



*Image for illustrative purpose only*

## Summary

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|                                    |  |
|------------------------------------|--|
| Number of contacts Low Voltage     | 12   |
| Wire Size/AWG                      | 20 - 18  |
| Gender                             | Reverse Gender                                 |
| Socket / Receptacle                | Socket / Receptacle - Fixed Panel Rear Mounted |
| Locking system                     | Push-pull                                      |
| Jacket cable outside diameter [mm] | 10.60 - 12.00 mm                               |
| Size                               | 4B   |
| Suggested matching part            | <a href="#">FGJ.4B.312.CYMD12</a>              |
| Series                             | B - Indoor keyed                               |

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/pfj-4b-312-cycd12.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/pfj-4b-312-cycd12.html)

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# Technical details

## Electrical Configuration

|                                 |                              |
|---------------------------------|------------------------------|
| Number of contacts Low Voltage  | 12                           |
| Contact Termination Low voltage | Crimp                        |
| R (max)                         | 3.6 mOhm                     |
| Insert configuration value      | 4B.312 - 12 Low Voltage      |
| Insulator                       | Y: PEEK for crimp contacts   |
| Rated current                   | 12 A                         |
| Vtest (contact-contact)         | 2.7 kV (DC)                  |
| Vtest (contact-shell)           | 2.6 kV (DC)                  |
| Contact retention               | 40 N                         |
| Max. Conductor                  | 1 mm <sup>2</sup> (AWG 18)   |
| Min. Conductor                  | 0.5 mm <sup>2</sup> (AWG 20) |
| Bucket Dia.                     | 1.4 mm (0.055in)             |
| Contact Dia.                    | 1.3 mm (0.051in)             |
| Wire Size/AWG                   | 20 - 18                      |
| Gender                          | Reverse Gender               |

## Form & Material

|                        |   |
|------------------------|---|
| Shell style / Model id | PF - Fixed receptacle, with two nuts, cable clamp (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                 | 2 keys (alpha=37.5, plug: female contacts, receptacle: male contacts)   |
| Colour                 | Grey  |
| Weight                 | 149.95 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 (max. temperature valid for short periods of use.)  |
| 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

|                                    |  |
|------------------------------------|--|
| Cable termination protection       | Standard back nut (no additional protection) |
| Fixation type                      | Cable collet                                 |
| Jacket cable outside diameter [mm] | 10.60 - 12.00 mm                             |

# Recommended By Lemo

## Accessories

|                     |                                |
|---------------------|--------------------------------|
| Replacement contact | <a href="#">FGG.4B.565.ZZC</a> |
|---------------------|--------------------------------|

## Tools

|                 |                                |
|-----------------|--------------------------------|
| Spanner 2       | <a href="#">DCM.65.270.AZ</a>  |
| Positionner     | <a href="#">DCE.91.134.BVC</a> |
| Extraction tool | <a href="#">DCC.13.15B.LAG</a> |
| Crimp tool      | <a href="#">DPC.91.701.V</a>   |
| Spanner wrench  | <a href="#">DCM.65.270.AZ</a>  |

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# Cables

| Cable PartNumber | Material | Colour | Cable image   |
|------------------|----------|--------|---|
| 412750           | PVC      | Grey   |  |

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