



Image for illustrative purpose only

Summary

[Request a quote](#)

[f series](#)

Number of contacts Low Voltage	19
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Push-pull
Size	2F
Suggested matching part	FGS.2F.319.XLM
Series	F - Rugged Push-Pull

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

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

Technical details

Electrical Configuration

Number of contacts Low Voltage	19
Contact Termination Low voltage	PCB - Straight
R (max)	6.1 mOhm
Insert configuration value	2F.319 - 19 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)	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, 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=155, gamma=50, plug: female contacts, receptacle: male contacts)
Colour	Grey
Variant	Watertight unmated (connector to device)
Weight	8.71 g

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

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

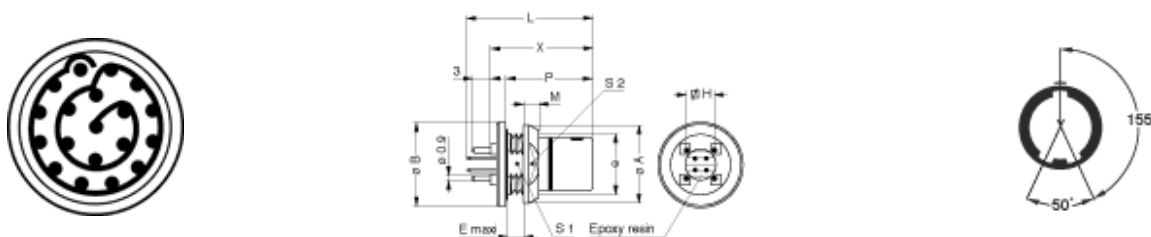
Environment

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

Cable fixation

Panel Drill Hole	M16
------------------	-----

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
----------------	--------------------------------

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

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

Documents

PCB	Download
PCB Eagle	Download
Kicad	Download
PCB Altium	Download