


Color: white

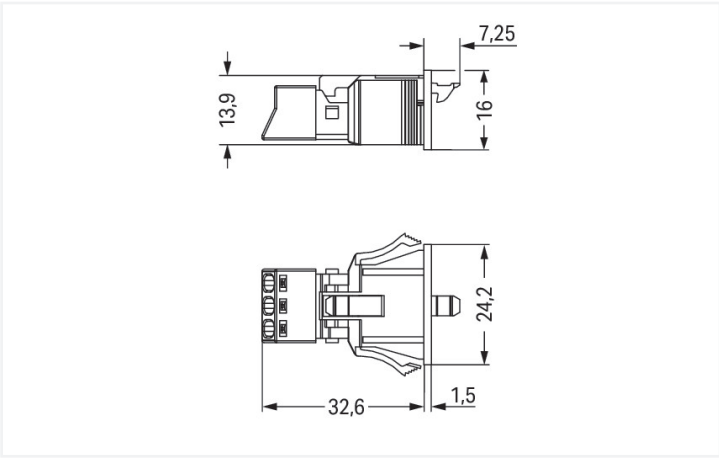
Similar to illustration



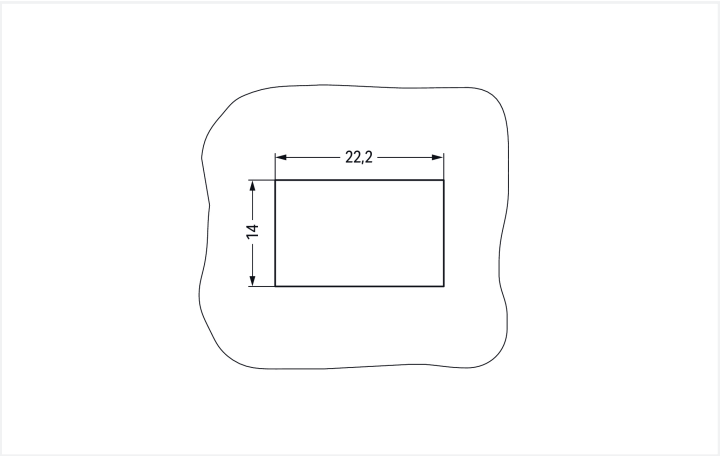

Similar to illustration




Similar to illustration




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 type IP40

The *WINSTA*® MINI female connector/socket rated current 16 A supports fast, reliable installation. WAGO pluggable installation connectors can be used when criteria repeat or are planned on a specified grid, for example for installing grid lighting or flush-mount lighting. The color coding and mechanical 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. The *WINSTA*® MINI pluggable installation connector with A coding in white or black is usually used for general mains applications in power distribution. *WINSTA*® MINI satisfies the demand for 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 significantly less space for the connection technology.

Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

WINSTA® is the pluggable connection system that is ideally tailored to the strict requirements of electrical installation. It offers error-free installation of cables and components, quickly and reliably. Now you can also reduce installation expenses without compromising safety and quality: with protection against mismating reduces the need for servicing and prevents unnecessary downtime.

- effective protection against mismating
- compact design for conductors with a cross-section up to 1.5 mm²
- with A coding for use in many general mains applications
- flexible installation to save space
- rapid, structured electrical installation

## 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). |

## 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 | 3 |
| Total number of potentials | 3 |

### 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 | 3 |
| Conductor entry direction to mating direction | 0 ° |

## Physical data

| | |
|---|---|
| Pin spacing | 4.4 mm / 0.173 inches |
| Width | 24.2 mm / 0.953 inches |
| Height | 16 mm / 0.63 inches |
| Depth | 39.85 mm / 1.569 inches |

## Mechanical data

| | |
|---|---|
| Use | General mains applications |
| Coding | A |
| Variable coding | No |
| Marking | L ⏚ N |
| Potential marking | L ⏚ N |
| 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 | white |
| 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 | 0.18 MJ |
| Weight | 6.1 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 | 4045454233501 |
| 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 |
|---|---|---|
| CCA<br>DEKRA Certification B.V. | EN 61535 | 71-123231 |
| CCA<br>DEKRA Certification B.V. | IEC 61535 | NL-85020 |
| cURus<br>Underwriters Laboratories Inc. | UL 1977 | E45171 |

### 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 |
|---|---|---|
| ABS<br>American Bureau of Shipping | Steel Vessel Rules | 24-0095973-PDA |
| 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 890-723

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 890-723 | 19.02.2019 | xml<br>2.91 KB |
| 890-723 | 30.11.2018 | doc<br>23.00 KB |

### CAD/CAE-Data

**CAD data**

2D/3D Models 890-723

**CAE data**

EPLAN Data Portal 890-723

WSCAD Universe 890-723

ZUKEN Portal 890-723


Continued on next page

## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Cable assembly



Item No.: 891-8993/205-102
pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. A; 1 m; 1,00 mm²; white



Item No.: 891-8993/005-102
pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; 1 m; 1,00 mm²; white

#### 1.1.2 Male connector/plug



Item No.: 890-233
Plug; 3-pole; Cod. A; 1,50 mm²; white



Item No.: 890-133
Plug; with strain relief housing; 3-pole; 1,50 mm²; white

### 1.2 Optional Accessories

#### 1.2.1 Cover

##### 1.2.1.1 Cover



Item No.: 890-643
Lockout cap; 3-pole; for cutouts; Plastic; black



Item No.: 890-693
Lockout cap; 3-pole; for cutouts; Plastic; white

#### 1.2.2 Tool

##### 1.2.2.1 Operating tool



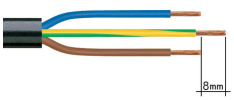
Item No.: 890-383
Operating tool; 3-way; green



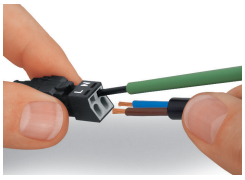
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

## Installation Notes

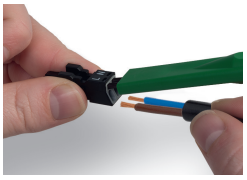
### Conductor termination




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.

