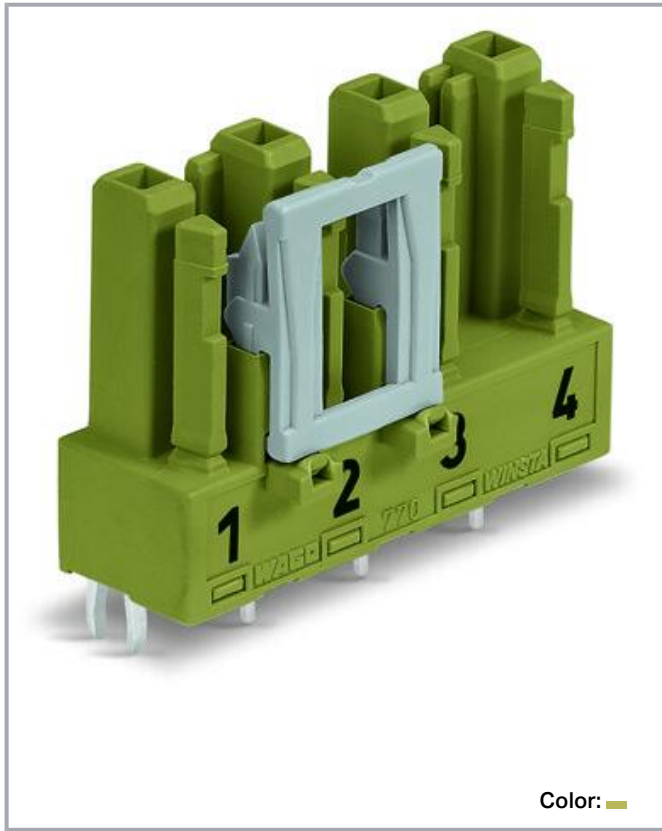


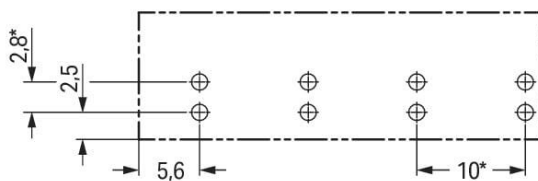
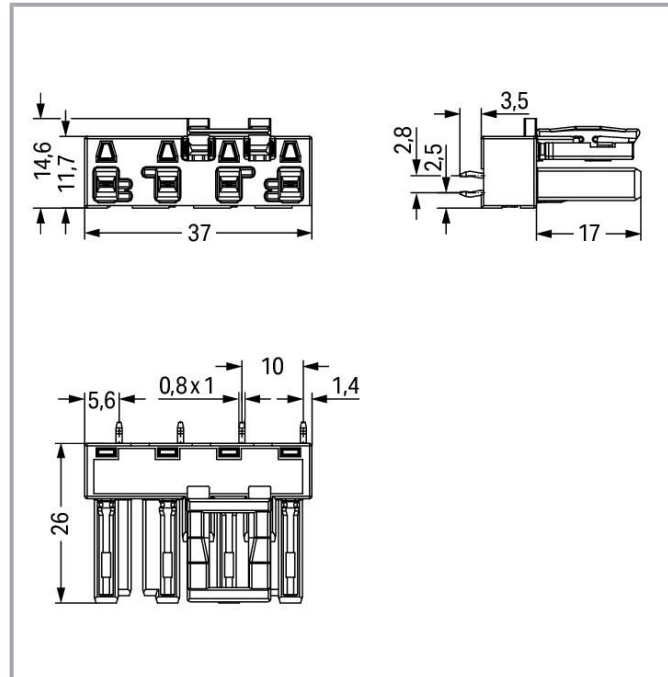
## Data sheet | Item number: 770-864

Socket for PCBs; straight; 4-pole; Cod. B; light green

[www.wago.com/770-864](http://www.wago.com/770-864)



Color:



\*  $\pm 0.05$  mm  
Drilled hole diameter:  $1.5^{+0.1}$  mm

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

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## Item description

### Female connector/socket WINSTA® MIDI B coding

The WINSTA® MIDI female connector/socket with protection against mismating are compact but high-quality PCB terminal blocks. They offer easy operation and the greatest flexibility for installation. Our pluggable PCB connectors give you a universal pluggable connection system for your devices that meets all the conditions for a stable device connection that is easy to put into operation. For greater protection in electrical installations, the pcb connectors is provided with mechanical protection against mismating. Solutions like the WINSTA® MIDI pcb connectors with B coding are appropriate for applications involving process control, such as for lighting or in data networks. The rated current and voltage are important criteria for selecting a pcb connectors: They tell us about the product's domains of use. This product has a current rating of 25 A – as a result it is also suitable for powerful loads. The WINSTA® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates safe electrification. Thanks to the included test slot, it is possible to check connections even when they are plugged in. This saves time, labor, and money.

### Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with protection against mismating from WAGO.

- 
- protection against mismating eliminates errors
- simple circuits
- with B coding for controllers, for example sun blinds and lighting fixtures
- rapid, structured electrical installation

## Data

### Notes

Variants:

Other pole markings

Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

## Electrical data

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

WAGO GmbH & Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.



## Ratings per IEC/EN

|                               |  |
|-------------------------------|--|
| Ratings per                   | IEC/EN 60664-1   |
| Nominal 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 |

## Ratings per IEC/EN – Notes

|                      |  |
|----------------------|--|
| Note (rated current) | 25 A for 3-pole load<br>20 A for 4-pole load |
|----------------------|--|

## Ratings per UL 1977

|                         |  |
|-------------------------|--|
| Note for the US market  | 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. |
| Rated voltage (UL 1977) | 600 V  |
| Rated current UL 1977   | 23 A   |

## General information

|                            |  |
|----------------------------|--|
| Note on contact resistance | approx. 1 m $\Omega$ of contact resistance<br>approx. 0.25 m $\Omega$ contact transition plug/socket |
|----------------------------|--|

## Connection data

|                            |   |
|----------------------------|---|
| Total number of potentials | 4 |
| Number of levels           | 1 |

## Connection 1

|             |   |
|-------------|---|
| Pole number | 4 |
|-------------|---|

## Physical data

|                         |                        |
|-------------------------|------------------------|
| Pin spacing             | 10 mm / 0.394 inches   |
| Width                   | 37 mm / 1.457 inches   |
| Height                  | 29.5 mm / 1.161 inches |
| Height from the surface | 26 mm / 1.024 inches   |

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

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



|                                      |                                   |
|--------------------------------------|-----------------------------------|
| Depth                                | 14.6 mm / 0.575 inches            |
| Solder pin length                    | 3.5 mm                            |
| Solder pin dimensions                | 1 x 0.8 mm                        |
| Drilled hole diameter with tolerance | 1.5 <sup>(-0.1 ... +0.1)</sup> mm |

## Mechanical Data

|   |  |
|---|--|
| Application                             | Control technology                                       |
| Coding                                  | B  |
| Variable coding                         | Yes  |
| Marking                                 | 1 2 3 4  |
| Potential marking                       | 1 2 3 4  |
| 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                              |
| Design                                  | straight   |

## Plug-in connection

|                                    |  |
|------------------------------------|--|
| Contact type (pluggable connector) | Female connector/socket  |
| Connector (connection type)        | for PCB  |
| Mismating protection               | Yes  |
| Note on mismating protection       | All <i>WINSTA</i> ® components are 100% protected against mismating when:<br>a.) plugging different numbers of poles<br>b.) plugging while rotated 180<br>c.) plugging while laterally staggered<br>d.) plugging one pole  |
| Mating direction to the PCB        | 90 °   |
| Locking lever                      | yes  |
| Locking of plug-in connection      | locking lever  |
| Note on locking system             | 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). |

## PCB contact

|             |     |
|-------------|-----|
| PCB contact | THT |
|-------------|-----|

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



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

## Material data

|                             |  |
|-----------------------------|--|
| Note (material data)        | Information on material specifications can be found here |
| Color                       | light green  |
| Insulation material         | Polyamide (PA66)   |
| Flammability class per UL94 | V0   |
| Clamping spring material    | Chrome-nickel spring steel (CrNi)                        |
| Contact material            | Copper or copper alloy; surface-treated                  |
| Contact plating             | Tin  |
| Fire load                   | 0.16 MJ  |
| Weight                      | 8.5 g  |

## Environmental requirements

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

## Commercial data

|                       |               |
|-----------------------|---------------|
| Product Group         | 20 (Winsta)   |
| eCl@ss 10.0           | 27-44-06-05   |
| eCl@ss 9.0            | 27-44-06-05   |
| ETIM 8.0              | EC002560      |
| ETIM 7.0              | EC002560      |
| PU (SPU)              | 50 pcs        |
| Packaging type        | box           |
| Country of origin     | PL            |
| GTIN                  | 4050821445791 |
| Customs tariff number | 85366990990   |



## Environmental Product Compliance

|                        |                         |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|



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

## Approvals / Certificates




### General approvals

| Logo   | Approval                                       | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | <b>CCA</b><br>DEKRA Certification B.V.         | IEC 61984                | NL-32104         |
|  | <b>CCA</b><br>DEKRA Certification B.V.         | EN 61984                 | 2173495.01       |
|  | <b>cURus</b><br>Underwriters Laboratories Inc. | UL 1977                  | E45171           |

### Declarations of conformity and manufacturer's declarations

| Logo   | Approval  | Additional Approval Text | Certificate name |
|--|---|--------------------------|------------------|
|   | <b>EU-Declaration of Conformity</b><br>WAGO GmbH & Co. KG | -                        | -                |
|  | <b>UK-Declaration of Conformity</b><br>WAGO GmbH & Co. KG | -                        | -                |

### Approvals for marine applications

| Logo  | Approval  | Additional Approval Text | Certificate name         |
|---|---|--------------------------|--------------------------|
|   | <b>ABS</b><br>American Bureau of Shipping               | -                        | 19-<br>HG1868589-<br>PDA |
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001Z6               |
|  | <b>LR</b><br>Lloyds Register                            | IEC 61984                | LR22429487TA             |

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

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.

## Counterpart



Item no. 770-274

Plug; 4-pole; Cod. B; 4,00 mm²; light green

[www.wago.com/770-274](http://www.wago.com/770-274)

Item no. 771-9994/005-105

pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. B; H05VV-F 4 x 1.0 mm²; 1 m; 1,00 mm²; light green

[www.wago.com/771-9994/005-105](http://www.wago.com/771-9994/005-105)

Item no. 771-9994/205-105

pre-assembled connecting cable; Eca; Plug/open-ended; 4-pole; Cod. B; Control cable 4 x 1.0 mm²; 1 m; 1,00 mm²; light green

[www.wago.com/771-9994/205-105](http://www.wago.com/771-9994/205-105)

## Required accessories

### Cover

#### Cover



Item no.: 770-201

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

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

Item no.: 770-221

Lockout cap; 12-pole, separable; for sockets; Plastic; white

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

## Downloads

### CAD/CAE-Data

#### CAD data

2D/3D Models 770-864

URL

Download

#### PCB Design

Symbol and Footprint 770-864

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

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

WAGO GmbH &amp; Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.



- 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
- 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

#### CAE data

|                      |     |          |
|----------------------|-----|----------|
| ZUKEN Portal 770-864 | URL | Download |
|----------------------|-----|----------|

#### Asset Administration Shell

|                                    |     |          |
|------------------------------------|-----|----------|
| Asset Administration Shell 770-864 | URL | Download |
|------------------------------------|-----|----------|

### Environmental Product Compliance

#### Compliance Search

|  |     |          |
|--|-----|----------|
| Environmental Product Compliance 770-864               | URL | Download |
| Socket for PCBs; straight; 4-pole; Cod. B; light green |     |          |

### Installation Notes

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

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.





## Product family

**WINSTA® MIDI**

[Show all products from the family](#)

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

---

WAGO GmbH & Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.