

Standard



*Image for illustrative purpose only*

## Summary

[Request a quote](#)

[M series](#)

[Application leaflet Security Defence](#)

|                                |                                                |
|--------------------------------|------------------------------------------------|
| Number of contacts Low Voltage | 4                                              |
| Gender                         | Standard                                       |
| Socket / Receptacle            | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system                 | Ratchet                                        |
| Panel Drill Hole               | M13                                            |
| Size                           | 0M                                             |
| Suggested matching part        | <a href="#">FMP.0M.304.XLC</a>                 |
| Series                         | M - Rugged Ratchet coupling                    |

[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/hep-0m-304-xlnp.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/hep-0m-304-xlnp.html)

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# Technical details

## Electrical Configuration

|                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| Number of contacts Low Voltage            | 4                                            |
| Contact Termination Low voltage           | PCB - Straight                               |
| R (max) - electrical contact resistance   | 6.1 mOhm                                     |
| Insert configuration value                | 0M.304 - 4 Low Voltage                       |
| Footprint IPC Class3 compatibility        | Yes                                          |
| Class3 Productibility Level Compatibility | A (General Design Producibility - Preferred) |
| Insulator                                 | L: PEEK                                      |
| Rated current                             | 7 A                                          |
| Test voltage contact-contact              | 1.6 kV DC                                    |
| Test voltage contact-shell                | 1.3 kV DC                                    |
| Contact Dia.                              | 0.7 mm (0.028 in)                            |
| 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                 | P: 3 keys (beta=150, gamma=60, plug: male contacts, receptacle: female contacts)                        |
| Colour                 | Grey                                                                                                    |
| Variant                | Watertight unmated (connector to device)                                                                |
| Weight                 | 7.72 g                                                                                                  |
| Panel Drill Hole       | M13                                                                                                     |

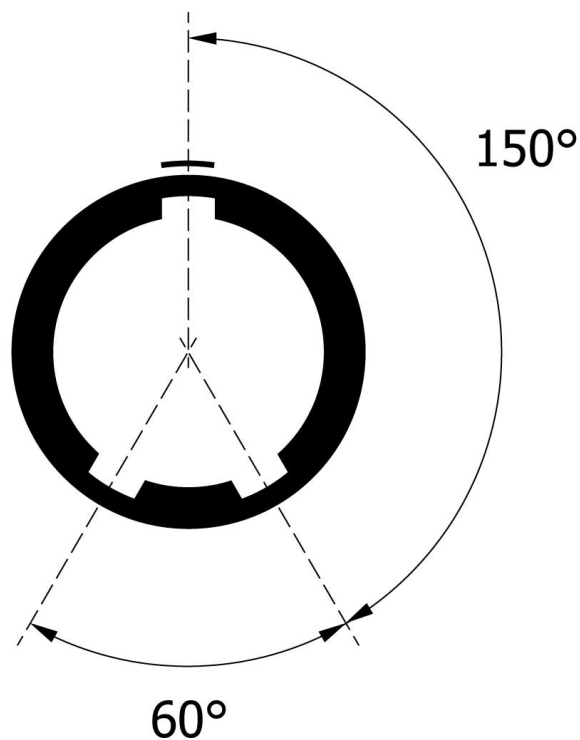
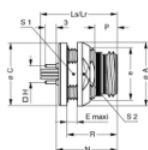
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## Environment

|                                   |                                                                                         |
|-----------------------------------|-----------------------------------------------------------------------------------------|
| 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         | $\geq 80$ dB (1 GHz), $\geq 70$ dB (3 GHz), $\geq 58$ dB (6 GHz), $\geq 40$ 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



[https://www.lemo.com/int\\_en/solutions/optima/m-ratchet-coupling/hep-0m-304-xlnp.html](https://www.lemo.com/int_en/solutions/optima/m-ratchet-coupling/hep-0m-304-xlnp.html)

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## Dimensions

|     | A    | C    | e        | E   | H    | Ls   | Lr   | N    | P    | R    | S1   | S2   |
|-----|------|------|----------|-----|------|------|------|------|------|------|------|------|
| mm. | 17   | 16.8 | M13x0.75 | 5   | 5.08 | 20.8 | 21   | 16.8 | 5.3  | 13.8 | 11.5 | 14   |
| in. | 0.67 | 0.66 |          | 0.2 | 0.2  | 0.82 | 0.83 | 0.66 | 0.21 | 0.54 | 0.45 | 0.55 |

## Recommended By Lemo

### Caps

|                |                                |
|----------------|--------------------------------|
| Compatible cap | <a href="#">BGK.0M.200.XAZ</a> |
| Cap 2          | <a href="#">BMK.0M.200.XAZ</a> |

### Tools

|                |                               |
|----------------|-------------------------------|
| Spanner 2      | <a href="#">DCM.65.140.AZ</a> |
| Spanner wrench | <a href="#">DCM.65.140.AZ</a> |