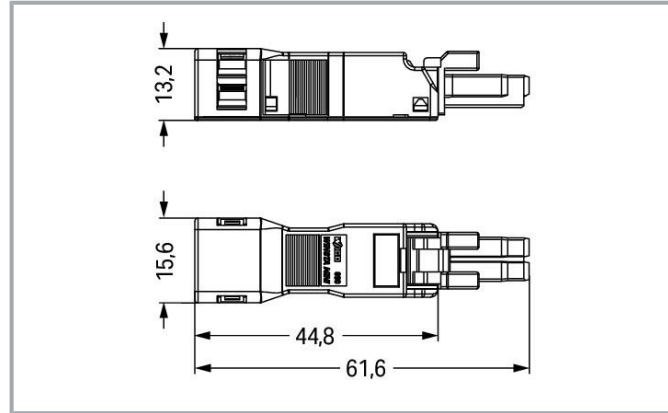
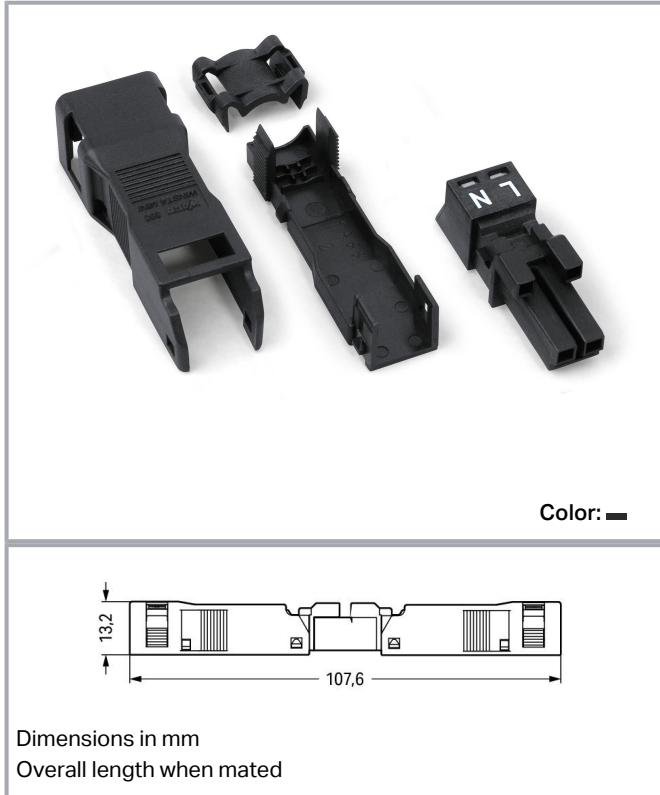


Data sheet | Item number: 890-102

Socket; with strain relief housing; 2-pole; Cod. A; 1,50 mm²; black

www.wago.com/890-102



Item description

Female connector/socket WINSTA® MINI with protection against mismatching

For signal and power transmission: The WINSTA® MINI female connector/socket rated current 16 A. Our pluggable installation connectors with spring pressure connection technology work completely without screw connections. They allow flexible, error-free installation in a large number of possible uses. The color coding and mechanical coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. The pluggable installation connector offers protection against contact with wires or tools if they are smaller than 1 mm in accordance with protection type IP40. Thanks to the color coding and mechanical A coding of WINSTA® MINI pluggable installation connectors, you can clearly distinguish different circuits. Especially if only limited space is available, our smallest pluggable connection system, WINSTA® MINI, consistently displays its strengths. It saves space, and, with 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. The strip length is 32 mm.

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.



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

The WINSTA® Pluggable Connection System is ideally tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and thus faster, more reliable, and error-free. Use of this pre-assembled system decreases time spent on assembly and installation errors at the construction site. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with WINSTA® MINI pluggable installation connectors with protection type IP40 from WAGO.

- protection against mismatching eliminates errors
- consistent IP40 protection
- with A coding for use in a large number of general mains applications
- ready to install and use immediately
- rapid, structured electrical installation

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

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

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



Connection data

| | |
|----------------------------|---|
| Connection points | 2 |
| Total number of potentials | 2 |

Connection 1

| | |
|--|---|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Operating tool Push-in |
| Nominal cross-section | 1.5 mm ² / 16 AWG |
| Solid conductor | 0.25 ... 1.5 mm ² / 22 ... 16 AWG |
| Solid conductor; push-in termination | 0.75 ... 1.5 mm ² / 20 ... 16 AWG |
| Stranded conductor | 0.25 ... 1 mm ² / 22 ... 18 AWG |
| Fine-stranded conductor | 0.25 ... 1.5 mm ² / 22 ... 16 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 ... 0.75 mm ² / 22 ... 20 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 0.75 mm ² / 22 ... 20 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 0.75 mm ² / 20 AWG |
| Strip length | 9 mm / 0.35 inches |
| Pole number | 2 |
| Conductor entry direction to mating direction | 0° |
| Strip length (outer insulation) | 32 mm |

Physical data

| | |
|-------------|------------------------|
| Pin spacing | 4.4 mm / 0.173 inches |
| Width | 15.6 mm / 0.614 inches |
| Height | 13.2 mm / 0.52 inches |
| Depth | 61.6 mm / 2.425 inches |

Mechanical Data

| | |
|---|--|
| Application | 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) |

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



| | |
|-------------------------|-----------------------------|
| Number of mating cycles | 200, without resistive load |
| Protection type | IP40 |

Plug-in connection

| | |
|------------------------------------|--|
| Contact type (pluggable connector) | Female connector/socket |
| Connector (connection type) | for conductor |
| 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 |
| Locking lever | Can be retrofitted |
| 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). |
| Strain relief | strain relief housing |

Material Data

| | |
|-----------------------------|--|
| Note (material data) | Information on material specifications can be found here |
| Color | black |
| 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 | 0.216 MJ |
| Weight | 5.7 g |

Environmental requirements

| | |
|------------------------|---------------|
| Processing temperature | -5 ... +40 °C |
|------------------------|---------------|

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

| | |
|--|--|
| 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 | DE |
| GTIN | 4045454231729 |
| 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 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 | - | - |

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

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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 |
|  | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE00001Z6 |
|  | LR Lloyds Register | EN 61535 | 08/20047 (E2) |

Counterpart





| | | |
|--|---|--|
|  | Item no.890-112 Plug; with strain relief housing; 2-pole; 1,50 mm ² ; black | www.wago.com/890-112 |
|  | Item no.890-1615 T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black | www.wago.com/890-1615 |
|  | Item no.890-1606 T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black | www.wago.com/890-1606 |
|  | Item no.890-1634 h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black | www.wago.com/890-1634 |
|  | Item no.890-212 Plug; 2-pole; Cod. A; 1,50 mm ² ; black | www.wago.com/890-212 |
|  | Item no.890-1636 h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; black | www.wago.com/890-1636 |

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

| | | |
|--|---|--|
|  | Item no.890-212/342-000 Plug; with strain relief housing; 2-pole; Cod. A; 1,50 mm ² ; black | www.wago.com/890-212/342-000 |
|  | Item no.890-812 Plug for PCBs; straight; 2-pole; Cod. A; black | www.wago.com/890-812 |
|  | Item no.890-712 Snap-in plug; 2-pole; Cod. A; 1,50 mm ² ; black | www.wago.com/890-712 |
|  | Item no.890-812/011-000 Plug for PCBs; angled; 2-pole; Cod. A; black | www.wago.com/890-812/011-000 |
|  | 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 mm ² ; black | www.wago.com/891-8992/005-101 |
|  | Item no.891-8992/205-101 pre-assembled connecting cable; Eca; Plug/open-ended; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm ² ; 1 m; 1,00 mm ² ; black | www.wago.com/891-8992/205-101 |

Required accessories

Locking levers

| | | |
|--|--|--|
| Locking system | | |
|  | Item no.: 890-111 Locking lever; for flying leads; for tool operation; black | www.wago.com/890-111 |
|  | Item no.: 890-101 Locking lever; for manual operation; black | www.wago.com/890-101 |
|  | Item no.: 890-121 Locking lever; for manual operation; white | www.wago.com/890-121 |
|  | Item no.: 890-131 Locking lever; for flying leads; for tool operation; white | www.wago.com/890-131 |

Optional accessories

Mounting

| | | |
|---|---|--|
| Mounting accessories | | |
|  | Item no.: 890-310 Mounting carrier; 2- to 5-pole; for flying leads; black | www.wago.com/890-310 |

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



Item no.: 890-311
Mounting carrier; 2- to 5-pole; for flying leads; white

www.wago.com/890-311

Cover

Cover



Item no.: 897-2001
Protective cap; Type1; for sockets and plugs; PVC; red

www.wago.com/897-2001

Tool

Operating tool



Item no.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719



Item no.: 890-382
Operating tool; 2-way; green

www.wago.com/890-382

Downloads

Documentation

Bid Text

| | | | |
|------------------------|-------------|----------------|----------|
| 890-102 X81 - Datei | 2019 Feb 19 | xml 3.1 kB | Download |
| 890-102 doc - Datei | 2015 Jun 8 | doc 23.6 kB | Download |

CAD/CAE-Data

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 890-102 | URL | Download |
|----------------------|-----|----------|

CAE data

| | | |
|---------------------------|-----|----------|
| EPLAN Data Portal 890-102 | URL | Download |
| WSCAD Universe 890-102 | URL | Download |
| ZUKEN Portal 890-102 | URL | Download |

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 890-102

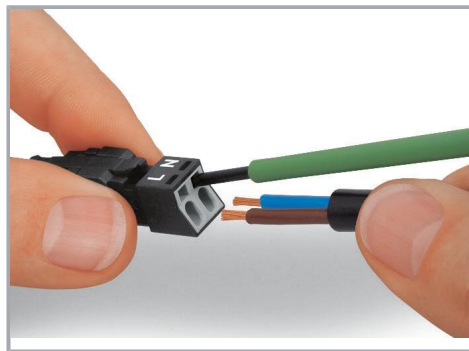
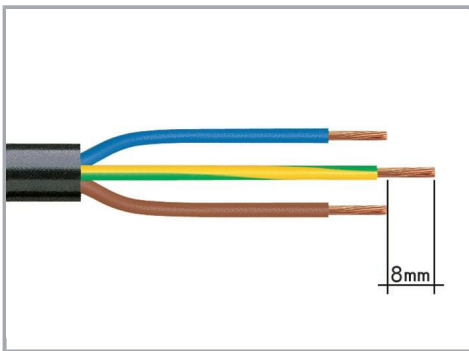
URL

Download

Socket; with strain relief housing; 2-pole; Cod. A; 1,50 mm²; black

Installation Notes

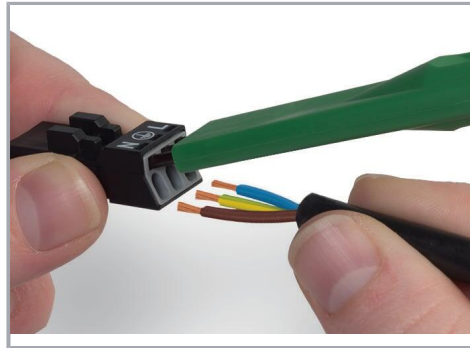
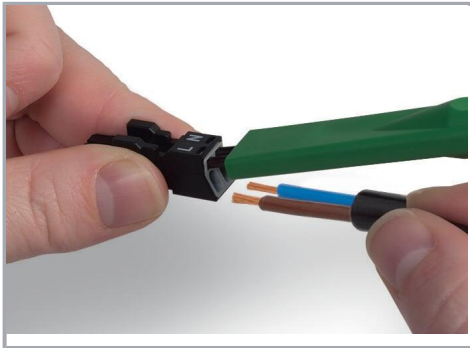
Conductor termination



1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm

To terminate fine-stranded conductors, open the clamping unit via screwdriver – 2.5 mm blade width – and insert a stripped conductor until it hits the backstop. Terminate solid conductors by simply pushing them in.

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



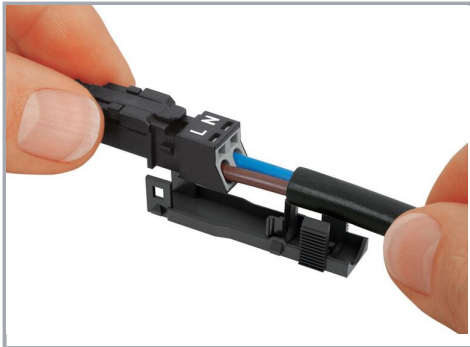
To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop.

To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop.

Terminate solid conductors by simply pushing them in.

Terminate solid conductors by simply pushing them in.

Installation



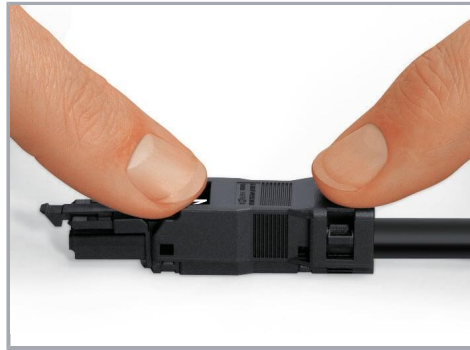
Latch the wired connector into the base of the strain relief housing.

Push down strain relief clamp by hand.

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



Push down strain relief clamp with 2.5 mm screwdriver alternately on both sides.



Latch the top of the strain relief housing.



The printed marking of the connector is clearly visible in the openings of the strain relief housing.

Product family

WINSTA® MINI

[Show all products from the family](#)

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