



*Image for illustrative purpose only*

## Summary

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|                                |                                   |
|--------------------------------|-----------------------------------|
| Number of contacts Low Voltage | 7                                 |
| Gender                         | Standard                          |
| Socket / Receptacle            | Socket / Receptacle - Elbow       |
| Locking system                 | Push-pull                         |
| Size                           | 1B                                |
| Suggested matching part        | <a href="#">FGG.1B.307.CLAD42</a> |
| Series                         | B - Indoor keyed                  |

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/exg-1b-307-hln.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/exg-1b-307-hln.html)

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# Technical details

## Electrical Configuration

|                                 |                            |
|---------------------------------|----------------------------|
| Number of contacts Low Voltage  | 7                          |
| Contact Termination Low voltage | PCB - Straight             |
| R (max)                         | 6.1 mOhm                   |
| Insert configuration value      | 1B.307/EXG - 7 Low Voltage |
| Insulator                       | L: PEEK (UL 94 / V-0/1.5)  |
| Rated current                   | 2 A                        |
| Test voltage contact-body shell | 1.45 kV rms                |
| Test voltage contact-contact    | 1.45 kV rms                |
| Contact Dia.                    | 0.7 mm (0.028in)           |
| Gender                          | Standard                   |

## Form & Material

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| Shell style / Model id | EX - Elbow receptacle for printed circuit with two nuts (solder or screw fixing, back panel mounting) |
| Socket / Receptacle    | Elbow                                                                                                 |
| Housing material       | PPS (Polyphenylene) shell, other pieces nickel plated [SAE AMS QQ N 290] brass                        |
| Locking system         | Push-pull                                                                                             |
| Keying                 | G: 1 key (alpha=0, plug: male contacts, receptacle: female contacts)                                  |
| Weight                 | 14.57 g                                                                                               |

## 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              | >144 hr                                                                                                                                    |

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# Recommended By Lemo

## Accessories

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|                |                                |
|----------------|--------------------------------|
| Compatible cap | <a href="#">BRE.1S.200.NAS</a> |
|----------------|--------------------------------|