



*Image for illustrative purpose only*

## Summary

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[f series](#)

Number of contacts Low Voltage	30
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Push-pull
Size	3F
Series	F - Rugged Push-Pull

[https://www.lemo.com/int\\_en/solutions/optima/f-rugged-push-pull/het-3f-330-xldps.html](https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/het-3f-330-xldps.html)

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# Technical details

## Electrical Configuration

Number of contacts Low Voltage	30
Contact Termination Low voltage	PCB - Straight
R (max)	6.1 mOhm
Insert configuration value	3F.330 - 30 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	3.5 A
Vtest (contact-contact)	1350 V (AC), 1910 V (DC)
Vtest (contact-shell)	1200 V (AC), 1700 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 (alpha=135, gamma=90, plug: female contacts, receptacle: male contacts)
Colour	Grey
Variant	Watertight unmated (connector to device), S: Silicone gasket
Weight	9.84 g

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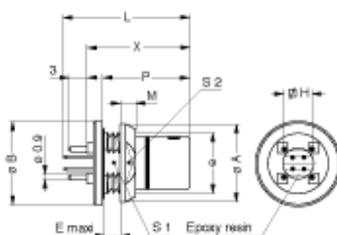
## Environment

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	M18
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## Drawings



## Dimensions

	A	B	e	E	H	L	M	P	S1	S2	X
mm.	22	23	M18x1.0	3	11.43	23	4	16	16.5	19	19
in.	0.87	0.91		0.12	0.45	0.91	0.16	0.63	0.65	0.75	0.75

## Recommended By Lemo

### Accessories

Compatible cap	<a href="#">BRE.3F.200.XAV</a>
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### Tools

Spanner 2	<a href="#">DCM.65.190.AZ</a>
Spanner wrench	<a href="#">Socket for torque wrench DCM.65.200.AZ</a>

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# CAD

## Documents

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PCB	<a href="#">Download</a>
PCB Eagle	<a href="#">Download</a>
Kicad	<a href="#">Download</a>
PCB Altium	<a href="#">Download</a>

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