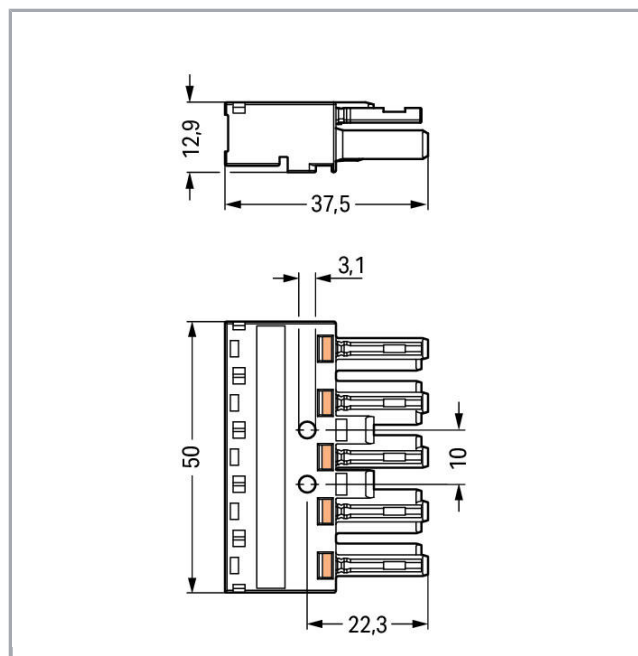
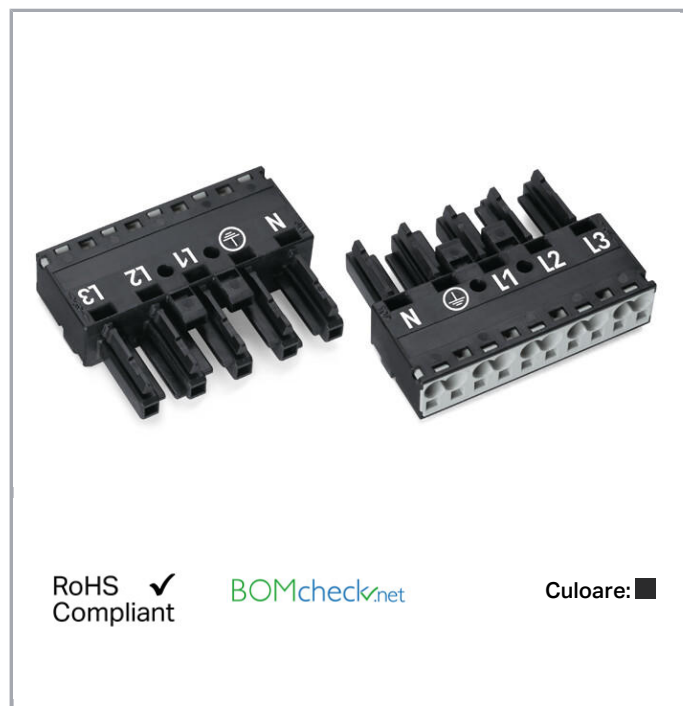




## Descriere articol

- 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:

Supus modificărilor.



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.

## Date

### 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                                            |
|-----------------------------|-----------------------------------------------------------|
| Nominal voltage (III/3)     | 400 V                                                     |
| Rated surge 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 UL 1977 | 600 V |
| Rated current UL 1977 | 23 A  |

### Connection data

|                                                            |                                    |
|------------------------------------------------------------|------------------------------------|
| Connection technology                                      | 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 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 inch                   |
| Note (strip length)                                        | see also packaging or instructions |
| Pole No.                                                   | 5                                  |
| Total number of connection points                          | 10                                 |
| Total number of potentials                                 | 5                                  |
| Conductor entry direction to mating direction              | 0°                                 |

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Vă stăm la dispoziție pentru preluarea apelului la +40 (0) 31 421 85 68.

## Geometrical Data

|             |                      |
|-------------|----------------------|
| Pin spacing | 10 mm / 0.394 inch   |
| Width       | 50 mm / 1.969 inch   |
| Height      | 12,9 mm / 0.508 inch |
| Depth       | 37,5 mm / 1.476 inch |

## Mechanical data

|                                         |                                                                                                                                            |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Coding                                  | A                                                                                                                                          |
| 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                                                                                                                |
|                                         | 100, with resistive load $I_N = 25$ A, tested (4 mm <sup>2</sup> /AWG 12)                                                                  |
| Marking                                 | N L1 L2 L3                                                                                                                                 |
| Protection type                         | IP20                                                                                                                                       |
| Note on protection type                 | In mated condition with strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas.) |
| Potential marking                       | N L1 L2 L3                                                                                                                                 |
| Application                             | General mains applications                                                                                                                 |

## 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                      | retrofittable           |

## Material Data

|                          |                                          |
|--------------------------|------------------------------------------|
| Color                    | black                                    |
| Insulation material      | Polyamide 66 (PA 66)                     |
| Clamping spring material | Chrome nickel spring steel (CrNi)        |
| Contact material         | Copper or copper alloy (surface-treated) |

Supus modificărilor.

|           |         |
|-----------|---------|
| Fire load | 0,26 MJ |
| Weight    | 15,7 g  |

### Environmental Requirements

|                                          |                                                 |
|------------------------------------------|-------------------------------------------------|
| Processing temperature                   | -5 ... +40 °C                                   |
| Continuous operating temperature         | -35 ... +85 °C                                  |
| Note on continuous operating temperature | Insulating parts for temperatures $\leq 105$ °C |

### Commercial data

|                       |               |
|-----------------------|---------------|
| Product Group         | 20 (WINSTA)   |
| Packaging type        | BOX           |
| Country of origin     | DE            |
| GTIN                  | 4044918252324 |
| Customs tariff number | 85366990990   |

### Aprobări / certificate

#### Country specific Approvals

| Emblemă                                                                            | Aprobare                                            | Text de aprobare suplimentar | Nume certificat |
|------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------|-----------------|
|  | <b>CCA</b><br>DEKRA Certification B.V.              | EN 61535                     | 2173495.02      |
|  | <b>VDE</b><br>VDE Prüf- und Zertifizierungsinstitut | EN 61984                     | 40002889        |

#### Ship Approvals

| Emblemă                                                                            | Aprobare                                                | Text de aprobare suplimentar | Nume certificat          |
|------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------|--------------------------|
|  | <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>                                               | IEC 61984                    | 02/20050                 |

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Lloyds Register

(E6)

## UL-Approvals

| Emblemă                                                                          | Aprobare                                       | Text de aprobare suplimentar | Nume certificat  |
|----------------------------------------------------------------------------------|------------------------------------------------|------------------------------|------------------|
|  | <b>cURus</b><br>Underwriters Laboratories Inc. | UL 1977                      | E45171<br>Sec. 9 |

## Counterpart

|                                                                                    |                                                                                                                                                         |                                                                |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|    | <b>Nr. articol770-115</b><br>Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; black                                             | <a href="http://www.wago.com/770-115">www.wago.com/770-115</a> |
|    | <b>Nr. articol770-215</b><br>Plug; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; black                                                                         | <a href="http://www.wago.com/770-215">www.wago.com/770-215</a> |
|   | <b>Nr. articol770-315</b><br>Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; black                                             | <a href="http://www.wago.com/770-315">www.wago.com/770-315</a> |
|  | <b>Nr. articol770-621</b><br>T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black                                      | <a href="http://www.wago.com/770-621">www.wago.com/770-621</a> |
|  | <b>Nr. articol770-609</b><br>3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; black                                                    | <a href="http://www.wago.com/770-609">www.wago.com/770-609</a> |
|  | <b>Nr. articol770-415</b><br>Plug; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; black                                                                         | <a href="http://www.wago.com/770-415">www.wago.com/770-415</a> |
|  | <b>Nr. articol770-622</b><br>T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black                    | <a href="http://www.wago.com/770-622">www.wago.com/770-622</a> |
|  | <b>Nr. articol770-640</b><br>Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 5 outputs; black | <a href="http://www.wago.com/770-640">www.wago.com/770-640</a> |
|  | <b>Nr. articol770-659</b><br>3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; white                                                    | <a href="http://www.wago.com/770-659">www.wago.com/770-659</a> |

Supus modificărilor.



**Nr. articol**770-715

Snap-in plug; 5-pole; Cod. A; 4,00 mm²; black

[www.wago.com/770-715](http://www.wago.com/770-715)



**Nr. articol**770-815

Plug for PCBs; straight; 5-pole; Cod. A; black

[www.wago.com/770-815](http://www.wago.com/770-815)



**Nr. articol**770-715/007-000

Snap-in plug; with direct ground contact; 5-pole; Cod. A; 4,00 mm²; black

[www.wago.com/770-715/007-000](http://www.wago.com/770-715/007-000)



**Nr. articol**770-815/011-000

Plug for PCBs; angled; 5-pole; Cod. A; black

[www.wago.com/770-815/011-000](http://www.wago.com/770-815/011-000)



**Nr. articol**771-9995/006-101

pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black

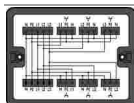
[www.wago.com/771-9995/006-101](http://www.wago.com/771-9995/006-101)



**Nr. articol**771-9995/206-101

pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black

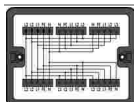
[www.wago.com/771-9995/206-101](http://www.wago.com/771-9995/206-101)



**Nr. articol**899-631/100-000

Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 7 outputs; Cod. A; MIDI; black

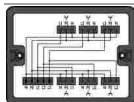
[www.wago.com/899-631/100-000](http://www.wago.com/899-631/100-000)



**Nr. articol**899-631/187-000

Distribution box; Three-phase current (400 V); 1 input; 5 outputs; Cod. A; MIDI; black

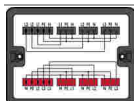
[www.wago.com/899-631/187-000](http://www.wago.com/899-631/187-000)



**Nr. articol**899-631/105-000

Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 6 outputs; Cod. A; MIDI; black

[www.wago.com/899-631/105-000](http://www.wago.com/899-631/105-000)



**Nr. articol**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

[www.wago.com/899-631/302-000](http://www.wago.com/899-631/302-000)

## Produse compatibile

### tools



**Nr. articol:** 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)



**Nr. articol:** 770-100

Wiring aid; for solid and stranded conductors; orange

[www.wago.com/770-100](http://www.wago.com/770-100)

### Strain relief plate

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**Nr. articol: 770-505/021-000**

Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; black

[www.wago.com/770-505/021-000](http://www.wago.com/770-505/021-000)**Nr. articol: 770-505/023-000**

Strain relief housing; 5-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; black

[www.wago.com/770-505/023-000](http://www.wago.com/770-505/023-000)**Nr. articol: 770-515/021-000**

Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; white

[www.wago.com/770-515/021-000](http://www.wago.com/770-515/021-000)**Nr. articol: 770-515/023-000**

Strain relief housing; 5-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; white

[www.wago.com/770-515/023-000](http://www.wago.com/770-515/023-000)**Marking accessories****Nr. articol: 770-450**

Marker card; Plastic; white

[www.wago.com/770-450](http://www.wago.com/770-450)**Nr. articol: 770-450/000-001**

Marker card; Plastic; white

[www.wago.com/770-450/000-001](http://www.wago.com/770-450/000-001)**Nr. articol: 770-450/000-002**

Marker card; Plastic; white

[www.wago.com/770-450/000-002](http://www.wago.com/770-450/000-002)**Nr. articol: 770-450/000-005**

Marker card; Plastic; white

[www.wago.com/770-450/000-005](http://www.wago.com/770-450/000-005)**Nr. articol: 770-450/000-006**

Marker card; Plastic; white

[www.wago.com/770-450/000-006](http://www.wago.com/770-450/000-006)**Nr. articol: 770-450/000-012**

Marker card; Plastic; white

[www.wago.com/770-450/000-012](http://www.wago.com/770-450/000-012)**Descărcări****CAD/CAE-Data****CAD data**

2D/3D Models 770-205

URL

Descărcare

**CAE data**

EPLAN Data Portal 770-205

URL

Descărcare

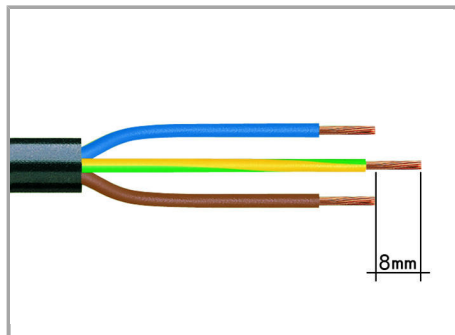
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## Installation Notes

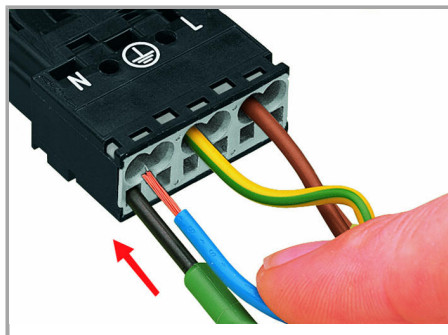
### Conductor termination



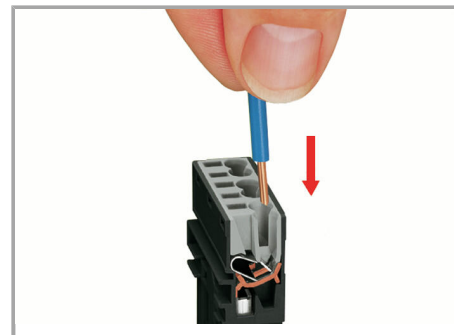
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

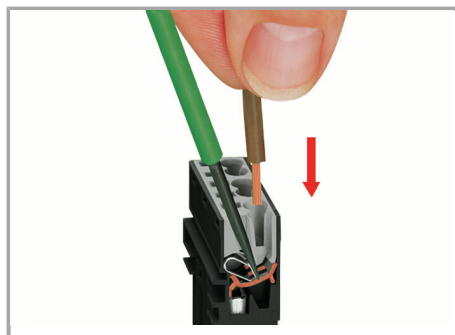
3. Extended ground conductor = 8 mm



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



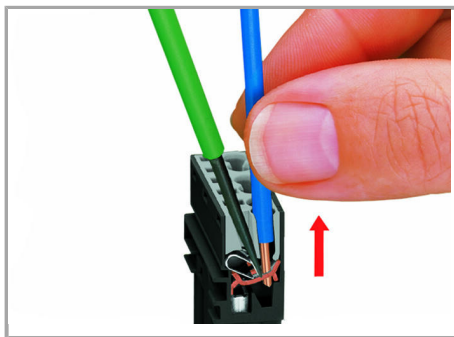
Insert stripped solid conductor until it hits backstop.



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

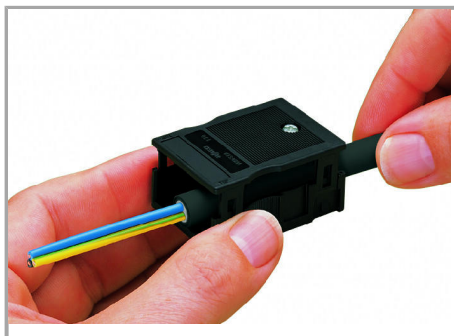
### Conductor removal

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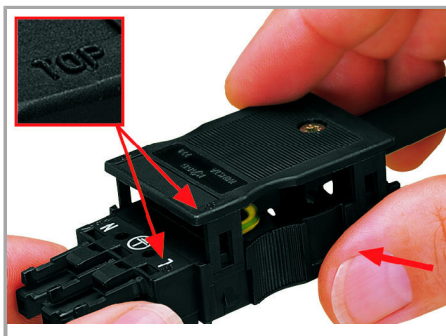


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

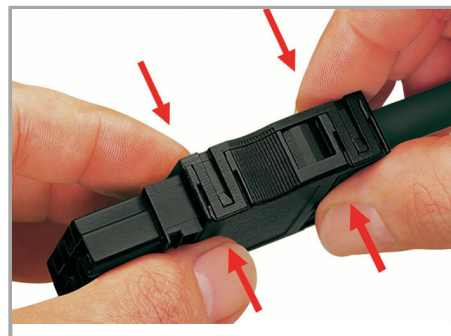
#### Installation



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 on the plug /socket. Note the "TOP" inscription.



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



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

Supus modificărilor.



## Familie de produse

**<i>WINSTA</i>® MIDI**

Afișare globală produse din familie.

Supus modificărilor.

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