

[Standard](#)

*Image for illustrative purpose only*

## Summary

[Request a quote](#)[SE series](#)[Customer Drawing](#)

|                                    |                                                                      |
|------------------------------------|----------------------------------------------------------------------|
| Number of contacts Low Voltage     | 4                                                                    |
| Wire Size/AWG                      | 30 - 22                                                              |
| Plug                               | Plug - Straight                                                      |
| Locking system                     | Push-pull                                                            |
| Jacket cable outside diameter [mm] | 5.20 - 5.70 mm                                                       |
| Size                               | 1S                                                                   |
| Suggested matching part            | <a href="#">ERA.1S.304.CLL</a><br><a href="#">PCA.1S.304.CLLC57Z</a> |
| Series                             | S - Indoor Stepped Insert                                            |

[https://www.lemo.com/int\\_en/solutions/originals/s-indoor-stepped-insert/ffa-1s-304-clac57z.html](https://www.lemo.com/int_en/solutions/originals/s-indoor-stepped-insert/ffa-1s-304-clac57z.html)

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# Technical details

## Electrical Configuration

|                                    |                               |
|------------------------------------|-------------------------------|
| Number of contacts Low Voltage     | 4                             |
| Contact Termination Low voltage    | Solder                        |
| R (max)                            | 4.8 mOhm                      |
| Insert configuration value         | 1S.304 - 4 Low Voltage        |
| Footprint IPC Class3 compatibility | No                            |
| Insulator                          | L: PEEK (UL 94 / V-0/1.5)     |
| Rated current                      | 10 A                          |
| Test voltage (kV DC)               | 1.8                           |
| Max. Solid Conductor               | 0.34 mm <sup>2</sup> (AWG 22) |
| Air clearance                      | 1.1 mm                        |
| Creepage distance                  | 1.1 mm                        |
| Bucket Dia.                        | 0.8 mm (0.031in)              |
| Contact Dia.                       | 0.9 mm (0.0354in)             |
| Wire Size/AWG                      | 30 - 22                       |

## Form & Material

|                        |                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Shell style / Model id | FFA - Straight plug, cable collet and nut for fitting a bend relief                                                           |
| 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                 | Hermaphroditic keying (half moon insert) with male pin 1                                                                      |
| Colour                 | Grey                                                                                                                          |
| Variant                | Nut for fitting a bend relief                                                                                                 |
| Weight                 | 14.79 g                                                                                                                       |

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## Environment

|                                   |                                                                         |
|-----------------------------------|-------------------------------------------------------------------------|
| Technical domain                  | Audio Video, Energy and Industrial, Semiconductor, Test and Measurement |
| Environmental sealing (IP rating) | IP50                                                                    |
| Endurance                         | 5000 mating cycles                                                      |
| Temperature range                 | -55°C / +250°C (max. temperature valid for short periods of use.)       |
| Climatic Category                 | 55/175/21                                                               |
| 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       | For cable bend relief |
| Fixation type                      | Cable collet          |
| Jacket cable outside diameter [mm] | 5.20 - 5.70 mm        |

# Recommended By Lemo

## Accessories

|                |                                 |
|----------------|---------------------------------|
| Compatible cap | <a href="#">BFG.1B.100.PCZG</a> |
|----------------|---------------------------------|

# CAD

## Documents

|       |                          |
|-------|--------------------------|
| Eplan | <a href="#">Download</a> |
|-------|--------------------------|

[https://www.lemo.com/int\\_en/solutions/originals/s-indoor-stepped-insert/ffa-1s-304-clac57z.html](https://www.lemo.com/int_en/solutions/originals/s-indoor-stepped-insert/ffa-1s-304-clac57z.html)

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# Cables

| Cable PartNumber | Material | Colour | Cable image                                                                         |
|------------------|----------|--------|-------------------------------------------------------------------------------------|
| 4080             | PVC      | Grey   |                                                                                     |
| 4220             | PVC      | Black  |  |

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