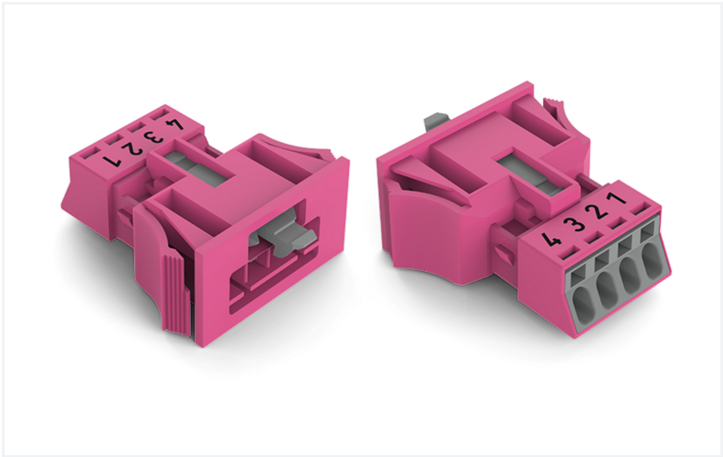
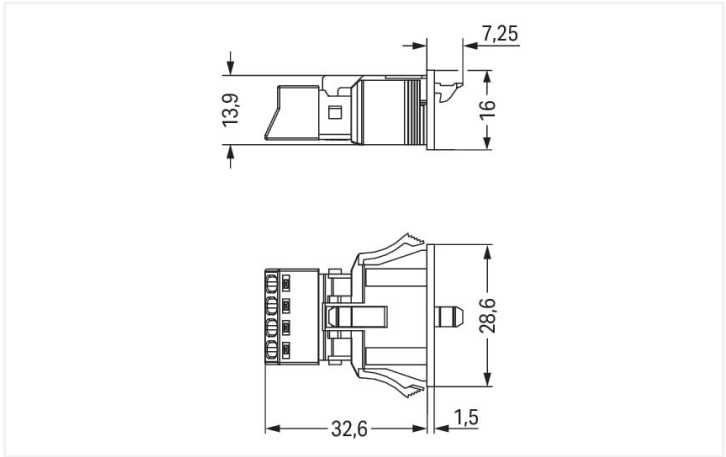




Color: ■ pink



Dimensions in mm

Male connector/plug WINSTA® MINI with protection type IP20

For power and signal transmission: The WINSTA® MINI male connector/plug B coding. WAGO pluggable installation connectors can be used when criteria repeat or are planned 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. Solutions like the WINSTA® MINI pluggable installation connectors with B coding are appropriate for process control, for example, for lighting or in data networks. Due 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 installations 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 allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology tool! Plan your installation with with protection type IP20 from WAGO.

- pluggable installation connectors with protection against mismatching
- easy tool-free operation, a wide range of coding options
- with B coding for controllers such as lighting fixtures and sun blinds
- exact dimensions
- fast, secure installation

| Notes     |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note      | The snap-in connectors must be relieved of tensile and transverse forces.<br>A surface finish can influence the edge radius of the cutouts. This may affect the snap-in socket fit, so ensure an adequate fit before use. In addition, the punched edge should be on the inside for punched cutouts.<br>The wings of the snap-in connectors must not be mechanically stressed for a long period before use (e.g., due to a pre-locking position). |
| 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                               |     |    |
| Overvoltage category       |  | III                                          | III | II |
| Pollution degree           |  | 3                                            | 2   | 2  |
| Nominal voltage            |  | 400 V                                        | -   | -  |
| Rated surge voltage        |  | 6 kV                                         | -   | -  |
| Rated current              |  | 16 A                                         | -   | -  |
| Ratings per IEC/EN – Notes |  |                                              |     |    |
| Rated current (note)       |  | 13 A for 3-pole load<br>10 A for 4-pole load |     |    |



| 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/ socket |

Connection data

|                            |   |
|----------------------------|---|
| Clamping units             | 4 |
| Total number of potentials | 4 |

| 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                                                | 4                                 |
| Conductor entry direction to mating direction              | 0°                                |

Physical data

|             |                         |
|-------------|-------------------------|
| Pin spacing | 4.4 mm / 0.173 inches   |
| Width       | 28.6 mm / 1.126 inches  |
| Height      | 16 mm / 0.63 inches     |
| Depth       | 39.85 mm / 1.569 inches |

Mechanical data

|                                         |                                                          |
|-----------------------------------------|----------------------------------------------------------|
| Use                                     | Control technology                                       |
| Coding                                  | B                                                        |
| Variable coding                         | No                                                       |
| Marking                                 | 4 3 2 1                                                  |
| Potential marking                       | 4 3 2 1                                                  |
| 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                                    |

## Plug-in connection

|                                    |                                                                                                                                                                                                                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact type (pluggable connector) | Male connector/plug                                                                                                                                                                                                                                                                                              |
| 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                      | 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)               | <a href="#">Information on material specifications can be found here</a> |
| Color                              | pink                                                                     |
| 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                          | 0.185 MJ                                                                 |
| Weight                             | 6.9 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 9.0              | EC002566      |
| ETIM 8.0              | EC002566      |
| PU (SPU)              | 50 (50) pcs   |
| Packaging type        | Box           |
| Country of origin     | PL            |
| GTIN                  | 4055143428231 |
| 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                                                                                                                                                                                                                                                                          |          |          |                  |                                                         |   |   |                                                         |   |   |
| CB<br>DEKRA Certification B.V.                                                                                                                                                                                                                       | IEC 61984 | NL-64351                                                                                                                                                                                                                                                                                  |          |          |                  |                                                         |   |   |                                                         |   |   |
| CB<br>DEKRA Certification B.V.                                                                                                                                                                                                                       | EN 61984  | 71-112993                                                                                                                                                                                                                                                                                 |          |          |                  |                                                         |   |   |                                                         |   |   |
| cURus<br>Underwriters Laboratories Inc.                                                                                                                                                                                                              | UL 1977   | E45171                                                                                                                                                                                                                                                                                    |          |          |                  |                                                         |   |   |                                                         |   |   |
| KEMA/KEUR<br>DEKRA Certification B.V.                                                                                                                                                                                                                | EN 60320  | 2148952.04                                                                                                                                                                                                                                                                                |          |          |                  |                                                         |   |   |                                                         |   |   |
|                                                                                                                                                                                                                                                      |           | <table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>EU-Declaration of Confor-<br/>mity<br/>WAGO GmbH &amp; Co. KG</td><td>-</td><td>-</td></tr><tr><td>UK-Declaration of Confor-<br/>mity<br/>WAGO GmbH &amp; Co. KG</td><td>-</td><td>-</td></tr></table> | Approval | Standard | Certificate Name | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | - | - | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | - | - |
| Approval                                                                                                                                                                                                                                             | Standard  | Certificate Name                                                                                                                                                                                                                                                                          |          |          |                  |                                                         |   |   |                                                         |   |   |
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG                                                                                                                                                                                              | -         | -                                                                                                                                                                                                                                                                                         |          |          |                  |                                                         |   |   |                                                         |   |   |
| UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG                                                                                                                                                                                              | -         | -                                                                                                                                                                                                                                                                                         |          |          |                  |                                                         |   |   |                                                         |   |   |

Approvals for marine applications

|   |          |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|
| Approval                                                                                                                                                           | Standard | Certificate Name |
| 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 890-794 |  |

Documentation

| Bid Text |            |                 |                                                                                     |
|----------|------------|-----------------|-------------------------------------------------------------------------------------|
| 890-794  | 19.02.2019 | xml<br>2.90 KB  |  |
| 890-794  | 08.06.2015 | doc<br>23.50 KB |  |



| CAD/CAE-Data                                                                                           |                                                                                                               |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| CAD data                                                                                               | CAE data                                                                                                      |
| 2D/3D Models 890-794  | EPLAN Data Portal 890-794  |
|                                                                                                        | WSCAD Universe 890-794     |
|                                                                                                        | ZUKEN Portal 890-794       |

| 1 Compatible Products  |
|------------------------|
| 1.1 System counterpart |
| 1.1.1 Cable assembly   |



[Item No.: 891-8994/105-107](#)  
pre-assembled connecting cable; Eca; Socket/open-ended; 4-pole; Cod. B; Control cable 4 x 1.0 mm²; 1 m; 1,00 mm²; pink



[Item No.: 891-8994/005-107](#)  
pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. B; Control cable 4 x 1.0 mm²; 1 m; 1,00 mm²; pink

| 1.1.2 Female connector/socket |
|-------------------------------|
|-------------------------------|



[Item No.: 890-284](#)  
Socket; 4-pole; Cod. B; 1,50 mm²; pink

| 1.2 Optional Accessories |
|--------------------------|
| 1.2.1 Cover              |
| 1.2.1.1 Cover            |



[Item No.: 890-644](#)  
Lockout cap; 4-pole; for cutouts; Plastic; black



[Item No.: 890-694](#)  
Lockout cap; 4-pole; for cutouts; Plastic; white

| 1.2.2 Tool             |
|------------------------|
| 1.2.2.1 Operating tool |



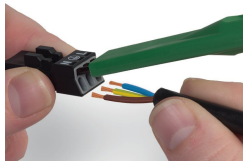
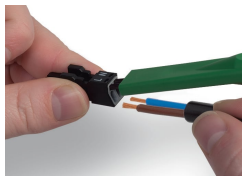
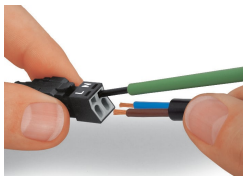
[Item No.: 890-384](#)  
Operating tool; 4-way; green



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

Installation Notes

Conductor termination



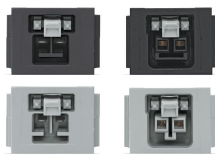
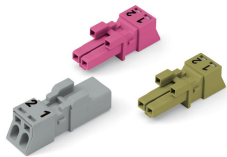
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm

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.

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.