

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 connections per pole for loops or bridges
- Additional variable coding is possible.
- Components can be clearly printed on and color-coded to meet custom requirements.

Data
Electrical data

| | |
|----------------------------|---|
| Note on contact resistance | approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket |
|----------------------------|---|

IEC Approvals

| | |
|-----------------------------|----------------|
| Ratings per | IEC/EN 60664-1 |
| Rated voltage (III / 3) | 400 V |
| Rated surge voltage (III/3) | 6 kV |
| Rated current | 25 A |

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

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Legend (ratings)

(III / 3) ≙ Overvoltage category III / Pollution degree 3

Ratings per UL

Hinweis für den amerikanischen Markt

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.

| | |
|-----------------------|-------|
| Rated voltage UL 1977 | 600 V |
| Rated current UL 1977 | 23 A |

Connection data

| | |
|--|------------------------------------|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Operating tool 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 ... 12 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. | 4 |
| Total number of connection points | 8 |
| Total number of potentials | 4 |
| Conductor entry direction to mating direction | 0° |

Physical data

| | |
|-------------|----------------------|
| Pin spacing | 10 mm / 0.394 inch |
| Width | 40 mm / 1.575 inch |
| Height | 12.9 mm / 0.508 inch |
| Depth | 37.5 mm / 1.476 inch |

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Mechanical data

| | |
|---|--|
| Application | Measurement and regulation technology |
| Coding | B |
| Marking | 1 2 3 4 |
| Potential marking | 1 2 3 4 |
| 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 class | IP20; When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!) |
| Protection type | IP20 |
| Note on protection type | 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) | Male connector/plug |
| Connector (connection type) | for conductor |
| Mismating protection | Yes |
| Note on mismating protection | All WINSTA [®] components are 100% protected against mismating when: a.) plugging different numbers of poles b.) plugging while rotated 180 c.) plugging while laterally staggered d.) plugging one pole |
| Locking lever | Can be retrofitted |
| Locking of plug-in connection | locking lever |
| Hinweis zur Verriegelung | 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

| | |
|--------------------------|--|
| Color | light green |
| Insulation material | Polyamide (PA66) |
| Clamping spring material | Chrome nickel spring steel (CrNi) |
| Contact material | Copper or copper alloy (surface-treated) |

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| | |
|-----------|----------|
| Fire load | 0.252 MJ |
| Weight | 13 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 | 4050821445753 |
| Customs tariff number | 8536694040 |

Approvals / Certificates

Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|---------------------------------|--------------------------|------------------|
| | CCA DEKRA Certification B.V. | IEC 61984 | NL-32104 |
|  | CCA DEKRA Certification B.V. | EN 61984 | 2173495.01 |

Ship Approvals


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

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UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | cURus Underwriters Laboratories Inc. | UL 1977 | E45171 Sec. 9 |

Counterpart

| | | |
|--|--|--|
|  | Item no.770-1632 T-distribution connector; 4-pole; Cod. B; 1 input; 2 outputs; 2 locking levers; light green | www.wago.com/770-1632 |
|  | Item no.770-1682 h-distribution connector; 4-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 2 locking levers; light green | www.wago.com/770-1682 |
|  | Item no.770-1732 T-distribution connector; 4-pole; Cod. B; 1 input; 2 outputs; 3 locking levers; for flying leads; light green | www.wago.com/770-1732 |
|  | Item no.770-1735 3-way distribution connector; 4-pole; Cod. B; 1 input; 3 outputs; light green | www.wago.com/770-1735 |
|  | Item no.770-1782 h-distribution connector; 4-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; light green | www.wago.com/770-1782 |
|  | Item no.770-264 Socket; 4-pole; Cod. B; 4,00 mm ² ; light green | www.wago.com/770-264 |
|  | Item no.770-864 Socket for PCBs; straight; 4-pole; Cod. B; light green | www.wago.com/770-864 |
|  | Item no.770-764 WINSTA® through-panel socket (female); snap-in; 1/2/3/4 marking; 4-pole; light green | www.wago.com/770-764 |
|  | Item no.771-9994/005-105 pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. B; H05VV-F 4 x 1.0 mm ² ; 1 m; 1,00 mm ² ; light green | www.wago.com/771-9994/005-105 |
|  | Item no.770-864/011-000 Socket for PCBs; angled; 4-pole; Cod. B; light green | www.wago.com/770-864/011-000 |
|  | Item no.771-9994/105-105 pre-assembled connecting cable; Eca; Socket/open-ended; 4-pole; Cod. B; Control cable 4 x 1.0 mm ² ; 1 m; 1,00 mm ² ; light green | www.wago.com/771-9994/105-105 |

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Required accessories

Locking levers




| | | |
|---|--|--|
|  | Item no.: 770-101 Locking lever; for flying leads; for manual operation; black | www.wago.com/770-101 |
|  | Item no.: 770-111 Locking lever; for flying leads; for tool operation; black | www.wago.com/770-111 |
|  | Item no.: 770-121 Locking lever; for flying leads; for manual operation; white | www.wago.com/770-121 |
|  | Item no.: 770-131 Locking lever; for flying leads; for tool operation; white | www.wago.com/770-131 |

Strain relief


| | | |
|---|---|--|
|  | Item no.: 770-504 Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; black | www.wago.com/770-504 |
|  | Item no.: 770-504/023-000 Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; black | www.wago.com/770-504/023-000 |
|  | Item no.: 770-514 Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; white | www.wago.com/770-514 |
|  | Item no.: 770-514/023-000 Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; white | www.wago.com/770-514/023-000 |

Optional accessories

Marking accessories

| | | |
|---|--|--|
|  | Item no.: 770-450 Marker card; Plastic; white | www.wago.com/770-450 |
|  | Item no.: 770-450/000-001 Marker card; Plastic; green | www.wago.com/770-450/000-001 |
|  | Item no.: 770-450/000-002 Marker card; Plastic; yellow | www.wago.com/770-450/000-002 |
|  | Item no.: 770-450/000-005 Marker card; Plastic; red | www.wago.com/770-450/000-005 |
|  | Item no.: 770-450/000-006 Marker card; Plastic; blue | www.wago.com/770-450/000-006 |

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


Item no.: 770-450/000-012
 Marker card; Plastic; orange

www.wago.com/770-450/000-012

Mounting

| | |
|--|--|
|  Item no.: 770-319 Snap-in frame; 4-pole; 0.5 ... 2.0 mm; black | www.wago.com/770-319 |
|  Item no.: 770-339 Snap-in frame; 4-pole; 0.5 ... 2.0 mm; black | www.wago.com/770-339 |

Tools

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

Cover

| | |
|---|--|
|  Item no.: 770-360 Lockout cap; for plugs; 5-pole; separable; yellow | www.wago.com/770-360 |
|  Item no.: 897-2005 Protective cap; Type4; for sockets and plugs; PVC; red | www.wago.com/897-2005 |

Downloads

Documentation

Bid Text

| | | | |
|-------------|--------------|---------|----------|
| 770-274 | Feb 19, 2019 | xml | Download |
| X81 - Datei | | 3.0 kB | |
| 770-274 | Jun 8, 2015 | doc | Download |
| doc - Datei | | 25.1 kB | |

CAD files

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 770-274 | URL | Download |
|----------------------|-----|----------|

CAE data

| | | |
|------------------------|-----|----------|
| WSCAD Universe 770-274 | URL | Download |
| ZUKEN Portal 770-274 | URL | Download |

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-274

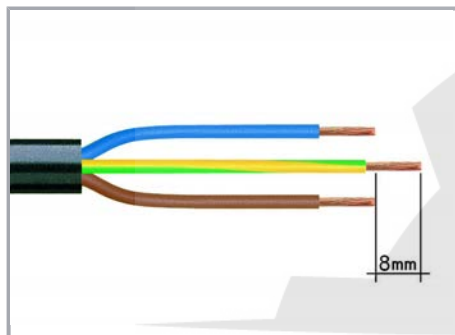
URL

Download

Plug; 4-pole; Cod. B; 4,00 mm²; light green

Installation Notes

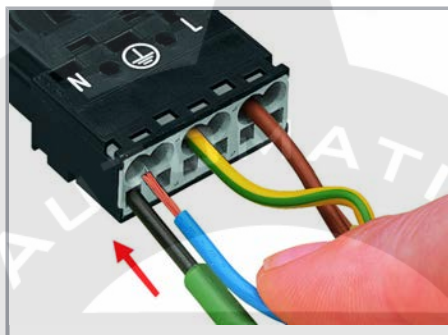
Conductor termination



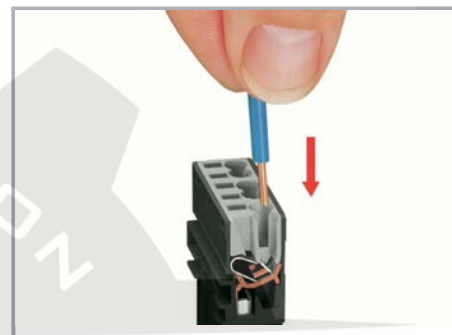
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

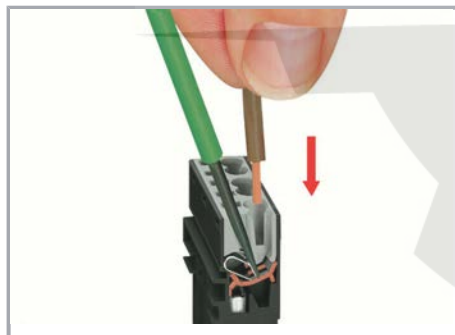
3. Extended ground conductor = 8 mm



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



Insert the stripped solid conductor until it hits the backstop.



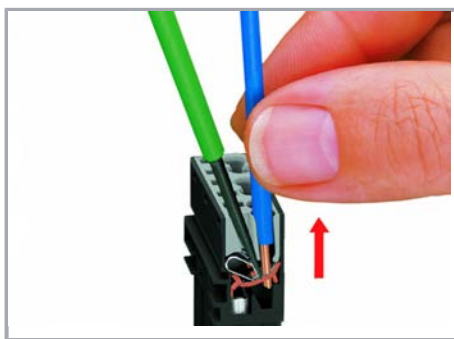
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

Conductor removal

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

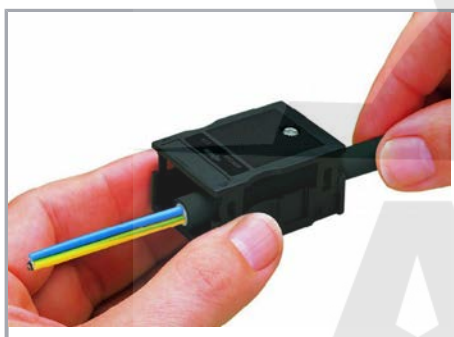
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To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

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



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



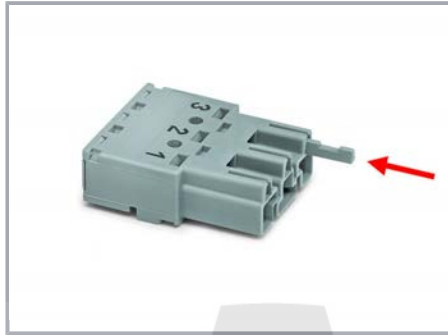
Tighten strain relief screw with screwdriver (2.5 mm blade width).

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

Coding



Simply cut off the coding pin from the socket.



Insert coding pin into plug (break first) until it engages.

Mismatching protection



B-coded connectors with different colors can 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.



Easy circuit identification via different marking and colors

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.

Product family

WINSTA® MIDI

[Show all products from the family](#)

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