



## Summary

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Number of contacts Low Voltage	66
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Fixed Panel Front Mounted
Locking system	Ratchet
Size	5M
Series	M - Rugged Ratchet coupling

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/edx-5m-366-xld.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/edx-5m-366-xld.html)

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# Technical details

## Electrical Configuration

Contact Termination Low voltage	PCB - Straight
Insert configuration value	5M.366 - 66 (0.9 mm) Low Voltage
Insulator	L: PEEK
Rated current	3 A
Test voltage (kV rms) Contact-contact	1.60
Test voltage (kV rms) Contact-shell	1.70
Contact Type	Print (straight)
Number of contacts Low Voltage	66
Gender	Reverse Gender

## Form & Material

Shell style / Model id	ED - Fixed receptacle with square flange for printed circuit
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	5 keys (alpha=100, beta=125, gamma=40, delta=20, plug: female contacts, receptacle: male contacts)
Weight	25.84 g

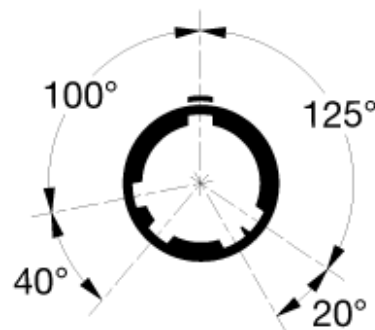
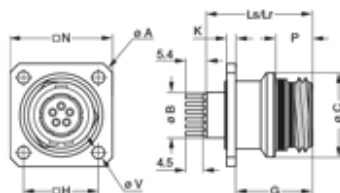
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## Environment

Technical domain	Motorsport, Security and Defence, Transportation, Aerospace and UAV
Environmental sealing (IP rating)	IP68
Endurance	3000 mating cycles
Temperature range	-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

## Drawings



## Dimensions

	<b>A</b>	<b>B</b>	<b>C</b>	<b>G</b>	<b>H</b>	<b>K</b>	<b>Ls</b>	<b>Lr</b>	<b>N</b>	<b>P</b>	<b>SV</b>
mm.	43.7	22.9	33.5	14.5	27	2	20	21.9	32.5	7.9	3.3
in.	1.72	0.9	1.32	0.57	1.06	0.08	0.79	0.86	1.28	0.31	0.13

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