

Picture differs from the item.

RoHS   
 Compliant

Color:

## 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.
- Low profile with 4.4 mm pole spacing
- Components can be clearly printed on and color-coded to meet custom requirements.
- When assembled, the installation connectors comply with IP40 and are suitable for easily accessible areas.

## 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

Ratings per

IEC/EN 60664-1

Nominal voltage (III/3)

400 V

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.



|                             |  |
|-----------------------------|--|
| Rated surge voltage (III/3) | 6 kV   |
| Rated current               | 16 A   |
| Note on rated current       | 13 A for 3-pole load 10 A for 4- and 5-pole load                     |
| Legend (ratings)            | (III / 3) $\triangleq$ Overvoltage category III / Pollution degree 3 |

## Ratings per UL

|                                      |   |
|--------------------------------------|---|
| Hinweis für den amerikanischen Markt | 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. |
| Rated voltage UL 1977                | 600 V   |
| Rated current UL 1977                | 12 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 insulated ferrule            | 0.25 ... 0.75 mm <sup>2</sup> / 22 ... 20 AWG |
| Fine-stranded conductor; with uninsulated ferrule          | 0.25 ... 0.75 mm <sup>2</sup> / 22 ... 20 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 0.75 mm <sup>2</sup> / 20 AWG                 |
| Strip length   | 9 mm / 0.35 inch                              |
| Note (strip length)  | see also packaging or instructions            |
| Pole No.   | 5   |
| Total number of connection points                          | 5   |
| Total number of potentials                                 | 5   |
| Conductor entry direction to mating direction              | 0°  |

## Physical data

|             |                      |
|-------------|----------------------|
| Pin spacing | 4.4 mm / 0.173 inch  |
| Width       | 23.6 mm / 0.929 inch |
| Height      | 11.7 mm / 0.461 inch |
| Depth       | 34.1 mm / 1.343 inch |

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## Mechanical data

|   |  |
|---|--|
| Application                             | Measurement and regulation technology                    |
| Coding                                  | B  |
| 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                              |
| Protection type                         | IP20   |
| Note on protection type                 | IP40 when mated with strain relief housing               |

## Plug-in connection

|                                    |  |
|------------------------------------|--|
| Contact type (pluggable connector) | Male connector/plug  |
| Connector (connection type)        | for conductor  |
| Mismating protection               | Yes  |
| Note on mismating protection       | All WINSTA <sup>®</sup> 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  |
| Hinweis zur Verriegelung           | 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). |

## Material data

|                          |  |
|--------------------------|--|
| Color                    | pink                                     |
| Insulation material      | Polyamide (PA66)                         |
| Clamping spring material | Chrome nickel spring steel (CrNi)        |
| Contact material         | Copper or copper alloy (surface-treated) |
| Fire load                | 0.12 MJ                                  |
| Weight                   | 5.6 g                                    |

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

## 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


|                       |               |
|-----------------------|---------------|
| Packaging type        | BOX           |
| Country of origin     | PL            |
| GTIN                  | 4055143500098 |
| Customs tariff number | 85366990990   |

## Approvals / Certificates

### Country specific Approvals

| Logo  | Approval                       | Additional Approval Text | Certificate name |
|---|--------------------------------|--------------------------|------------------|
|  | CB<br>DEKRA Certification B.V. | EN 61984                 | 71-112993        |
|   | CB<br>DEKRA Certification B.V. | EN 61984                 | NL-64351         |

### Ship Approvals

| Logo  | Approval              | Additional Approval Text | Certificate name |
|---|-----------------------|--------------------------|------------------|
|  | LR<br>Lloyds Register | EN 61535                 | 08/20047 (E2)    |



## Counterpart

|  |   |  |
|--|---|--|
|  | <b>Item no.890-285/082-000</b><br>Socket; 5-pole; Cod. B; 1,50 mm <sup>2</sup> ; pink         | <a href="http://www.wago.com/890-285/082-000">www.wago.com/890-285/082-000</a> |
|  | <b>Item no.890-785/082-000</b><br>Snap-in socket; 5-pole; Cod. B; 1,50 mm <sup>2</sup> ; pink | <a href="http://www.wago.com/890-785/082-000">www.wago.com/890-785/082-000</a> |

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

## Required accessories





### assembling

|  |   |  |
|--|---|--|
|  | <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> |



### tools

|  |  |  |
|--|--|--|
|  | <b>Item no.: 890-385</b><br>Operating tool; 5-way; green | <a href="http://www.wago.com/890-385">www.wago.com/890-385</a> |
|--|--|--|

### Locking lever


|   |  |  |
|---|--|--|
|   | <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> |

### Strain relief plate

|  |  |  |
|--|--|--|
|  | <b>Item no.: 890-505</b><br>Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm; black | <a href="http://www.wago.com/890-505">www.wago.com/890-505</a> |
|  | <b>Item no.: 890-515</b><br>Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm; white | <a href="http://www.wago.com/890-515">www.wago.com/890-515</a> |

## Compatible products

### tools

|  |   |  |
|--|---|--|
|  | <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> |
|--|---|--|

## Downloads

### Documentation

#### Bid Text

|                 |            |         |          |
|-----------------|------------|---------|----------|
| 890-295/082-000 | 8. 6. 2015 | doc     | Download |
| doc - Datei     |            | 25.1 kB |          |

890-295/082-000

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X81 - Datei

19. 2. 2019

xml  
3.0 kB

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## CAD/CAE-Data

### CAE data

ZUKEN Portal 890-295/082-000

[URL](#)

[Download](#)

### CAD data

2D/3D Models 890-295/082-000

[URL](#)

[Download](#)

## Environmental Product Compliance

### Compliance Search

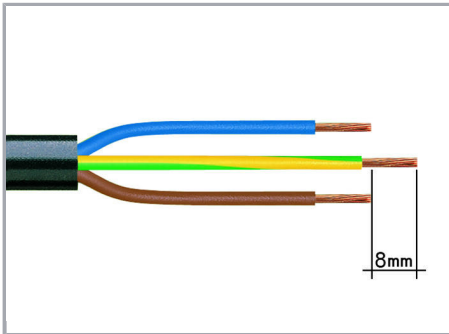
Environmental Product Compliance 890-295/082-000

[URL](#)

[Download](#)

Plug; 5-pole; 1,50 mm<sup>2</sup>; pink

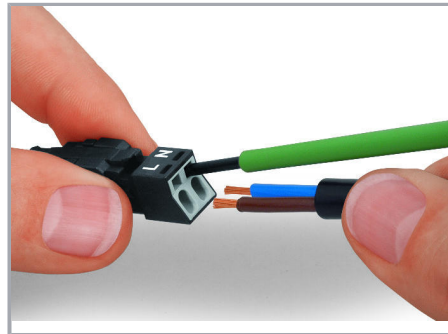
## Installation Notes



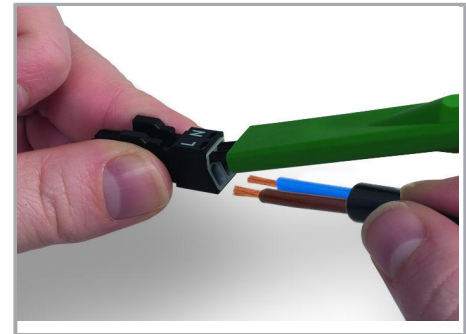
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)

2. Strip length = 9 mm

3. Extended ground conductor = 8 mm



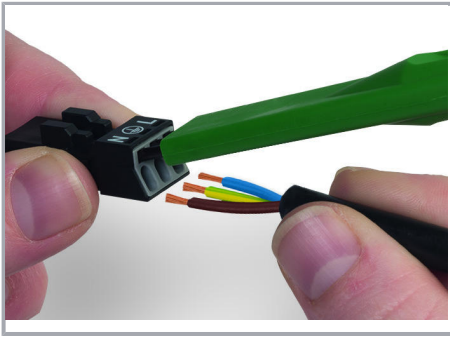
To terminate fine-stranded conductors, open the clamping unit via screwdriver – 2.5 mm blade width – and insert a stripped conductor until it hits the backstop. Terminate solid conductors by simply pushing them in.



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.

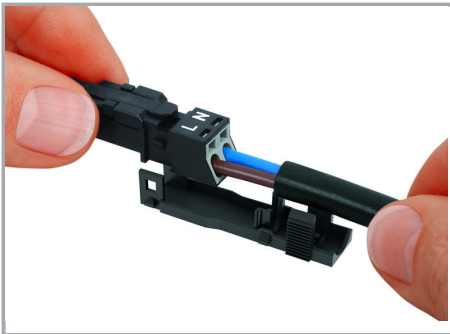
Subject to changes. Please also observe the further product documentation!



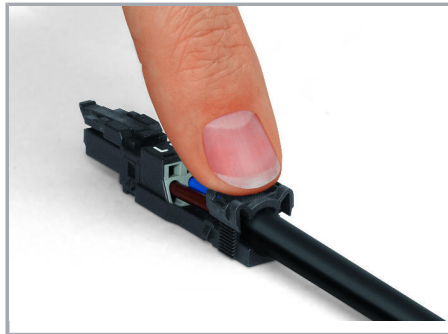
To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop.

Terminate solid conductors by simply pushing them in.

### Installation



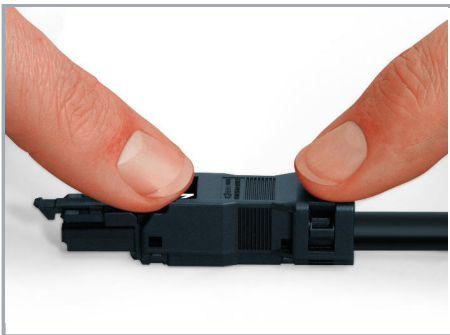
Latch the wired connector into the base of the strain relief housing.



Push down strain relief clamp by hand.

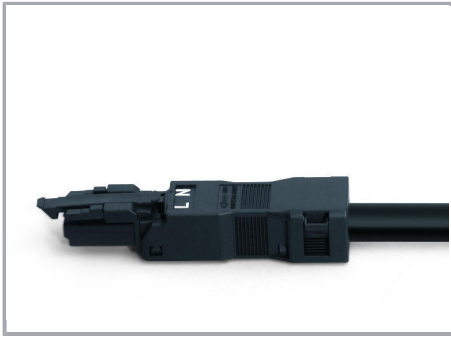


Push down strain relief clamp with 2.5 mm screwdriver alternately on both sides.



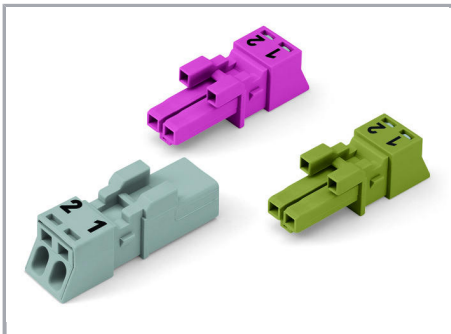
Latch the top of the strain relief housing.

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



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

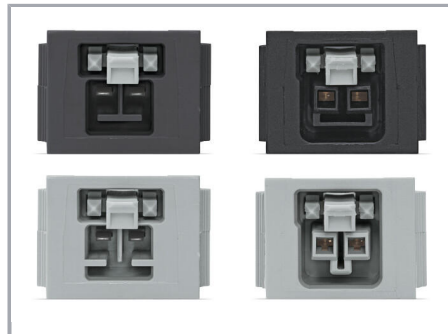
### Mismatching protection



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

#### Important note:

Different colors and/or pole markings are used for circuit identification. Only connectors of the same color and same pole marking must 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.



### Product family

<i>WINSTA</i>® MINI

[Show all products from the family](#)

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