



*Image for illustrative purpose only*

## Summary

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|                                    |                  |
|------------------------------------|------------------|
| Number of contacts Low Voltage     | 10               |
| Wire Size/AWG                      | 20 - 18          |
| Gender                             | Reverse Gender   |
| Plug                               | Plug - Straight  |
| Locking system                     | Push-pull        |
| Jacket cable outside diameter [mm] | 7.80 - 9.20 mm   |
| Size                               | 3B               |
| Series                             | B - Indoor keyed |

[https://www.lemo.com/int\\_en/solutions/originals/b-indoor-keyed/fgj-3b-310-cymd92.html](https://www.lemo.com/int_en/solutions/originals/b-indoor-keyed/fgj-3b-310-cymd92.html)

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# Technical details

## Electrical Configuration

|                                 |                              |
|---------------------------------|------------------------------|
| Number of contacts Low Voltage  | 10                           |
| Contact Termination Low voltage | Crimp                        |
| R (max)                         | 3.6 mOhm                     |
| Insert configuration value      | 3B.310 - 10 Low Voltage      |
| Insulator                       | Y: PEEK for crimp contacts   |
| Rated current                   | 12 A                         |
| Vtest (contact-contact)         | 2.1 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 | FG - Straight plug, cable collet  |
| Plug                   | Straight  |
| 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                 | 51 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] | 7.80 - 9.20 mm                               |

# Recommended By Lemo

## Accessories

|                     |                                |
|---------------------|--------------------------------|
| Replacement contact | <a href="#">EGG.3B.665.ZZM</a> |
| Compatible cap      | <a href="#">BFG.3B.112.NAS</a> |


## Tools

|                 |                                  |
|-----------------|----------------------------------|
| Positionner     | <a href="#">DCE.91.133.BVM</a>   |
| Extraction tool | <a href="#">DCC.13.15B.LAG</a>   |
| Crimp tool      | <a href="#">DPC.91.701.V</a>     |
| Spanner wrench  | <a href="#">DCD.3B.ZZZ.PA140</a> |

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# Cables

| Cable PartNumber   | Material | Colour | Cable image   |
|--------------------|----------|--------|---|
| CMN.10.T20.080PGZE |          | grey   |  |
| CMN.10.T20.080PNZE |          |        |  |
| CMN.10.T20.080QGC  | TPR      | Grey   |   |

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