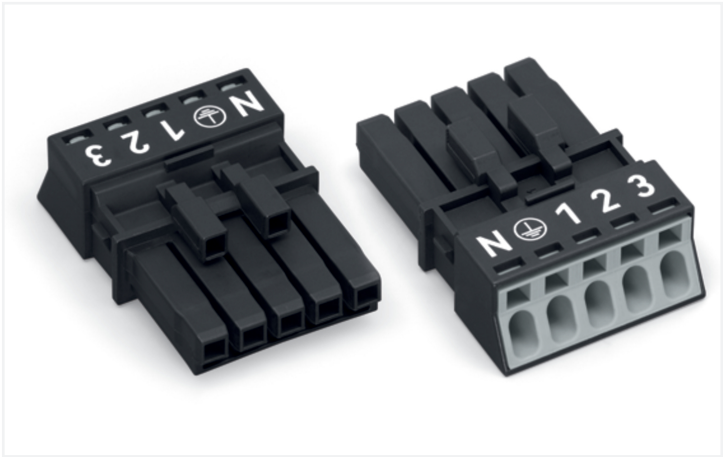
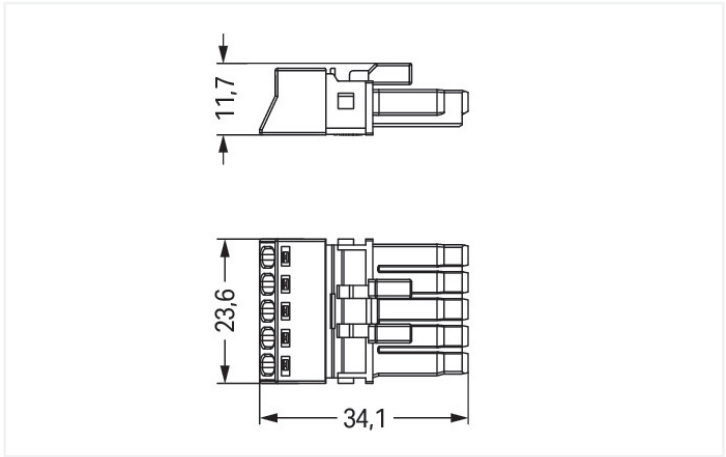




Color: ■ black



Dimensions in mm

Female connector/socket WINSTA® MINI rated current 13 A

The WINSTA® MINI female connector/socket with protection against mismatching is the pluggable solution for your use in control cabinets, for lighting connections or on PCBs. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to many different requirements in next to no time. The color coding and mechanical coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. Standard 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 tight spaces, i.e., for installations when very little room is available.

WINSTA® MINI solutions for your electrical installation – protected against mismatching and maintenance-free

The WINSTA® Pluggable Connection System is perfectly tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and consequently faster, even more reliable, and error-free. Use of this pre-assembled system reduces assembly times and errors during installation at the construction site. Now you can also lower installation costs without compromising quality and safety: with protection type IP20 eliminates the need for servicing and prevents unnecessary downtime.

- effective protection against mismatching
- compact design for conductors with a cross-section up to 1.5 mm²
- with A coding for use in a large number of general mains applications
- custom-engineered solutions
- fast, secure installation

| Electrical data            |  |                                                                                          |     |    |
|----------------------------|--|------------------------------------------------------------------------------------------|-----|----|
| Ratings per                |  | IEC/EN 60664-1                                                                           |     |    |
| Overvoltage category       |  | III                                                                                      | III | II |
| Pollution degree           |  | 3                                                                                        | 2   | 2  |
| Nominal voltage            |  | 400 V                                                                                    | -   | -  |
| Rated surge voltage        |  | 6 kV                                                                                     | -   | -  |
| Rated current              |  | 13 A                                                                                     | -   | -  |
| Approvals per              |  | UL 1977                                                                                  |     |    |
| Rated voltage              |  | 600 V                                                                                    |     |    |
| Rated current              |  | 12 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

|                            |   |
|----------------------------|---|
| Clamping units             | 5 |
| Total number of potentials | 5 |

## 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                                                | 5                                 |
| Conductor entry direction to mating direction              | 0°                                |

## Physical data

|             |                        |
|-------------|------------------------|
| Pin spacing | 4.4 mm / 0.173 inches  |
| Width       | 23.6 mm / 0.929 inches |
| Height      | 11.7 mm / 0.461 inches |
| Depth       | 34.1 mm / 1.343 inches |

## Mechanical data

|                                         |                                                          |
|-----------------------------------------|----------------------------------------------------------|
| Use                                     | General mains applications                               |
| Coding                                  | A                                                        |
| Variable coding                         | No                                                       |
| Marking                                 | N ⊕ 1 2 3                                                |
| Potential marking                       | N ⊕ 1 2 3                                                |
| 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                              |
| Protection type                         | IP20; IP40 with strain relief housing                    |

## Plug-in connection

|                                    |                                                                                                                                                                                                                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact type (pluggable connector) | Female connector/socket                                                                                                                                                                                                                                                                                          |
| Connector (connection type)        | for conductor                                                                                                                                                                                                                                                                                                    |
| Mismating protection               | Yes                                                                                                                                                                                                                                                                                                              |
| Note on mismating protection       | All <i>WINSTA</i> ® 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                      | Can be retrofitted                                                                                                                                                                                                                                                                                               |
| 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="#">Information on material specifications can be found here</a> |
| Color                              |  | black                                                                    |
| 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                          |  | 0.152 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 pcs        |
| Packaging type        |  | Box           |
| Country of origin     |  | PL            |
| GTIN                  |  | 4055143548571 |
| Customs tariff number |  | 85366990990   |

| Product classification |  |                      |
|------------------------|--|----------------------|
| UNSPSC                 |  | 39121409             |
| eCl@ss 10.0            |  | 27-44-06-05          |
| eCl@ss 9.0             |  | 27-44-06-05          |
| ETIM 9.0               |  | EC002560             |
| ETIM 8.0               |  | EC002560             |
| ECCN                   |  | NO US CLASSIFICATION |

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

| Approvals / Certificates                                                                                                                                               |           |                  |                                                            |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|------------------------------------------------------------|------------------|
| General approvals                                                                                                                                                      |           |                  | Declarations of conformity and manufacturer's declarations |                  |
|   |           |                  | Approval                                                   | Certificate Name |
| Approval                                                                                                                                                               | Standard  | Certificate Name | Standard                                                   | Certificate Name |
| CCA<br>DEKRA Certification B.V.                                                                                                                                        | EN 61535  | 71-123231        | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -                |
| CCA<br>DEKRA Certification B.V.                                                                                                                                        | IEC 61535 | NL-85020         | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -                |
| cURus<br>Underwriters Laboratories<br>Inc.                                                                                                                             | UL 1977   | E45171           |                                                            |                  |



Approvals for marine applications



| Approval                                              | Standard           | Certificate Name |
|-------------------------------------------------------|--------------------|------------------|
| ABS<br>American Bureau of Ship-<br>ping               | Steel Vessel Rules | 19-HG1869855-PDA |
| 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<br>Compliance 890-205 |



Documentation

| Bid Text |            |                 |  |
|----------|------------|-----------------|--|
| 890-205  | 19.02.2019 | xml<br>2.93 KB  |  |
| 890-205  | 08.06.2015 | doc<br>23.50 KB |  |

CAD/CAE-Data

| CAD data             |
|----------------------|
| 2D/3D Models 890-205 |



| CAE data                  |
|---------------------------|
| WSCAD Universe<br>890-205 |
| ZUKEN Portal 890-205      |



1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



Item No.: 891-8995/206-101  
pre-assembled connecting cable; Eca;  
Plug/open-ended; 5-pole; Cod. A; H05VV-  
F 5G 1.5 mm²; 1 m; 1,50 mm²; black

Item No.: 891-8995/006-101  
pre-assembled interconnecting cable;  
Eca; Socket/plug; 5-pole; Cod. A; H05VV-  
F 5G 1.5 mm²; 1 m; 1,50 mm²; black



1.1.2 Distribution connector



**Item No.: 890-929**  
h-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black



**Item No.: 890-930**  
h-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; black



**Item No.: 890-621**  
T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black



**Item No.: 890-622**  
T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black

1.1.3 Male connector/plug



**Item No.: 890-815/011-000**  
Plug for PCBs; angled; 5-pole; Cod. A; black



**Item No.: 890-815**  
Plug for PCBs; straight; 5-pole; Cod. A; black



**Item No.: 890-215**  
Plug; 5-pole; Cod. A; 1,50 mm²; black



**Item No.: 890-115**  
Plug; with strain relief housing; 5-pole; 1,50 mm²; black



**Item No.: 890-715**  
Snap-in plug; 5-pole; Cod. A; 1,50 mm²; black

1.2 Required Accessories

1.2.1 Locking system

1.2.1.1 Locking system



**Item No.: 890-111**  
Locking lever; for flying leads; for tool operation; black



**Item No.: 890-131**  
Locking lever; for flying leads; for tool operation; white



**Item No.: 890-101**  
Locking lever; for manual operation; black



**Item No.: 890-121**  
Locking lever; for manual operation; white

1.2.2 Strain relief

1.2.2.1 Strain relief housing



**Item No.: 890-505**  
Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm; black



**Item No.: 890-515**  
Strain relief housing; 5-pole; with locking clip; for 1 cable; 6.5 ... 10.5 mm; 45 mm; white

1.3 Optional Accessories

1.3.1 Cover

1.3.1.1 Cover



**Item No.: 897-2003**  
Protective cap; Type2; for sockets and plugs; PVC; red

1.3.2 Installation

1.3.2.1 Mounting accessories



**Item No.: 890-310**  
Mounting carrier; 2- to 5-pole; for flying leads; black



**Item No.: 890-311**  
Mounting carrier; 2- to 5-pole; for flying leads; white

1.3.3 Shield termination

1.3.3.1 Shield termination



**Item No.: 890-526**  
Shield connecting plate; 5-pole; for sockets

1.3.4 Tool

1.3.4.1 Operating tool



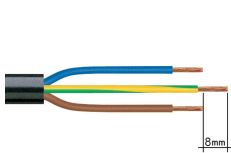
**Item No.: 890-385**  
Operating tool; 5-way; green



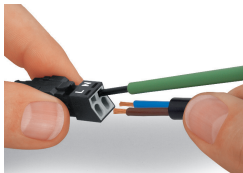
**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

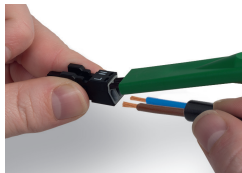
Conductor termination



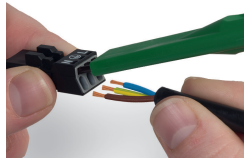
- 1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
- 2. Strip length = 9 mm
- 3. Extended ground conductor = 8 mm



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.

Installation



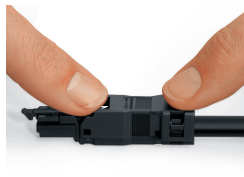
Latch the wired connector into the base of the strain relief housing.



Push down strain relief clamp by hand.



Push down strain relief clamp with 2.5 mm screwdriver alternately on both sides.



Latch the top of the strain relief housing.

Installation



The printed marking of the connector is clearly visible in the openings of the strain relief housing.

Shield termination



Connector with shield termination



Apply the shield to the sheathed cable.  
Strip length, outer insulation = 30 mm  
Shield length = 8 mm



Push the shield connecting plate into the connector until fully inserted.



First insert the wired connector into strain relief housing, then snap clamp and cover.