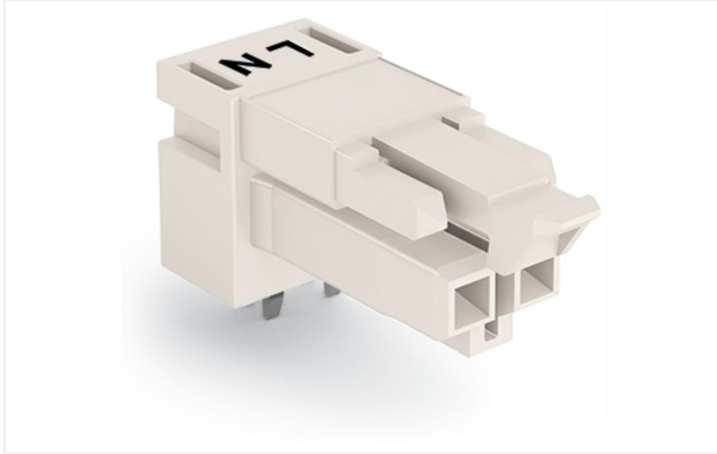


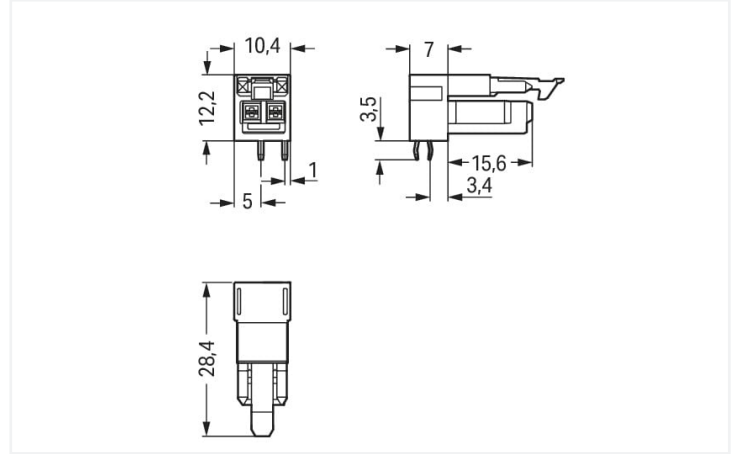
## Data Sheet | Item Number: 890-822/011-000

Socket for PCBs; angled; 2-pole; Cod. A; white

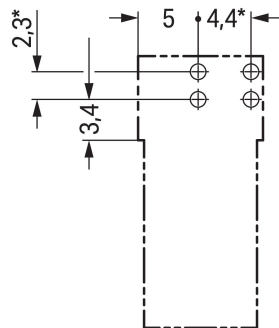
<https://www.wago.com/890-822/011-000>



Color: ■ white



Dimensions in mm



\*  $\pm 0.05$  mm

Drilled hole diameter:  $1.3^{+0.1}$  mm

Dimensions in mm

Female connector/socket *WINSTA*® MINI with protection against mismatching

The *WINSTA*® MINI female connector/socket with locking latch are compact but outstanding PCB terminal blocks. They offer convenient operation and the greatest flexibility for installation. Our pluggable PCB connectors provide a versatile 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 mismatching. The *WINSTA*® MINI pcb connectors with A coding in black or white is usually used for general mains applications in power distribution. Particularly if only limited space is available, 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 installation is low-maintenance and can be performed without screw connections.

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 with marking from WAGO.

- protection against mismatching eliminates errors
- easy tool-free operation, a wide range of coding options
- suitable for any application
- 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 surge 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 |  |
| Number of levels           | 1 |  |
| Connection 1               |   |  |
| Pole number                | 2 |  |

| Physical data                        |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 4.4 mm / 0.173 inches    |
| Width                                | 10.4 mm / 0.41 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                         |                                                          |
|-----------------------------------------|----------------------------------------------------------|
| Use                                     | General mains applications                               |
| Coding                                  | A                                                        |
| Variable coding                         | No                                                       |
| Marking                                 | L N                                                      |
| Potential marking                       | L 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) | Female connector/socket                                                                                                                                                                                           |
| 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        | 0 °                                                                                                                                                                                                               |
| 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                                |  | 0.055 MJ                                                                                                                                                                                                                                                                                                         |
| Weight                                   |  | 2.6 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 9.0                                 |  | EC002637                                                                                                                                                                                                                                                                                                         |
| ETIM 8.0                                 |  | EC002637                                                                                                                                                                                                                                                                                                         |
| PU (SPU)                                 |  | 100 pcs                                                                                                                                                                                                                                                                                                          |
| Packaging type                           |  | Box                                                                                                                                                                                                                                                                                                              |
| Country of origin                        |  | PL                                                                                                                                                                                                                                                                                                               |
| GTIN                                     |  | 4050821695721                                                                                                                                                                                                                                                                                                    |
| Customs tariff number                    |  | 85366990990                                                                                                                                                                                                                                                                                                      |
| Environmental Product Compliance         |  |                                                                                                                                                                                                                                                                                                                  |
| RoHS Compliance Status                   |  | Compliant, No Exemption                                                                                                                                                                                                                                                                                          |



Approvals / Certificates

General approvals



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

Declarations of conformity and manufacturer's declarations

| Approval                                                | Standard | Certificate Name |
|---------------------------------------------------------|----------|------------------|
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |
| UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |

Approvals for marine applications



| Approval                                              | Standard           | Certificate Name |
|-------------------------------------------------------|--------------------|------------------|
| ABS<br>American Bureau of Ship-<br>ping               | Steel Vessel Rules | 19-HG1869855-PDA |
| DNV GL<br>Det Norske Veritas, Ger-<br>manischer Lloyd | -                  | TAE00001Z6       |
| LR<br>Lloyds Register                                 | EN 61535           | 08/20047 (E2)    |

Downloads

Environmental Product Compliance

| Compliance Search                                      |
|--------------------------------------------------------|
| Environmental Product<br>Compliance<br>890-822/011-000 |



CAD/CAE-Data

| CAD data                        |
|---------------------------------|
| 2D/3D Models<br>890-822/011-000 |



| CAE data                        |
|---------------------------------|
| ZUKEN Portal<br>890-822/011-000 |



PCB Design

|                                                                |
|----------------------------------------------------------------|
| Symbol and Footprint<br>via SamacSys<br>890-822/011-000        |
| Symbol and Footprint<br>via Ultra Librarian<br>890-822/011-000 |



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

Current addresses can be found at: [www.wago.com](https://www.wago.com)