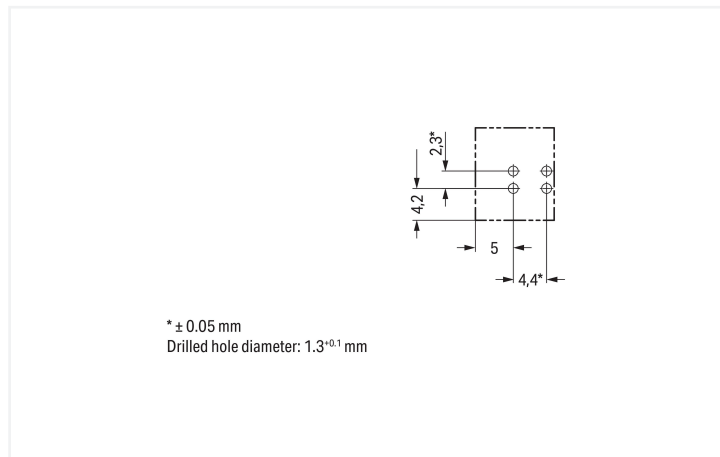


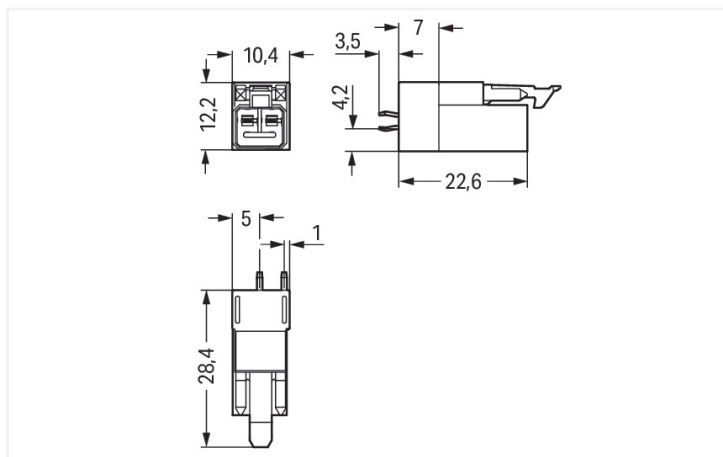
Data Sheet | Item Number: 890-832  
Plug for PCBs; straight; 2-pole; Cod. A; white

<https://www.wago.com/890-832>



Color: ■ white

Dimensions in mm



Dimensions in mm

### Male connector/plug WINSTA® MINI 2-pole

The WINSTA® MINI male connector/plug rated current 16 A offers secure, easy handling to support control and drive technology tasks. Our enormous selection of pluggable PCB connectors with various insertion directions and operating variants offers you the right solution for your application at any time. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The WINSTA® MINI pcb connectors with A coding in white or black is usually used for general mains applications in power distribution. Particularly where space is tight, our smallest pluggable connection system, WINSTA® MINI, consistently displays its advantageous properties. It saves space, and, thanks to Push-in CAGE CLAMP® spring pressure connection technology, it also can be installed quickly, since the connection is low-maintenance and requires no screw connections.

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

WINSTA® is the pluggable connection system that is perfectly tailored to the strict requirements of electrical installation. It ensures fast, secure and, above all, error-free installation of components and cables. Now you can also reduce installation expenses without compromising quality and safety: with protection against mismatching reduces the need for servicing and prevents unnecessary downtime.

- effective protection against mismatching
- compact design for conductors with a cross-section up to 1.5 mm<sup>2</sup>
- with A coding for use in a large number of general mains applications
- convenient installation and commissioning

## Electrical data

| Ratings per                     | IEC/EN 60664-1 |     |    | Approvals per | UL 1977 |
|---------------------------------|----------------|-----|----|---------------|---------|
| Overvoltage category            | III            | III | II | Rated voltage | 600 V   |
| Pollution degree                | 3              | 2   | 2  | Rated current | 14 A    |
| Nominal voltage                 | 250 V          | -   | -  |               |         |
| Rated impulse withstand voltage | 4 kV           | -   | -  |               |         |
| Rated current                   | 16 A           | -   | -  |               |         |

## General information

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

## Connection Data

|                            |   |                     |
|----------------------------|---|---------------------|
| Total number of potentials | 2 | <b>Connection 1</b> |
|                            |   | Pole number         |
|                            |   | 2                   |

## Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 4.4 mm / 0.173 inches    |
| Width                                | 10.4 mm / 0.41 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

|   |  |
|---|--|
| Use                                     | General mains applications                               |
| Coding                                  | A  |
| Variable coding                         | No   |
| Marking                                 | N L  |
| Potential marking                       | N L  |
| 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) | Male connector/plug   |
| Connector (connection type)        | for PCB   |
| Mismating protection               | Yes   |
| Note on mismating protection       | All WINSTA® 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   |

### Plug-in connection

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)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | white  |
| Cover color                        | gray   |
| Material group                     | I  |
| Insulation material (main housing) | 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                          | 0.052 MJ   |
| Weight                             | 2.4 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)   |
| PU (SPU)              | 100 pcs       |
| Packaging type        | Box           |
| Country of origin     | PL            |
| GTIN                  | 4050821695578 |
| Customs tariff number | 85366990990   |



### Product Classification

|             |                      |
|-------------|----------------------|
| UNSPSC      | 39121409             |
| eCl@ss 10.0 | 27-44-06-05          |
| eCl@ss 9.0  | 27-44-06-05          |
| ETIM 9.0    | EC002637             |
| ETIM 10.0   | EC002637             |
| ECCN        | NO US CLASSIFICATION |





**Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

**Approvals / Certificates**

| General approvals  |           |                  | Declarations of conformity and manufacturer's declarations |          |                  |
|--|-----------|------------------|--|----------|------------------|
|   |           |                  |  |          |                  |
| Approval   | Standard  | Certificate Name | Approval   | Standard | Certificate Name |
| CCA<br>DEKRA Certification B.V.  | EN 61535  | 71-123231        | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| CCA<br>DEKRA Certification B.V.  | IEC 61535 | NL-85020         | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| cURus<br>Underwriters Laboratories<br>Inc.   | UL 1977   | E45171           |  |          |                  |

**Approvals for marine applications**

|     |                    |                   |
|--|--------------------|-------------------|
| Approval   | Standard           | Certificate Name  |
| ABS<br>American Bureau of Ship-<br>ping  | Steel Vessel Rules | 24-0095973-PDA    |
| DNV GL<br>Det Norske Veritas, Ger-<br>manischer Lloyd  | -                  | TAE00001Z6        |
| LR<br>Lloyds Register  | EN 61535           | 08/20047 (E2)     |
| PRS<br>Polski Rejestr Statków  | -                  | TE/1096/880590/23 |



**Downloads**

| Environmental Product Compliance         |                   |
|--|-------------------|
| Compliance Search                        |                   |
| Environmental Product Compliance 890-832 | <a href="#">↓</a> |

**CAD/CAE-Data**

| CAD data  | CAE data  |
|---|---|
| 2D/3D Models 890-832 <span style="float: right;"><a href="#">↓</a></span> | ZUKEN Portal 890-832 <span style="float: right;"><a href="#">↓</a></span> |



| PCB Design   |   |
|--|---|
| Symbol and Footprint<br>via SamacSys 890-832           |  |
| Symbol and Footprint<br>via Ultra Librarian<br>890-832 |  |