

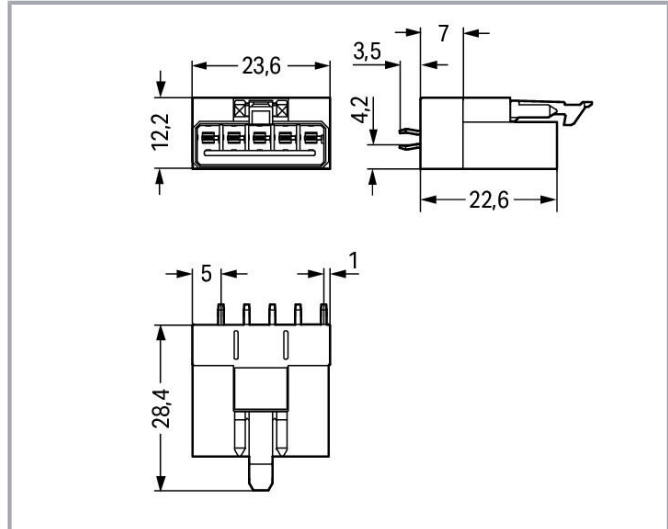
Data sheet | Item number: 890-835

Plug for PCBs; straight; 5-pole; Cod. A; white

www.wago.com/890-835



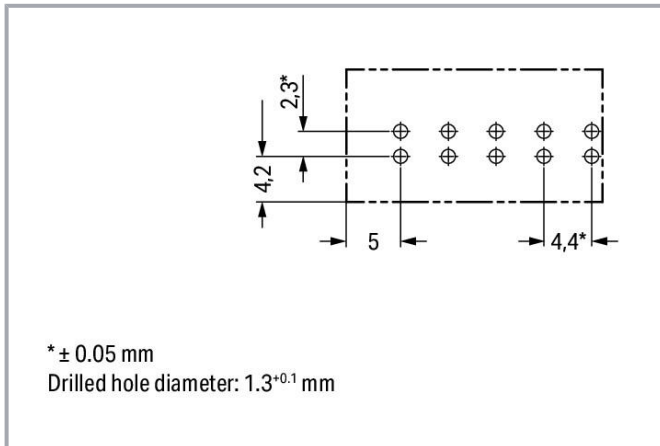
Color:



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

WAGO GmbH & Co. KG
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We are always happy to take your call at +49 (571) 887-44222.



Item description

Male connector/plug *WINSTA®* MINI rated current 13 A

The *WINSTA®* MINI male connector/plug with locking latch is economical and space thanks to its compact dimensions. The pluggable PCB connectors with spring pressure connection technology and Push-in CAGE CLAMP® technology from WAGO permit maintenance free terminal connections. 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. Due to its particularly compact dimensions, our *WINSTA®* MINI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology is especially suitable in very restricted spaces, i.e., for connections when very little room is available.

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

WINSTA® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It allows fast, secure and, above all, error-free installation of components and cables. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with locking lever from WAGO.

-
- protection against mismatching eliminates errors
- easy tool-free operation, a wide range of coding options
- with A coding for a great number of uses
- quick replacement of defective units during ongoing operation

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

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 | 13 A |
| Legend (ratings) | (III / 3) \triangleq Overvoltage category III / Pollution degree 3 |

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 information

| | |
|----------------------------|--|
| Note on contact resistance | approx. 1 m Ω of contact resistance approx. 0.25 m Ω contact transition plug/socket |
|----------------------------|--|

Connection data

| | |
|----------------------------|---|
| Total number of potentials | 5 |
| Number of levels | 1 |

Connection 1

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

Physical data

| | |
|-------------------------|------------------------|
| Pin spacing | 4.4 mm / 0.173 inches |
| Width | 23.6 mm / 0.929 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 |

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



| | |
|--------------------------------------|--------------------------|
| Solder pin length | 3.5 mm |
| Solder pin dimensions | 1 x 0.8 mm |
| Drilled hole diameter with tolerance | 1.3 ^(+0.1) mm |

Mechanical data

| | |
|---|--|
| Application | General mains applications |
| Coding | A |
| Variable coding | No |
| Marking | 3 2 1 \perp N |
| Potential marking | 3 2 1 \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 | straight |

Plug-in connection

| | |
|------------------------------------|--|
| Contact type (pluggable connector) | Male connector/plug |
| Connector (connection type) | for PCB |
| Mismating protection | Yes |
| Note on mismating protection | All <i>WINSTA</i> ® components are 100% protected against mismating when: a.) plugging different numbers of poles b.) plugging while rotated 180 c.) plugging while laterally staggered 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 |

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



| | |
|-------------------------------------|---|
| Number of solder pins per potential | 2 |
|-------------------------------------|---|

Material data

Note (material data)

Information on material specifications can be found here

| | |
|-----------------------------|---|
| Color | white |
| Cover color | gray |
| Material group | I |
| 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 | 0.097 MJ |
| Weight | 4.8 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 |
| ECCN | NO DATA |
| PU (SPU) | 50 pcs |
| Packaging type | box |
| Country of origin | PL |
| GTIN | 4050821695608 |
| Customs tariff number | 85366990990 |

Environmental Product Compliance

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



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Approvals / Certificates



General approvals

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

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|--------------------------|------------------|
|  | ABS American Bureau of Shipping | Steel Vessel Rules | 19-HG1869855-PDA |
|  | LR Lloyds Register | EN 61535 | 08/20047 (E2) |

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Counterpart


Item no.890-125

 Socket; with strain relief housing; 5-pole; Cod. A; 1,50 mm²; white

www.wago.com/890-125

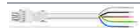
Item no.891-8995/006-102

 pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; white

www.wago.com/891-8995/006-102

Item no.890-225

 Socket; 5-pole; Cod. A; 1,50 mm²; white

www.wago.com/890-225

Item no.891-8995/106-102

 pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; white

www.wago.com/891-8995/106-102

Downloads

CAD/CAE-Data

CAD data

2D/3D Models 890-835

URL

Download

PCB Design

Symbol and Footprint via Ultra Librarian 890-835

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
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics
- BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design

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- 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
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

Symbol and Footprint via SamacSys 890-835

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:

- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000
- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad

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- OrCAD_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

CAE data

| | | |
|----------------------|-----|----------|
| ZUKEN Portal 890-835 | URL | Download |
|----------------------|-----|----------|

Asset Administration Shell

| | | |
|------------------------------------|-----|----------|
| Asset Administration Shell 890-835 | URL | Download |
|------------------------------------|-----|----------|

Environmental Product Compliance

Compliance Search

| | | |
|--|-----|----------|
| Environmental Product Compliance 890-835 Plug for PCBs; straight; 5-pole; Cod. A; white | URL | Download |
|--|-----|----------|

Installation Notes

Product family

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

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