## **FGS.1M.303.CLMM**





Image for illustrative purpose only

# **Summary**

### Request a quote

#### Catalog

Number of contacts Low Voltage	3
Wire Size/AWG	20 - 16
Gender	Reverse Gender
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Series	M - Rugged Ratchet coupling

# **Technical details**

### **Electrical Configuration**

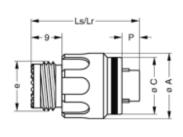
Number of contacts Low Voltage	3
Contact Termination Low voltage	Crimp
R (max)	3.6 mOhm
Insert configuration value	1M.303 - 3 Low Voltage
Insulator	L: PEEK
Rated current	15.5 A
Contact retention	40 N
Max. Conductor	1 mm² (AWG 18)
Min. Conductor	0.5 mm² (AWG 20)
Bucket Dia.	1.4 mm (0.055in)
Contact Dia.	1.3 mm (0.051in)
Wire Size/AWG	20 - 16
Gender	Reverse Gender
Form & Material	
Shell style / Model id	FG - Straight plug with arctic grip and MIL spec backend
Plug	Straight
Housing material	Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces
Locking system	Ratchet
Keying	S: 3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts)
Colour	Grey
Weight	10.67 g

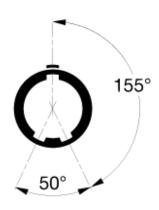
#### **Environment**

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Endurance	3000 mating cycles
Temperature range	-55°C / $+200$ °C (max. temperature valid for short periods of use.)
EMI Shielding EIA 364-66A	>= 80 dB (1 GHz), >=70 dB (3 GHz), >= 58 dB (6 GHz) >= 40 dB (10 GHz)
Gunfire vibration	25 Hz - 2000 Hz, 3 axis (Apache helicopter)
Humidity (max)	21 days at 95%
Lighting strike EIA 364-76	10K amps - 6 times
Shock Resistance	300 g [ 3 ms]
Thermal shock	5 cycles: -65°C to +150°C
Vibration-Random	37.8 g rms - 3 axes, 4 hr amb [50 Hz - 2000 Hz]
Vibration-Sine	30 g, 3 axes, 12 hr [10 Hz - 2000 Hz]
Salt Spray Corrosion	>1000 hr
Cable fixation	
Cable termination protection	For backshell MIL-DTL-38999M
Fixation type	MIL-DTL-38999M
Jacket cable outside diameter [mm]	4.85 - 9.70 mm

# **Drawings**







### **Dimensions**

	Α	С	е	Ls	Lr	P	
mm.	15.9	14.2	M12x1.0	26.4	26.4	3.9	
in.	0.63	0.56		1.04	1.04	0.15	

# **Recommended By Lemo**

#### **Accessories**

Replacement contact	EGN.0M.665.ZZM
Compatible cap	BGF.1M.100.XAV
Tools	
Positionner	DCE.91.130.5MVM
Extraction tool	DCC.13.15B.LAG

## 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	<b>3</b>
CMN.03.T20.049PGZE		grey	3 =
CMN.03.T20.049PNZE			
230500	PVC	Grey	<b>&gt;</b>
230750	PVC	Grey	
3220	PVC	Black	
330150	PVC	Grey	