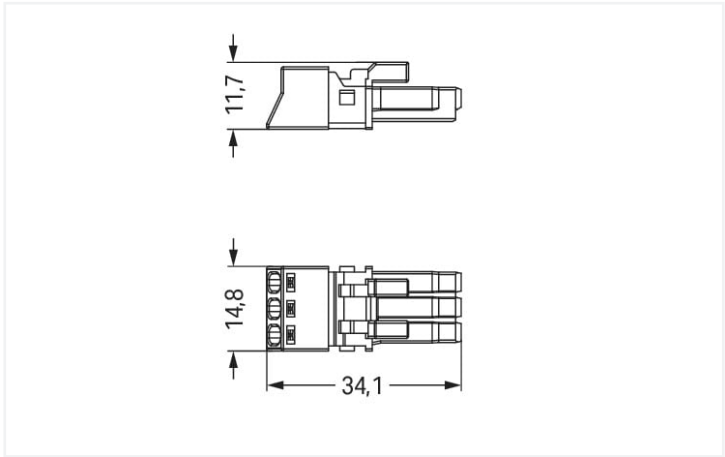


Color: ■ black



Dimensions in mm

Female connector/socket WINSTA® MINI with protection type IP20

The WINSTA® MINI female connector/socket rated current 16 A provides the foundation for installation of fine-stranded and solid conductors. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to various requirements in no time flat. The coding options reduce installation errors, allowing fast, secure wiring of all components. General mains applications for almost any domain of use can be realised with WINSTA® MINI pluggable installation connectors with A coding. WINSTA® MINI is our response to the trend toward miniaturisation. Our smallest pluggable connection system is primarily suited for lights, for instance, 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

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. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with protection type IP20 from WAGO.

- effective protection against mismatching
- easy tool-free operation, a wide range of coding options
- with A coding for use in a large number of general mains applications
- custom-engineered solutions
- convenient installation and commissioning

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



| Connection data | | | |
|----------------------------|---|--|-----------------------------------|
| Clamping units | 3 | Connection 1 | |
| Total number of potentials | 3 | Connection technology | Push-in CAGE CLAMP® |
| | | Actuation type | Operating tool 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 | | 15 mm / 0.591 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 | | 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 | |
| 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 WINSTA® components are 100% protected against mismating when: a.) plugging different numbers of poles b.) plugging while rotated 180 c.) plugging while laterally staggered 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) | | Information on material specifications can be found here |
| 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 | | 0.104 MJ |
| Weight | | 3.8 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 | | 27-44-06-05 |
| eCl@ss 9.0 | | 27-44-06-05 |
| ETIM 8.0 | | EC002560 |
| ETIM 7.0 | | EC002560 |
| PU (SPU) | | 50 pcs |
| Packaging type | | Box |
| Country of origin | | PL |
| GTIN | | 4055143548519 |
| Customs tariff number | | 85366990990 |

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

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



Approvals for marine applications



| Approval | Standard | Certificate Name |
|---|--------------------|------------------|
| ABS American Bureau of Ship- ping | Steel Vessel Rules | 19-HG1869855-PDA |
| DNV GL Det Norske Veritas, Ger- manischer Lloyd | - | TAE00001Z6 |
| LR Lloyds Register | EN 61535 | 08/20047 (E2) |

Downloads

Environmental Product Compliance

| Compliance Search |
|---|
| Environmental Product Compliance 890-203 |



Documentation

| Bid Text |
|-----------------|
| 890-203 |
| 19.02.2019 |
| xml 2.95 KB |
| 890-203 |
| 08.06.2015 |
| doc 23.00 KB |



CAD/CAE-Data

| CAD data |
|----------------------|
| 2D/3D Models 890-203 |



| CAE data |
|------------------------------|
| EPLAN Data Portal 890-203 |
| WSCAD Universe 890-203 |
| ZUKEN Portal 890-203 |



1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



[Item No.: 891-8993/205-101](#)
pre-assembled connecting cable; Eca;
Plug/open-ended; 3-pole; Cod. A; 1 m;
1,00 mm²; black



[Item No.: 891-8993/005-101](#)
pre-assembled interconnecting cable;
Eca; Socket/plug; 3-pole; Cod. A; 1 m; 1,00
mm²; black



1.1.2 Distribution connector



Item No.: 890-634
h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black



Item No.: 890-636
h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; black



Item No.: 890-606
T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black



Item No.: 890-615
T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black

1.1.3 Male connector/plug



Item No.: 890-813/011-000
Plug for PCBs; angled; 3-pole; Cod. A; black



Item No.: 890-813
Plug for PCBs; straight; 3-pole; Cod. A; black



Item No.: 890-213
Plug; 3-pole; Cod. A; 1,50 mm²; black



Item No.: 890-113
Plug; with strain relief housing; 3-pole; 1,50 mm²; black



Item No.: 890-713
Snap-in plug; 3-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.: 890-503
Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; black



Item No.: 890-513
Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; white

1.3 Optional Accessories

1.3.1 Cover

1.3.1.1 Cover



Item No.: 897-2001
Protective cap; Type1; 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.: 890-523
Shield connecting plate; 3-pole; for sockets and plugs; silver-colored

1.3.4 Tool

1.3.4.1 Operating tool



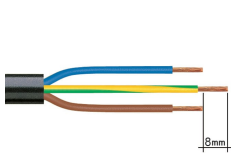
Item No.: 890-383
Operating tool; 3-way; green



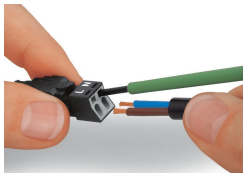
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

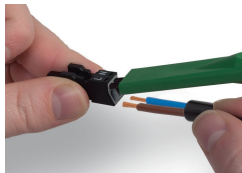
Conductor termination



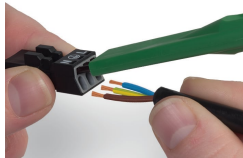
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.

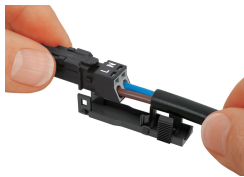


To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.



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



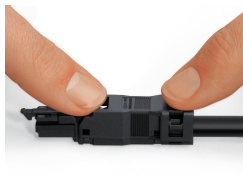
Latch the wired connector into the base of the strain relief housing.



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.