



*Image for illustrative purpose only*

## Summary

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|                                |  |
|--------------------------------|--|
| Number of contacts Low Voltage | 4  |
| Wire Size/AWG                  | 30 - 22  |
| Gender                         | Standard                                       |
| Socket / Receptacle            | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system                 | Push-pull                                      |
| Size                           | 1B   |
| Series                         | B - Indoor keyed                               |

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/hcg-1b-304-clvp.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/hcg-1b-304-clvp.html)

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# Technical details

## Electrical Configuration

|   |                           |
|---|---------------------------|
| Contact Termination Low voltage             | PCB - Elbow               |
| R (max)                                     | 4.8 mOhm                  |
| Insert configuration value                  | 1B.304 - 4 Low Voltage    |
| Insulator                                   | L: PEEK (UL 94 / V-0/1.5) |
| Vtest (contact-contact)                     | 1350 V (AC), 1910 V (DC)  |
| Vtest (contact-shell)                       | 1450 V (AC), 2050 V (DC)  |
| Contact Type                                | Print (elbow)             |
| Contact Dia.                                | 0.9 mm (0.035in)          |
| Number of contacts Low Voltage              | 4                         |
| Number of differentiated pairs (High speed) | 1                         |
| Wire Size/AWG                               | 30 - 22                   |
| Gender                                      | Standard                  |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | HC - Fixed receptacle, nut fixing, watertight or vacuum-tight (watertight when mated, back panel mounting)                    |
| Socket / Receptacle    | Fixed Panel Rear Mounted  |
| Housing material       | Brass (chrome plated [SAE AMS 2460]) shell and collet nut, nickel plated [SAE AMS QQ N 290] brass latch sleeve and mid pieces |
| Locking system         | Push-pull   |
| Keying                 | 1 key (alpha=0, plug: male contacts, receptacle: female contacts)   |
| Colour                 | Grey  |
| Variant                | Watertight unmated (connector to device)  |
| Weight                 | 23.08 g   |

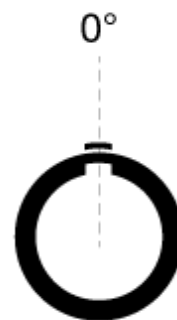
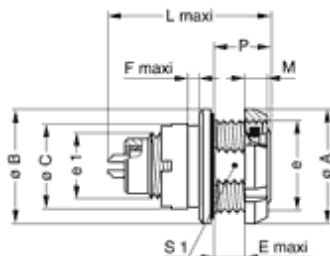
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## Environment

|                                   |  |
|-----------------------------------|--|
| Technical domain                  | Audio Video, Energy and Industrial, Medical, Semiconductor, Specialties and Other, Test and Measurement, Transportation, Aerospace and UAV |
| Environmental sealing (IP rating) | IP68   |
| Endurance                         | 5000 mating cycles   |
| Temperature range                 | -20°C / +100°C   |
| Climatical Category               | 20/80/21   |
| Humidity (max)                    | <=95% [at 60 deg C /140 F]   |
| Shielding (min)                   | 75 dB (10 MHz)   |
| Shielding (min)                   | 40 dB (1 GHz)  |
| Shock Resistance                  | 100 g [ 6 ms]  |
| Vibration                         | 15 g [10 Hz - 2000 Hz]   |
| Pressure                          | 60 bars  |
| Salt Spray Corrosion              | >1000 hr   |

## Drawings



## Dimensions

|     | <b>B</b> | <b>C</b> | <b>e</b> | <b>A</b> | <b>F</b> | <b>L</b> | <b>M</b> | <b>P</b> | <b>S1</b> | <b>E</b> | <b>e1</b> |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|-----------|
| mm. | 20       | 14.5     | M16x1.0  | 20       | 2        | 30.3     | 3.5      | 10       | 14.5      | 6.2      | M12x1.0   |
| in. | 0.79     | 0.57     |          | 0.79     | 0.08     | 1.19     | 0.14     | 0.39     | 0.57      | 0.24     |           |

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