# Data sheet | Item number: 770-845/011-000/064-000

## Socket for PCBs; angled; 5-pole; Cod. B; gray

Color:

Drilled hole diameter: 1.5⁺⁰·¹ mm          * ± 0.05 mm

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

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®* MIDI 5-pole

WAGO has various connection solutions for any challenge in building installation, for example, the *WINSTA®* MIDI female connector/socket. Our giant selection of pluggable PCB connectors with different insertion directions and operating variants offers you the perfect solution for your application at all times. The mechanical coding and color coding of the pcb connectors ensure error-free installation of the individual components – including protection against mismating. Pcb connectors with B coding from the *WINSTA®* MIDI line are available in pink, light green, or gray, allowing you to distinguish different circuits, for example for pumps, lighting, or sun blinds. Usage-specific pole marking is possible as well. This pcb connectors can be used for a load of up to 25 A. Therefore, pcb connectors can also be used for high power 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, flexible, and secure electrical installation.

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

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

- 
- protection against mismating eliminates errors
- for automation controllers
- with B coding for controllers such as sun blinds and lighting fixtures
- fast, secure installation

## 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 |
| --- | --- |

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

| | |
|---|---|
| Nominal voltage (III/3) | 400 V |
| Rated impulse voltage (III/3) | 6 kV |
| Rated current | 25 A |
| Legend (ratings) | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

## Ratings per IEC/EN – Notes

| | |
|---|---|
| Note (rated current) | 25 A for 3-pole load<br>20 A for 4- and 5-pole load |

## 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 |

## Connection 1

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

## Physical data

| | |
|---|---|
| Pin spacing | 10 mm / 0.394 inches |
| Width | 47 mm / 1.85 inches |
| Height | 18.1 mm / 0.713 inches |
| Height from the surface | 14.6 mm / 0.575 inches |
| Depth | 26 mm / 1.024 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 |

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

## Mechanical Data

| | |
|---|---|
| Application | Control technology |
| Coding | B |
| Variable coding | Yes |
| Marking | N ⏚ L 2L 1L |
| Potential marking | N ⏚ L 2L 1L |
| 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 |
| 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 |

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

## Material data

Note (material data)

|  | Information on material specifications can be found here |
|---|---|
| Color | gray |
| 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 | 0.204  MJ |
| Weight | 10.4  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

| eCl@ss 10.0 | 27-44-06-05 |
|---|---|
| eCl@ss 9.0 | 27-44-06-05 |
| ETIM 8.0 | EC002560 |
| ETIM 7.0 | EC002560 |
| ECCN | NO DATA |
| PU (SPU) | 50 pcs |
| Packaging type | box |
| Country of origin | PL |
| GTIN | 4050821553793 |
| Customs tariff number | 85366990990 |

## Environmental Product Compliance

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

## Approvals / Certificates

**General approvals**

Certificate

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

| Logo | Approval | Additional Approval Text | name |
|---|---|---|---|
| | **cURus**<br>Underwriters Laboratories Inc. | UL 1977 | E45171 |

## Counterpart

| | **Item no.770-255/064-000**<br>Plug; 5-pole; Cod. B; 4,00 mm²; gray | www.wago.com/770-255/064-000 |
|---|---|---|

## Required accessories

**Cover**

| Cover | | |
|---|---|---|
| | **Item no.: 770-201**<br>Lockout cap; 12-pole, separable; for sockets; Plastic; black | www.wago.com/770-201 |
| | **Item no.: 770-221**<br>Lockout cap; 12-pole, separable; for sockets; Plastic; white | www.wago.com/770-221 |

## Downloads
## CAD/CAE-Data

**CAD data**

| 2D/3D Models 770-845/011-000/064-000 | URL | Download |
|---|---|---|

**PCB Design**

| Symbol and Footprint 770-845/011-000/064-000 | 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

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- 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

### Asset Administration Shell

| | | |
|---|---|---|
| Asset Administration Shell 770-845/011-000/064-000 | URL | Download |

## Environmental Product Compliance

### Compliance Search

| | | |
|---|---|---|
| Environmental Product Compliance 770-845/011-000/064-000 Socket for PCBs; angled; 5-pole; Cod. B; gray | URL | Download |

## Installation Notes

## Product family

**WINSTA® MIDI**
Show all products from the family

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