



*Image for illustrative purpose only*

## Summary

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|                                    |                            |
|------------------------------------|----------------------------|
| Protocol                           | USB 3.1 (10Gb/s)           |
| Wire Size/AWG                      | 26 - 22                    |
| Gender                             | Standard                   |
| Socket / Receptacle                | Socket / Receptacle - Free |
| Locking system                     | Push-pull                  |
| Jacket cable outside diameter [mm] | 5.30 - 6.20 mm             |
| Size                               | 2K                         |
| Series                             | K - Outdoor keyed          |

[https://www.lemo.com/int\\_en/solutions/originals/k-outdoor-keyed/phg-2k-542-cllc60z.html](https://www.lemo.com/int_en/solutions/originals/k-outdoor-keyed/phg-2k-542-cllc60z.html)

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# Technical details

## Electrical Configuration

|   |                                 |
|---|---------------------------------|
| Insert configuration value                  | 2K.542 - USB 3.1 (up to 10Gb/s) |
| Insulator                                   | L: PEEK (UL 94 / V-0/1.5)       |
| Rated current                               | 5 A                             |
| Number of differentiated pairs (High speed) | 3                               |
| Protocol                                    | USB 3.1 (10Gb/s)                |
| Wire Size/AWG                               | 26 - 22                         |
| Gender                                      | Standard                        |

## Form & Material

|                        |  |
|------------------------|--|
| Shell style / Model id | PH - Free receptacle, cable collet and nut for fitting a bend relief   |
| Socket / Receptacle    | Free   |
| Housing material       | Brass (chrome plated [SAE AMS 2460]) shell, collet nut and latch sleeve, nickel plated [SAE AMS QQ N 290] brass mid pieces |
| Locking system         | Push-pull  |
| Keying                 | 1 key (alpha=0, plug: male contacts, receptacle: female contacts)  |
| Colour                 | Grey   |
| Variant                | Nut for fitting a bend relief  |
| Weight                 | 50.21 g  |

## Environment

|                                   |   |
|-----------------------------------|---|
| Technical domain                  | Audio Video, Energy and Industrial, Medical, Test and Measurement |
| Environmental sealing (IP rating) | IP68  |
| Endurance                         | 5000 mating cycles  |
| Temperature range                 | -55°C / +200°C  |
| Climatical Category               | 50/175/21   |
| Humidity (max)                    | <=95% [at 60 deg C /140 F]  |
| Shielding (min)                   | 95 dB (10 MHz)  |
| Shielding (min)                   | 80 dB (1 GHz)   |
| Salt Spray Corrosion              | >1000 hr  |

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## Cable fixation

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|                              |                       |
|------------------------------|-----------------------|
| Cable termination protection | For cable bend relief |
|------------------------------|-----------------------|

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|               |              |
|---------------|--------------|
| Fixation type | Cable collet |
|---------------|--------------|

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|                                    |                |
|------------------------------------|----------------|
| Jacket cable outside diameter [mm] | 5.30 - 6.20 mm |
|------------------------------------|----------------|

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