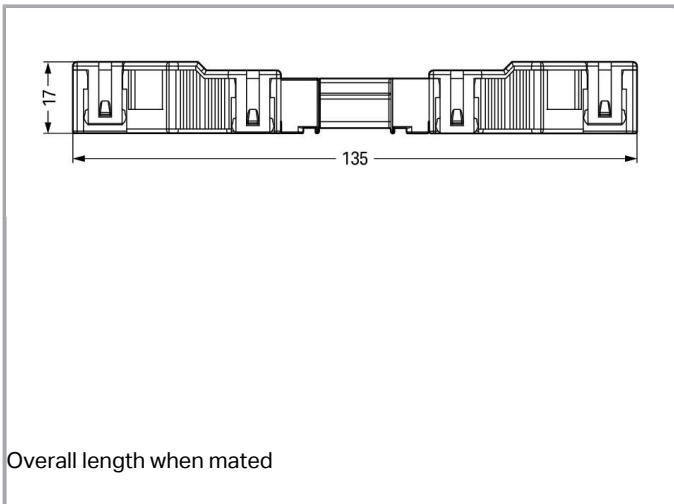
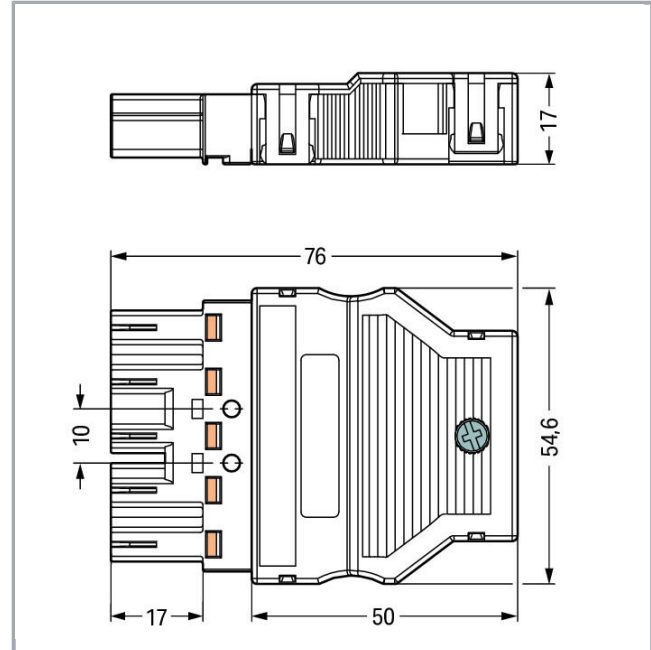


## Fișă tehnică | Număr articol: 770-135

Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; white

[www.wago.com/770-135](http://www.wago.com/770-135)



### 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

Supus modificărilor.

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- 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<sup>®</sup> components are 100% protected against mismatching when:

- plugging different numbers of poles
- plugging while rotated 180
- plugging while laterally staggered
- 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.

**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 <sup>®</sup>           |
| Actuation type        | Operating tool<br>Push-in                 |
| Nominal cross-section | 4 mm <sup>2</sup>                         |
| Solid conductor       | 0,5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG |

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|  |  |
|--|--|
| Solid conductor; push-in termination                       | 1,5 ... 4 mm <sup>2</sup> / 16 ... 12 AWG    |
| Stranded conductor   | 0,5 ... 2,5 mm <sup>2</sup> / 20 ... 14 AWG  |
| Fine-stranded conductor                                    | 0,5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG    |
| Fine-stranded conductor; with insulated ferrule            | 0,25 ... 1,5 mm <sup>2</sup> / 20 ... 16 AWG |
| Fine-stranded conductor; with uninsulated ferrule          | 0,25 ... 2,5 mm <sup>2</sup> / 20 ... 14 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 1,5 mm <sup>2</sup> / 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  |
| Ground function  | with preceding ground contact                |
| Connectable sheathed cable diameter                        | 9 ... 13 mm                                  |
| Conductor entry direction to mating direction              | 0°   |
| Strip length (outer insulation)                            | 55 mm  |

### Geometrical Data

|             |                      |
|-------------|----------------------|
| Pin spacing | 10 mm / 0.394 inch   |
| Width       | 54,6 mm / 2.15 inch  |
| Height      | 17 mm / 0.669 inch   |
| Depth       | 75,9 mm / 2.988 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<br>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   |

Supus modificărilor.



|             |                            |
|-------------|----------------------------|
| Application | General mains applications |
|-------------|----------------------------|

## Plug connection

|                                    |                       |
|------------------------------------|-----------------------|
| Contact type (pluggable connector) | Male connector/plug   |
| Connector (connection type)        | for conductor         |
| Mismating protection               | Yes                   |
| Locking of plug-in connection      | locking lever         |
| Locking lever                      | retrofitable          |
| Strain relief                      | strain relief housing |

## Material Data

|                          |  |
|--------------------------|--|
| Color                    | white                                    |
| Insulation material      | Polyamide 66 (PA 66)                     |
| Clamping spring material | Chrome nickel spring steel (CrNi)        |
| Contact material         | Copper or copper alloy (surface-treated) |
| Fire load                | 0,675 MJ                                 |
| Weight                   | 29,5 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)   |
| Packaging type        | BOX           |
| Country of origin     | DE            |
| GTIN                  | 4044918254502 |
| 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      |

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VDE  
VDE Prüf- und Zertifizierungsinstitut


EN 61535

40029808




## 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><br>Lloyds Register                            | IEC 61984                    | 02/20050<br>(E6)         |

## UL-Approvals

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













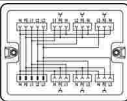
## Counterpart

|  |   |  |
|--|---|--|
|  | <b>Nr. articol770-125</b><br>Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white | <a href="http://www.wago.com/770-125">www.wago.com/770-125</a> |
|  | <b>Nr. articol770-225</b><br>Socket; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white                             | <a href="http://www.wago.com/770-225">www.wago.com/770-225</a> |
|  | <b>Nr. articol770-325</b><br>Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white | <a href="http://www.wago.com/770-325">www.wago.com/770-325</a> |

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|  |   |  |
|--|---|--|
|    | <b>Nr. articol</b> 770-6225<br>Linect® T-connector; 5-pole; Cod. A; 1 input; 2 outputs; white   | <a href="http://www.wago.com/770-6225">www.wago.com/770-6225</a>                 |
|    | <b>Nr. articol</b> 770-425<br>Socket; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white  | <a href="http://www.wago.com/770-425">www.wago.com/770-425</a>                   |
|    | <b>Nr. articol</b> 770-661<br>Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 2 outputs; with cable connection on the input side; black | <a href="http://www.wago.com/770-661">www.wago.com/770-661</a>                   |
|    | <b>Nr. articol</b> 770-671<br>T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white   | <a href="http://www.wago.com/770-671">www.wago.com/770-671</a>                   |
|    | <b>Nr. articol</b> 770-672<br>T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white   | <a href="http://www.wago.com/770-672">www.wago.com/770-672</a>                   |
|    | <b>Nr. articol</b> 770-690<br>Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 5 outputs; white  | <a href="http://www.wago.com/770-690">www.wago.com/770-690</a>                   |
|    | <b>Nr. articol</b> 770-725<br>Snap-in socket; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white  | <a href="http://www.wago.com/770-725">www.wago.com/770-725</a>                   |
|   | <b>Nr. articol</b> 770-725/009-000<br>Snap-in socket; with protruding mating face; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white   | <a href="http://www.wago.com/770-725/009-000">www.wago.com/770-725/009-000</a>   |
|  | <b>Nr. articol</b> 770-825<br>Socket for PCBs; straight; 5-pole; Cod. A; white  | <a href="http://www.wago.com/770-825">www.wago.com/770-825</a>                   |
|  | <b>Nr. articol</b> 770-825/011-000<br>Socket for PCBs; angled; 5-pole; Cod. A; white  | <a href="http://www.wago.com/770-825/011-000">www.wago.com/770-825/011-000</a>   |
|  | <b>Nr. articol</b> 771-9995/006-102<br>pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; white                  | <a href="http://www.wago.com/771-9995/006-102">www.wago.com/771-9995/006-102</a> |
|  | <b>Nr. articol</b> 771-9995/106-102<br>pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; white                 | <a href="http://www.wago.com/771-9995/106-102">www.wago.com/771-9995/106-102</a> |
|  | <b>Nr. articol</b> 899-681/100-000<br>Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 7 outputs; Cod. A; MIDI; white  | <a href="http://www.wago.com/899-681/100-000">www.wago.com/899-681/100-000</a>   |

## Produse compatibile

Supus modificărilor.



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## Marking accessories

|  |  |  |
|--|--|--|
|  | <b>Nr. articol: 770-450</b><br>Marker card; Plastic; white         | <a href="http://www.wago.com/770-450">www.wago.com/770-450</a>                 |
|  | <b>Nr. articol: 770-450/000-001</b><br>Marker card; Plastic; white | <a href="http://www.wago.com/770-450/000-001">www.wago.com/770-450/000-001</a> |
|  | <b>Nr. articol: 770-450/000-002</b><br>Marker card; Plastic; white | <a href="http://www.wago.com/770-450/000-002">www.wago.com/770-450/000-002</a> |
|  | <b>Nr. articol: 770-450/000-005</b><br>Marker card; Plastic; white | <a href="http://www.wago.com/770-450/000-005">www.wago.com/770-450/000-005</a> |
|  | <b>Nr. articol: 770-450/000-006</b><br>Marker card; Plastic; white | <a href="http://www.wago.com/770-450/000-006">www.wago.com/770-450/000-006</a> |
|  | <b>Nr. articol: 770-450/000-012</b><br>Marker card; Plastic; white | <a href="http://www.wago.com/770-450/000-012">www.wago.com/770-450/000-012</a> |

## tools

|  |  |  |
|--|--|--|
|   | <b>Nr. articol: 210-719</b><br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft | <a href="http://www.wago.com/210-719">www.wago.com/210-719</a> |
|  | <b>Nr. articol: 770-100</b><br>Wiring aid; for solid and stranded conductors; orange                 | <a href="http://www.wago.com/770-100">www.wago.com/770-100</a> |

## Coding

|  |   |  |
|--|---|--|
|  | <b>Nr. articol: 770-401</b><br>Coding pin; for plugs; Plastic; gray | <a href="http://www.wago.com/770-401">www.wago.com/770-401</a> |
|--|---|--|

## Descărcări

## CAD/CAE-Data

## CAD data

|                      |                     |                            |
|----------------------|---------------------|----------------------------|
| 2D/3D Models 770-135 | <a href="#">URL</a> | <a href="#">Descărcare</a> |
|----------------------|---------------------|----------------------------|

## CAE data

|                           |                     |                            |
|---------------------------|---------------------|----------------------------|
| EPLAN Data Portal 770-135 | <a href="#">URL</a> | <a href="#">Descărcare</a> |
|---------------------------|---------------------|----------------------------|

|                        |                     |                            |
|------------------------|---------------------|----------------------------|
| WSCAD Universe 770-135 | <a href="#">URL</a> | <a href="#">Descărcare</a> |
|------------------------|---------------------|----------------------------|

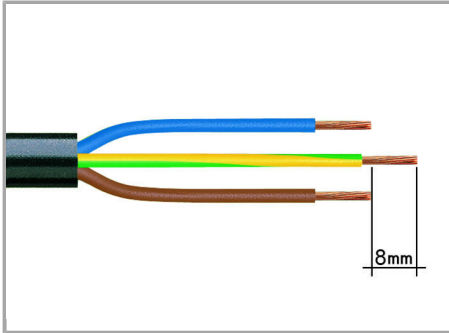
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## Installation Notes

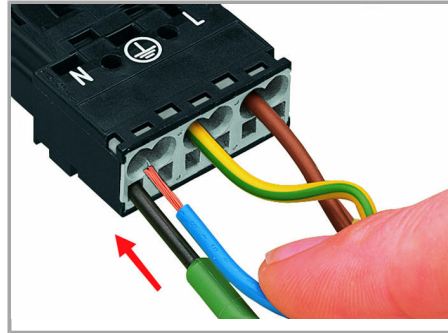
### Conductor termination



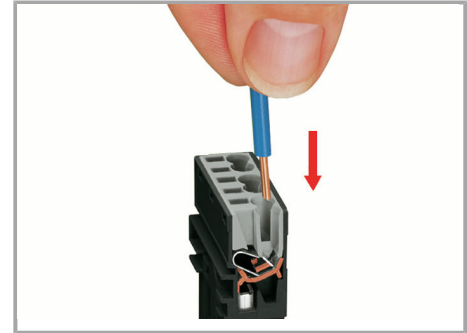
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

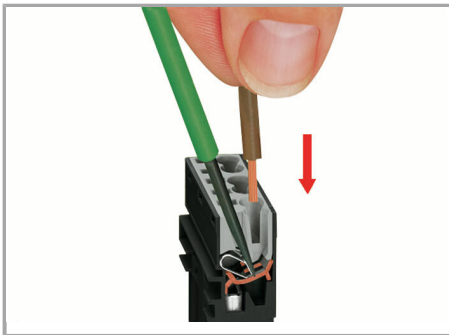
3. Extended ground conductor = 8 mm



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.

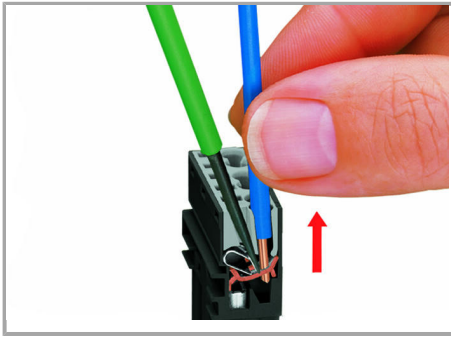


To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert stripped conductor until it hits backstop.

### Conductor removal

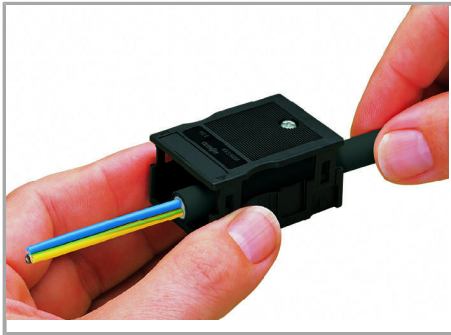
Supus modificărilor.



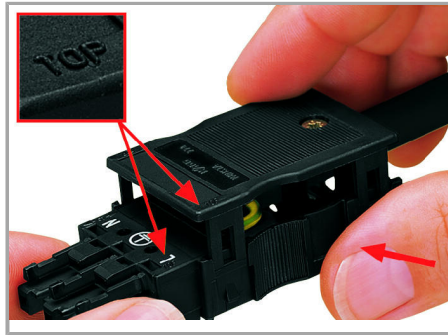


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

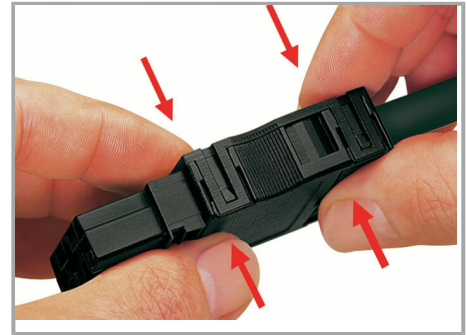
### Installation



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

*WINSTA*® MIDI

Afișare globală produse din familie.

Supus modificărilor.

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