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Summary

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Number of contacts Low Voltage	3
Wire Size/AWG	32 - 28
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Rear Mounted
Locking system	Push-pull
Jacket cable outside diameter [mm]	2.20 - 6.30 mm
Size	FF
Series	F - Rugged Push-Pull

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

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Technical details

Electrical Configuration

Number of contacts Low Voltage	3
Contact Termination Low voltage	Crimp
R (max)	8.7 mOhm
Insulator	L: PEEK (UL 94 / V-0/1.5)
Rated current	3 A
Contact retention	12 N
Max. Conductor	0.09 mm ² (AWG 28)
Min. Conductor	0.035 mm ² (AWG 32)
Bucket Dia.	0.45 mm (0.018in)
Contact Dia.	0.5 mm (0.02in)
Wire Size/AWG	32 - 28
Gender	Standard

Form & Material

Shell style / Model id	PE - Straight 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 (alpha=42, gamma=30, plug: male contacts, receptacle: female contacts)
Colour	Grey
Weight	3.23 g

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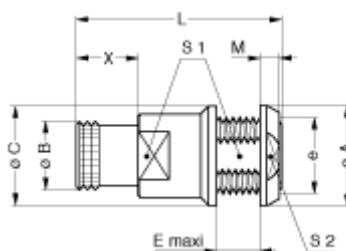
Environment

Technical domain	Motorsport, Security and Defence
Environmental sealing (IP rating)	IP67
Endurance	1000 mating cycles
Temperature range	-15°C / +200°C (max. temperature valid for short periods of use.)
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

Cable termination protection	Heatshrink
Fixation type	Heatshrink
Jacket cable outside diameter [mm]	2.20 - 6.30 mm

Drawings



Dimensions

	M	A	B	L	E	e	C	S1	X
mm.	2.5	10	6.3	20.7	6	M7x0.50	11	6.4	5.7
in.	0.1	0.39	0.25	0.81	0.24		0.43	0.25	0.22

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Recommended By Lemo

Accessories

Replacement contact	EGG.00.654.ZZM
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Tools









Spanner 2	DCM.65.088.AZ4
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Positionner	DCE.91.050.0VM
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Extraction tool	DCC.05.02B.LAG
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Crimp tool	DPC.91.701.V
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Cables

Cable PartNumber	Material	Colour	Cable image
CMN.03.T28.031PGCE	PVC	GREY	
CMN.03.T28.031PGZE		grey	
CMN.03.T28.031PNCE	PVC	Black	
CMN.03.T28.031PNZE			
30110	PVC	Grey	
3041	PVC	Grey	
3050	PVC	Black	
3081	PVC	Black	
3280	PVC	Black	
60080	PVC	Grey	

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