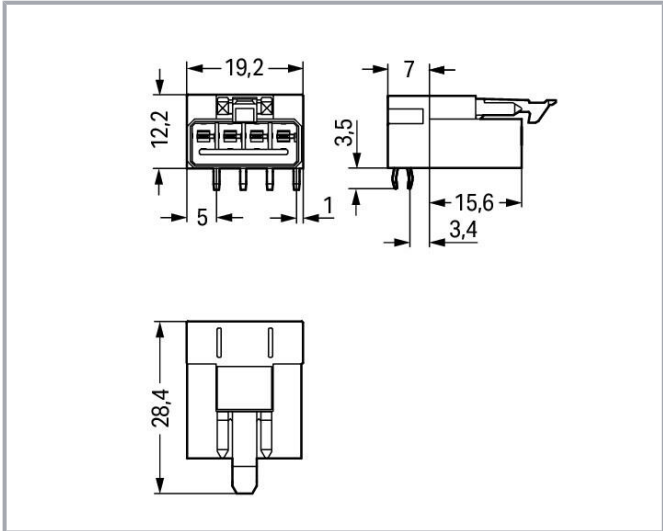
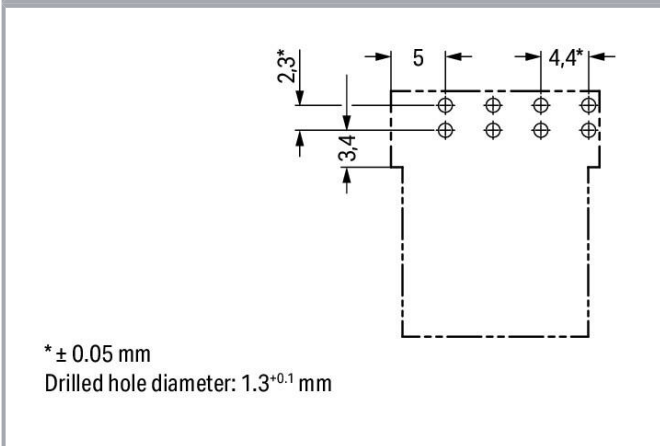


Data sheet | Item number: 890-814/011-000  
Plug for PCBs; angled; 4-pole; Cod. A; black

[www.wago.com/890-814/011-000](http://www.wago.com/890-814/011-000)



Color: ■



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

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## Item description

### Male connector/plug *WINSTA*® MINI with protection against mismatching

The *WINSTA*® MINI male connector/plug 4-pole are compact but powerful PCB terminal blocks. They offer convenient operation and the greatest flexibility for installation. The pluggable PCB connectors with spring pressure connection technology and Push-in CAGE CLAMP® technology from WAGO allow fast, vibration-proof, maintenance-free terminal connections. The color coding and mechanical coding of the pcb connector ensure error-free installation of the individual components – including protection against mismatching. Thanks to the color coding and mechanical A coding of *WINSTA*® MINI pcb connectors, you can clearly distinguish different circuits. Particularly where space is tight, our smallest pluggable connection system, *WINSTA*® MINI, conveniently displays its advantageous properties. It is very compact, and, with Push-in CAGE CLAMP® spring pressure connection technology, it also saves time, since the connection is low-maintenance and can be performed without screw connections.

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

*WINSTA*® is the pluggable connection system that is ideally tailored to the strict requirements of electrical installation. It ensures fast, secure and, above all, error-free installation of components and cables. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with *WINSTA*® MINI pcb connectors with protection against mismatching from WAGO.

- protection against mismatching eliminates errors
- consistent IP40 protection
- for any mains application
- convenient installation and commissioning

## Data

### 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  |
| Legend (ratings)              | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

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## 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  |

## General

Note on contact resistance

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

## Connection data

|                            |                      |
|----------------------------|----------------------|
| Total number of potentials | 4                    |
| Number of levels           | 1                    |
| PE function                | Preceding PE contact |

## Connection 1

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

## Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 4.4 mm / 0.173 inches    |
| Width                                | 19.2 mm / 0.756 inches   |
| Height                               | 15.7 mm / 0.618 inches   |
| Height from the surface              | 12.2 mm / 0.48 inches    |
| Depth                                | 28.4 mm / 1.118 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     | General mains applications |
| Coding          | A                          |
| Variable coding | No                         |
| Marking         | 1/L' 2/L $\frac{1}{3}$ N   |

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|   |  |
|---|--|
| Potential marking                       | 1/L' 2/L $\perp$ N                                       |
| 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                                  | angled   |

### Plug-in connection

|                                    |  |
|------------------------------------|--|
| Contact type (pluggable connector) | Male connector/plug  |
| Connector (connection type)        | for PCB  |
| Mismating protection               | Yes  |
| Note on mismating protection       | All WINSTA <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        | 0°   |
| 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                | black  |
| Cover color          | gray   |
| Material group       | I  |
| Insulation material  | Polyamide (PA66)   |

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|                             |   |
|-----------------------------|---|
| 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                   | 0.083 MJ                                |
| Weight                      | 4.1 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


|                       |               |
|-----------------------|---------------|
| 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                  | 4050821695707 |
| Customs tariff number | 85366990990   |

### Environmental Product Compliance

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

### Approvals / Certificates



#### General approvals

| Logo   | Approval                                | Additional Approval Text | Certificate name |
|--|---|--------------------------|------------------|
|  | CCA<br>DEKRA Certification B.V.         | EN 61535                 | 71-<br>123231    |
|  | CCA<br>DEKRA Certification B.V.         | IEC 61535                | NL-85020         |
|  | cURus<br>Underwriters Laboratories Inc. | UL 1977                  | E45171           |




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






## Declarations of conformity and manufacturer's declarations

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

## Approvals for marine applications

| Logo  | Approval   | Additional Approval Text | Certificate name         |
|---|--|--------------------------|--------------------------|
|    | ABS<br>American Bureau of Shipping               | Steel Vessel Rules       | 19-<br>HG1869855-<br>PDA |
|   | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001Z6               |
|  | LR<br>Lloyds Register                            | EN 61535                 | 08/20047<br>(E2)         |

## Counterpart

|  |  |  |
|--|--|--|
|  | Item no.890-104<br>Socket; with strain relief housing; 4-pole; Cod. A; 1,50 mm <sup>2</sup> ; black  | <a href="http://www.wago.com/890-104">www.wago.com/890-104</a>                   |
|  | Item no.890-204<br>Socket; 4-pole; Cod. A; 1,50 mm <sup>2</sup> ; black  | <a href="http://www.wago.com/890-204">www.wago.com/890-204</a>                   |
|  | Item no.891-8994/006-101<br>pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05VV-F 4G 1.5 mm <sup>2</sup> ; 1 m;<br>1,50 mm <sup>2</sup> ; black | <a href="http://www.wago.com/891-8994/006-101">www.wago.com/891-8994/006-101</a> |
|  | Item no.891-8994/106-101   |  |

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pre-assembled connecting cable; Eca; Socket/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; black

[www.wago.com/891-8994/106-101](http://www.wago.com/891-8994/106-101)

## Downloads

### CAD/CAE-Data

#### CAD data

2D/3D Models 890-814/011-000

[URL](#)

[Download](#)

#### PCB Design

Symbol and Footprint 890-814/011-000

[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
- 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 890-814/011-000

[URL](#)

[Download](#)

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#### Environmental Product Compliance

##### Compliance Search

Environmental Product Compliance 890-814/011-000

[URL](#)

[Download](#)

Plug for PCBs; angled; 4-pole; Cod. A; black

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#### Installation Notes

#### Product family

**WINSTA® MINI**

[Show all products from the family](#)

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