



*Image for illustrative purpose only*

## Summary

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|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Number of contacts Low Voltage     | 10                                             |
| Wire Size/AWG                      | 34 - 28                                        |
| Gender                             | Standard                                       |
| Socket / Receptacle                | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system                     | Push-pull                                      |
| Jacket cable outside diameter [mm] | 1.00 - 10.60 mm                                |
| Size                               | 1B                                             |
| Suggested matching part            | <a href="#">FGG.1B.310.CLAD52Z</a>             |
| Series                             | B - Indoor keyed                               |

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/ecg-1b-310-cll.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/ecg-1b-310-cll.html)

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# Technical details

## Electrical Configuration

|                                 |                               |
|---------------------------------|-------------------------------|
| Number of contacts Low Voltage  | 10                            |
| Contact Termination Low voltage | Solder                        |
| R (max)                         | 8.7 mOhm                      |
| Insert configuration value      | 1B.310 - 10 Low Voltage       |
| Insulator                       | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                   | 2.5 A                         |
| Vtest (contact-contact)         | 1.3 kV (DC)                   |
| Vtest (contact-shell)           | 2.1 kV (DC)                   |
| Max. Solid Conductor            | 0.09 mm <sup>2</sup> (AWG 28) |
| Max. Stranded Conductor         | 0.09 mm <sup>2</sup> (AWG 28) |
| Bucket Dia.                     | 0.45 mm (0.018in)             |
| Contact Dia.                    | 0.5 mm (0.02in)               |
| Wire Size/AWG                   | 34 - 28                       |
| Gender                          | Standard                      |

## Form & Material

|                        |                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Shell style / Model id | EC - Fixed receptacle with two nuts (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                 | G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)                                                          |
| Colour                 | Grey                                                                                                                          |
| Weight                 | 10.24 g                                                                                                                       |

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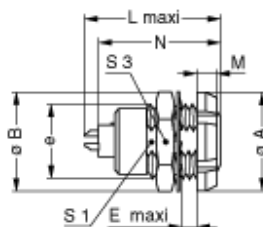
## Environment

|                                   |                                                                                                                                            |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Technical domain                  | Audio Video, Energy and Industrial, Medical, Semiconductor, Specialties and Other, Test and Measurement, Transportation, Aerospace and UAV |
| Environmental sealing (IP rating) | IP50                                                                                                                                       |
| Endurance                         | 5000 mating cycles                                                                                                                         |
| Temperature range                 | -55°C / +250°C                                                                                                                             |
| Climatical Category               | 50/175/21                                                                                                                                  |
| 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]                                                                                                                     |
| Salt Spray Corrosion              | >1000 hr                                                                                                                                   |

## Cable fixation

|                                    |                 |
|------------------------------------|-----------------|
| Jacket cable outside diameter [mm] | 1.00 - 10.60 mm |
|------------------------------------|-----------------|

## Drawings



## Dimensions

|     | A    | B    | e       | E    | L    | M    | N    | S1   | S3   |
|-----|------|------|---------|------|------|------|------|------|------|
| mm. | 16   | 15.8 | M12x1.0 | 6    | 23   | 3.5  | 21.1 | 10.5 | 14   |
| in. | 0.63 | 0.62 |         | 0.24 | 0.91 | 0.14 | 0.83 | 0.41 | 0.55 |

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# Recommended By Lemo

## Accessories

Compatible cap [BRE.1S.200.NAS](#)

# Cables

| Cable PartNumber   | Material      | Colour | Cable image                                                                         |
|--------------------|---------------|--------|-------------------------------------------------------------------------------------|
| CMN.10.T28.052PGZE |               | grey   |  |
| CMN.10.T28.052PNZE |               |        |  |
| CMN.10.T28.053QGZE | TPR (medical) | Grey   |  |
| 110280             | PVC           | Black  |  |