



*Image for illustrative purpose only*

## Summary

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|                                |  |
|--------------------------------|--|
| Number of contacts Low Voltage | 2  |
| Gender                         | Standard                                       |
| Socket / Receptacle            | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system                 | Ratchet  |
| Size                           | 1M   |
| Suggested matching part        | <a href="#">FMN.1M.302.XLC</a>                 |
| Series                         | M - Rugged Ratchet coupling                    |

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/hen-1m-302-xlnp.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/hen-1m-302-xlnp.html)

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# Technical details

## Electrical Configuration

|                                 |                        |
|---------------------------------|------------------------|
| Contact Termination Low voltage | PCB - Straight         |
| R (max)                         | 3.6 mOhm               |
| Insert configuration value      | 1M.302 - 2 Low Voltage |
| Insulator                       | L: PEEK                |
| Rated current                   | 19 A                   |
| Contact Type                    | Print (straight)       |
| Contact Dia.                    | 1.3 mm (0.051in)       |
| Number of contacts Low Voltage  | 2                      |
| Gender                          | Standard               |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | HE - Fixed receptacle, nut fixing for printed circuit, watertight                                       |
| Socket / Receptacle    | Fixed Panel Rear Mounted  |
| Housing material       | Aluminium (nickel plated [SAE AMS QQ N 290], anthracite color) shell and nut, other pieces bronze/brass |
| Locking system         | Ratchet   |
| Keying                 | N: 3 keys (beta=165, gamma=30, plug: male contacts, receptacle: female contacts)                        |
| Colour                 | Grey  |
| Variant                | Watertight unmated (connector to device)  |
| Weight                 | 5.76 g  |

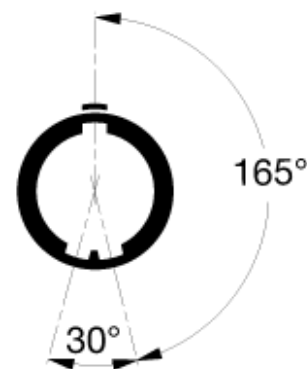
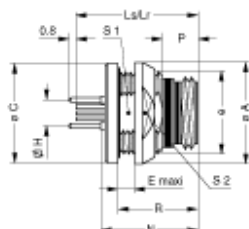
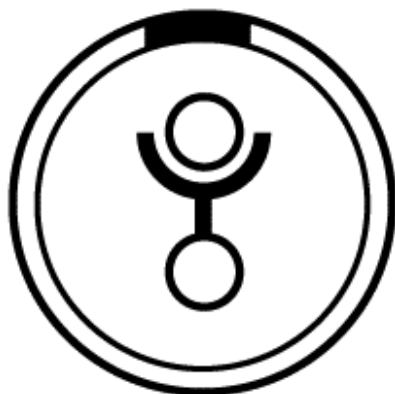
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## Environment

|                                   |  |
|-----------------------------------|--|
| Technical domain                  | Motorsport, Security and Defence, Transportation, Aerospace and UAV    |
| Environmental sealing (IP rating) | IP68   |
| Endurance                         | 3000 mating cycles   |
| Temperature range                 | -20°C / +80°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]  |
| 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

|     | A    | C    | e        | E   | H    | Ls   | Lr   | N    | P    | R    | S1   | S2   |
|-----|------|------|----------|-----|------|------|------|------|------|------|------|------|
| mm. | 18   | 17.8 | M14x1.00 | 5   | 7.62 | 20.8 | 21   | 16.8 | 5.3  | 13.8 | 12.5 | 16   |
| in. | 0.71 | 0.7  |          | 0.2 | 0.3  | 0.82 | 0.83 | 0.66 | 0.21 | 0.54 | 0.49 | 0.63 |

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# Recommended By Lemo

## Accessories

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Compatible cap [BGK.1M.200.XAZ](#)

## Tools

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Spanner wrench [DCM.65.160.AZ](#)

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