

Special



*Image for illustrative purpose only*

## Summary

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Number of contacts Low Voltage	5
Gender	Reverse Gender
Socket / Receptacle	Socket / Receptacle - Fixed Panel Front Mounted
Locking system	Ratchet
Size	0M
Suggested matching part	<a href="#">FMS.0M.305.XLM</a>
Series	M - Rugged Ratchet coupling

# Technical details

## Electrical Configuration

Number of contacts Low Voltage	5
Contact Termination Low voltage	PCB - Straight
R (max)	6.1 mOhm
Insert configuration value	0M.305 - 5 Low Voltage
Insulator	L: PEEK
Rated current	6.5 A
Test voltage (kV rms) Contact-contact	1.25
Test voltage (kV rms) Contact-shell	1
Contact Dia.	0.7 mm (0.028in)
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	S: 3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts)
Colour	Grey
Weight	3.52 g

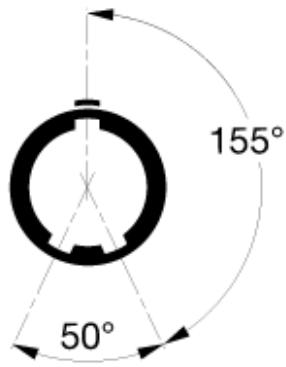
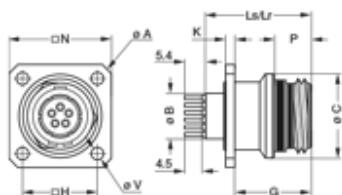
[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/eds-0m-305-xld.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/eds-0m-305-xld.html)

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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 (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%
Lightning 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.	20.6	4.72	12.7	12.8	11	1.5	18.3	18.3	16	5.3	2.7
in.	0.81	0.19	0.5	0.5	0.43	0.06	0.72	0.72	0.63	0.21	0.11

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/eds-0m-305-xld.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/eds-0m-305-xld.html)

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# Recommended By Lemo

## Accessories

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Compatible cap	<a href="#">BGE.0M.200.XAZ</a>
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## CAD

### Documents

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PCB	<a href="#">Download</a>
PCB Eagle	<a href="#">Download</a>
Kicad	<a href="#">Download</a>
PCB Altium	<a href="#">Download</a>

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