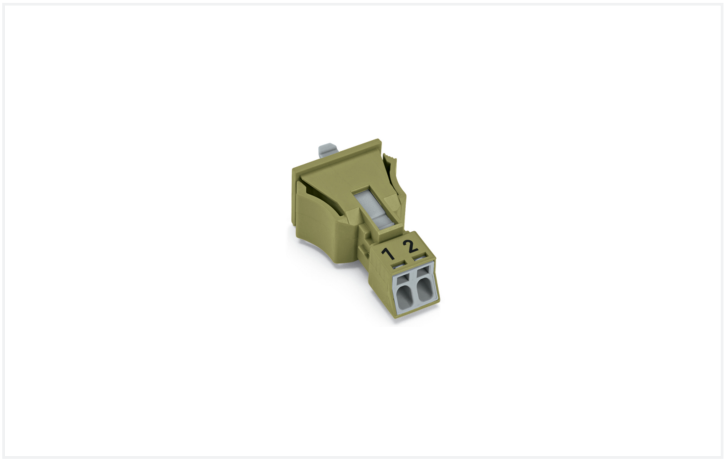
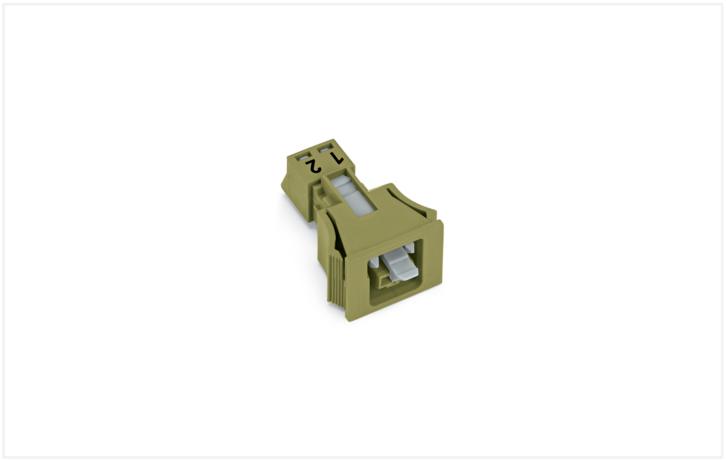
# Data Sheet | Item Number: 890-762

Snap-in socket; 2-pole; Cod. B; 1,50 mm²; light green

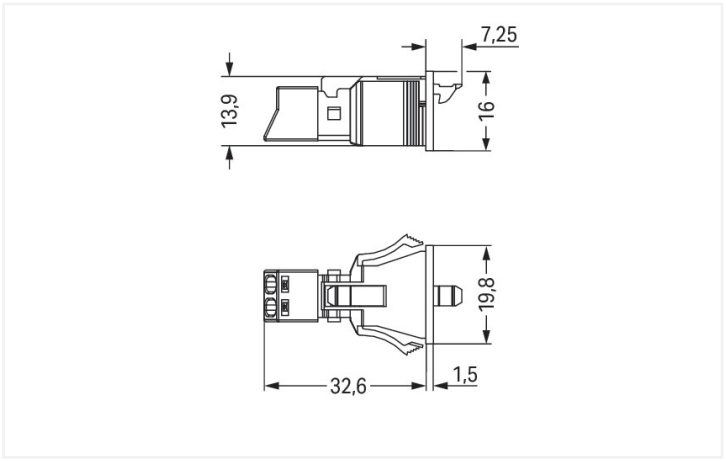
https://www.wago.com/890-762



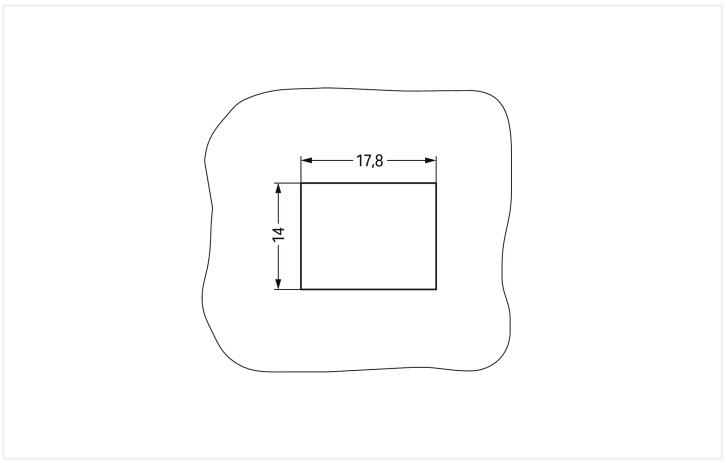




Color: light green




Dimensions in mm




Dimensions in mm
Plate thickness: 0.5 … 2 mmCutout tolerance: + 0.1 mm Please note!

Female connector/socket *WINSTA*® MINI with protection against mismating

The *WINSTA*® MINI female connector/socket with protection type IP40 supports rapid, correct installation. Our pluggable installation connectors with spring pressure connection technology function without screw connections. They allow resource-efficient, error-free installation in numerous applica-

tions. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismating. The pluggable installation connector offers protection against contact with tools or wires if they are smaller than 1 mm in accordance with protection type IP40. B coding enables the *WINSTA*® MINI pluggable installation connectors to be used for control in applications in automation, mechanical engineering and robotics. *WINSTA*® MINI follows the trend towards miniaturisation. Our smallest pluggable connection system is primarily suited for lights, for example, since as a result of LED technology; due to complex systems, these offer less and less space for the connection technology.

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

WINSTA® is the pluggable connection system that is ideally tailored to the strict requirements of electrical installation. It ensures error-free installation of cables and components, quickly and reliably. Choose durability and quality – with marking from WAGO makes the installation of electrical components substantially easier.

- pluggable installation connectors with protection against mismating
- consistent IP40 protection
- for automation controllers
- ready to install and use immediately
- quick replacement of defective units during ongoing operation

## Notes

| | |
|---|---|
| General safety information | **NOTICE: Observe installation and safety instructions!**<br><br>• Nur von Elektrofachkraft oder einer für die Tätigkeit elektrisch unterwiesenen Person (EUP nach DIN VDE 0105-100) anzuwenden!<br>• Nicht unter Spannung/Last installieren!<br>• Nur für bestimmungsgemäßen Gebrauch einsetzen!<br>• Nationale Vorschriften/Normen/Richtlinien beachten!<br>• Technische Daten der Produkte beachten!<br>• Auf die richtige Polbelegung achten!<br>• Keine beschädigten/verschmutzten Komponenten verwenden!<br>• Leiterarten, -querschnitte, Abisolierlängen und Leitungsdurchmesser beachten!<br>• Leiter bis zum Anschlag einführen!<br>• Nur mit Verriegelungsklinke und Zugentlastung verwenden!<br>• Originalzubehör verwenden!<br><br>**To be sold only with installation instructions!** |
| Note | The snap-in connectors must be relieved of tensile and transverse forces.<br>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.<br>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 https://configurator.wago.com/. |

## Electrical data

| Ratings per | IEC/EN 60664-1 | | |
|---|---|---|---|
| Overvoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | 250 V | - | - |
| Rated impulse withstand 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/socket |

## Connection Data

| | |
|---|---|
| Clamping units | 2 |
| Total number of potentials | 2 |

### Connection 1

| | |
|---|---|
| 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 ° |

## 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

| | |
|---|---|
| Use | Control technology |
| Coding | B |
| Variable coding | No |
| Marking | 1 2 |
| Potential marking | 1 2 |
| 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 | IP40 |
| Suitable for through-panel applications | Yes |

## Plug-in connection

| | |
|---|---|
| Contact type (pluggable connector) | Female connector/socket |
| 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). |


Continued on next page

## Material data

| | |
|---|---|
| Note (material data) | Information on material specifications can be found here |
| Color | light green |
| Cover color | gray |
| Material group | I |
| Insulation material (main housing) | 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 | 0.024 MJ |
| Weight | 4.5 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) |
| PU (SPU) | 50 (50) pcs |
| Packaging type | Box |
| Country of origin | PL |
| GTIN | 4055143428170 |
| Customs tariff number | 85366990990 |

## Product Classification

| | |
|---|---|
| UNSPSC | 39121409 |
| eCl@ss 10.0 | 27-44-06-02 |
| eCl@ss 9.0 | 27-44-06-02 |
| ETIM 9.0 | EC002566 |
| ETIM 10.0 | EC002566 |
| ECCN | NO US CLASSIFICATION |

## Environmental Product Compliance

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

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| CB<br>DEKRA Certification B.V. | IEC 61984 | NL-64351 |
| CB<br>DEKRA Certification B.V. | EN 61984 | 71-112993 |
| cURus<br>Underwriters Laboratories Inc. | UL 1977 | E45171 |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60320 | 2148952.04 |

### Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|---|---|
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |

 Continued on next page

## Approvals for marine applications

| Approval | Standard | Certificate Name |
|---|---|---|
| DNV GL<br>Det Norske Veritas, Germanischer Lloyd | - | TAE00001Z6 |
| LR<br>Lloyds Register | EN 61535 | LR23317167TA |
| PRS<br>Polski Rejestr Statków | - | TE/1096/880590/23 |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 890-762

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 890-762 | 19.02.2019 | xml<br>2.94 KB |
| 890-762 | 30.11.2018 | doc<br>23.00 KB |

### CAD/CAE-Data

**CAD data**

2D/3D Models 890-762

**CAE data**

EPLAN Data Portal 890-762

WSCAD Universe 890-762

ZUKEN Portal 890-762

## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Cable assembly



Item No.: 891-8992/205-105
pre-assembled connecting cable; Eca; Plug/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 Male connector/plug



Item No.: 890-272
Plug; 2-pole; 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



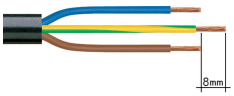
Item No.: 890-382
Operating tool; 2-way; green



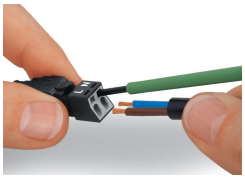
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

## Installation Notes

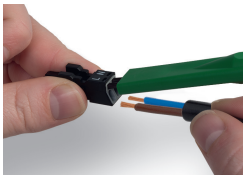
### Conductor termination



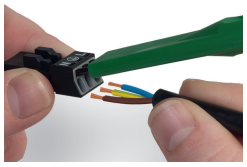

1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.

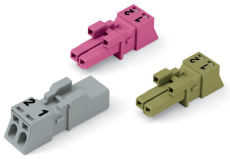


To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop.
Terminate solid conductors by simply pushing them in.



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.

### Mismating 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.



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