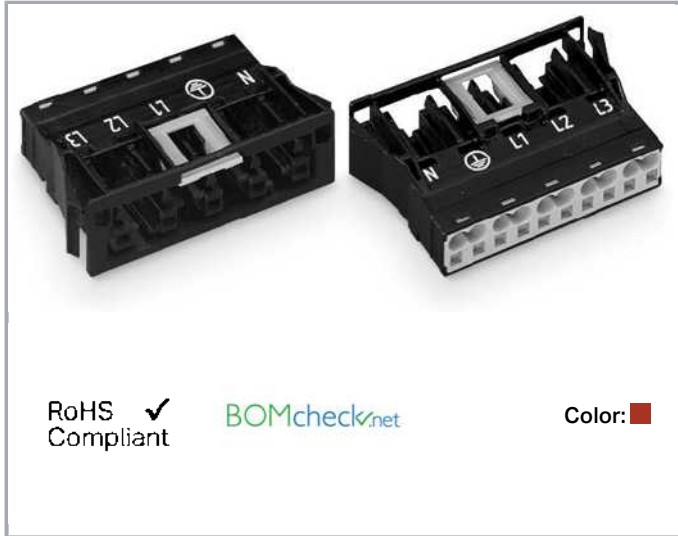


## Data sheet | Item number: 770-2305

Snap-in socket; 5-pole; Cod. P; 4,00 mm<sup>2</sup>; red

[www.wago.com/770-2305](http://www.wago.com/770-2305)



RoHS   
Compliant

BOMcheck.net

Color:

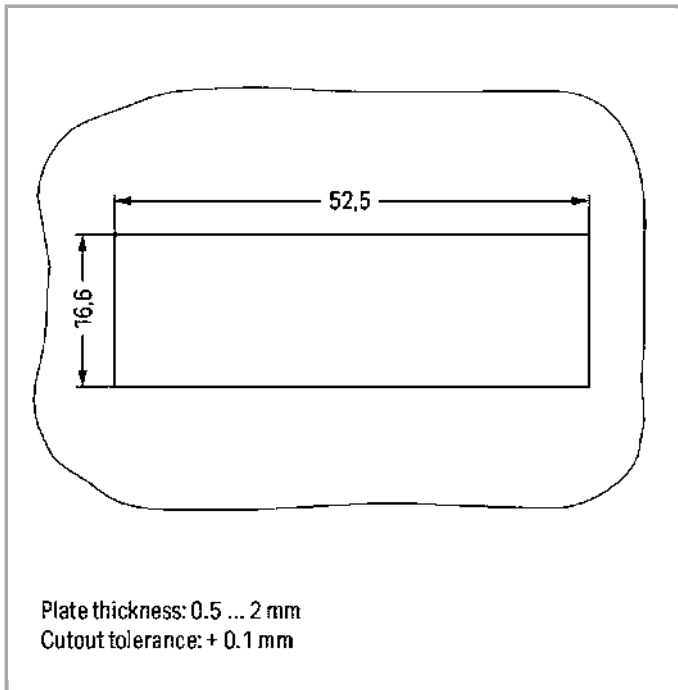
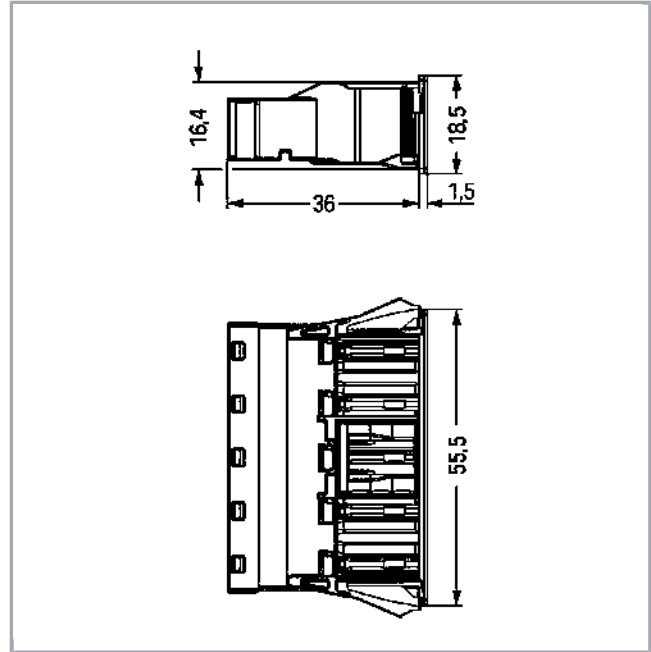


Plate thickness: 0.5 ... 2 mm  
Cutout tolerance: + 0.1 mm

Subject to changes. Please also observe the further product documentation!

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## Item description

- Protected against mismatching and maintenance-free
- Push-in CAGE CLAMP® spring pressure connection technology allows solid conductors to be simply pushed into a unit
- Two-wire connection per pole for loops or bridges
- Additional variable coding is possible

### Note:

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).

### Note on mismatching protection:

All WINSTA® components are 100% protected against mismatching when:

- a.) plugging different numbers of poles
- b.) plugging while rotated 180
- c.) plugging while laterally staggered
- d.) plugging one pole

### Safety information 1:

Application note for the U.S. market (USR): Some versions may also be used for current interruption in accordance with the UL certificate in select applications with currents below 16 A and voltages up to 600 V. For further information, please contact your local sales office.

## Data

### Electrical data

Note on Contact Resistance

approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket

### Ratings per IEC/EN 60664-1

| Ratings per                     | IEC/EN 60664-1  |
|---------------------------------|---|
| Rated voltage (III / 3)         | 400 V   |
| Rated impulse voltage (III / 3) | 6 kV  |
| Rated current                   | 25 A  |
| Legend (ratings)                | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

### Approvals per UL 1977

|   |       |
|---|-------|
| Rated voltage per UL 1977 (factory wiring only) | 600 V |
| Rated current per UL 1977 (factory wiring only) | 23 A  |

### Connection data

Connection technology

Subject to changes. Please also observe the further product documentation!

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|   |                                    |
|---|------------------------------------|
|   | Push-in CAGE CLAMP®                |
| Actuation type  | Operating tool<br>Push-in          |
| Nominal cross section   | 4 mm²                              |
| 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 ferrule with plastic collar        | 0,25 ... 1,5 mm² / 20 ... 16 AWG   |
| Fine-stranded conductor with ferrule without plastic collar     | 0,25 ... 2,5 mm² / 20 ... 14 AWG   |
| Fine-stranded conductor with ferrule, push-in termination, from | 1,5 mm² / 16 AWG                   |
| Strip length  | 9 mm / 0.35 inch                   |
| Note (strip length)   | see also packaging or instructions |
| No. of poles  | 5                                  |
| Total number of connection points                               | 10                                 |
| Total number of potentials                                      | 5                                  |
| Conductor entry direction to mating direction                   | 0°                                 |

## Geometrical Data

|             |                      |
|-------------|----------------------|
| Pin spacing | 10 mm / 0.394 inch   |
| Width       | 55,5 mm / 2.185 inch |
| Height      | 18,5 mm / 0.728 inch |
| Depth       | 36 mm / 1.417 inch   |

## Mechanical data

|   |   |
|---|---|
| Coding                                  | P   |
| 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<br><br>100, with resistive load $I_N = 25$ A, tested (4 mm²/AWG 12) |
| Gehäuseblechstärke                      | 0,5 ... 2 mm / 0.02 ... 0.079 inch  |
| Mounting type                           | Snap-in   |
| Marking                                 | N L1 L2 L3  |

Subject to changes. Please also observe the further product documentation!

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|                          |   |
|--------------------------|---|
| Protection class         | IP20  |
| Note on protection class | Only when mated (these compact connectors are not designed for use in open, easily accessible areas). |
| Potential marking        | N L1 L2 L3  |
| Application              | Computer applications (UPS)   |

## Plug connection

|                                    |                         |
|------------------------------------|-------------------------|
| Contact type (pluggable connector) | Female connector/socket |
| Connector connection type          | for conductor           |
| Mismating protection               | Yes                     |
| Locking of plug-in connection      | locking lever           |
| Locking lever                      | yes                     |

## Material Data

|                          |  |
|--------------------------|--|
| Color                    | red                                      |
| Insulating material      | Polyamide 66 (PA 66)                     |
| Clamping spring material | Chrome nickel spring steel (CrNi)        |
| Contact material         | Copper or copper alloy (surface-treated) |
| Fire load                | 0.342 MJ                                 |
| Weight                   | 18.5 g                                   |

## Environmental Requirements

|  |  |
|--|--|
| Processing temperature                 | -5 ... +40 °C                              |
| Continuous operating temperature       | -35 ... +85 °C                             |
| Note on Continuous Service Temperature | Insulating parts for temperatures ≤ 105 °C |

## Commercial data

|                    |               |
|--------------------|---------------|
| Product Group      | 20 (WINSTA)   |
| Packaging type     | BOX           |
| Country of origin  | DE            |
| GTIN               | 4055143594813 |
| Customs Tariff No. | 85366990990   |

## Approvals / Certificates

### Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
|------|----------|--------------------------|------------------|

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CCA  
DEKRA Certification B.V.


EN 61535

2173495.02

## Ship Approvals

| Logo  | Approval  | Additional Approval Text | Certificate name         |
|---|---|--------------------------|--------------------------|
|   | <b>ABS</b><br>American Bureau of Shipping               | -                        | 19-<br>HG1868589-<br>PDA |
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001Z6               |
|  | <b>LR</b><br>Lloyds Register                            | IEC 61984                | 02/20050<br>(E6)         |

## UL-Approvals

| Logo   | Approval                                       | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | <b>cURus</b><br>Underwriters Laboratories Inc. | UL 1977                  | E45171<br>Sec. 9 |

## Counterpart



Item no.770-1315  
Plug; 5-pole; Cod. P; 4,00 mm<sup>2</sup>; red

[www.wago.com/770-1315](http://www.wago.com/770-1315)

Item no.771-9975/006-101  
pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. P; H05VV-F 5G 1.5 mm<sup>2</sup>; 1 m;  
1,50 mm<sup>2</sup>; red

[www.wago.com/771-9975/006-101](http://www.wago.com/771-9975/006-101)

Item no.771-9975/206-101  
pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. P; H05VV-F 5G 1.5 mm<sup>2</sup>; 1 m;  
1,50 mm<sup>2</sup>; red

[www.wago.com/771-9975/206-101](http://www.wago.com/771-9975/206-101)

Subject to changes. Please also observe the further product documentation!

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## Compatible products

### protection



Item no.: 770-201  
Lockout cap; 12-pole, separable; 12-pole; for sockets; black

[www.wago.com/770-201](http://www.wago.com/770-201)



Item no.: 770-221  
Lockout cap; for socket; 12-pole; separable; white

[www.wago.com/770-221](http://www.wago.com/770-221)



Item no.: 770-645  
Lockout cap; 5-pole; for cutouts; Plastic; black

[www.wago.com/770-645](http://www.wago.com/770-645)



Item no.: 770-695  
Lockout cap; 5-pole; for cutouts; Plastic; white

[www.wago.com/770-695](http://www.wago.com/770-695)

### tools



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

[www.wago.com/210-719](http://www.wago.com/210-719)

## Downloads

### Documentation

#### Bid Text

|                              |              |                |          |
|------------------------------|--------------|----------------|----------|
| 770-2305<br>GAEB X81 - Datei | Feb 19, 2019 | xml<br>3.0 kB  | Download |
| 770-2305<br>doc - Datei      | Jun 8, 2015  | doc<br>23.6 kB | Download |

## CAD/CAE-Data

### CAE data

|                            |     |          |
|----------------------------|-----|----------|
| EPLAN Data Portal 770-2305 | URL | Download |
| WSCAD Universe 770-2305    | URL | Download |

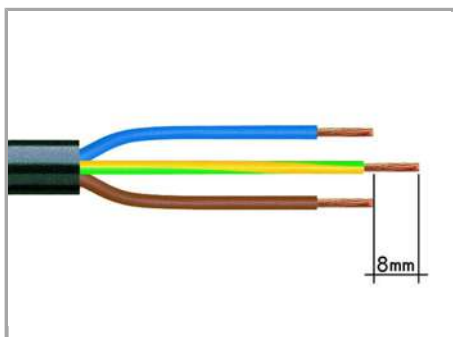
## Installation Notes

### Conductor termination

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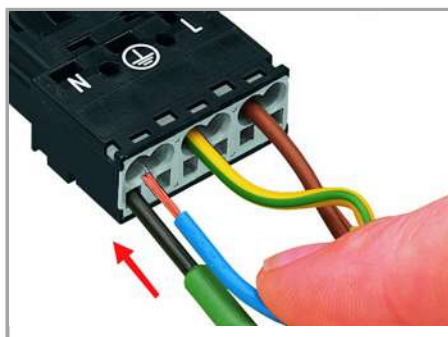
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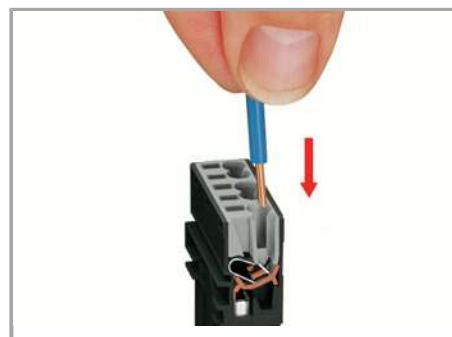
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

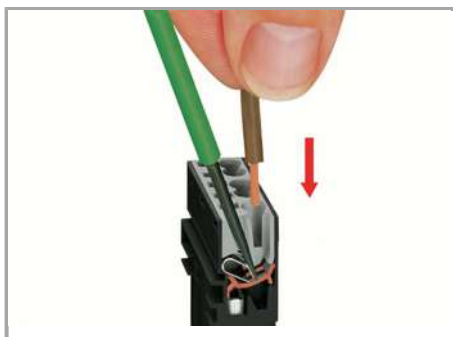
3. Extended ground conductor = 8 mm



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



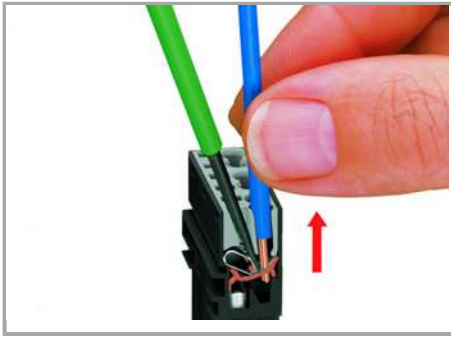
Insert stripped solid conductor until it hits backstop.



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

#### Conductor removal

Subject to changes. Please also observe the further product documentation!



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



Seal unused cutout with lockout cap.

## Product family

**<i>WINSTA</i>® MIDI**

[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!