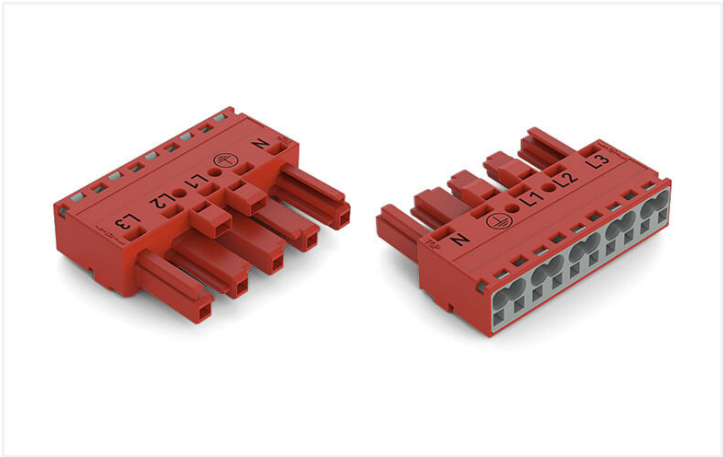
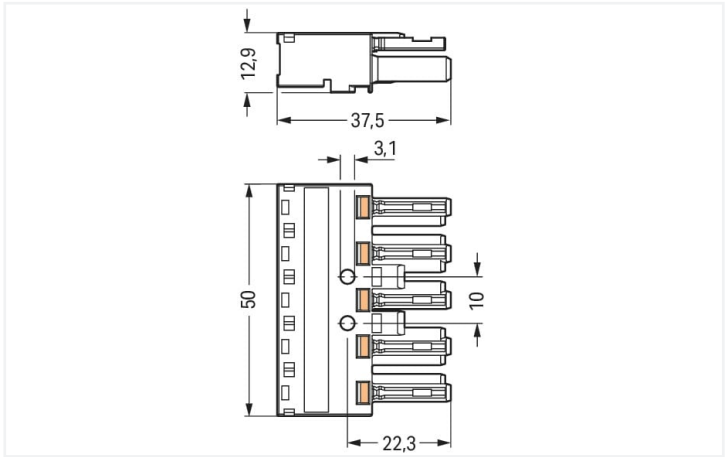




Color: ■ red



Dimensions in mm

Female connector/socket WINSTA® MIDI 5-pole

For signal and power transmission: The WINSTA® MIDI female connector/socket with protection against mismating. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to a huge variety of requirements in next to no time. For greater protection in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismating. The pluggable installation connector is protected 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!)). This means that users' fingers will never come into contact with live contact elements. WINSTA® MIDI pluggable installation connectors with P coding allow proper realization of an fault-free power supply (UPS). The rated current and voltage are important criteria for selecting a pluggable installation connector: They tell us about the product's domains of use. This product has a current rating of 25 A – so it is suitable for powerful loads. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in can be found in a variety of projects you can use for quick, easy, secure, tailored electrical installation.

Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

The WINSTA® Pluggable Connection System is ideally 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 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 with protection type IP20 from WAGO.

- pluggable installation connectors with protection against mismating
- for automation controllers
- with P coding for fault-free power supply
- flexible installation to save space
- convenient installation and commissioning

| 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              | 25 A                                                                                     | -              | -  |  |
| Approvals per              |                                                                                          |                |    |  |
| Rated voltage              |                                                                                          | 600 V          |    |  |
| Rated current              |                                                                                          | 23 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          | 10 | <b>Connection 1</b>                                        |                                  |
| Total number of potentials | 5  | 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                                                | 5                                |
|                            |    | Conductor entry direction to mating direction              | 0°                               |

## Physical data

|             |                        |
|-------------|------------------------|
| Pin spacing | 10 mm / 0.394 inches   |
| Width       | 50 mm / 1.969 inches   |
| Height      | 12.9 mm / 0.508 inches |
| Depth       | 37.5 mm / 1.476 inches |

## Mechanical data

|                                         |                                                                                                                                                        |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application                             | EDV (UPS)                                                                                                                                              |
| Coding                                  | P                                                                                                                                                      |
| Variable coding                         | No                                                                                                                                                     |
| Marking                                 | N L1 L2 L3                                                                                                                                             |
| Potential marking                       | N L1 L2 L3                                                                                                                                             |
| 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                       | red                                                                                                                    |
| 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                   | 0.301 MJ                                                                                                               |
| Weight                      | 15.8 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     | DE            |
| GTIN                  | 4045454435103 |
| Customs tariff number | 85366990990   |

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

| Approvals / Certificates                                                                                                                                                                                                                                   |           |                  | Declarations of conformity and manufacturer's declarations |          |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|------------------------------------------------------------|----------|------------------|
| General approvals                                                                                                                                                                                                                                          |           |                  |                                                            |          |                  |
|    |           |                  |                                                            |          |                  |
| Approval                                                                                                                                                                                                                                                   | Standard  | Certificate Name | Approval                                                   | Standard | Certificate Name |
| CCA<br>DEKRA Certification B.V.                                                                                                                                                                                                                            | EN 61535  | 71-123228        | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| CCA<br>DEKRA Certification B.V.                                                                                                                                                                                                                            | IEC 61535 | NL -84761        |                                                            |          |                  |
| cURus<br>Underwriters Laboratories<br>Inc.                                                                                                                                                                                                                 | UL 1977   | E45171           |                                                            |          |                  |
| cURus<br>Underwriters Laboratories<br>Inc.                                                                                                                                                                                                                 | UL 1059   | E 45172          |                                                            |          |                  |



Approvals for marine applications



| Approval                                              | Standard  | Certificate Name |
|-------------------------------------------------------|-----------|------------------|
| ABS<br>American Bureau of Ship-<br>ping               | -         | 19-HG1868589-PDA |
| DNV GL<br>Det Norske Veritas, Ger-<br>manischer Lloyd | -         | TAE00001Z6       |
| LR<br>Lloyds Register                                 | IEC 61984 | LR22429487TA     |

Downloads

Environmental Product Compliance

| Compliance Search                            |
|----------------------------------------------|
| Environmental Product<br>Compliance 770-1305 |



Documentation

| Bid Text |            |                 |                                                                                                     |
|----------|------------|-----------------|-----------------------------------------------------------------------------------------------------|
| 770-1305 | 19.02.2019 | xml<br>2.93 KB  | <a href="#"></a> |
| 770-1305 | 08.06.2015 | doc<br>23.00 KB | <a href="#"></a> |



CAD/CAE-Data

| CAD data                 |
|--------------------------|
| 2D/3D Models<br>770-1305 |



| CAE data                      |
|-------------------------------|
| EPLAN Data Portal<br>770-1305 |
| WSCAD Universe<br>770-1305    |
| ZUKEN Portal<br>770-1305      |



1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



[Item No.: 771-9975/206-101](#)  
pre-assembled connecting cable; Eca;  
Plug/open-ended; 5-pole; Cod. P; H05VV-  
F 5G 1.5 mm²; 1 m; 1,50 mm²; red

[Item No.: 771-9975/006-101](#)  
pre-assembled interconnecting cable;  
Eca; Socket/plug; 5-pole; Cod. P; H05VV-F  
5G 1.5 mm²; 1 m; 1,50 mm²; red



1.1.2 Distribution box



**Item No.: 899-631/186-000**  
Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 7 outputs; Cod. P; MIDI; black

**Item No.: 899-631/302-000**  
Distribution box; Three-phase to single-phase current (400 V/230 V); 2 inputs; 6 outputs; Cod. A, P; MIDI; black

1.1.3 Distribution connector



**Item No.: 770-909**  
3-way distribution connector; 5-pole; Cod. P; 1 input; 3 outputs; red

**Item No.: 770-921**  
T-distribution connector; 5-pole; Cod. P; 1 input; 2 outputs; outputs on both sides; 2 locking levers; red

**Item No.: 770-922**  
T-distribution connector; 5-pole; Cod. P; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; red

**Item No.: 770-940**  
Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. P; 1 input; 5 outputs; red

1.1.4 Male connector/plug



**Item No.: 770-1315**  
Plug; 5-pole; Cod. P; 4,00 mm²; red

**Item No.: 770-2315**  
Snap-in plug; 5-pole; Cod. P; 4,00 mm²; red

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.: 770-505/021-000**  
Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; black

**Item No.: 770-515/021-000**  
Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; white

**Item No.: 770-505/023-000**  
Strain relief housing; 5-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; black

**Item No.: 770-515/023-000**  
Strain relief housing; 5-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; white

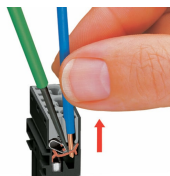


**Item No.: 770-505**  
Strain relief housing; 5-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; black

**Item No.: 770-515**  
Strain relief housing; 5-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; white

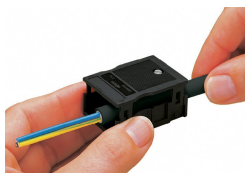
|                                                                                                                                                    |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.3 Optional Accessories                                                                                                                           |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
| 1.3.1 Cover                                                                                                                                        |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
| 1.3.1.1 Cover                                                                                                                                      |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
|                                                                                                                                                    |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
| <p><b>Item No.: 770-201</b><br/>Lockout cap; 12-pole, separable; for sockets; Plastic; black</p>                                                   | <p><b>Item No.: 770-221</b><br/>Lockout cap; 12-pole, separable; for sockets; Plastic; white</p>                                                                      | <p><b>Item No.: 897-2005</b><br/>Protective cap; Type4; for sockets and plugs; PVC; red</p> |                                                                                                                                                                       |
| 1.3.2 Installation                                                                                                                                 |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
| 1.3.2.1 Mounting accessories                                                                                                                       |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
|                                                                                                                                                    |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
| <p><b>Item No.: 770-321</b><br/>Snap-in frame; 5-pole; 0.5 ... 2.0 mm; black</p>                                                                   | <p><b>Item No.: 770-341</b><br/>Snap-in frame; 5-pole; 0.5 ... 2.0 mm; white</p>                                                                                      | <p><b>Item No.: 770-320</b><br/>Snap-in frame; 5-pole; 1.0 ... 3.0 mm; black</p>            | <p><b>Item No.: 770-340</b><br/>Snap-in frame; 5-pole; 1.0 ... 3.0 mm; white</p>                                                                                      |
| 1.3.3 Marking                                                                                                                                      |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
| 1.3.3.1 Marker                                                                                                                                     |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
|                                                                                                                                                    |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
| <p><b>Item No.: 770-450/000-006</b><br/>Marker card; Plastic; blue</p>                                                                             | <p><b>Item No.: 770-450/000-001</b><br/>Marker card; Plastic; green</p>                                                                                               | <p><b>Item No.: 770-450/000-012</b><br/>Marker card; Plastic; orange</p>                    | <p><b>Item No.: 770-450/000-005</b><br/>Marker card; Plastic; red</p>                                                                                                 |
|                                                                                                                                                    |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
| <p><b>Item No.: 770-450</b><br/>Marker card; Plastic; white</p>                                                                                    | <p><b>Item No.: 770-450/000-002</b><br/>Marker card; Plastic; yellow</p>                                                                                              |                                                                                             |                                                                                                                                                                       |
| 1.3.4 Tool                                                                                                                                         |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
| 1.3.4.1 Operating tool                                                                                                                             |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
|                                                                                                                                                    |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
| <p><b>Item No.: 210-719</b><br/>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft</p>                                          |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
| Installation Notes                                                                                                                                 |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
| Conductor termination                                                                                                                              |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
|                                                                                                                                                    |                                                                                                                                                                       |                                                                                             |                                                                                                                                                                       |
| <p>1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)<br/>2. Strip length = 9 mm<br/>3. Extended ground conductor = 8 mm</p> | <p>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.</p> | <p>Insert the stripped solid conductor until it hits the backstop.</p>                      | <p>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.</p> |

## Conductor removal

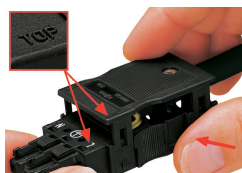


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

## 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).