

### Item description

- Protected against mismatching and maintenance-free
- Push-in CAGE CLAMP® spring pressure connection technology allows solid conductors to be simply pushed into a unit
- Compact design with 4.4 mm pole spacing
- Components can be clearly printed on and color-coded to meet custom requirements
- When assembled, the installation connectors complies with IP40 and are suitable for easily accessible areas

### Note:

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).

### Note on mismatching protection:

All WINSTA® components are 100% protected against mismatching when:

- a.) plugging different numbers of poles
- b.) plugging while rotated 180
- c.) plugging while laterally staggered
- d.) plugging one pole

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

**Safety information 1:**

Application note for the U.S. market (USR): 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.

**Data****Electrical data**

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

**Ratings per IEC/EN 60664-1**

| Ratings per                     | IEC/EN 60664-1  |
|---------------------------------|---|
| Rated voltage (III / 3)         | 250 V   |
| Rated impulse voltage (III / 3) | 4 kV  |
| Rated current                   | 16 A  |
| Note on rated current           | 13 A for 3-pole load                                      |
| Legend (ratings)                | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

**Approvals per UL 1977**

|   |       |
|---|-------|
| Rated voltage per UL 1977 (factory wiring only) | 600 V |
| Rated current per UL 1977 (factory wiring only) | 14 A  |

**Connection data**

|   |   |
|---|---|
| Connection technology   | Push-in CAGE CLAMP®                           |
| Actuation type  | Operating tool<br>Push-in                     |
| Nominal cross section   | 1,5 mm <sup>2</sup>                           |
| Solid conductor   | 0,25 ... 1,5 mm <sup>2</sup> / 22 ... 16 AWG  |
| Solid conductor, push-in termination                            | 0,75 ... 1,5 mm <sup>2</sup> / 20 ... 16 AWG  |
| Stranded conductor  | 0,25 ... 1 mm <sup>2</sup> / 22 ... 18 AWG    |
| Fine-stranded conductor   | 0,25 ... 1,5 mm <sup>2</sup> / 22 ... 16 AWG  |
| Fine-stranded conductor with ferrule with plastic collar        | 0,25 ... 0,75 mm <sup>2</sup> / 22 ... 20 AWG |
| Fine-stranded conductor with ferrule without plastic collar     | 0,25 ... 0,75 mm <sup>2</sup> / 22 ... 20 AWG |
| Fine-stranded conductor with ferrule, push-in termination, from | 0,75 mm <sup>2</sup> / 20 AWG                 |
| Strip length  | 9 mm / 0.35 inch                              |
| Note (strip length)   | see also packaging or instructions            |
| No. of poles  | 3   |
| Total number of connection points                               | 3   |

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

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|   |    |
|---|----|
| Total number of potentials                    | 3  |
| Conductor entry direction to mating direction | 0° |

### Geometrical Data

|             |                      |
|-------------|----------------------|
| Pin spacing | 4,4 mm / 0.173 inch  |
| Width       | 15 mm / 0.591 inch   |
| Height      | 11,7 mm / 0.461 inch |
| Depth       | 34,1 mm / 1.343 inch |

### Mechanical data

|   |  |
|---|--|
| Coding                                  | B  |
| 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<br>100, with resistive load $I_N = 16$ A, tested (1.5 mm <sup>2</sup> /16 AWG) |
| Marking                                 | 1 2 3  |
| Protection class                        | IP20   |
| Note on protection class                | IP40 when mated with strain relief housing   |
| Potential marking                       | 1 2 3  |

### Plug connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector connection type          | for conductor       |
| Mismating protection               | Yes                 |
| Locking of plug-in connection      | locking lever       |
| Locking lever                      | no                  |

### Material Data

|                          |  |
|--------------------------|--|
| Color                    | gray                                     |
| Insulating material      | Polyamide 66 (PA 66)                     |
| Clamping spring material | Chrome nickel spring steel (CrNi)        |
| Contact material         | Copper or copper alloy (surface-treated) |
| Fire load                | 0.076 MJ                                 |

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

|        |      |
|--------|------|
| Weight | 3.6g |
|--------|------|

## Environmental Requirements



|  |  |
|--|--|
| Processing temperature                 | -5 ... +40 °C                              |
| Continuous operating temperature       | -35 ... +85 °C                             |
| Note on Continuous Service Temperature | Insulating parts for temperatures ≤ 105 °C |

## Commercial data



|                    |               |
|--------------------|---------------|
| Product Group      | 20 (WINSTA)   |
| Packaging type     | BOX           |
| Country of origin  | PL            |
| GTIN               | 4055143499859 |
| Customs Tariff No. | 85366990990   |

## Approvals / Certificates

### Country specific Approvals

| Logo   | Approval                               | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | <b>CB</b><br>DEKRA Certification B.V.  | IEC 61984                | NL-52879         |
|  | <b>CB</b><br>DEKRA Certification B.V.  | EN 61984                 | 71-100413        |
|  | <b>CCA</b><br>DEKRA Certification B.V. | EN 60320                 | 2148952.04       |

### Ship Approvals


| Logo  | Approval  | Additional Approval Text | Certificate name |
|---|---|--------------------------|------------------|
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001Z6       |
|  | <b>LR</b><br>Lloyds Register                            | EN 61535                 | 08/20047<br>(E2) |

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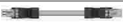


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## UL-Approvals

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

## Counterpart

|   |  |  |
|---|--|--|
|     | <b>Item no.890-1761</b><br>h-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; gray | <a href="http://www.wago.com/890-1761">www.wago.com/890-1761</a>                 |
|     | <b>Item no.890-1661</b><br>h-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 2 locking levers; gray                   | <a href="http://www.wago.com/890-1661">www.wago.com/890-1661</a>                 |
|     | <b>Item no.890-243</b><br>Socket; 3-pole; Cod. B; 1,50 mm <sup>2</sup> ; gray  | <a href="http://www.wago.com/890-243">www.wago.com/890-243</a>                   |
|   | <b>Item no.890-743</b><br>Snap-in socket; 3-pole; Cod. B; 1,50 mm <sup>2</sup> ; gray  | <a href="http://www.wago.com/890-743">www.wago.com/890-743</a>                   |
|  | <b>Item no.890-843</b><br>Socket for PCBs; straight; 3-pole; Cod. B  | <a href="http://www.wago.com/890-843">www.wago.com/890-843</a>                   |
|   | <b>Item no.891-8993/005-103</b><br>pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. B; 1 m; 1,00 mm <sup>2</sup> ; gray             | <a href="http://www.wago.com/891-8993/005-103">www.wago.com/891-8993/005-103</a> |
|   | <b>Item no.890-843/011-000</b><br>Socket for PCBs; angled; 3-pole; Cod. B  | <a href="http://www.wago.com/890-843/011-000">www.wago.com/890-843/011-000</a>   |
|   | <b>Item no.891-8993/105-103</b><br>pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. B; 1 m; 1,00 mm <sup>2</sup> ; gray            | <a href="http://www.wago.com/891-8993/105-103">www.wago.com/891-8993/105-103</a> |






## Compatible products

### Strain relief plate

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

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|  |  |  |
|--|--|--|
|  | <b>Item no.: 890-503</b><br>Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; black | <a href="http://www.wago.com/890-503">www.wago.com/890-503</a> |
|  | <b>Item no.: 890-513</b><br>Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; white | <a href="http://www.wago.com/890-513">www.wago.com/890-513</a> |
| <b>assembling</b>  |  |  |
|  | <b>Item no.: 890-310</b><br>Mounting carrier; 2- to 5-pole; for flying leads; black                                      | <a href="http://www.wago.com/890-310">www.wago.com/890-310</a> |
|  | <b>Item no.: 890-311</b><br>Mounting carrier; 2- to 5-pole; for flying leads; white                                      | <a href="http://www.wago.com/890-311">www.wago.com/890-311</a> |
| <b>tools</b>   |  |  |
|  | <b>Item no.: 210-719</b><br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft                        | <a href="http://www.wago.com/210-719">www.wago.com/210-719</a> |
|  | <b>Item no.: 890-383</b><br>Operating tool; 3-way; green   | <a href="http://www.wago.com/890-383">www.wago.com/890-383</a> |
| <b>Locking lever</b>   |  |  |
|  | <b>Item no.: 890-101</b><br>Locking lever; for manual operation; black   | <a href="http://www.wago.com/890-101">www.wago.com/890-101</a> |
|  | <b>Item no.: 890-111</b><br>Locking lever; for flying leads; for tool operation; black                                   | <a href="http://www.wago.com/890-111">www.wago.com/890-111</a> |
|  | <b>Item no.: 890-121</b><br>Locking lever; for manual operation; white   | <a href="http://www.wago.com/890-121">www.wago.com/890-121</a> |
|  | <b>Item no.: 890-131</b><br>Locking lever; for flying leads; for tool operation; white                                   | <a href="http://www.wago.com/890-131">www.wago.com/890-131</a> |

## Downloads

### CAD/CAE-Data

#### CAD data

|                      |                     |                          |
|----------------------|---------------------|--------------------------|
| 2D/3D Models 890-253 | <a href="#">URL</a> | <a href="#">Download</a> |
|----------------------|---------------------|--------------------------|

#### CAE data

|                           |                     |                          |
|---------------------------|---------------------|--------------------------|
| EPLAN Data Portal 890-253 | <a href="#">URL</a> | <a href="#">Download</a> |
|---------------------------|---------------------|--------------------------|

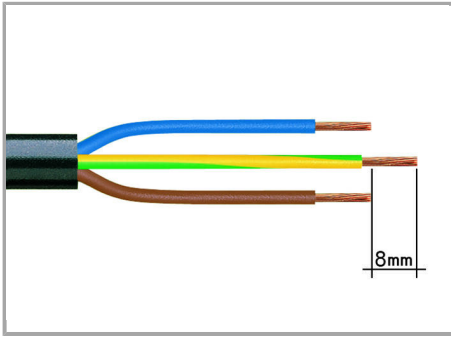
|                        |                     |                          |
|------------------------|---------------------|--------------------------|
| WSCAD Universe 890-253 | <a href="#">URL</a> | <a href="#">Download</a> |
|------------------------|---------------------|--------------------------|

## Installation Notes

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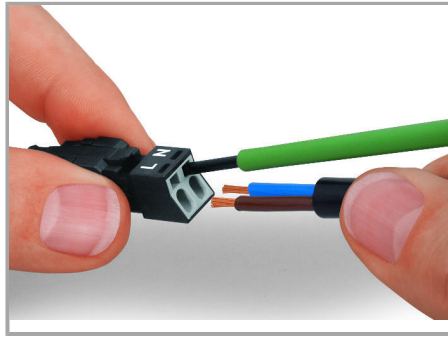
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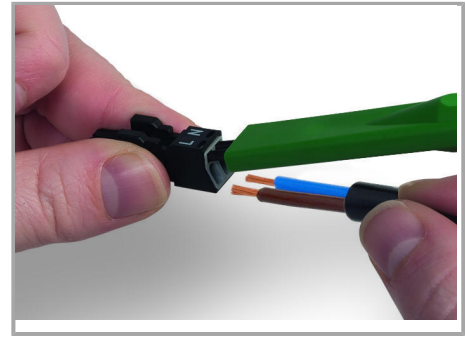
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)

2. Strip length = 9 mm

3. Extended ground conductor = 8 mm

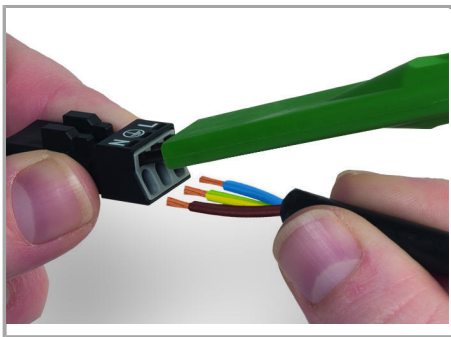


To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits backstop. Terminate solid conductors by simply pushing them in.



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

Terminate solid conductors by simply pushing them in.

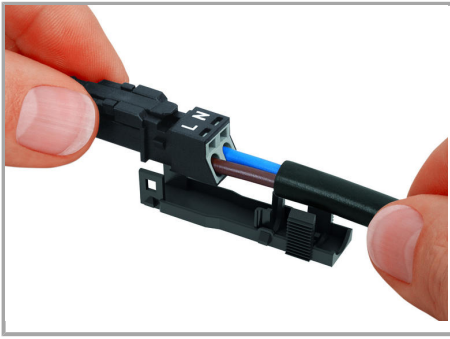


To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop.

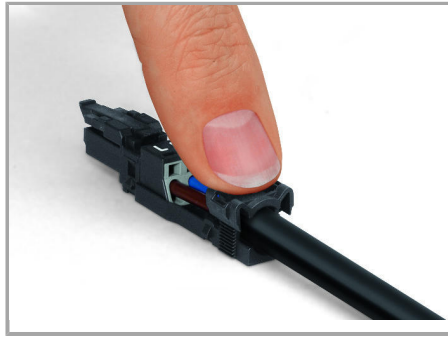
Terminate solid conductors by simply pushing them in.

### Installation

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



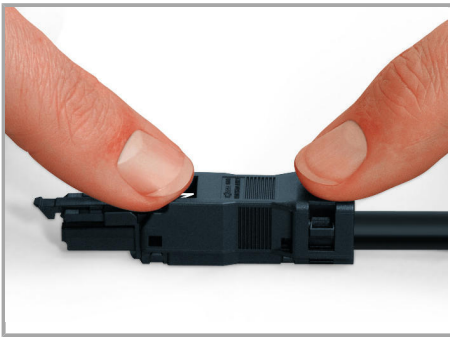
Latch wired connector onto the base of the strain relief housing.



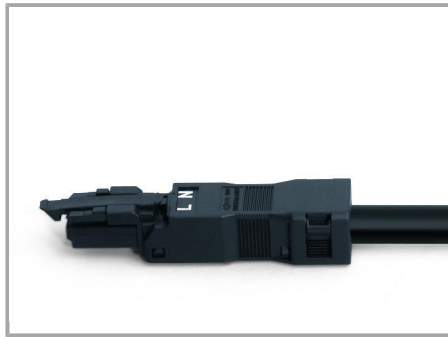
Push down strain relief clamp by hand.



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



Latch the top of the strain relief housing.

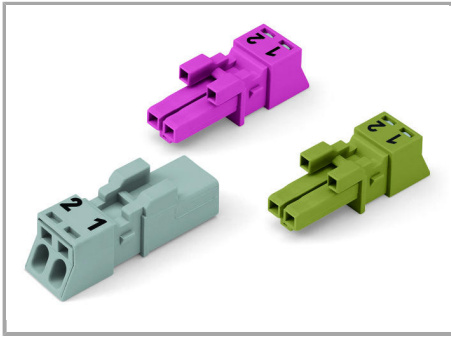


The printed marking of the connector is clearly visible in the openings of the strain relief housing.

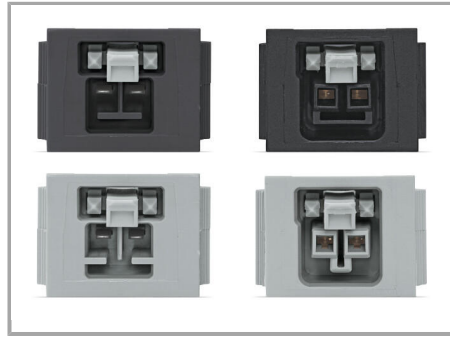
#### Mismatching protection

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





B-coded connectors with different colors can be plugged together.



B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.



**Important note:**

Different colors and/or pole marking are used for circuit identification.

Only connectors of the same color and same pole marking must be plugged together.

**Product family**

[\*WINSTA\*® MINI special](#)

[Show all products from the family](#)

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