



Image for illustrative purpose only

Summary

Request a quote

Catalog	
Number of contacts Low Voltage	2
Wire Size/AWG	20 - 16
Gender	Standard
Socket / Receptacle	Socket / Receptacle - Fixed Panel Front Mounted
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.85 - 9.70 mm
Size	1M
Suggested matching part	FMN.1M.302.XLC
Series	M - Rugged Ratchet coupling

Technical details

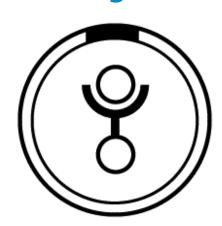
Electrical Configuration

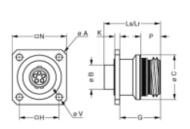
Number of contacts Low Voltage	2				
Contact Termination Low voltage	Crimp				
R (max)	3.6 mOhm				
Insert configuration value	1M.302 - 2 Low Voltage				
Insulator	L: PEEK				
Rated current	19 A				
Contact retention	40 N				
Max. Conductor	1 mm^2 (AWG 18)				
Min. Conductor	0.5 mm^2 (AWG 20)				
Bucket Dia.	1.4 mm (0.055in)				
Contact Dia.	1.3 mm (0.051in)				
Wire Size/AWG	20 - 16				
Gender	Standard				
Form & Material					
Shell style / Model id	ED - Fixed receptacle with square flange				
Socket / Receptacle	Fixed Panel Front Mounted				
Housing material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass				
Locking system	Ratchet				
Keying	N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)				
Colour	Grey				
Weight	5.49 g				

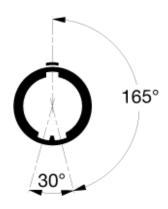
Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV				
Environmental sealing (IP rating)	IP68				
Endurance	3000 mating cycles				
Temperature range	-20°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	max. 48 hr				
Cable fixation					
Jacket cable outside diameter [mm]	4.85 - 9.70 mm				

Drawings







Dimensions

	A	В	С	G	Н	K	Ls	Lr	N	Р	SV
mm.	23.8	5.95	14.2	12.8	12.9	1.5	18.3	18.3	18.4	5.3	3.3
in.	0.94	0.23	0.56	0.5	0.51	0.06	0.72	0.72	0.72	0.21	0.13

$\underline{https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/edn-1m-302-xlm.html}$

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Recommended By Lemo

Accessories

Replacement contact	EGN.0M.665.ZZM		
Compatible cap	BGE.1M.200.XAZ		
Tools			
Positionner	DCE.91.130.5MVM		
Extraction tool	DCF.93.131.4LT		
Crimp tool	DPC.91.701.V		

Cables

Cable PartNumber	Material	Colour	Cable image
CMN.02.T18.064UNCU			
CMN.02.T20.047PGZE		grey	
CMN.02.T20.047PNZE			
CMN.02.T20.048QGZE	TPR (medical)	Grey	-
CMN.02.T28.030PGCE	PVC	GREY	= =
CMN.02.T28.030PGZE		grey	-
CMN.02.T28.030PNCE	PVC	Black	>
CMN.02.T28.030PNZE			= 5
102080	PVC	Grey	
120184	PVC	Black	>10 Dec.
120240	PVC	Black	
120250	PVC	Grey	>
120500	PVC	Grey	>
120501	PVC	Grey	>
120751	PVC	Grey	>
20140	PVC	Grey	-1-
20140	PVC	Grey	-1-
20141	PVC	Grey	
20142	PVC	Red	
20143	PVC	Green	- e
20144	PVC	Black	
20145	PVC	Yellow	- 5 - 5 -
20146	PVC	Black	= 12 B =
20240	PTFE	White	*
20260	PVC	Black	
20264	PVC	Black	== 8
20266	PVC	Violet	== 6
2050	PVC	Black	=======================================
20550	PUR	Black	-
20560	PUR	White	←
2080	PVC	Grey	
220151	PVC	Grey	= 5
220750	PVC	Grey	× ×
2221	PVC	Black	
2260	PTFE	White	==
2280	PVC	Black	
320150	PVC	Grey	
4082	PVC	Grey	
CMB.02.210.635	PUR	Black	

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