



Image for illustrative purpose only

Summary

[Request a quote](#)

[f series](#)

Number of contacts Low Voltage	3
Wire Size/AWG	20 - 18
Gender	Reverse Gender
Plug	Plug - Straight
Locking system	Push-pull
Jacket cable outside diameter [mm]	3.80 - 10.70 mm
Size	1F
Suggested matching part	HES.1F.303.CLDP PHS.1F.303.CLC
Series	F - Rugged Push-Pull

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

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

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	FG - Straight plug
Plug	Straight
Housing material	Brass (chrome plated [SAE AMS 2460]) shell and nut, other pieces brass
Locking system	Push-pull
Keying	3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts)
Weight	12.15 g

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

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

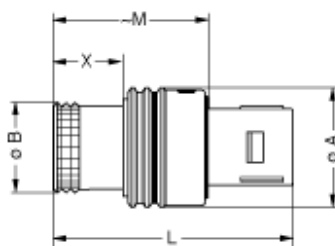
Environment

Technical domain	Motorsport, Security and Defence
Environmental sealing (IP rating)	IP67
Endurance	5000 mating cycles
Temperature range	-55°C / +200°C (max. temperature valid for short periods of use.)
Climatic Category	50/175/21 (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	>1000 hr

Cable fixation

Cable termination protection	Heatshrink
Fixation type	Heatshrink
Jacket cable outside diameter [mm]	3.80 - 10.70 mm

Drawings



Dimensions

	M	A	B	L	X
mm.	17.9	14	10.7	27.8	8
in.	0.7	0.55	0.42	1.09	0.31

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

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.

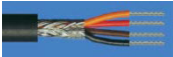
Recommended By Lemo

Accessories	
Replacement contact	EGN.1F.665.ZZM
Compatible cap	BFG.1F.100.XAZ
Tools	
Positionner	DCE.91.131.FVM
Extraction tool	DCF.93.131.4LT
Crimp tool	DPC.91.701.V

CAD

Documents	
Eplan	Download

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			
130240	PVC	Black	
130250	PVC	Grey	
230500	PVC	Grey	
230750	PVC	Grey	
30110	PVC	Grey	
30260	PVC	Black	
3220	PVC	Black	
3280	PVC	Black	
60080	PVC	Grey	

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

LEMO products and services are provided "as is". LEMO makes no warranties or representations with regard to LEMO product & services or use of them, express, implied or statutory, including for accuracy, completeness, or security. The user is fully responsible for his products and applications using LEMO components.