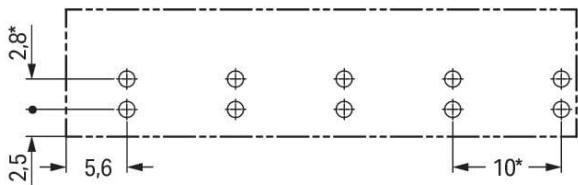


Color: ■■■■■



\*  $\pm 0.05$  mm

Drilled hole diameter:  $1.5^{+0.1}$  mm

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

## Item description

### Male connector/plug WINSTA® MIDI 5-pole

Secure installations with special connection technology: The *WINSTA®* MIDI male connector/plug. 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. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. General mains applications for almost any domain of use can be realised with *WINSTA®* MIDI pcb connectors with A coding. Important parameters in the selection of a pcb connectors are the rated current and voltage: 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 robust loads. *WINSTA®* MIDI with Push-in CAGE CLAMP® spring pressure connection technology is found in a broad range of individual products you can use for quick, easy and maximally flexible installation.

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

The *WINSTA®* Pluggable Connection System is perfectly tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and thus more efficient, even more reliable, and error-free. Using this pre-assembled system reduces time spent on assembly and errors during installation at the construction site. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with marking from WAGO.

- 
- pcb connectors with protection against mismatching
- pre-assembled versions
- with A coding for a great number of applications
- rapid, structured electrical installation

## Data

### Electrical data

### 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 |

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

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

## Connection data

|                            |                      |
|----------------------------|----------------------|
| Total number of potentials | 5                    |
| Number of levels           | 1                    |
| PE function                | Preceding PE contact |

## Connection 1

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

## Physical data

|                                      |                            |
|--------------------------------------|----------------------------|
| Pin spacing                          | 10 mm / 0.394 inches       |
| Width                                | 47 mm / 1.85 inches        |
| Height                               | 29.5 mm / 1.161 inches     |
| Height from the surface              | 26 mm / 1.024 inches       |
| 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 $(-0.1 \dots +0.1)$ mm |

## Mechanical Data

|                 |                            |
|-----------------|----------------------------|
| Application     | General mains applications |
| Coding          | A                          |
| Variable coding | Yes                        |
| Marking         | L3 L2 L1 $\pm$ N           |

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

|   |  |
|---|--|
| Potential marking                       | L3 L2 L1 $\pm$ 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                                  | 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 <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                       | black                             |
| Insulation material         | Polyamide (PA66)                  |
| Flammability class per UL94 | VO                                |
| Clamping spring material    | Chrome-nickel spring steel (CrNi) |

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

|                  |   |
|------------------|---|
| Contact material | Copper or copper alloy; surface-treated |
| Contact plating  | Tin                                     |
| Fire load        | 0.265 MJ                                |
| Weight           | 10.8 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                  | 4044918511544 |
| 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.         | IEC 61535                | NL -84761        |
|  | CCA<br>DEKRA Certification B.V.         | EN 61535                 | 71-<br>123228    |
|  | cURus<br>Underwriters Laboratories Inc. | UL 1977                  | E45171           |

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



cURus  
Underwriters Laboratories Inc.

UL 1059

E 45172

## Declarations of conformity and manufacturer's declarations

| Logo   | Approval   | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | EU-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               | -                        | 19-<br>HG1868589-<br>PDA |
|    | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001Z6               |
|  | LR<br>Lloyds Register                            | IEC 61984                | LR22429487TA             |

## Counterpart

|  |  |  |
|--|--|--|
|  | <b>Item no.770-105</b><br>Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; black   | <a href="http://www.wago.com/770-105">www.wago.com/770-105</a>                   |
|  | <b>Item no.770-205</b><br>Socket; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; black   | <a href="http://www.wago.com/770-205">www.wago.com/770-205</a>                   |
|  | <b>Item no.770-305</b><br>Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; black   | <a href="http://www.wago.com/770-305">www.wago.com/770-305</a>                   |
|  | <b>Item no.770-405</b><br>Socket; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; black   | <a href="http://www.wago.com/770-405">www.wago.com/770-405</a>                   |
|  | <b>Item no.771-9995/006-101</b><br>pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; black | <a href="http://www.wago.com/771-9995/006-101">www.wago.com/771-9995/006-101</a> |

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



Item no. 771-9995/106-101

pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; black

[www.wago.com/771-9995/106-101](http://www.wago.com/771-9995/106-101)

## Required accessories

Cover

Cover



Item no.: 770-360

Lockout cap; for plugs; 5-pole; separable; yellow

[www.wago.com/770-360](http://www.wago.com/770-360)

## Optional accessories

Coding

Coding



Item no.: 770-401

Coding pin; for plugs; Plastic; gray

[www.wago.com/770-401](http://www.wago.com/770-401)

## Downloads

### CAD/CAE-Data

#### CAD data

2D/3D Models 770-815

URL

Download

### PCB Design

Symbol and Footprint 770-815

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

—  
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.

- 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 770-815      | URL | Download |
| EPLAN Data Portal 770-815 | URL | Download |

#### Asset Administration Shell

|                                    |     |          |
|------------------------------------|-----|----------|
| Asset Administration Shell 770-815 | URL | Download |
|------------------------------------|-----|----------|

#### Environmental Product Compliance

##### Compliance Search

|  |     |          |
|--|-----|----------|
| Environmental Product Compliance 770-815       | URL | Download |
| Plug for PCBs; straight; 5-pole; Cod. A; black |     |          |

#### Installation Notes

#### Product family

WINSTA® MIDI  
[Show all products from the family](#)

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