



Summary

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Number of contacts Low Voltage	7
Wire Size/AWG	26 - 22
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.307.XLC
Series	F - Rugged Push-Pull

Technical details

https://www.lemo.com/int_en/solutions/optima/f-rugged-push-pull/een-1f-307-xlm.html

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Electrical Configuration

Contact Termination Low voltage	Crimp
R (max)	6.1 mOhm
Insert configuration value	1F.307 - 7 Low Voltage
Insulator	L: PEEK (UL 94 / V-0/1.5)
Rated current	7 Amps
Vtest (contact-contact)	1450 V (AC), 2050 V (DC)
Vtest (contact-shell)	1450 V (AC), 2050 V (DC)
Contact retention	22 N
Contact Type	Crimp
Max. Conductor	0.34 mm ² (AWG 22)
Min. Conductor	0.14 mm ² (AWG 26)
Bucket Dia.	0.8 mm (0.031in)
Contact Dia.	0.7 mm (0.028in)
Number of contacts Low Voltage	7
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)
Weight	6.01 g

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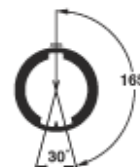
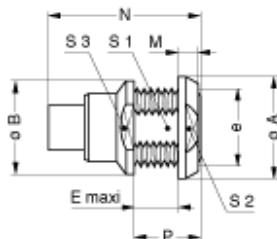
Environment

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	EGG.0B.655.ZZM
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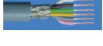




Tools

Positionner	DCE.91.070.BVM
Extraction tool	DCF.93.070.4LT
Crimp tool	DPC.91.701.V

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Cables

Cable PartNumber	Material	Colour	Cable image
CMN.07.T26.037QGZE	TPR (medical)	Grey	
CMN.07.T28.044PGZE		grey	
CMN.07.T28.044PNZE			
270250	PVC	Grey	
70140	PVC	Grey	
7041	PVC	Grey	
7050	PVC	Black	
717920	PVC	Grey	
CTR.75.030.121875G	PVC	Grey	

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