

[Standard](#)

Image for illustrative purpose only

Summary

[Request a quote](#)[f series](#)[Application leaflet Security Defence](#)

Number of contacts Low Voltage	22
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Push-pull
Panel Drill Hole	M18
Size	3F
Suggested matching part	FGP.3F.322.XLC
Series	F - Rugged Push-Pull

https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/hep-3f-322-xlnp.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	22
Contact Termination Low voltage	PCB - Straight
R (max) - electrical contact resistance	6.1 mOhm
Insert configuration value	3F.322 - 22 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	5.5 A
Test voltage contact-contact	1.7 kV DC
Test voltage contact-shell	1.6 kV DC
Contact Dia.	0.7 mm (0.028 in)
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=145, gamma=70, plug: male contacts, receptacle: female contacts)
Colour	Grey
Variant	Watertight unmated (connector to device)
Weight	10.43 g
Panel Drill Hole	M18

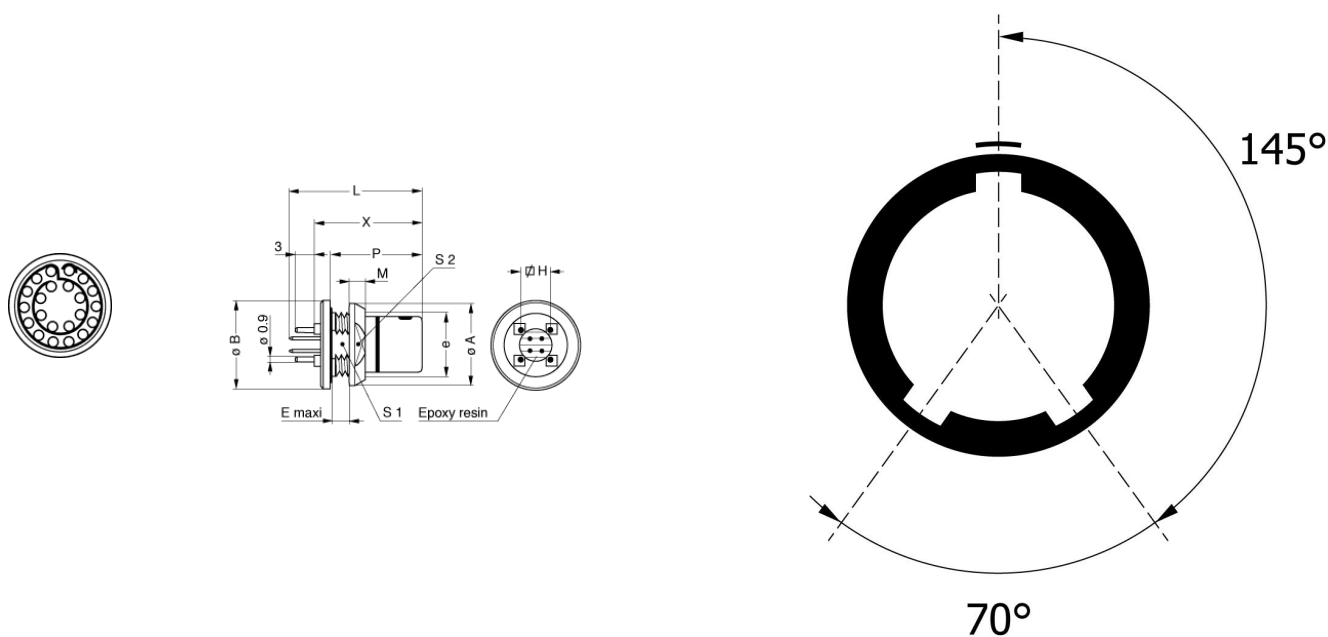
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Environment

Technical domain	Motorsport, Security and Defence
Environmental sealing (IP rating)	IP68
Endurance	1000 mating cycles
Temperature range	-20°C / +80°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.	22	23	M18x1.0	3	11.43	21.5	4	14.5	16.5	19	17.5
in.	0.87	0.91		0.12	0.45	0.85	0.16	0.57	0.65	0.75	0.69

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Recommended By Lemo

Caps	
Compatible cap	BRE.3F.200.XAV
Tools	
Spanner 2	DCM.65.190.AZ
Spanner wrench	Socket for torque wrench DCM.65.200.AZ