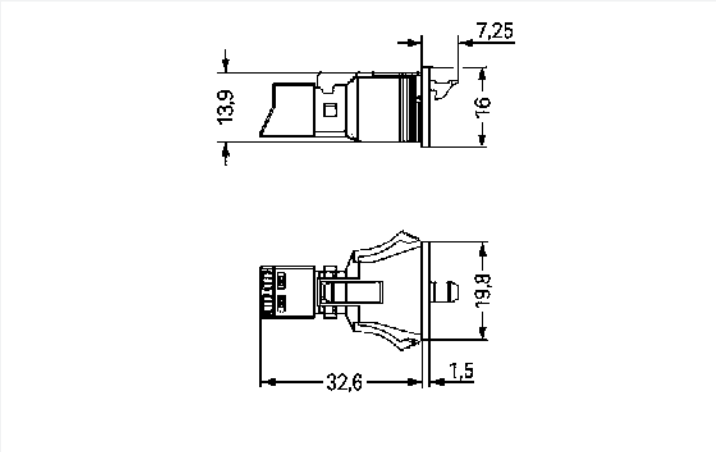
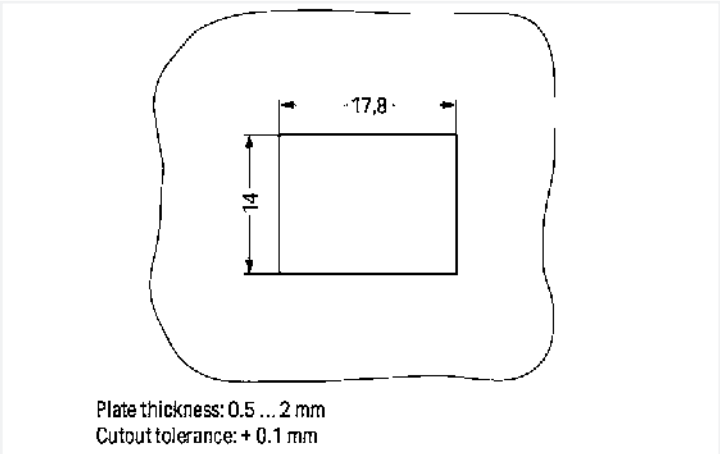

Color: black




Dimensions in mm




Dimensions in mm

Male connector/plug *WINSTA*® MINI 2-pole

The *WINSTA*® MINI male connector/plug rated current 16 A supports fast, reliable installation. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to many different requirements in next to no time. For greater protection in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismating. General mains applications for almost any domain of use can be implemented with *WINSTA*® MINI pluggable installation connectors with A coding. Thanks to its particularly compact dimensions, our *WINSTA*® MINI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology is especially suitable in very restricted spaces, i.e., for connections when very little room is available.

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

The WINSTA® Pluggable Connection System is perfectly tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and thus faster, more reliable, and error-free. Use of this pre-assembled system reduces time spent on assembly and installation errors at the construction site. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with *WINSTA*® MINI pluggable installation connectors with marking from WAGO.

- protection against mismating eliminates errors
- compact design for conductors with a cross-section up to 1.5 mm²
- suitable for any application
- exact dimensions
- convenient installation and commissioning

## Electrical data

## Ratings per IEC/EN

| | |
|---|---|
| Ratings per | IEC/EN 60664-1 |
| Nominal voltage (III/3) | 250 V |
| Rated impulse voltage (III/3) | 4 kV |
| Rated current | 16 A |
| Legend (ratings) | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

## Ratings per UL 1977

| | |
|---|---|
| Note for the US market | Some versions may also be used for current interruption in accordance with the UL certificate in select applications with currents below 5 A and voltages up to 600 V. For further information, please contact your local sales office. |
| Rated voltage (UL 1977) | 600 V |
| Rated current UL 1977 | 14 A |

## General

| | |
|---|---|
| Note on contact resistance | approx. 1 mΩ of contact resistance<br>approx. 0.25 mΩ contact transition plug/socket |

## Connection data

| | |
|---|---|
| Connection points | 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

| | |
|---|---|
| Application | General mains applications |
| Coding | A |
| Variable coding | No |
| Marking | N L |
| Potential marking | N L |
| Mating force of a plug-in connection | approx. 20 … 70 N (depending on pole number) |
| Retention force of a plug-in connection | Locked: > 80 N |
| Unmating force of a plug-in connection | Unlocked: approx. 20 … 70 N (depending on pole number) |
| Number of mating cycles | 200, without resistive load |
| Housing sheet thickness | 0.5 … 2 mm / 0.02 … 0.079 inches |
| Mounting type | Snap-in flange |
| Protection type | IP20; IP40 when mated |


Continued on next page

## 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) | Information on material specifications can be found here |
| Color | black |
| 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 | 0.112 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 | 4045454233457 |
| Customs tariff number | 85366990990 |

## 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 |

## Approvals for marine applications

| Approval | Standard | Certificate Name |
|---|---|---|
| ABS<br>American Bureau of Shipping | Steel Vessel Rules | 19-HG1869855-PDA |
| DNV GL<br>Det Norske Veritas, Germanischer Lloyd | - | TAE00001Z6 |
| LR<br>Lloyds Register | EN 61535 | 08/20047 (E2) |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 890-712

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 890-712 | 19.02.2019 | xml<br>2.92 KB |
| 890-712 | 30.11.2018 | doc<br>23.00 KB |

### CAD/CAE-Data

**CAD data**

2D/3D Models 890-712

**CAE data**

EPLAN Data Portal 890-712

WSCAD Universe 890-712

ZUKEN Portal 890-712

## 1 Compatible Products

### 1.1 System counterpart

### 1.1.1 Cable assembly

Item No.: 891-8992/105-101
pre-assembled connecting cable; Eca; Socket/open-ended; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm²; 1 m; 1,00 mm²; black

Item No.: 891-8992/005-101
pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm²; 1 m; 1,00 mm²; black

### 1.1.2 Female connector/socket

Item No.: 890-202
Socket; 2-pole; Cod. A; 1,50 mm²; black

Item No.: 890-102
Socket; with strain relief housing; 2-pole; Cod. A; 1,50 mm²; black

Item No.: 890-202/342-000
Socket; with strain relief housing; 2-pole; Cod. A; 1,50 mm²; black

## 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.