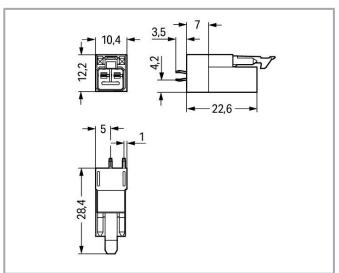
Plug for PCBs; straight; 2-pole; Cod. A; black

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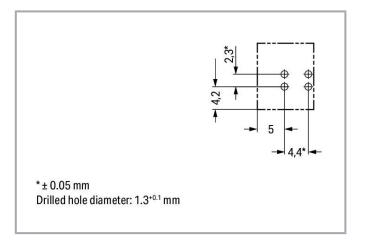




 $\label{lem:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Item description

Male connector/plug WINSTA® MINI with protection against mismating

The WINSTA® MINI male connector/plug with protection against mismating offers very secure handling to support drive and control technology tasks. Our enormous selection of pluggable PCB connectors with various insertion directions and operating variants offers you the perfect solution for your application at all times. The coding options reduce installation errors, allowing fast, secure wiring of all components. Thanks to the color coding and mechanical A coding of WINSTA® MINI pcb connectors, you can clearly distinguish different circuits. Thanks to its particularly small dimensions, our WINSTA® MINI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology is very suitable in very tight spaces, i.e., for connections when very little room is available.

WINSTA® MINI solutions for your electrical installation – protected against mismating and maintenance-free

The WINSTA® Pluggable Connection System is ideally tailored to the strict requirements of building installation. It makes electrical installation pluggable, and thus faster, even more reliable, and error-free. Use of this pre-assembled system decreases time spent on assembly and installation errors at the construction site. Now you can also lower installation costs without compromising quality and safety: with marking eliminates the need for servicing and prevents unnecessary downtime.

- _
- effective protection against mismating
- consistent IP40 protection
- for any mains application
- quick replacement of defective units during ongoing operation

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

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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 | 16 A |
| Legend (ratings) | (III / 3) ≙ 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 | 14 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 | 2 |
|----------------------------|---|
| Number of levels | 1 |

Connection 1

| Pole number | 2 | |
|--------------|---|--|
| 1 die Hambei | _ | |

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 |

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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| 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 | 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: 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 | ТНТ |
|------------------------|----------------------------|
| Solder pin arrangement | 2 in-line solder pins/pole |

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Number of solder pins per potential 2

Material data

Note (material data)

Information on material specifications can be found here

| Color | black |
|-----------------------------|---|
| Cover color | gray |
| Material group | l 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 | 0.057 MJ |
| Weight | 2.4 g |
| | |

Environmental requirements

| Processing temperature | -5 +40 ℃ |
|--|--|
| 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) | 100 pcs |
| Packaging type | box |
| Country of origin | PL |
| GTIN | 4050821695493 |
| Customs tariff number | 85366990990 |

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Approvals / Certificates

General approvals

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

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications

| Logo | Approval | Additional Approval Text | Certificate name |
|-------------------|--|--------------------------|--------------------------|
| ABS. | ABS American Bureau of Shipping | Steel Vessel Rules | 19- HG1869855- PDA |
| DNV DNVCOMAF | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE00001Z6 |
| DANGE THE AMERICA | LR Lloyds Register | EN 61535 | 08/20047 (E2) |

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Counterpart

| 888 | |
|------|--|
| 4000 | |

Item no.890-102
Socket; with strain relief housing; 2-pole; Cod. A; 1,50 mm²; black

www.wago.com/890-102



Item no.890-202 Socket; 2-pole; Cod. A; 1,50 mm²; black

www.wago.com/890-202



Item no.890-202/342-000 Socket; with strain relief housing; 2-pole; Cod. A; 1,50 mm²; black www.wago.com/890-202/342-000

-0.5

Item no.891-8992/005-101

pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. A; $H05VV-F\ 2\ x\ 1.0\ mm^2$; 1 m; 1,00 mm²; black

www.wago.com/891-8992

/005-101

Item no.891-8992/105-101

pre-assembled connecting cable; Eca; Socket/open-ended; 2-pole; Cod. A; H05VV-F $2 \times 1.0 \text{ mm}^2$; 1 m; 1,00 mm²; black

www.wago.com/891-8992

/105-101

Downloads CAD/CAE-Data

CAD data

2D/3D Models 890-812

URL

Download

PCB Design

Symbol and Footprint via Ultra Librarian 890-812

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

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URL

Download

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

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

Symbol and Footprint via SamacSys 890-812

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

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- eCADSTAR
- KiCad
- 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 890-812 URL Download

Asset Administration Shell

Asset Administration Shell 890-812 URL Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 890-812 URL Download Plug for PCBs; straight; 2-pole; Cod. A; black

Installation Notes

Product family

WINSTA® MINI

Show all products from the family

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