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Summary

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Number of contacts Low Voltage	66
Wire Size/AWG	26 - 22
Gender	Reverse Gender
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	14.25 - 28.50 mm
Size	5M
Suggested matching part	EDX.5M.366.XRY44
Series	M - Rugged Ratchet coupling

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/fgx-5m-366-xry44.html

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Technical details

Electrical Configuration

Number of contacts Low Voltage	66
Contact Termination Low voltage	Crimp
Insert configuration value	5M.366_44 - 44 (0.7 mm) + 22 (1.3 mm) Low Voltage
Insulator	R: PEEK (mixed multipole)
Rated current	0.7 mm : 3 A, 1.3 mm : 6 A
Test voltage (kV rms) Contact-contact	0.7 mm : 1.65 kV, 1.3 mm : 1.95 kV
Test voltage (kV rms) Contact-shell	0.7 mm : 2.70 kV, 1.3 mm : 1.80 kV
Bucket Dia.	44x0.87 mm, 22x1.6 mm
Contact Dia.	44x0.7 mm, 22x1.3 mm
Wire Size/AWG	26 - 22
Gender	Reverse Gender

Form & Material

Shell style / Model id	FG - Straight plug with arctic grip
Plug	Straight
Housing material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass
Locking system	Ratchet
Keying	X: 5 keys (alpha=100, beta=125, gamma=40, delta=20, plug: female contacts, receptacle: male contacts)
Colour	Grey
Weight	45.32 g

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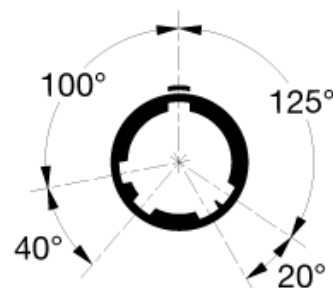
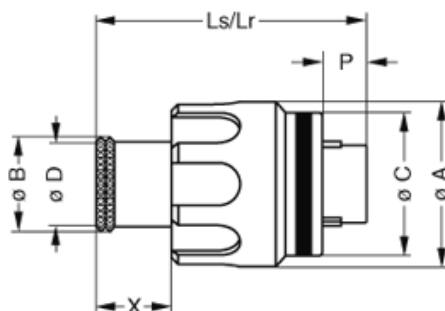
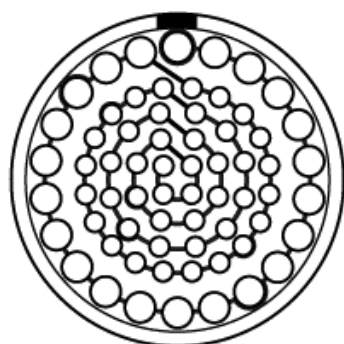
Environment

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	max. 48 hr

Cable fixation

Cable termination protection	Heatshrink
Fixation type	Heatshrink
Jacket cable outside diameter [mm]	14.25 - 28.50 mm

Drawings



Dimensions

	A	B	C	D	Ls	Lr	P	X
mm.	34.9	29.7	33.5	28.5	28.6	28.6	3.4	7.6
in.	1.37	1.17	1.32	1.12	1.13	1.13	0.13	0.3

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Recommended By Lemo

Accessories	
Replacement contact	FGN.0M.555.ZZC
Compatible cap	BGF.5M.100.XAV
Tools	
Positionner	DCE.91.070.5MVC
Positionner 2	DCE.91.130.5MVG
Extraction tool	DCC.07.04B.LAG
Extraction tool 2	DCC.13.15B.LAG
Crimp tool	DPC.91.701.V