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Summary

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[f series](#)

Number of contacts Low Voltage	3
Wire Size/AWG	20 - 18
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Push-pull
Jacket cable outside diameter [mm]	3.80 - 10.70 mm
Panel Drill Hole	M13
Size	1F
Suggested matching part	FGS.1F.303.XLM
Series	F - Rugged Push-Pull

https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/ees-1f-303-xlc.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	3
Contact Termination Low voltage	Crimp
R (max)	3.6 mOhm
Insert configuration value	1F.303 - 3 Low Voltage
Insulator	L: PEEK (UL 94 / V-0/1.5)
Rated current	12 A
Vtest (contact-contact)	1600 V (AC), 2250 V (DC)
Vtest (contact-shell)	1850 V (AC), 2600 V (DC)
Contact retention	40 N
Max. Conductor	1 mm ² (AWG 18)
Min. Conductor	0.5 mm ² (AWG 20)
Bucket Dia.	1.4 mm (0.055in)
Contact Dia.	1.3 mm (0.051in)
Wire Size/AWG	20 - 18
Gender	Reverse Gender

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=155, gamma=50, plug: female contacts, receptacle: male contacts)
Colour	Grey
Weight	5.44 g

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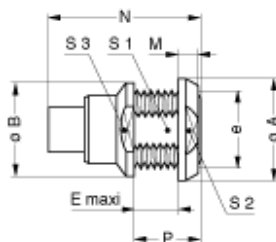
Environment

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]	3.80 - 10.70 mm
Panel Drill Hole	M13

Drawings



Dimensions

	B	e	E	S3	S2	A	S1	P	N	M
mm.	15	M13x0.75	6.2	14	14	17	11.5	9.4	19	3.2
in.	0.59		0.24	0.55	0.55	0.67	0.45	0.37	0.75	0.13

Recommended By Lemo

Accessories

Replacement contact	FGN.1F.565.ZZC
Compatible cap	BRE.1F.200.XAV

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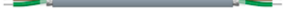
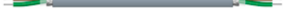
Tools

Spanner 2	DCM.65.140.AZ
Positionner	DCE.91.131.FVC
Extraction tool	DCF.93.131.4LT
Crimp tool	DPC.91.701.V

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Cables

Cable PartNumber	Material	Colour	Cable image
CMN.03.T18.055PGZE		grey	
CMN.03.T18.055PNZE			
CMN.03.T18.055QGZE	TPR (medical)	Grey	
CMN.03.T20.049PGZE		grey	
CMN.03.T20.049PNZE			
CMN.03.T28.031PGCE	PVC	GREY	
CMN.03.T28.031PGZE		grey	
CMN.03.T28.031PNCE	PVC	Black	
CMN.03.T28.031PNZE			
130240	PVC	Black	
130250	PVC	Grey	
230500	PVC	Grey	
230750	PVC	Grey	
30110	PVC	Grey	
30141	PVC	Grey	
30260	PVC	Black	
3041	PVC	Grey	
3050	PVC	Black	
3081	PVC	Black	
3220	PVC	Black	
3280	PVC	Black	
60080	PVC	Grey	

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