

[Standard](#)

*Image for illustrative purpose only*

## Summary

[Request a quote](#)[high voltage connector Y S E 05 LEMO](#)[Customer Drawing](#)

|                                    |                                |
|------------------------------------|--------------------------------|
| Number of contacts High Voltage    | 1                              |
| Wire Size/AWG                      | 28 - 20                        |
| Plug                               | Plug - Straight                |
| Locking system                     | Push-pull                      |
| Jacket cable outside diameter [mm] | 2.20 - 3.20 mm                 |
| Size                               | 1S                             |
| Suggested matching part            | <a href="#">ERA.1S.405.CTL</a> |
| Series                             | S - Indoor Stepped Insert      |

[https://www.lemo.com/int\\_en/solutions/originals/s-indoor-stepped-insert/ffb-1s-405-ctac32.html](https://www.lemo.com/int_en/solutions/originals/s-indoor-stepped-insert/ffb-1s-405-ctac32.html)

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# Technical details

## Electrical Configuration

|                                    |                         |
|------------------------------------|-------------------------|
| Number of contacts High Voltage    | 1                       |
| Contact Termination High voltage   | Solder                  |
| Insert configuration value         | 1S.405 - 1 High Voltage |
| Footprint IPC Class3 compatibility | No                      |
| Insulator                          | T: PTFE                 |
| Rated current                      | 8 A                     |
| Test voltage (kV DC)               | 10.5                    |
| Creepage distance                  | 10.5 mm                 |
| Contact Dia.                       | 1.3                     |
| Wire Size/AWG                      | 28 - 20                 |

## Form & Material

|                        |                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Shell style / Model id | FFB - Straight plug, cable collet and safety locking ring                                                                     |
| 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                 | Circular, male                                                                                                                |
| Colour                 | Grey                                                                                                                          |
| Weight                 | 14.75 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       | Standard back nut (no additional protection) |
| Fixation type                      | Cable collet                                 |
| Jacket cable outside diameter [mm] | 2.20 - 3.20 mm                               |

# Recommended By Lemo

## Accessories

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

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