

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
- Components can be clearly printed on and color-coded to meet custom requirements

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.

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

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) | 250 V |
| Rated impulse voltage (III / 3) | 4 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 | Push-in CAGE CLAMP® |
| Actuation type | Operating tool Push-in |
| Nominal cross section | 4 mm ² |
| Solid conductor | 0,5 ... 4 mm ² / 20 ... 12 AWG |
| Solid conductor, push-in termination | 1,5 ... 4 mm ² / 16 ... 12 AWG |
| Stranded conductor | 0,5 ... 2,5 mm ² / 20 ... 14 AWG |
| Fine-stranded conductor | 0,5 ... 4 mm ² / 20 ... 12 AWG |
| Fine-stranded conductor with ferrule with plastic collar | 0,25 ... 1,5 mm ² / 20 ... 16 AWG |
| Fine-stranded conductor with ferrule without plastic collar | 0,25 ... 2,5 mm ² / 20 ... 14 AWG |
| Fine-stranded conductor with ferrule, push-in termination, from | 1,5 mm ² / 16 AWG |
| Strip length | 9 mm / 0.35 inch |
| Note (strip length) | see also packaging or instructions |
| No. of poles | 3 |
| Total number of connection points | 6 |
| Total number of potentials | 3 |
| Conductor entry direction to mating direction | 0° |

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

Geometrical Data

| | |
|-------------|----------------------|
| Pin spacing | 10 mm / 0.394 inch |
| Width | 30 mm / 1.181 inch |
| Height | 12,9 mm / 0.508 inch |
| Depth | 37,5 mm / 1.476 inch |

Mechanical data

| | |
|---|--|
| Coding | B |
| 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 ² /AWG 12) |
| Marking | + S - |
| Protection class | IP20 |
| Note on protection class | In mated condition with strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas.) |
| Potential marking | + S - |

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 |

Material Data

| | |
|--------------------------|--|
| Color | pink |
| Insulating material | Polyamide 66 (PA 66) |
| Clamping spring material | Chrome nickel spring steel (CrNi) |
| Contact material | Copper or copper alloy (surface-treated) |
| Fire load | 0.196 MJ |

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

| | |
|--------|------|
| Weight | 10 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

| | |
|--------------------|---------------|
| Packaging type | BOX |
| Country of origin | DE |
| GTIN | 4050821553557 |
| Customs Tariff No. | 85366990990 |

Approvals / Certificates

UL-Approvals

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

Counterpart



Item no. **770-283/082-000**
Socket; 3-pole; Cod. B; 4,00 mm²; pink

www.wago.com/770-283/082-000



Item no. **770-883/011-000/082-000**
Socket for PCBs; angled; 3-pole; Cod. B; pink

www.wago.com/770-883/011-000/082-000



Item no. **770-783/082-000**
Snap-in socket; 3-pole; Cod. B; 4,00 mm²; pink

www.wago.com/770-783/082-000




Item no. **770-883/082-000**
Socket for PCBs; straight; 3-pole; Cod. B; pink

www.wago.com/770-883/082-000

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

Compatible products


Locking lever

| | | |
|--|--|--|
|  | 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 |

Coding

| | | |
|--|--|--|
|  | Item no.: 770-401 Coding pin; for plugs; Plastic; gray | www.wago.com/770-401 |
|--|--|--|

tools

| | | |
|--|---|--|
| | Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft | www.wago.com/210-719 |
|  | Item no.: 770-383 Operating tool; 3-way; green | www.wago.com/770-383 |

Marking accessories

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

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

protection



Item no.: 770-360
Lockout cap; for plugs; 5-pole; separable; yellow

www.wago.com/770-360

Strain relief plate

Item no.: 770-503
Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black

www.wago.com/770-503



Item no.: 770-503/021-000
Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm; black

www.wago.com/770-503/021-000

Item no.: 770-503/023-000
Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm; black

www.wago.com/770-503/023-000



Item no.: 770-503/032-000
Strain relief housing; 3-pole; with locking clip; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black

www.wago.com/770-503/032-000



Item no.: 770-503/035-000
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; black

www.wago.com/770-503/035-000



Item no.: 770-503/038-000
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; black

www.wago.com/770-503/038-000

Item no.: 770-513
Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white

www.wago.com/770-513



Item no.: 770-513/021-000
Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm; white

www.wago.com/770-513/021-000

Item no.: 770-513/023-000
Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm; white

www.wago.com/770-513/023-000



Item no.: 770-513/032-000
Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white

www.wago.com/770-513/032-000



Item no.: 770-513/035-000
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; white

www.wago.com/770-513/035-000

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



Item no.: 770-513/038-000

Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; white

www.wago.com/770-513/038-000

Downloads

CAD/CAE-Data

CAD data

2D/3D Models 770-293/082-000

[URL](#)

[Download](#)

CAE data

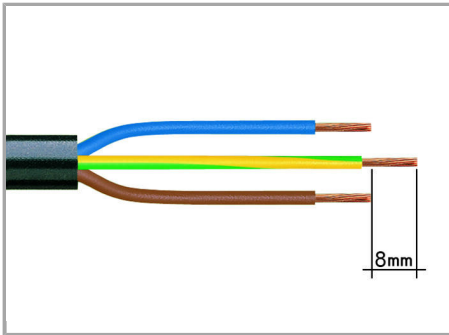
WSCAD Universe 770-293/082-000

[URL](#)

[Download](#)

Installation Notes

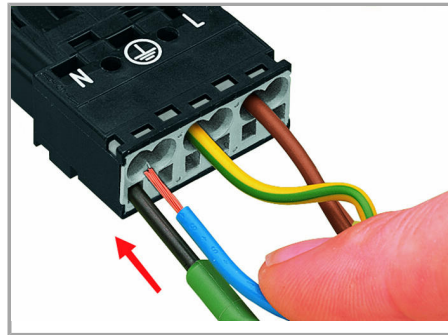
Conductor termination



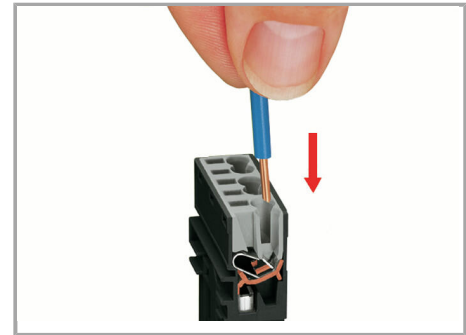
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

3. Extended ground conductor = 8 mm

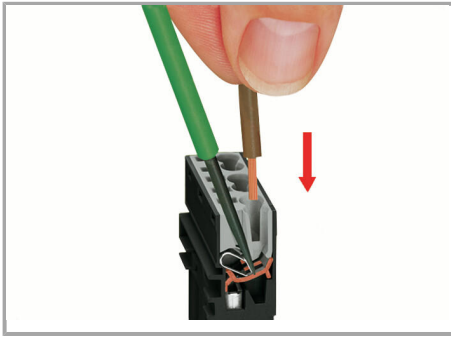


To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert stripped conductor until it hits backstop.



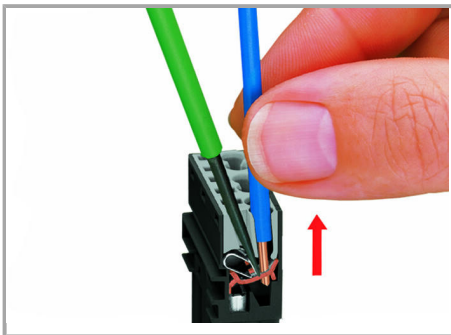
Insert stripped solid conductor until it hits backstop.

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



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

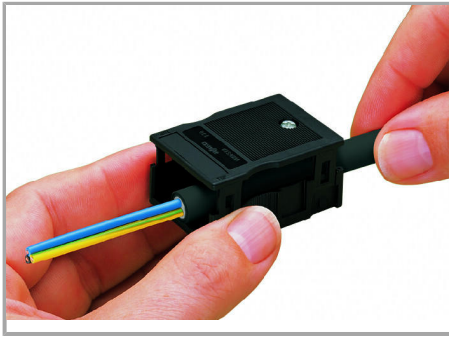
Conductor removal



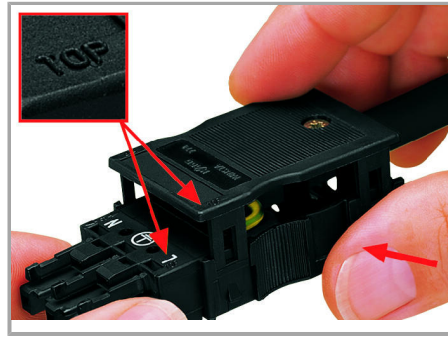
To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

Installation

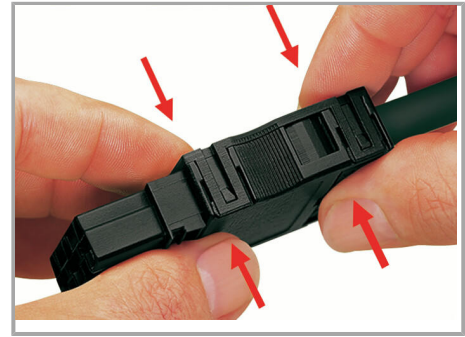
Subject to changes. Please also observe the further product documentation!



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.

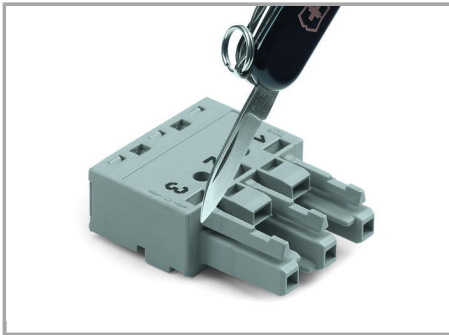


Prepare strain relief housing by snapping together upper and bottom part.

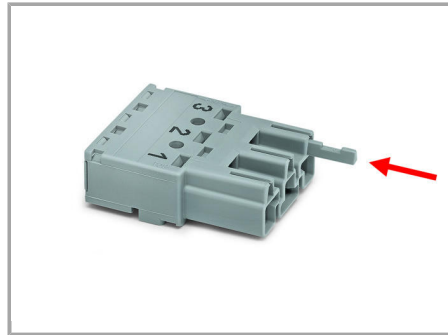


Tighten strain relief screw via screwdriver (2.5 mm blade width).

Coding



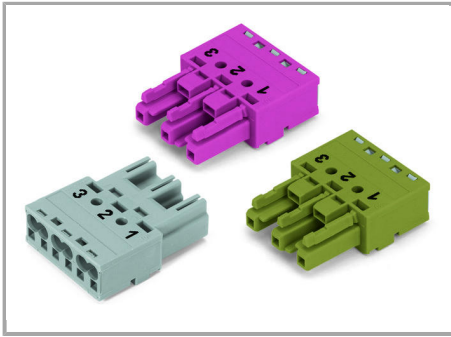
Simply cut off the coding pin from the socket.



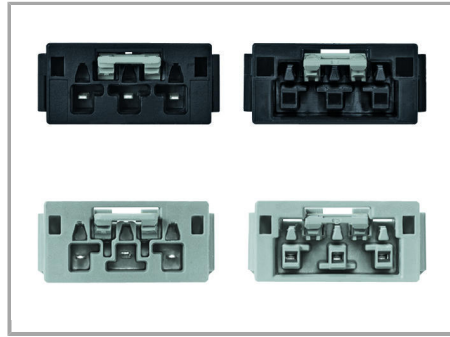
Insert coding pin into plug (break first) until it engages.

Mismatching protection

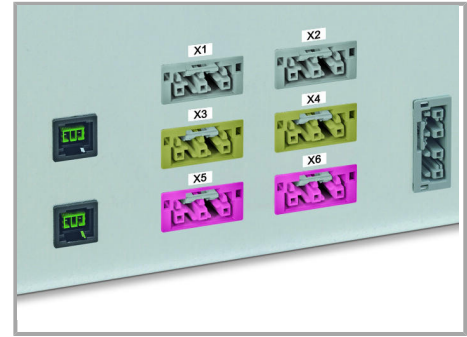
Subject to changes. Please also observe the further product documentation!



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 marking are used for circuit identification.

Only connectors of the same color and same pole marking must be plugged together.

Product family

<i>WINSTA</i>® MIDI special

[Show all products from the family](#)

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

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