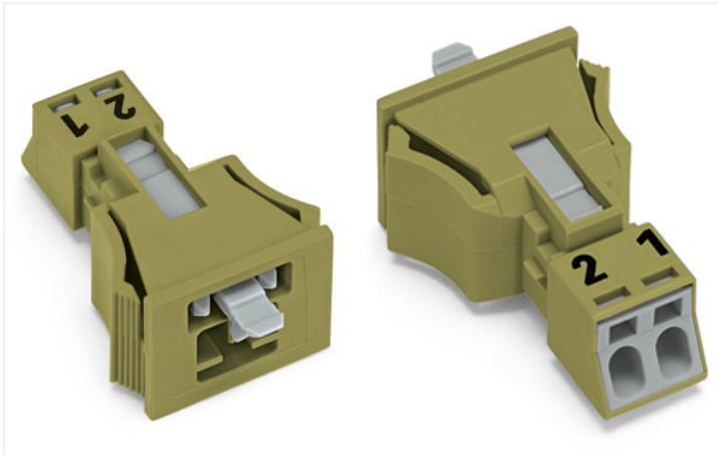


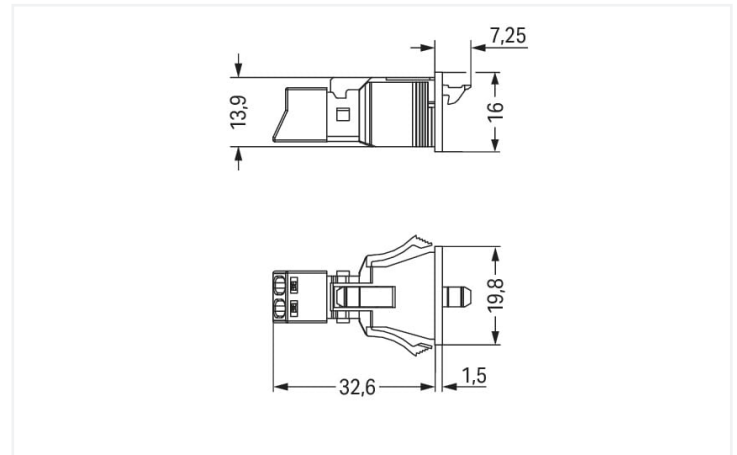
## Data Sheet | Item Number: 890-772

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

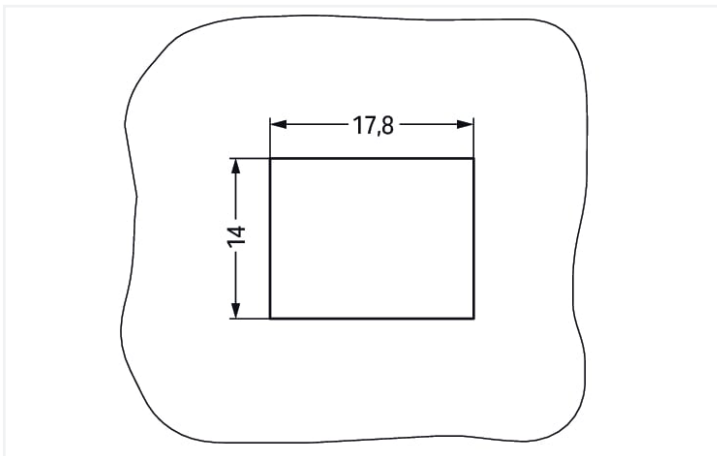
<https://www.wago.com/890-772>



Color: ■ light green



Dimensions in mm



Dimensions in mm

Plate thickness: 0.5 ... 2 mm

Cutout tolerance: + 0.1 mm

Please note!

Male connector/plug WINSTA® MINI with protection type IP20

The WINSTA® MINI male connector/plug 2-pole allows installation of fine-stranded and solid conductors. The pluggable installation connectors with spring pressure connection technology work entirely without screw connections. They allow resource-efficient, error-free installation in numerous applications. For greater security in electrical installations, the pluggable installation connector is provided with mechanical protection against mismatching. Solutions like the WINSTA® MINI pluggable installation connectors with B coding are appropriate for process control, for example, for lighting or in data networks. WINSTA® MINI is our response to the trend toward miniaturisation. Our smallest pluggable connection system is very good for lights, for example, since due to LED technology, these offer less and less space for the connection technology.

Lower costs through fast commissioning and elimination of service expenses – solutions from WINSTA® MINI

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology tool! Plan your installation with with marking from WAGO.

- pluggable installation connectors with protection against mismatching
- easy tool-free operation, a wide range of coding options
- for automation controllers
- flexible installation to save space
- rapid, structured electrical installation



| Notes     |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note      | The snap-in connectors must be relieved of tensile and transverse forces. A surface finish can influence the edge radius of the cutouts. This may affect the snap-in socket fit, so ensure an adequate fit before use. In addition, the punched edge should be on the inside for punched cutouts. The wings of the snap-in connectors must not be mechanically stressed for a long period before use (e.g., due to a pre-locking position). |
| Variants: | Other pole markings<br>Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .                                                                                                                                                                                                                                                         |

| Electrical data            |  |                                                                                          |     |    |
|----------------------------|--|------------------------------------------------------------------------------------------|-----|----|
| Ratings per                |  | IEC/EN 60664-1                                                                           |     |    |
| Overvoltage category       |  | III                                                                                      | III | II |
| Pollution degree           |  | 3                                                                                        | 2   | 2  |
| Nominal voltage            |  | 250 V                                                                                    | -   | -  |
| Rated surge voltage        |  | 4 kV                                                                                     | -   | -  |
| Rated current              |  | 16 A                                                                                     | -   | -  |
| Approvals per              |  | UL 1977                                                                                  |     |    |
| Rated voltage              |  | 600 V                                                                                    |     |    |
| Rated current              |  | 14 A                                                                                     |     |    |
| General information        |  |                                                                                          |     |    |
| Note on contact resistance |  | approx. 1 mΩ of contact resistance<br>approx. 0.25 mΩ contact transition plug/<br>socket |     |    |

| Connection data                                            |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                     |                |                           |                       |                  |                 |                                  |                                      |                                  |                    |                                |                         |                                  |                                                 |                                   |                                                   |                                   |                                                            |                   |              |                    |             |   |                                               |     |
|------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------|----------------|---------------------------|-----------------------|------------------|-----------------|----------------------------------|--------------------------------------|----------------------------------|--------------------|--------------------------------|-------------------------|----------------------------------|-------------------------------------------------|-----------------------------------|---------------------------------------------------|-----------------------------------|------------------------------------------------------------|-------------------|--------------|--------------------|-------------|---|-----------------------------------------------|-----|
| Connection points                                          | 2                                 | <div>Connection 1</div> <table><tr><td>Connection technology</td><td>Push-in CAGE CLAMP®</td></tr><tr><td>Actuation type</td><td>Operating tool<br/>Push-in</td></tr><tr><td>Nominal cross-section</td><td>1.5 mm² / 16 AWG</td></tr><tr><td>Solid conductor</td><td>0.25 ... 1.5 mm² / 22 ... 16 AWG</td></tr><tr><td>Solid conductor; push-in termination</td><td>0.75 ... 1.5 mm² / 20 ... 16 AWG</td></tr><tr><td>Stranded conductor</td><td>0.25 ... 1 mm² / 22 ... 18 AWG</td></tr><tr><td>Fine-stranded conductor</td><td>0.25 ... 1.5 mm² / 22 ... 16 AWG</td></tr><tr><td>Fine-stranded conductor; with insulated ferrule</td><td>0.25 ... 0.75 mm² / 22 ... 20 AWG</td></tr><tr><td>Fine-stranded conductor; with uninsulated ferrule</td><td>0.25 ... 0.75 mm² / 22 ... 20 AWG</td></tr><tr><td>Fine-stranded conductor; with ferrule; push-in termination</td><td>0.75 mm² / 20 AWG</td></tr><tr><td>Strip length</td><td>9 mm / 0.35 inches</td></tr><tr><td>Pole number</td><td>2</td></tr><tr><td>Conductor entry direction to mating direction</td><td>0 °</td></tr></table> | Connection technology | Push-in CAGE CLAMP® | Actuation type | Operating tool<br>Push-in | Nominal cross-section | 1.5 mm² / 16 AWG | Solid conductor | 0.25 ... 1.5 mm² / 22 ... 16 AWG | Solid conductor; push-in termination | 0.75 ... 1.5 mm² / 20 ... 16 AWG | Stranded conductor | 0.25 ... 1 mm² / 22 ... 18 AWG | Fine-stranded conductor | 0.25 ... 1.5 mm² / 22 ... 16 AWG | Fine-stranded conductor; with insulated ferrule | 0.25 ... 0.75 mm² / 22 ... 20 AWG | Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 0.75 mm² / 22 ... 20 AWG | Fine-stranded conductor; with ferrule; push-in termination | 0.75 mm² / 20 AWG | Strip length | 9 mm / 0.35 inches | Pole number | 2 | Conductor entry direction to mating direction | 0 ° |
| Connection technology                                      | Push-in CAGE CLAMP®               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                     |                |                           |                       |                  |                 |                                  |                                      |                                  |                    |                                |                         |                                  |                                                 |                                   |                                                   |                                   |                                                            |                   |              |                    |             |   |                                               |     |
| Actuation type                                             | Operating tool<br>Push-in         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                     |                |                           |                       |                  |                 |                                  |                                      |                                  |                    |                                |                         |                                  |                                                 |                                   |                                                   |                                   |                                                            |                   |              |                    |             |   |                                               |     |
| Nominal cross-section                                      | 1.5 mm² / 16 AWG                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                     |                |                           |                       |                  |                 |                                  |                                      |                                  |                    |                                |                         |                                  |                                                 |                                   |                                                   |                                   |                                                            |                   |              |                    |             |   |                                               |     |
| Solid conductor                                            | 0.25 ... 1.5 mm² / 22 ... 16 AWG  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                     |                |                           |                       |                  |                 |                                  |                                      |                                  |                    |                                |                         |                                  |                                                 |                                   |                                                   |                                   |                                                            |                   |              |                    |             |   |                                               |     |
| Solid conductor; push-in termination                       | 0.75 ... 1.5 mm² / 20 ... 16 AWG  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                     |                |                           |                       |                  |                 |                                  |                                      |                                  |                    |                                |                         |                                  |                                                 |                                   |                                                   |                                   |                                                            |                   |              |                    |             |   |                                               |     |
| Stranded conductor                                         | 0.25 ... 1 mm² / 22 ... 18 AWG    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                     |                |                           |                       |                  |                 |                                  |                                      |                                  |                    |                                |                         |                                  |                                                 |                                   |                                                   |                                   |                                                            |                   |              |                    |             |   |                                               |     |
| Fine-stranded conductor                                    | 0.25 ... 1.5 mm² / 22 ... 16 AWG  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                     |                |                           |                       |                  |                 |                                  |                                      |                                  |                    |                                |                         |                                  |                                                 |                                   |                                                   |                                   |                                                            |                   |              |                    |             |   |                                               |     |
| Fine-stranded conductor; with insulated ferrule            | 0.25 ... 0.75 mm² / 22 ... 20 AWG |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                     |                |                           |                       |                  |                 |                                  |                                      |                                  |                    |                                |                         |                                  |                                                 |                                   |                                                   |                                   |                                                            |                   |              |                    |             |   |                                               |     |
| Fine-stranded conductor; with uninsulated ferrule          | 0.25 ... 0.75 mm² / 22 ... 20 AWG |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                     |                |                           |                       |                  |                 |                                  |                                      |                                  |                    |                                |                         |                                  |                                                 |                                   |                                                   |                                   |                                                            |                   |              |                    |             |   |                                               |     |
| Fine-stranded conductor; with ferrule; push-in termination | 0.75 mm² / 20 AWG                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                     |                |                           |                       |                  |                 |                                  |                                      |                                  |                    |                                |                         |                                  |                                                 |                                   |                                                   |                                   |                                                            |                   |              |                    |             |   |                                               |     |
| Strip length                                               | 9 mm / 0.35 inches                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                     |                |                           |                       |                  |                 |                                  |                                      |                                  |                    |                                |                         |                                  |                                                 |                                   |                                                   |                                   |                                                            |                   |              |                    |             |   |                                               |     |
| Pole number                                                | 2                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                     |                |                           |                       |                  |                 |                                  |                                      |                                  |                    |                                |                         |                                  |                                                 |                                   |                                                   |                                   |                                                            |                   |              |                    |             |   |                                               |     |
| Conductor entry direction to mating direction              | 0 °                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                     |                |                           |                       |                  |                 |                                  |                                      |                                  |                    |                                |                         |                                  |                                                 |                                   |                                                   |                                   |                                                            |                   |              |                    |             |   |                                               |     |
| Total number of potentials                                 | 2                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                     |                |                           |                       |                  |                 |                                  |                                      |                                  |                    |                                |                         |                                  |                                                 |                                   |                                                   |                                   |                                                            |                   |              |                    |             |   |                                               |     |

| Physical data |                         |
|---------------|-------------------------|
| Pin spacing   | 4.4 mm / 0.173 inches   |
| Width         | 19.8 mm / 0.78 inches   |
| Height        | 16 mm / 0.63 inches     |
| Depth         | 39.85 mm / 1.569 inches |

## Mechanical data

|                                         |                                                          |
|-----------------------------------------|----------------------------------------------------------|
| Application                             | Control technology                                       |
| Coding                                  | B                                                        |
| Variable coding                         | No                                                       |
| Marking                                 | 2 1                                                      |
| Potential marking                       | 2 1                                                      |
| 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                              |
| Housing sheet thickness                 | 0.5 ... 2 mm / 0.02 ... 0.079 inches                     |
| Mounting type                           | Snap-in flange                                           |
| Protection type                         | IP20; IP40 when mated                                    |

## Plug-in connection

|                                    |                                                                                                                                                                                                                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact type (pluggable connector) | Male connector/plug                                                                                                                                                                                                                                                                                              |
| Connector (connection type)        | for conductor                                                                                                                                                                                                                                                                                                    |
| Mismating protection               | Yes                                                                                                                                                                                                                                                                                                              |
| Note on mismating protection       | All WINSTA® components are 100% protected against mismating when:<br>a.) plugging different numbers of poles<br>b.) plugging while rotated 180<br>c.) plugging while laterally staggered<br>d.) plugging one pole                                                                                                |
| 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). |

## Material data

|                             |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| Note (material data)        | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       | light green                                                                                                            |
| 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                   | 0.116 MJ                                                                                                               |
| Weight                      | 4.3 g                                                                                                                  |

## 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       |               |  |
|-----------------------|---------------|--|
| Product Group         | 20 (Winsta)   |  |
| eCl@ss 10.0           | 27-44-06-02   |  |
| eCl@ss 9.0            | 27-44-06-02   |  |
| ETIM 8.0              | EC002566      |  |
| ETIM 7.0              | EC002566      |  |
| PU (SPU)              | 50 (50) pcs   |  |
| Packaging type        | Box           |  |
| Country of origin     | PL            |  |
| GTIN                  | 4055143428194 |  |
| Customs tariff number | 85366990990   |  |

| Environmental Product Compliance |                         |  |
|----------------------------------|-------------------------|--|
| RoHS Compliance Status           | Compliant, No Exemption |  |

Approvals / Certificates

| General approvals                                                                                                                                                                                                                                    |           |                  | Declarations of conformity and manufacturer's declarations |          |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|------------------------------------------------------------|----------|------------------|
|    |           |                  |                                                            |          |                  |
| Approval                                                                                                                                                                                                                                             | Standard  | Certificate Name | Approval                                                   | Standard | Certificate Name |
| CB<br>DEKRA Certification B.V.                                                                                                                                                                                                                       | IEC 61984 | NL-64351         | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| CB<br>DEKRA Certification B.V.                                                                                                                                                                                                                       | EN 61984  | 71-112993        | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| cURus<br>Underwriters Laboratories<br>Inc.                                                                                                                                                                                                           | UL 1977   | E45171           |                                                            |          |                  |
| KEMA/KEUR<br>DEKRA Certification B.V.                                                                                                                                                                                                                | EN 60320  | 2148952.04       |                                                            |          |                  |

Approvals for marine applications

|   |          |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|
| Approval                                                                                                                                                               | Standard | Certificate Name |
| DNV GL<br>Det Norske Veritas, Ger-<br>manischer Lloyd                                                                                                                  | -        | TAE00001Z6       |
| LR<br>Lloyds Register                                                                                                                                                  | EN 61535 | 08/20047 (E2)    |



Downloads

Environmental Product Compliance

|                                                                                   |
|-----------------------------------------------------------------------------------|
| Compliance Search                                                                 |
| Environmental Product Compliance 890-772                                          |
|  |

Documentation

|          |            |                 |                                                                                   |
|----------|------------|-----------------|-----------------------------------------------------------------------------------|
| Bid Text |            |                 |                                                                                   |
| 890-772  | 19.02.2019 | xml<br>2.94 KB  |  |
| 890-772  | 08.06.2015 | doc<br>23.00 KB |  |

CAD/CAE-Data

|                                                                                   |
|-----------------------------------------------------------------------------------|
| CAD data                                                                          |
| 2D/3D Models 890-772                                                              |
|  |

|                           |                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------|
| CAE data                  |                                                                                       |
| EPLAN Data Portal 890-772 |    |
| WSCAD Universe 890-772    |   |
| ZUKEN Portal 890-772      |  |

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



[Item No.: 891-8992/105-105](#)  
pre-assembled connecting cable; Eca; Socket/open-ended; 2-pole; Cod. B; Control cable 2 x 1.0 mm²; 1 m; 1,00 mm²; light green



[Item No.: 891-8992/005-105](#)  
pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. B; Control cable 2 x 1.0 mm²; 1 m; 1,00 mm²; light green

1.1.2 Female connector/socket



[Item No.: 890-262](#)  
Socket; 2-pole; Cod. B; 1,50 mm²; light green

1.2 Optional Accessories

1.2.1 Cover

1.2.1.1 Cover



**Item No.: 890-642**  
Lockout cap; 2-pole; for cutouts; Plastic; black



**Item No.: 890-692**  
Lockout cap; 2-pole; for cutouts; Plastic; white

1.2.2 Tool

1.2.2.1 Operating tool



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



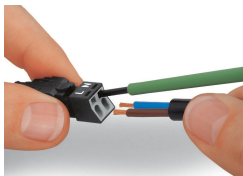
**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

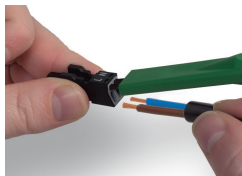
Conductor termination



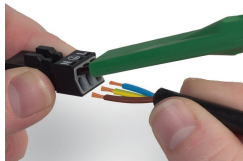
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.

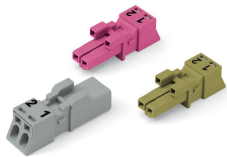


To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.



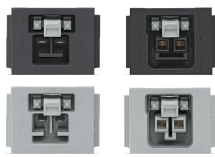
To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.

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.

