

Standard

*Image for illustrative purpose only*

## Summary

[Request a quote](#)[M series](#)

Number of contacts Low Voltage	5
Wire Size/AWG	26 - 22
Gender	Reverse Gender
Plug	Plug - Straight
Locking system	Ratchet
Jacket cable outside diameter [mm]	4.00 - 8.00 mm
Size	0M
Suggested matching part	<a href="#">EGS.0M.305.XLC</a>
Series	M - Rugged Ratchet coupling

# Technical details

## Electrical Configuration

Number of contacts Low Voltage	5
Contact Termination Low voltage	Crimp
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 retention	22 N
Max. Conductor	0.34 mm <sup>2</sup> (AWG 22)
Min. Conductor	0.14 mm <sup>2</sup> (AWG 26)
Bucket Dia.	0.8 mm (0.031in)
Contact Dia.	0.7 mm (0.028in)
Wire Size/AWG	26 - 22
Gender	Reverse Gender

## Form & Material

Shell style / Model id	FG - Straight plug with arctic grip and mold stop
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	S: 3 keys (beta=155, gamma=50, plug: female contacts, receptacle: male contacts)
Colour	Grey
Weight	6.17 g

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

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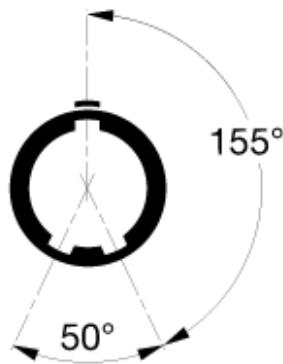
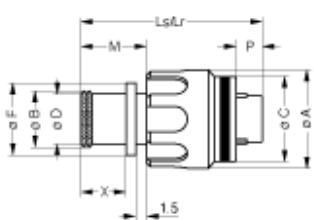
## Environment

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

## Cable fixation

Cable termination protection	For overmolding
Fixation type	Mold stop (overmolding)
Jacket cable outside diameter [mm]	4.00 - 8.00 mm

## Drawings



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

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## Dimensions

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>F</b>	<b>Ls</b>	<b>Lr</b>	<b>M</b>	<b>P</b>	<b>X</b>
mm.	14.4	8.8	12.7	8	10.7	27.1	27.1	9.7	3.9	6.7
in.	0.57	0.35	0.5	0.31	0.42	1.07	1.07	0.38	0.15	0.26

## Recommended By Lemo

### Accessories

Replacement contact [EGN.0M.655.ZZM](#)

Compatible cap [BGF.0M.100.XAV](#)

### Tools

Positionner [DCE.91.070.3MVM](#)

Extraction tool [DCC.07.04B.LAG](#)

Crimp tool [DPC.91.701.V](#)

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