

## Data sheet | Item number: 770-844

Socket for PCBs; straight; 4-pole; Cod. B; gray

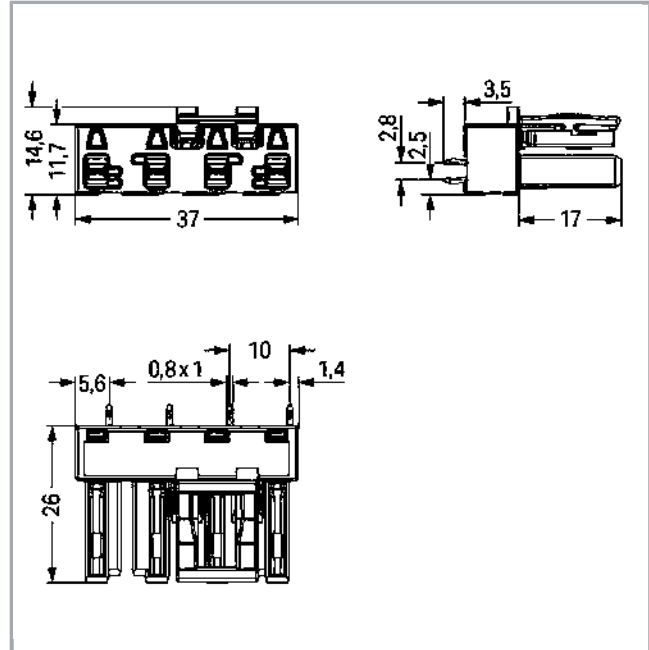
[www.wago.com/770-844](http://www.wago.com/770-844)



RoHS   
Compliant

BOMcheck.net

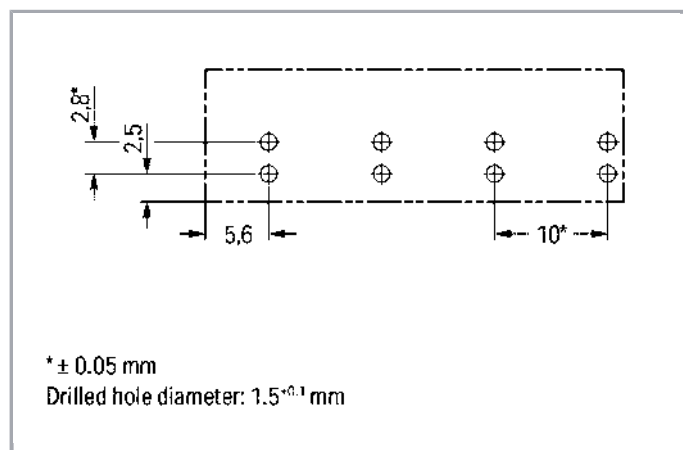
Color:



Subject to changes. Please also observe the further product documentation!

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## Item description

- Protected against mismatching and maintenance-free
- Push-in CAGE CLAMP® spring pressure connection technology allows solid conductors to be simply pushed into a unit
- Two-wire connection per pole for loops or bridges
- Additional variable coding is possible
- Components can be clearly printed on and color-coded to meet custom requirements

### Note:

All connectors for mounted installations (snap-in versions for lighting fixtures or devices, all types of PCB and distribution connectors) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for flying leads (plug /socket).

### Note on mismatching protection:

All WINSTA® components are 100% protected against mismatching when:

- a.) plugging different numbers of poles
- b.) plugging while rotated 180
- c.) plugging while laterally staggered
- d.) plugging one pole

### Safety information 1:

Application note for the U.S. market (USR): Some versions may also be used for current interruption in accordance with the UL certificate in select applications with currents below 16 A and voltages up to 600 V. For further information, please contact your local sales office.

## Data

### Electrical data

Note on Contact Resistance

approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket

Subject to changes. Please also observe the further product documentation!



## Ratings per IEC/EN 60664-1

| Ratings per                     | IEC/EN 60664-1   |
|---------------------------------|--|
| Rated voltage (III / 3)         | 400 V  |
| Rated impulse voltage (III / 3) | 6 kV   |
| Rated current                   | 25 A   |
| Legend (ratings)                | (III / 3) $\triangleq$ Overvoltage category III / Pollution degree 3 |

## Approvals per UL 1977

|   |       |
|---|-------|
| Rated voltage per UL 1977 (factory wiring only) | 600 V |
| Rated current per UL 1977 (factory wiring only) | 23 A  |

## Connection data

|                            |   |
|----------------------------|---|
| No. of poles               | 4 |
| Total number of potentials | 4 |
| Number of levels           | 1 |

## Geometrical Data

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| Pin spacing                       | 10 mm / 0.394 inch                |
| Width                             | 37 mm / 1.457 inch                |
| Height                            | 29,5 mm / 1.161 inch              |
| Height from the surface           | 26 mm / 1.024 inch                |
| Depth                             | 14,6 mm / 0.575 inch              |
| Solder pin length                 | 3.5 mm                            |
| Solder pin dimensions             | 1 x 0,8 mm                        |
| Drilled hole diameter (tolerance) | 1,5 <sup>(-0,1 ... +0,1)</sup> mm |

## Mechanical data

|   |  |
|---|--|
| Coding                                  | B  |
| Mating force of a plug-in connection    | approx. 20 ... 70 N (depending on pole number)   |
| Retention force of a plug-in connection | Locked: > 80 N   |
| Unmating force of a plug-in connection  | Unlocked: approx. 20 ... 70 N (depending on pole number)   |
| Number of mating cycles                 | 200, without resistive load<br><br>100, with resistive load $I_N = 25$ A, tested (4 mm <sup>2</sup> /AWG 12) |

Subject to changes. Please also observe the further product documentation!



|                   |          |
|-------------------|----------|
| Design            | straight |
| Marking           | 1 2 3 4  |
| Potential marking | 1 2 3 4  |

### Plug connection

|                                    |                         |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector connection type          | for PCB                 |
| Mismating protection               | Yes                     |
| Mating direction to the PCB        | 90°                     |
| Locking of plug-in connection      | locking lever           |
| Locking lever                      | yes                     |

### PCB contact

|                                     |                            |
|-------------------------------------|----------------------------|
| PCB contact                         | THT                        |
| Solder pin arrangement              | 2 in-line solder pins/pole |
| Number of solder pins per potential | 2                          |

### Material Data

|                          |  |
|--------------------------|--|
| Color                    | gray                                     |
| Insulating material      | Polyamide 66 (PA 66)                     |
| Clamping spring material | Chrome nickel spring steel (CrNi)        |
| Contact material         | Copper or copper alloy (surface-treated) |
| Fire load                | 0.157 MJ                                 |
| Weight                   | 8.5 g                                    |

### Environmental Requirements

|  |  |
|--|--|
| Processing temperature                 | -5 ... +40 °C                              |
| Continuous operating temperature       | -35 ... +85 °C                             |
| Note on Continuous Service Temperature | Insulating parts for temperatures ≤ 105 °C |

### Commercial data

|                   |               |
|-------------------|---------------|
| Product Group     | 20 (WINSTA)   |
| Packaging type    | BOX           |
| Country of origin | PL            |
| GTIN              | 4017332802451 |

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Customs Tariff No.



85366990990

## Approvals / Certificates


### Country specific Approvals

| Logo   | Approval                               | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | <b>CCA</b><br>DEKRA Certification B.V. | EN 61984                 | 2173495.01       |

### Ship Approvals

| Logo  | Approval  | Additional Approval Text | Certificate name |
|---|---|--------------------------|------------------|
|     | <b>ABS</b><br>American Bureau of Shipping               | -                        | 19-HG1868589-PDA |
|    | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001Z6       |
|  | <b>LR</b><br>Lloyds Register                            | IEC 61984                | 02/20050 (E6)    |

### UL-Approvals

| Logo   | Approval                                       | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | <b>cULus</b><br>Underwriters Laboratories Inc. | UL 1977                  | E45171 Sec. 9    |

## Counterpart



Item no.770-254

Plug; 4-pole; Cod. B; 4,00 mm<sup>2</sup>; gray[www.wago.com/770-254](http://www.wago.com/770-254)

Item no.771-9994/005-103

pre-assembled interconnecting cable; Socket/plug; 4-pole; Cod. B; Control cable 4 x 1.0 mm<sup>2</sup>; 1 m; 1,00 mm<sup>2</sup>; gray[www.wago.com/771-9994/005-103](http://www.wago.com/771-9994/005-103)

Item no.771-9994/205-103

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pre-assembled connecting cable; Eca; Plug/open-ended; 4-pole; Cod. B; Control cable 4 x 1.0 mm<sup>2</sup>; 1 m; 1,00 mm<sup>2</sup>; gray [www.wago.com/771-9994/205-103](http://www.wago.com/771-9994/205-103)

## Compatible products

### protection



Item no.: 770-201

Lockout cap; 12-pole, separable; 12-pole; for sockets; black

[www.wago.com/770-201](http://www.wago.com/770-201)



Item no.: 770-221

Lockout cap; for socket; 12-pole; separable; white

[www.wago.com/770-221](http://www.wago.com/770-221)

## Downloads

### CAD/CAE-Data

#### CAD data

| 2D/3D Models 770-844 | URL | Download |
|----------------------|-----|----------|
|                      |     |          |

#### CAE data

| EPLAN Data Portal 770-844 | URL | Download |
|---------------------------|-----|----------|
|                           |     |          |

### PCB Design

| Symbol and Footprint 770-844 | URL | Download |
|------------------------------|-----|----------|
|                              |     |          |

CAX data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

### Supported formats:

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X

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- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

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## Installation Notes

## Product family

<i>WINSTA</i>® MIDI special  
[Show all products from the family](#)

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