



Image for illustrative purpose only

Summary

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[f series](#)

Number of contacts Low Voltage	3
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Push-pull
Size	1F
Suggested matching part	FGS.1F.303.CLM
Series	F - Rugged Push-Pull

https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/hes-1f-303-cldp.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	3
Contact Termination Low voltage	PCB - Straight
Insert configuration value	1F.303 - 3 Low Voltage
Insulator	L: PEEK (UL 94 / V-0/1.5)
Rated current	12 A
Vtest (contact-contact)	1600 V (AC), 2250 V (DC)
Vtest (contact-shell)	1850 V (AC), 2600 V (DC)
Contact Dia.	1.3
Gender	Reverse Gender

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=155, gamma=50, plug: female contacts, receptacle: male contacts)
Variant	Watertight unmated (connector to device)
Weight	11.38 g

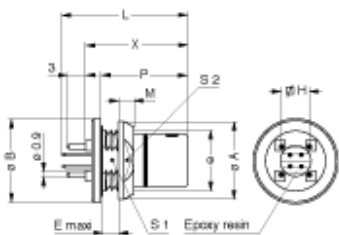
Environment

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.	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
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Tools

Spanner 2	DCM.65.140.AZ
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CAD

Documents

PCB	Download
PCB Eagle	Download
Kicad	Download
PCB Altium	Download