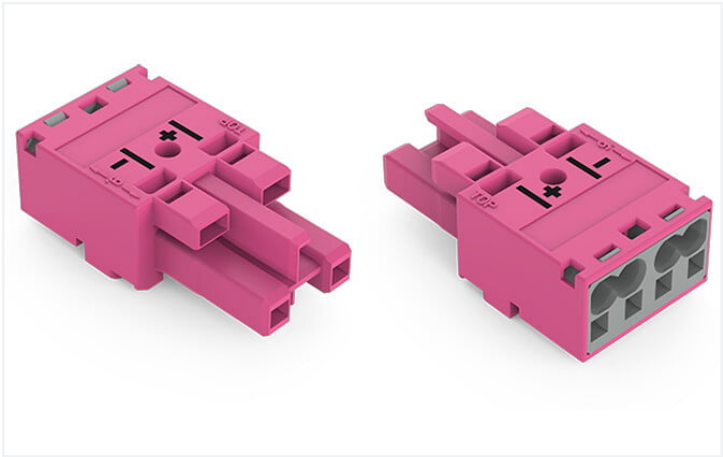
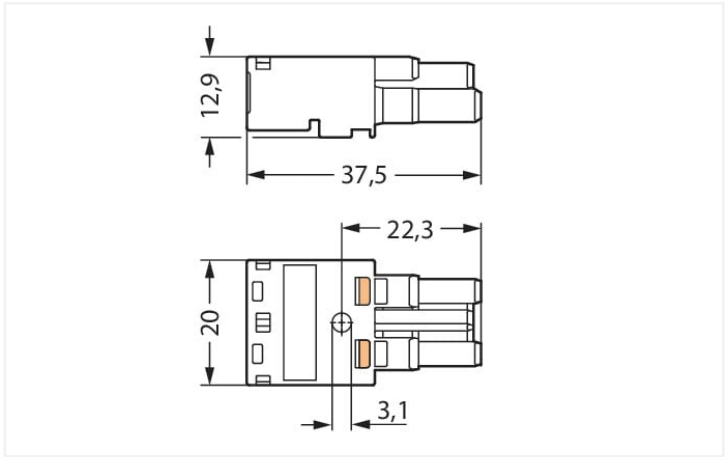




Color: ■ pink



Dimensions in mm

Female connector/socket WINSTA® MIDI with protection type IP20

For power and signal transmission: The WINSTA® MIDI female connector/socket with protection type IP20. WAGO pluggable installation connectors are useful when requirements repeat or are distributed on a specified grid, for example for installing grid lighting or flush-mount lighting. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector offers touch-proof protection with live components in accordance with protection type IP20 (When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). Solutions like the WINSTA® MIDI pluggable installation connectors with B coding are suitable for applications involving process control, for example, for lighting or in data networks. This pluggable installation connector is used for electrical currents up to 25 A. Thus the product is also suitable for high power loads. The WINSTA® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates precise electrification. Thanks to the built-in test slot, connections can be checked even when they are plugged in. That saves time and reduces installation labor and expense.

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

The WINSTA® Pluggable Connection System is ideally tailored to the very strict requirements of building installation. It makes electrical installation plug-gable, and therefore faster, more reliable, and error-free. Using this pre-assembled system reduces assembly times and installation errors at the construction site. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with WINSTA® MIDI pluggable installation connectors with protection type IP20 from WAGO.

- protection against mismatching eliminates errors
- pre-assembled versions
- for automation controllers
- ready for immediate use
- quick replacement of defective units during ongoing operation

| Notes     |                                                                                                                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Variants: | Other pole markings<br>Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> . |

| 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 | 23 A    |  |
| Nominal voltage      | 250 V | -              | -   |               |               |         |  |
| Rated surge voltage  | 4 kV  | -              | -   |               |               |         |  |
| Rated current        | 25 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

|                            |   |                                                            |                                  |
|----------------------------|---|------------------------------------------------------------|----------------------------------|
| Connection points          | 4 | <b>Connection 1</b>                                        |                                  |
| Total number of potentials | 2 | Connection technology                                      | Push-in CAGE CLAMP®              |
|                            |   | Actuation type                                             | Operating tool<br>Push-in        |
|                            |   | Nominal cross-section                                      | 4 mm² / 12 AWG                   |
|                            |   | Solid conductor                                            | 0.5 ... 4 mm² / 20 ... 12 AWG    |
|                            |   | Solid conductor; push-in termination                       | 1.5 ... 4 mm² / 16 ... 12 AWG    |
|                            |   | Stranded conductor                                         | 0.5 ... 2.5 mm² / 20 ... 14 AWG  |
|                            |   | Fine-stranded conductor                                    | 0.5 ... 4 mm² / 20 ... 12 AWG    |
|                            |   | Fine-stranded conductor; with insulated ferrule            | 0.25 ... 1.5 mm² / 20 ... 16 AWG |
|                            |   | Fine-stranded conductor; with uninsulated ferrule          | 0.25 ... 2.5 mm² / 20 ... 14 AWG |
|                            |   | Fine-stranded conductor; with ferrule; push-in termination | 1.5 mm² / 16 AWG                 |
|                            |   | Strip length                                               | 9 mm / 0.35 inches               |
|                            |   | Pole number                                                | 2                                |
|                            |   | Conductor entry direction to mating direction              | 0°                               |

## Physical data

|             |                        |
|-------------|------------------------|
| Pin spacing | 10 mm / 0.394 inches   |
| Width       | 20 mm / 0.787 inches   |
| Height      | 12.9 mm / 0.508 inches |
| Depth       | 37.5 mm / 1.476 inches |

## Mechanical data

|                                         |                                                                                                                                                        |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application                             | Control technology                                                                                                                                     |
| Coding                                  | B                                                                                                                                                      |
| Variable coding                         | No                                                                                                                                                     |
| Marking                                 | I+ I-                                                                                                                                                  |
| Potential marking                       | I+ I-                                                                                                                                                  |
| 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; When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!) |

### 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                      | 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="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       | pink                                                                                                                   |
| 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                   | 0.127 MJ                                                                                                               |
| Weight                      | 6.6 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

|                       |               |
|-----------------------|---------------|
| 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)              | 100 pcs       |
| Packaging type        | Box           |
| Country of origin     | DE            |
| GTIN                  | 4050821553175 |
| Customs tariff number | 85366990990   |



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

Approvals / Certificates

General approvals



| Approval                                | Standard | Certificate Name |
|-----------------------------------------|----------|------------------|
| cURus<br>Underwriters Laboratories Inc. | UL 1977  | E45171           |
| cURus<br>Underwriters Laboratories Inc. | UL 1059  | E 45172          |

Downloads

Environmental Product Compliance

| Compliance Search                                   |  |
|-----------------------------------------------------|--|
| Environmental Product Compliance<br>770-282/080-000 |  |

Documentation

| Bid Text        |            |                 |  |
|-----------------|------------|-----------------|--|
| 770-282/080-000 | 19.02.2019 | xml<br>2.96 KB  |  |
| 770-282/080-000 | 08.06.2015 | doc<br>24.50 KB |  |

CAD/CAE-Data

| CAD data                        |  |
|---------------------------------|--|
| 2D/3D Models<br>770-282/080-000 |  |

| CAE data                             |  |
|--------------------------------------|--|
| EPLAN Data Portal<br>770-282/080-000 |  |
| WSCAD Universe<br>770-282/080-000    |  |
| ZUKEN Portal<br>770-282/080-000      |  |



1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



[Item No.: 770-292/080-000](#)  
Plug; 2-pole; Cod. B; 4,00 mm²; pink

1.2 Required Accessories

1.2.1 Locking system

1.2.1.1 Locking system



[Item No.: 770-101](#)  
Locking lever; for flying leads; for manual operation; black



[Item No.: 770-121](#)  
Locking lever; for flying leads; for manual operation; white



[Item No.: 770-111](#)  
Locking lever; for flying leads; for tool operation; black



[Item No.: 770-131](#)  
Locking lever; for flying leads; for tool operation; white

1.2.2 Strain relief

1.2.2.1 Strain relief housing



[Item No.: 770-502/042-000](#)  
Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 ... 9.0 mm; 35 mm; black



[Item No.: 770-512/042-000](#)  
Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 ... 9.0 mm; 35 mm; white



[Item No.: 770-502/041-000](#)  
Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 ... 10.5 mm; 35 mm; black



[Item No.: 770-512/041-000](#)  
Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 ... 10.5 mm; 35 mm; white

1.3 Optional Accessories

1.3.1 Cover

1.3.1.1 Cover



[Item No.: 770-201](#)  
Lockout cap; 12-pole, separable; for sockets; Plastic; black



[Item No.: 770-221](#)  
Lockout cap; 12-pole, separable; for sockets; Plastic; white



[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.: 897-2100](#)  
Mounting plate; for Snap-in; Plastic; for detectors and sensors ; Ø 200 mm; red



[Item No.: 770-317](#)  
Snap-in frame; 2-pole; 1.0 ... 3.0 mm; black



[Item No.: 770-337](#)  
Snap-in frame; 2-pole; 1.0 ... 3.0 mm; white

1.3.3 Tool

1.3.3.1 Operating tool



Item No.: 770-382  
Operating tool; 2-way; green



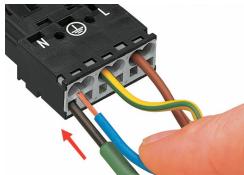
Item No.: 210-719  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

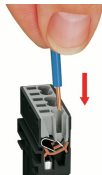
Conductor termination



- 1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 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.

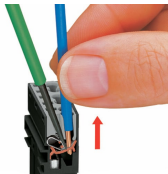


Insert the stripped solid conductor until it hits the backstop.



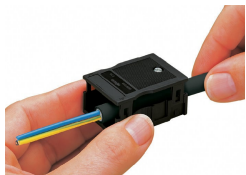
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

Conductor removal

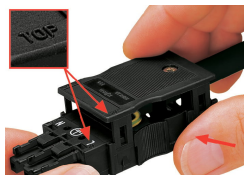


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

Installation



We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



Latch the strain relief housing onto the plug/socket. Note the "TOP" inscription.



Prepare strain relief housing by snapping together upper and bottom part.



Tighten strain relief screw with screwdriver (2.5 mm blade width).

Coding

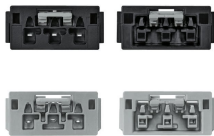
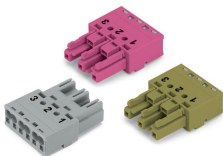


Simply cut off the coding pin from the socket.



Insert coding pin into plug (break first) until it engages.

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.

Easy circuit identification via different marking and colors