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Summary

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[f series](#)

Number of contacts Low Voltage	30
Wire Size/AWG	26 - 22
Gender	Reverse Gender
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/fgt-3f-330-xlm.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	Reverse Gender

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 (alpha=135, gamma=90, plug: female contacts, receptacle: male contacts)
Colour	Grey
Weight	16.67 g

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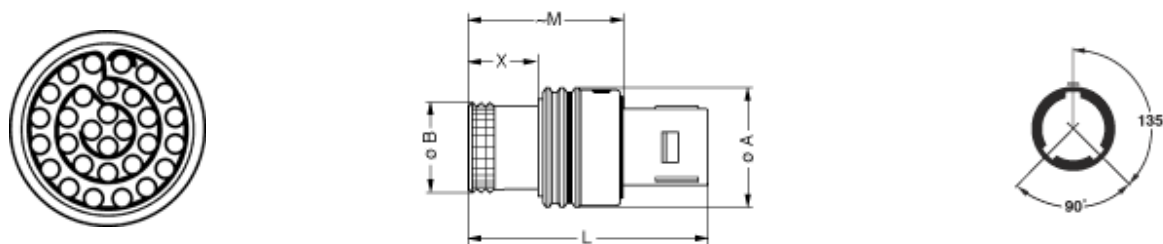
Environment

Technical domain	Motorsport, Security and Defence
Environmental sealing (IP rating)	IP67
Endurance	1000 mating cycles
Temperature range	-15°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

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Recommended By Lemo

Accessories	
Replacement contact	EGN.3F.655.ZZM
Compatible cap	BFG.3F.100.XAZ
Tools	
Positionner	DCE.91.071.FVM
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	