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## Summary

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[f series](#)

Number of contacts Low Voltage	19
Wire Size/AWG	26 - 22
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Push-pull
Jacket cable outside diameter [mm]	5.30 - 14.00 mm
Size	2F
Suggested matching part	<a href="#">FGN.2F.319.XLC</a>
Series	F - Rugged Push-Pull

[https://www.lemo.com/int\\_en/solutions/optima/f-rugged-push-pull/een-2f-319-xlm.html](https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/een-2f-319-xlm.html)

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# Technical details

## Electrical Configuration

Number of contacts Low Voltage	19
Contact Termination Low voltage	Crimp
R (max)	6.1 mOhm
Insert configuration value	2F.319 - 19 Low Voltage
Footprint IPC Class3 compatibility	No
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 retention	22 N
Max. Conductor	0.34 mm <sup>2</sup> (AWG 22)
Min. Conductor	0.14 mm <sup>2</sup> (AWG 26)
Bucket Dia.	0.8 mm (0.031in)
Contact Dia.	0.7 mm (0.028in)
Wire Size/AWG	26 - 22
Gender	Standard

## Form & Material

Shell style / Model id	EE - Fixed receptacle, nut fixing (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=165, gamma=30, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	8.93 g

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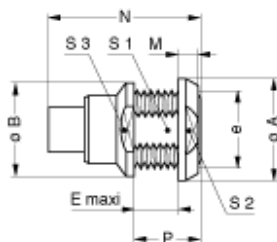
## Environment

Technical domain	Motorsport, Security and Defence
Environmental sealing (IP rating)	IP50
Endurance	1000 mating cycles
Temperature range	-15°C / +200°C (max. temperature valid for short periods of use.)
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]
Salt Spray Corrosion	max. 48 hr

## Cable fixation

Jacket cable outside diameter [mm]	5.30 - 14.00 mm
Panel Drill Hole	M16

## Drawings



## Dimensions

	B	e	A	N	M	P	S1	S2	S3	E
mm.	19	M16x1.0	20	19	4	10.4	14.5	17	16	6.4
in.	0.75		0.79	0.75	0.16	0.41	0.57	0.67	0.63	0.25

## Recommended By Lemo

### Accessories

Replacement contact	<a href="#">EGG.0B.655.ZZM</a>
Compatible cap	<a href="#">BRE.2F.200.XAV</a>

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## Tools

Positionner	<a href="#">DCE.91.070.BVM</a>
Extraction tool	<a href="#">DCF.93.070.4LT</a>
Crimp tool	<a href="#">DPC.91.701.V</a>

## Cables

Cable PartNumber	Material	Colour	Cable image
CMN.19.T22.079QGZE	TPR (medical)	Grey	

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