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Summary

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Number of contacts Low Voltage	19
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Push-pull
Size	2F
Series	F - Rugged Push-Pull

https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/hes-2f-319-clvp.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	19
Contact Termination Low voltage	PCB - Elbow
R (max)	6.1 mOhm
Insert configuration value	2F.319 - 19 Low Voltage
Insulator	L: PEEK (UL 94 / V-0/1.5)
Vtest (contact-contact)	1550 V (AC), 2200 V (DC)
Vtest (contact-shell)	1650 V (AC), 2350 V (DC)
Contact Dia.	0.7 mm (0.028in)
Gender	Reverse Gender

Form & Material

Shell style / Model id	HE - Fixed receptacle, nut fixing, with elbow (90°) contacts 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	19.25 g

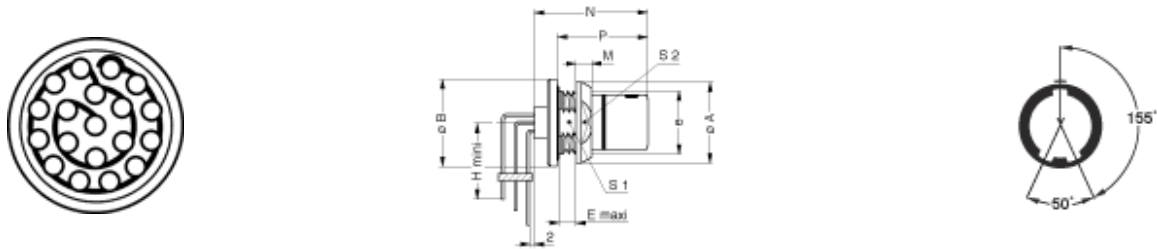
Environment

Technical domain	Motorsport, Security and Defence
Environmental sealing (IP rating)	IP68
Endurance	5000 mating cycles
Temperature range	-50°C / +150°C
Climatical 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	N	M	P	S1	S2
mm.	20	20	M16x1.0	3	20	18.5	4.0	14.5	14.5	17
in.	0.79	0.79		0.12	0.79	0.73	0.16	0.57	0.57	0.67

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