



Image for illustrative purpose only

Summary

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[f series](#)

Number of contacts Low Voltage	12
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Push-pull
Size	2F
Suggested matching part	FGP.2F.312.CLC
Series	F - Rugged Push-Pull

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

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Technical details

Electrical Configuration

Number of contacts Low Voltage	12
Contact Termination Low voltage	PCB - Straight
R (max)	6.1 mOhm
Insert configuration value	2F.312 - 12 Low Voltage
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 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	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)
Variant	Watertight unmated (connector to device)
Weight	17.08 g

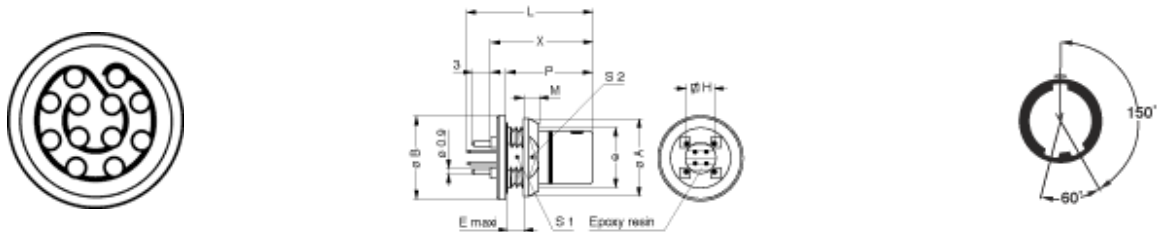
Environment

Technical domain	Motorsport, Security and Defence
Environmental sealing (IP rating)	IP68
Endurance	5000 mating cycles
Temperature range	-50°C / +150°C
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]
Pressure	5 bars
Salt Spray Corrosion	>1000 hr

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Drawings



Dimensions

	A	B	e	E	H	L	M	P	S1	S2	X
mm.	20	20	M16x1.0	3	8.89	21.5	4	14.5	14.5	17	17.5
in.	0.79	0.79		0.12	0.35	0.85	0.16	0.57	0.57	0.67	0.69

Recommended By Lemo

Accessories

Compatible cap	BRE.2F.200.XAV
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CAD

Documents

PCB	Download
PCB Eagle	Download
Kicad	Download
PCB Altium	Download