

**Data sheet | Item number: 890-845**

Socket for PCBs; straight; 5-pole; Cod. B; gray

[www.wago.com/890-845](http://www.wago.com/890-845)



**Color:**

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

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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*® MINI 5-pole

WAGO has various connection solutions for any challenge in building installation, for example, the *WINSTA*® MINI female connector/socket. The pluggable PCB connectors with spring pressure connection technology and Push-in CAGE CLAMP® technology from WAGO allow impact-resistant, maintenance-free, fast terminal connections. The coding options reduce installation errors, allowing fast, secure wiring of all components. Pcb connectors with B coding from the *WINSTA*® MINI line are available in gray, light green, or pink, allowing you to distinguish different circuits, for example for light, pumps or, sun blinds. Usage-specific pole marking is possible, too. Thanks to its particularly minimal dimensions, our *WINSTA*® MINI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology is especially suitable in very restricted spaces, i.e., for connections when very little room is available.

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## Lower costs through fast commissioning and elimination of service expenses – solutions from WINSTA® MINI

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

- protection against mismatching eliminates errors
- compact design for conductors with a cross-section up to 1.5 mm<sup>2</sup>
- for automation controllers
- quick replacement of defective units during ongoing operation

### 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

#### Ratings per IEC/EN

|                               |   |
|-------------------------------|---|
| Ratings per                   | IEC/EN 60664-1  |
| Nominal voltage (III/3)       | 250 V   |
| Rated impulse voltage (III/3) | 4 kV  |
| Rated current                 | 16 A  |
| Note (rated current)          | 13 A for 3-pole load<br>10 A for 4- and 5-pole load       |
| Legend (ratings)              | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

#### 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 5 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   | 12 A  |

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## General information

|                            |  |
|----------------------------|--|
| Note on contact resistance | approx. 1 mΩ of contact resistance<br>approx. 0.25 mΩ contact transition plug/socket |
|----------------------------|--|

## Connection data

|                            |   |
|----------------------------|---|
| Total number of potentials | 5 |
| Number of levels           | 1 |

## Connection 1

|             |   |
|-------------|---|
| Pole number | 5 |
|-------------|---|

## Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 4.4 mm / 0.173 inches    |
| Width                                | 23.6 mm / 0.929 inches   |
| Height                               | 31.9 mm / 1.256 inches   |
| Height from the surface              | 28.4 mm / 1.118 inches   |
| Depth                                | 12.2 mm / 0.48 inches    |
| Solder pin length                    | 3.5 mm                   |
| Solder pin dimensions                | 1 x 0.8 mm               |
| Drilled hole diameter with tolerance | 1.3 <sup>(+0.1)</sup> mm |

## Mechanical Data

|   |   |
|---|---|
| Application                             | Control technology  |
| Coding                                  | B   |
| Variable coding                         | No  |
| Marking                                 | 1 2 3 4 5   |
| Potential marking                       | 1 2 3 4 5   |
| 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>100, with resistive load $I_N = 16$ A, tested (1.5 mm <sup>2</sup> ) |
| Design                                  | straight  |

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



## 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> <sup>®</sup> 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                        |
| 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                       | gray   |
| Cover color                 | gray   |
| Material group              | I  |
| 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                   | 0.093 MJ   |
| Weight                      | 5.3 g  |

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## Environmental requirements

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

## Commercial data

|                       |               |
|-----------------------|---------------|
| 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                  | 4050821889991 |
| Customs tariff number | 85366990990   |

## Environmental Product Compliance

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

## Approvals / Certificates

### General approvals

| Logo | Approval                                       | Additional Approval Text | Certificate name |
|------|--|--------------------------|------------------|
|      | <b>CB</b><br>DEKRA Certification B.V.          | IEC 61984                | NL-64351         |
|      | <b>CB</b><br>DEKRA Certification B.V.          | EN 61984                 | 71-112993        |
|      | <b>cURus</b><br>Underwriters Laboratories Inc. | UL 1977                  | E45171           |
|      | <b>KEMA/KEUR</b><br>DEKRA Certification B.V.   | EN 60320                 | 2148952.04       |

### 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 | -                        | -                |

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Approvals for marine applications

| Logo | Approval  | Additional Approval Text | Certificate name |
|------|---|--------------------------|------------------|
|      | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001Z6       |

Counterpart

|  |  |
|--|--|
| <b>Item no.890-255</b><br>Plug; 5-pole; Cod. B; 1,50 mm <sup>2</sup> ; gray  | <a href="http://www.wago.com/890-255">www.wago.com/890-255</a>                   |
| <b>Item no.891-8995/005-103</b><br>pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. B; 1 m; 1,00 mm <sup>2</sup> ; gray | <a href="http://www.wago.com/891-8995/005-103">www.wago.com/891-8995/005-103</a> |
| <b>Item no.891-8995/205-103</b><br>pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. B; 1 m; 1,00 mm <sup>2</sup> ; gray  | <a href="http://www.wago.com/891-8995/205-103">www.wago.com/891-8995/205-103</a> |

Downloads

CAD/CAE-Data

CAD data

| 2D/3D Models 890-845 | URL | Download |
|----------------------|-----|----------|
|                      |     |          |

PCB Design

| Symbol and Footprint 890-845 | 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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#### CAE data

|                      |                     |                          |
|----------------------|---------------------|--------------------------|
| ZUKEN Portal 890-845 | <a href="#">URL</a> | <a href="#">Download</a> |
|----------------------|---------------------|--------------------------|

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#### Environmental Product Compliance

##### Compliance Search

|   |                     |                          |
|---|---------------------|--------------------------|
| Environmental Product Compliance 890-845<br>Socket for PCBs; straight; 5-pole; Cod. B; gray | <a href="#">URL</a> | <a href="#">Download</a> |
|---|---------------------|--------------------------|

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#### Installation Notes

#### Product family

**WINSTA® MINI**

[Show all products from the family](#)

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