



Summary

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Low Voltage	66
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Free
Locking system	Ratchet
Jacket cable outside diameter [mm]	14.25 - 28.50 mm
Size	5M
Series	M - Rugged Ratchet coupling

Technical details

Electrical Configuration

Insert configuration value	5M.366_44 - 44 (0.7 mm) + 22 (1.3 mm) Low Voltage
Insulator	R: PEEK (mixed multipole)
Rated current	3 Amps
Contact Type	Special
Low Voltage	66
Gender	Reverse Gender

https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/phx-5m-366-xrwt44.html

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Form & Material

Shell style / Model id	PH - Free receptacle with arctic grip and mold stop
Socket / Receptacle	Free
Housing material	Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass
Locking system	Ratchet
Keying	5 keys (alpha=100, beta=125, gamma=40, delta=20, plug: female contacts, receptacle: male contacts)
Weight	44.26 g

Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental protection (IP rating)	IP68
Minimal temperature	-20°C / +200°C
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

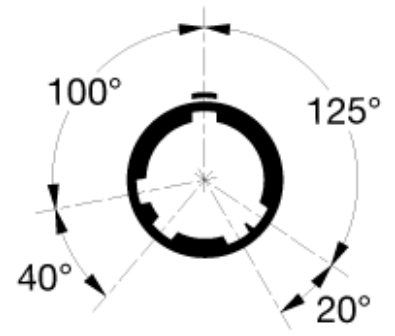
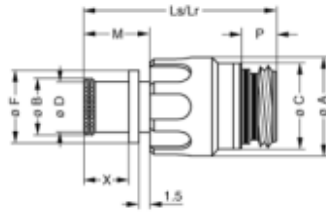
Cable fixation

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

Drawings

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Dimensions

	A	B	C	D	F	Ls	Lr	M	P	X
mm.	34.9	29.7	33.5	28.5	31.4	31.2	31.2	10.6	7.9	7.6
in.	1.37	1.17	1.32	1.12	1.24	1.23	1.23	0.42	0.31	0.3

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