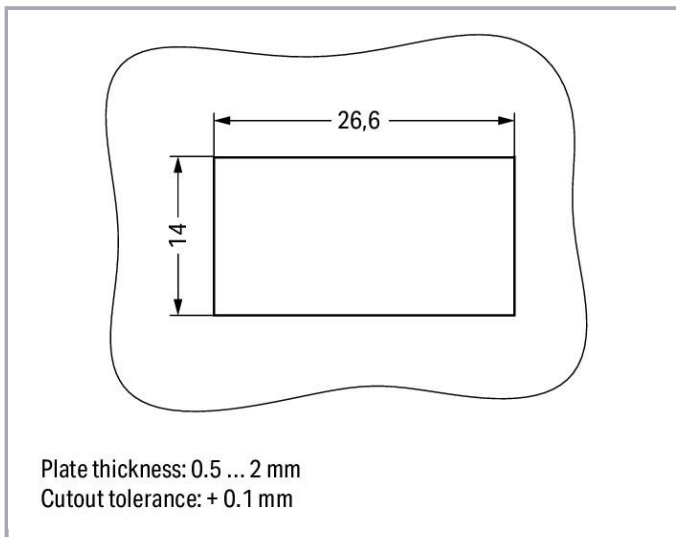
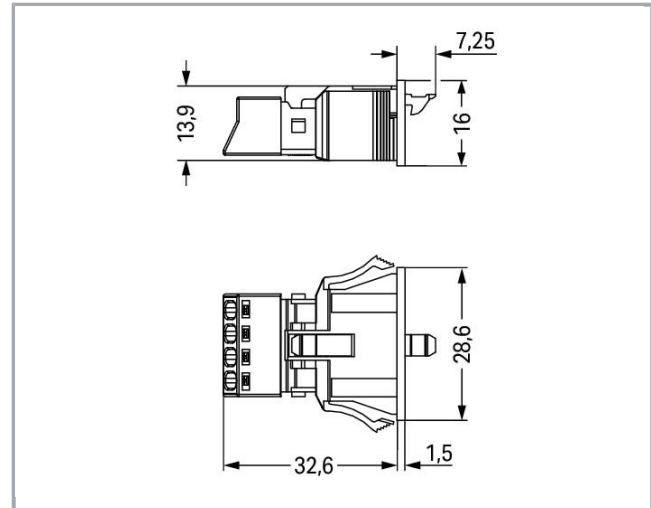
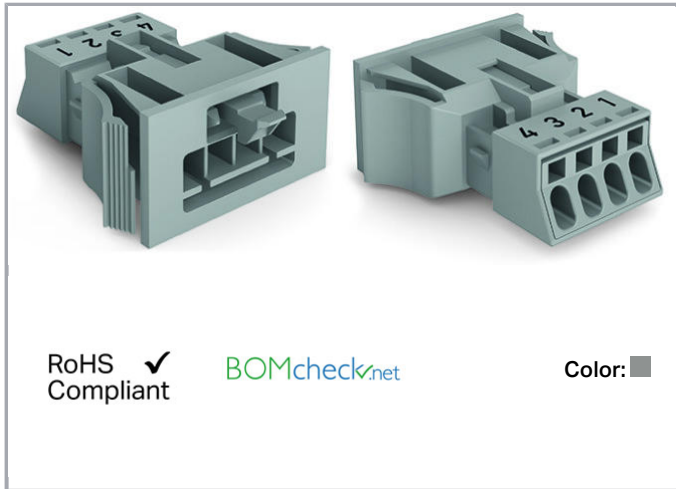


## Data sheet | Item number: 890-754

Snap-in plug; 4-pole; Cod. B; 1,50 mm<sup>2</sup>; gray

[www.wago.com/890-754](http://www.wago.com/890-754)



### 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

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

WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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**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

**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                                            |
|-----------------------------|-----------------------------------------------------------|
| Nominal voltage (III/3)     | 400 V                                                     |
| 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-pole load                 |
| Legend (ratings)            | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

**Approvals per UL 1977**

|                       |       |
|-----------------------|-------|
| 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 mm²                          |
| Solid conductor                      | 0.25 ... 1.5 mm² / 22 ... 16 AWG |
| Solid conductor; push-in termination | 0.75 ... 1.5 mm² / 20 ... 16 AWG |

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|                                                            |                                               |
|------------------------------------------------------------|-----------------------------------------------|
| 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.                                                   | 4                                             |
| Total number of connection points                          | 4                                             |
| Total number of potentials                                 | 4                                             |
| Conductor entry direction to mating direction              | 0°                                            |

## Geometrical Data

|             |                      |
|-------------|----------------------|
| Pin spacing | 4.4 mm / 0.173 inch  |
| Width       | 28.6 mm / 1.126 inch |
| Height      | 16 mm / 0.63 inch    |
| Depth       | 39.8 mm / 1.567 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) |
| Housing sheet thickness                 | 0.5 ... 2 mm / 0.02 ... 0.079 inch                                                                         |
| Mounting type                           | Snap-in                                                                                                    |
| Marking                                 | 1 2 3 4                                                                                                    |
| Protection type                         | IP20                                                                                                       |
| Note on protection type                 | IP40 when mated                                                                                            |
| Potential marking                       | 1 2 3 4                                                                                                    |

## Plug connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
|------------------------------------|---------------------|

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



|                               |               |
|-------------------------------|---------------|
| Connector (connection type)   | for conductor |
| Mismating protection          | Yes           |
| Locking of plug-in connection | locking lever |
| Locking lever                 | yes           |

## Material Data

|                          |                                          |
|--------------------------|------------------------------------------|
| Color                    | gray                                     |
| Insulation material      | Polyamide 66 (PA66)                      |
| Clamping spring material | Chrome nickel spring steel (CrNi)        |
| Contact material         | Copper or copper alloy (surface-treated) |
| Fire load                | 0.167 MJ                                 |
| Weight                   | 6.9 g                                    |

## Environmental Requirements

|                                          |                                                 |
|------------------------------------------|-------------------------------------------------|
| Processing temperature                   | -5 ... +40 °C                                   |
| Continuous operating temperature         | -35 ... +85 °C                                  |
| Note on continuous operating temperature | Insulating parts for temperatures $\leq 105$ °C |

## Commercial data

|                       |               |
|-----------------------|---------------|
| Product Group         | 20 (WINSTA)   |
| Packaging type        | BOX           |
| Country of origin     | PL            |
| GTIN                  | 4055143427678 |
| Customs tariff number | 85366990990   |

## Approvals / Certificates

### Country specific Approvals

| Logo | Approval                               | Additional Approval Text | Certificate name |
|------|----------------------------------------|--------------------------|------------------|
|      | <b>CB</b><br>DEKRA Certification B.V.  | EN 61984                 | 71-112993        |
|      | <b>CB</b><br>DEKRA Certification B.V.  | IEC 61984                | NL-64351         |
|      | <b>CCA</b><br>DEKRA Certification B.V. | EN 60320                 | 2148952.04       |
|      |                                        |                          |                  |

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## 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) |

## UL-Approvals

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

## Counterpart

|                                                                                    |                                                                                                                                                                                     |                                                                                  |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|  | <b>Item no.890-244</b><br>Socket; 4-pole; Cod. B; 1,50 mm <sup>2</sup> ; gray                                                                                                       | <a href="http://www.wago.com/890-244">www.wago.com/890-244</a>                   |
|  | <b>Item no.891-8994/105-103</b><br>pre-assembled connecting cable; Eca; Socket/open-ended; 4-pole; Cod. B; Control cable 4 x 1.0 mm <sup>2</sup> ; 1 m; 1,00 mm <sup>2</sup> ; gray | <a href="http://www.wago.com/891-8994/105-103">www.wago.com/891-8994/105-103</a> |
|  | <b>Item no.891-8994/005-103</b><br>pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. B; Control cable 4 x 1.0 mm <sup>2</sup> ; 1 m; 1,00 mm <sup>2</sup> ; gray  | <a href="http://www.wago.com/891-8994/005-103">www.wago.com/891-8994/005-103</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

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

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|                             |              |                |          |
|-----------------------------|--------------|----------------|----------|
| 890-754<br>doc - Datei      | Nov 30, 2018 | doc<br>24.1 kB | Download |
| 890-754<br>GAEB X81 - Datei | Feb 19, 2019 | xml<br>3.0 kB  | Download |

## CAD/CAE-Data

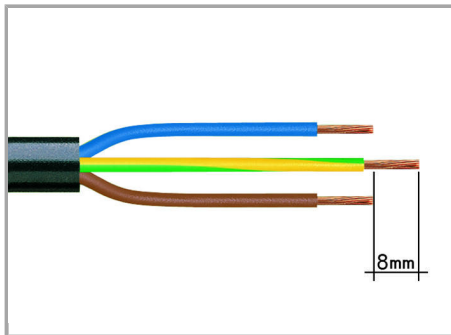
### CAD data

|                      |     |          |
|----------------------|-----|----------|
| 2D/3D Models 890-754 | URL | Download |
|----------------------|-----|----------|

### CAE data

|                           |     |          |
|---------------------------|-----|----------|
| EPLAN Data Portal 890-754 | URL | Download |
| WSCAD Universe 890-754    | URL | Download |
| ZUKEN Portal 890-754      | URL | Download |

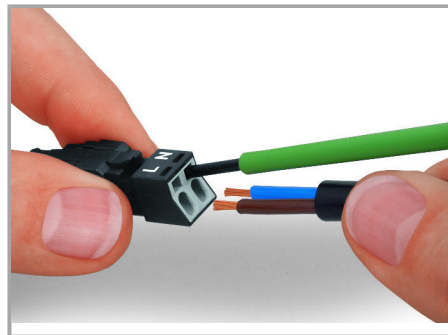
## Installation Notes



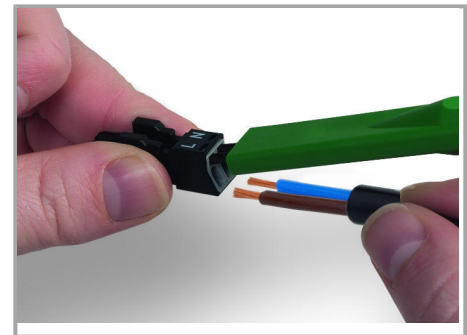
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)

2. Strip length = 9 mm

3. Extended ground conductor = 8 mm



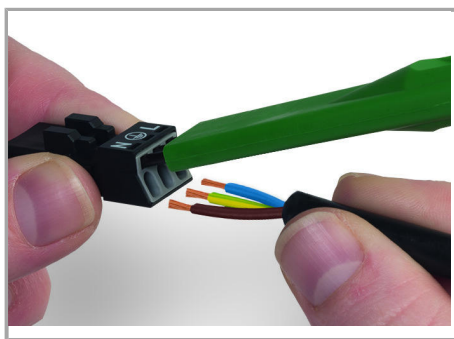
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits backstop. Terminate solid conductors by simply pushing them in.



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.

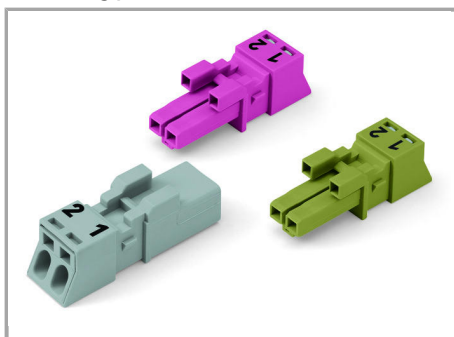
Subject to changes. Please also observe the further product documentation!



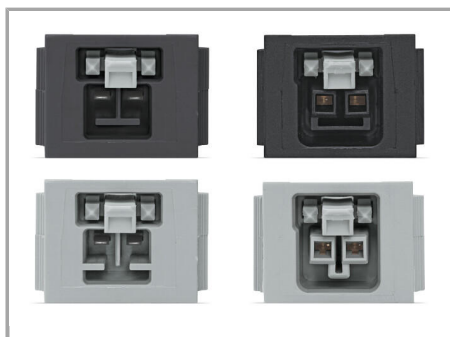
To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop.

Terminate solid conductors by simply pushing them in.

#### Mismatching protection



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.

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