



Summary

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Low Voltage	3
Wire Size/AWG	20 - 18
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Push-pull
Jacket cable outside diameter [mm]	3.80 - 10.70 mm
Size	1F
Matching parts	FGN.1F.303.XLC
Series	F - Rugged Push-Pull

Technical details

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

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Electrical Configuration

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 Amps
Vtest (contact-contact)	1600 V (AC), 2250 V (DC)
Vtest (contact-shell)	1850 V (AC), 2600 V (DC)
Contact retention	40 N
Contact Type	Crimp
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)
Low Voltage	3
Wire Size/AWG	20 - 18
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)
Weight	5.67 g

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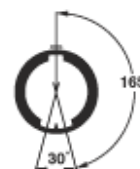
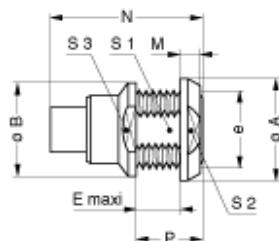
Environment

Technical domain	Motorsport, Security and Defence
Environmental protection (IP rating)	IP50
Minimal temperature	-15°C / +200°C
Climatical 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
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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 [EGN.1F.665.ZZM](#)

Tools

Positionner [DCE.91.131.FVM](#)











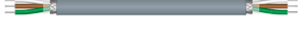

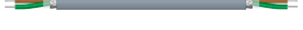

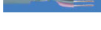




Extraction tool [DCF.93.131.4LT](#)

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	

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Cable PartNumber	Material	Colour	Cable image
3280	PVC	Black	
60080	PVC	Grey	

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