



Image for illustrative purpose only

Summary

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[f series](#)

[See video assembly instructions](#)

Number of contacts Low Voltage	30
Wire Size/AWG	26 - 22
Gender	Standard
Plug	Plug - Straight
Locking system	Push-pull
Jacket cable outside diameter [mm]	5.30 - 16.00 mm
Size	3F
Series	F - Rugged Push-Pull

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

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Technical details

Electrical Configuration

Number of contacts Low Voltage	30
Contact Termination Low voltage	Crimp
R (max)	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
Vtest (contact-contact)	1350 V (AC), 1910 V (DC)
Vtest (contact-shell)	1200 V (AC), 1700 V (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 (0.031in)
Contact Dia.	0.7 mm (0.028in)
Wire Size/AWG	26 - 22
Gender	Standard

Form & Material

Shell style / Model id	FG - Straight plug
Plug	Straight
Housing material	Brass (chrome plated [SAE AMS 2460]) shell and nut, other pieces brass
Locking system	Push-pull
Keying	3 keys (beta=150, gamma=60, plug: male contacts, receptacle: female contacts)
Weight	20.83 g

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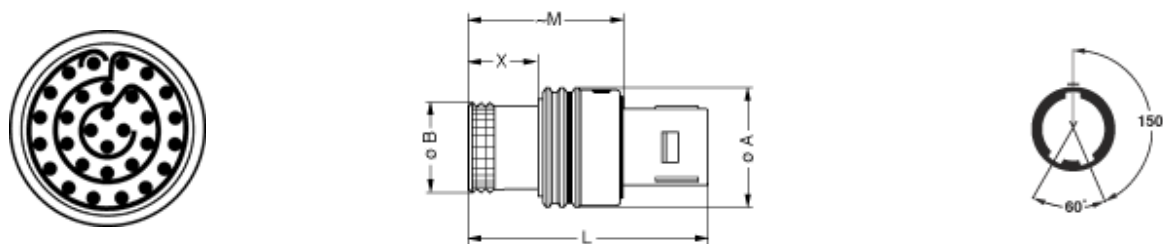
Environment

Technical domain	Motorsport, Security and Defence
Environmental sealing (IP rating)	IP67
Endurance	5000 mating cycles
Temperature range	-55°C / +200°C (max. temperature valid for short periods of use.)
Climatic Category	50/175/21 (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	>1000 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

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Recommended By Lemo

Accessories

Replacement contact	FGG.0B.555.ZZC
Compatible cap	BFG.3F.100.XAZ

Tools

Positionner	DCE.91.070.BVC
Extraction tool	DCF.93.070.4LT
Crimp tool	DPC.91.701.V

CAD

Documents

Eplan	Download
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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	

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