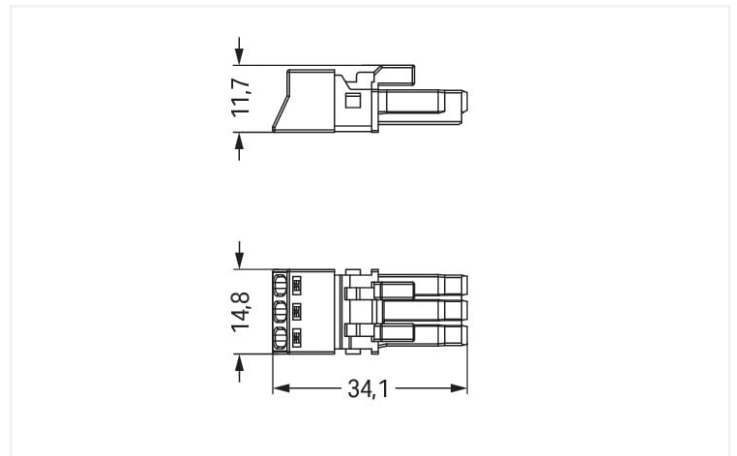
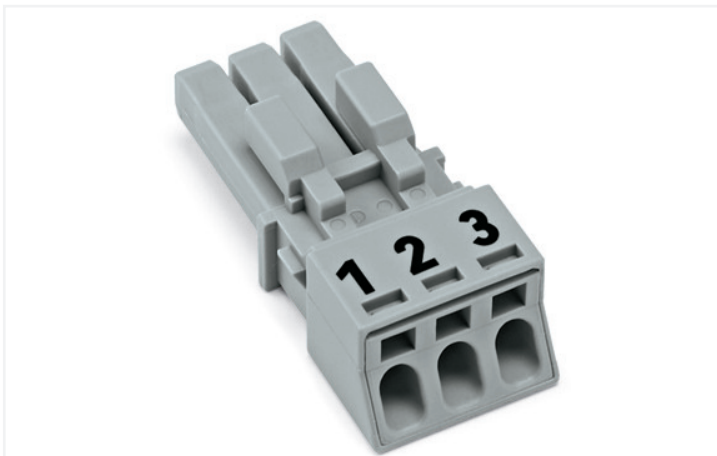


Color: ■ gray



Dimensions in mm

Female connector/socket WINSTA® MINI with protection type IP20

The WINSTA® MINI female connector/socket B coding supports fast, reliable installation. WAGO pluggable installation connectors are useful when requirements repeat or are planned on a specified grid, for example for installing grid lighting or flush-mount lighting. For greater security in electrical installations, the pluggable installation connector is provided with mechanical protection against mismating. B coding enables the WINSTA® MINI pluggable installation connectors to be used for application control in the domains of automation, robotics, and mechanical engineering. WINSTA® MINI follows the trend towards miniaturisation. Our smallest pluggable connection system is especially suitable for lights, for example, since as a result of LED technology; due to complex systems, these offer much less space for the connection technology.

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

The WINSTA® Pluggable Connection System is ideally tailored to the strict requirements of building installation. It makes electrical installation pluggable, and therefore more efficient, more reliable, and error-free. Using this pre-assembled system decreases assembly times 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 with marking from WAGO.

- protection against mismating eliminates errors
- consistent IP40 protection
- for automation controllers
- flexible installation to save space
- rapid, structured electrical installation

| Notes | | |
|-----------|--|---|
| Variants: | | Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/ . Other pole markings |

| Electrical data | | | | |
|----------------------|--|----------------|-----|----|
| Ratings per | | IEC/EN 60664-1 | | |
| Overvoltage category | | III | III | II |
| Pollution degree | | 3 | 2 | 2 |
| Nominal voltage | | 250 V | - | - |
| Rated surge voltage | | 4 kV | - | - |
| Rated current | | 16 A | - | - |

| Ratings per IEC/EN – Notes | |
|----------------------------|----------------------|
| Note (rated current) | 13 A for 3-pole load |

| Approvals per | | UL 1977 |
|---------------|--|---------|
| Rated voltage | | 600 V |
| Rated current | | 14 A |

| General information | |
|----------------------------|---|
| Note on contact resistance | approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/ socket |

| Connection data | | |
|----------------------------|---|--|
| Connection points | 3 | |
| Total number of potentials | 3 | |

| Connection 1 | |
|--|-----------------------------------|
| 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 | |
|---|--|
| Application | Control technology |
| Coding | B |
| Variable coding | No |
| Marking | 1 2 3 |
| Potential marking | 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: 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 | gray |
| 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 | 0.102 MJ |
| Weight | 3.6 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 | 4055143499910 | |
| Customs tariff number | 85366990990 | |

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

Approvals / Certificates

| General approvals | | | Declarations of conformity and manufacturer's declarations | | |
|--|-----------|------------------|--|----------|------------------|
|    | | | | | |
| Approval | Standard | Certificate Name | Approval | Standard | Certificate Name |
| CB DEKRA Certification B.V. | IEC 61984 | NL-64351 | EU-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |
| CB DEKRA Certification B.V. | EN 61984 | 71-112993 | UK-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |
| cURus Underwriters Laboratories Inc. | UL 1977 | E45171 | | | |
| KEMA/KEUR DEKRA Certification B.V. | EN 60320 | 2148952.04 | | | |

Approvals for marine applications

|   | | |
|--|----------|------------------|
| Approval | Standard | Certificate Name |
| 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 890-243

↓

Documentation

Bid Text

| | | | |
|---------|------------|-----------------|---|
| 890-243 | 19.02.2019 | xml 2.97 KB | ↓ |
| 890-243 | 08.06.2015 | doc 23.00 KB | ↓ |

CAD/CAE-Data

CAD data

2D/3D Models 890-243

↓

CAE data

EPLAN Data Portal 890-243

↓

WSCAD Universe 890-243

↓


ZUKEN Portal 890-243

↓


1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly




[Item No.: 891-8993/205-103](#)
pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. B; 1 m; 1,00 mm²; gray




[Item No.: 891-8993/005-103](#)
pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. B; 1 m; 1,00 mm²; gray

1.1.2 Distribution connector



[Item No.: 890-1661](#)
h-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 2 locking levers; gray



[Item No.: 890-1761](#)
h-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; gray



1.1.3 Male connector/plug



[Item No.: 890-853/011-000](#)
Plug for PCBs; angled; 3-pole; Cod. B; gray

[Item No.: 890-853](#)
Plug for PCBs; straight; 3-pole; Cod. B; gray

[Item No.: 890-253](#)
Plug; 3-pole; Cod. B; 1,50 mm²; gray

[Item No.: 890-753](#)
Snap-in plug; 3-pole; Cod. B; 1,50 mm²; gray

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 Tool

1.3.3.1 Operating tool



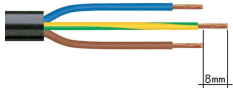
Item No.: 890-383
Operating tool; 3-way; green



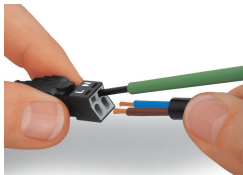
Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

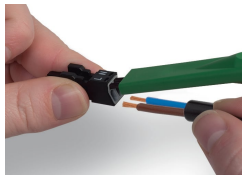
Conductor termination



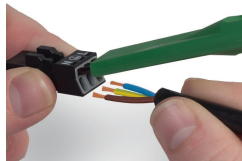
- 1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
- 2. Strip length = 9 mm
- 3. Extended ground conductor = 8 mm



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.

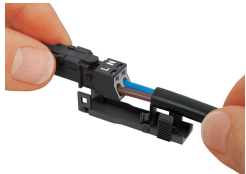


To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop. Terminate solid conductors by simply pushing them in.



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



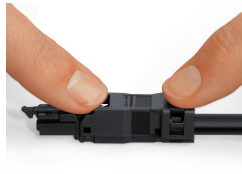
Latch the wired connector into the base of the strain relief housing.



Push down strain relief clamp by hand.



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

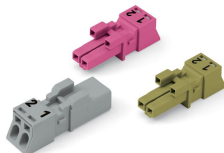


Latch the top of the strain relief housing.



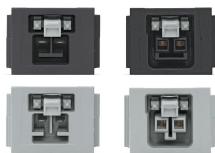
The printed marking of the connector is clearly visible in the openings of the strain relief housing.

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.



