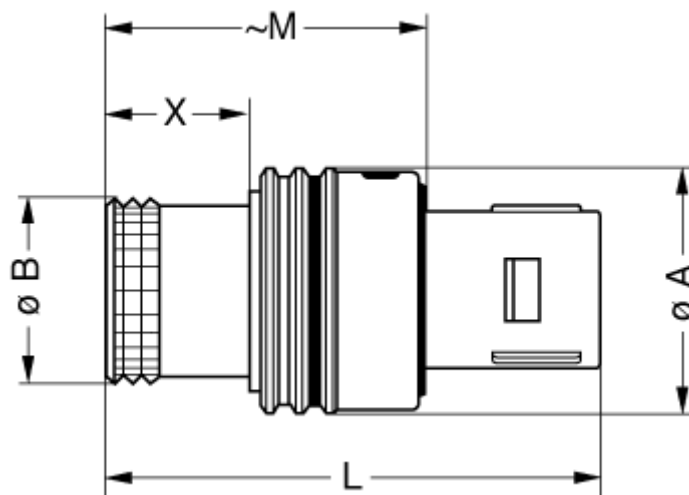
Environment

Technical domain	Motorsport, Security and Defence
Environmental sealing (IP rating)	IP67
Endurance	1000 mating cycles
Temperature range	-55°C / +200°C (max. temperature valid for short periods of use.)
Climatic Category	15/200/21 (Aluminium shell)
Humidity (max)	<=95% [at 60 deg C /140 F]
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	Heatshrink
Jacket cable outside diameter [mm]	5.30 - 16.00 mm

Drawings



Dimensions

	M	L	B	A	X
mm.	17.9	27.8	16	19	8
in.	0.7	1.09	0.63	0.75	0.31

https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/fgn-3f-330-xlcfs.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

Contacts

Replacement contact	FGG.0B.555.ZZC
---------------------	--------------------------------

Caps

Compatible cap	BFG.3F.100.XAZ
----------------	--------------------------------

Tools

Positionner	DCE.91.070.BVC
-------------	--------------------------------

Extraction tool	DCF.93.070.4LT
-----------------	--------------------------------

Crimp tool	DPC.91.701.V
------------	------------------------------

Cables

Cable PartNumber	Material	Colour	Cable image
CMN.30.T22.087PGCE	PVC	GREY	
CMN.30.T22.087PGZE		grey	
CMN.30.T22.087PNCE	PVC	Black	
CMN.30.T22.087PNZE			
330240	PVC	Black	
330260	PVC	Black	
430250	PVC	Grey	

https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/fgn-3f-330-xlcfs.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.