



Image for illustrative purpose only

Summary

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f series

Number of contacts Low Voltage	8
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Push-pull
Panel Drill Hole	M13
Size	1F
Suggested matching part	FGP.1F.308.XLC
Series	F - Rugged Push-Pull

https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/hep-1f-308-xlnp.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	8
Contact Termination Low voltage	PCB - Straight
R (max)	6.1 mOhm
Insert configuration value	1F.308 - 8 Low Voltage
Footprint IPC Class3 compatibility	Yes
Class3 Productibility Level Compatibility	A (General Design Producibility - Preferred)
Insulator	L: PEEK (UL 94 / V-0/1.5)
Rated current	5 A
Vtest (contact-contact)	1300 V (AC), 1840 V (DC)
Vtest (contact-shell)	1300 V (AC), 1840 V (DC)
Contact Dia.	0.7 mm (0.028in)
Gender	Standard

Form & Material

Shell style / Model id	HE - Fixed receptacle, nut fixing, for printed circuit (back panel mounting)
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=150, gamma=60, plug: male contacts, receptacle: female contacts)
Colour	Grey
Variant	Watertight unmated (connector to device)
Weight	5.44 g
Panel Drill Hole	M13

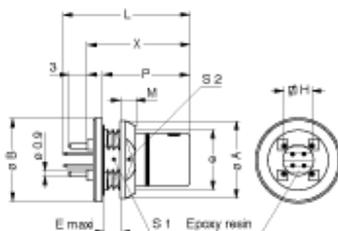
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Environment

Technical domain	Motorsport, Security and Defence
Environmental sealing (IP rating)	IP68
Endurance	1000 mating cycles
Temperature range	-15°C / +100°C
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]
Pressure	5 bars
Salt Spray Corrosion	max. 48 hr

Drawings



Dimensions

	A	B	e	E	H	L	M	P	S1	S2	X
mm.	17	17	M13x0.75	3	7.62	21.5	3.2	14.5	11.5	14	17.5
in.	0.67	0.67		0.12	0.3	0.85	0.13	0.57	0.45	0.55	0.69

Recommended By Lemo

Accessories

Compatible cap [BRE.1F.200.XAV](#)

Tools

Spanner 2 [DCM.65.140.AZ](#)

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CAD

Documents

PCB	Download
PCB Eagle	Download
Kicad	Download
PCB Altium	Download

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