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Summary

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[f series](#)

Number of contacts Low Voltage	12
Wire Size/AWG	26 - 22
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Push-pull
Jacket cable outside diameter [mm]	5.30 - 14.00 mm
Size	2F
Suggested matching part	FGS.2F.312.XLM
Series	F - Rugged Push-Pull

https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/ehs-2f-312-xlc.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	12
Contact Termination Low voltage	Crimp
R (max)	6.1 mOhm
Insert configuration value	2F.312 - 12 Low Voltage
Footprint IPC Class3 compatibility	No
Insulator	L: PEEK (UL 94 / V-0/1.5)
Rated current	7 A
Vtest (contact-contact)	1650 V (AC), 2350 V (DC)
Vtest (contact-shell)	2000 V (AC), 2850 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	EH - Fixed receptacle, nut fixing (back panel mounting, printed circuit mounting possible)
Socket / Receptacle	Fixed Panel Rear Mounted
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=155, gamma=50, plug: female contacts, receptacle: male contacts)
Colour	Grey
Weight	10.01 g

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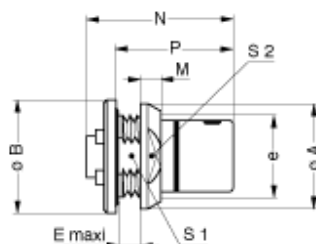
Environment

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

Jacket cable outside diameter [mm]	5.30 - 14.00 mm
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Drawings



Dimensions

	E	A	B	e	S2	N	M	P	S1
mm.	3	20	20	M16x1.0	17	19	4	14.5	14.5
in.	0.12	0.79	0.79		0.67	0.75	0.16	0.57	0.57

Recommended By Lemo

Accessories

Replacement contact	FGG.0B.555.ZZC
Compatible cap	BRE.2F.200.XAV

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Tools

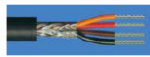
Positionner	DCE.91.070.BVC
Extraction tool	DCF.93.070.4LT
Crimp tool	DPC.91.701.V

CAD

Documents

Eplan	Download
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Cables

Cable PartNumber	Material	Colour	Cable image
CMN.12.T22.070QGZE	TPR (medical)	Grey	
CMN.12.T28.054PGZE		grey	
CMN.12.T28.054PNZE			
112240	PTFE	White	
112260	PTFE	White	
112280	PVC	Black	
12050	PVC	Black	
124080	PVC	Grey	
124084	PVC	Black	
212220	PVC	Black	
212240	PVC	Black	
212250	PVC	Grey	
212260	PVC	Black	

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