

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
- Compact design with 4.4 mm pole spacing
- When assembled, the installation connectors complies with IP40 and are suitable for easily accessible areas

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 5 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 | 16 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) | 14 A |

Connection data

| | |
|---|---|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Operating tool Push-in |
| Nominal cross section | 1,5 mm ² |
| Solid conductor | 0,25 ... 1,5 mm ² / 22 ... 16 AWG |
| Solid conductor, push-in termination | 0,75 ... 1,5 mm ² / 20 ... 16 AWG |
| Stranded conductor | 0,25 ... 1 mm ² / 22 ... 18 AWG |
| Fine-stranded conductor | 0,25 ... 1,5 mm ² / 22 ... 16 AWG |
| Fine-stranded conductor with ferrule with plastic collar | 0,25 ... 0,75 mm ² / 22 ... 20 AWG |
| Fine-stranded conductor with ferrule without plastic collar | 0,25 ... 0,75 mm ² / 22 ... 20 AWG |
| Fine-stranded conductor with ferrule, push-in termination, from | 0,75 mm ² / 20 AWG |
| Strip length | 9 mm / 0.35 inch |
| Note (strip length) | see also packaging or instructions |
| No. of poles | 2 |
| Total number of connection points | 2 |
| Total number of potentials | 2 |
| Conductor entry direction to mating direction | 0° |

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

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Do you have any questions about our products?
 We are always happy to take your call at +49 (571) 887-44222.



Geometrical Data

| | |
|-------------|----------------------|
| Pin spacing | 4,4 mm / 0.173 inch |
| Width | 10,4 mm / 0.409 inch |
| Height | 11,7 mm / 0.461 inch |
| Depth | 34,1 mm / 1.343 inch |

Mechanical data

| | |
|---|--|
| Technologie | DALI |
| Coding | I |
| 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 $I_N = 16$ A, tested (1.5 mm ² /AWG 16) |
| Marking | + - |
| Protection class | IP20 |
| Note on protection class | IP40 with strain relief housing |
| Potential marking | + - |
| Application | Lighting management |

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 | no |

Material Data

| | |
|--------------------------|--|
| Color | blue |
| Insulating material | Polyamide 66 (PA 66) |
| Clamping spring material | Chrome nickel spring steel (CrNi) |
| Contact material | Copper or copper alloy (surface-treated) |
| Fire load | 0.052 MJ |

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

| | |
|--------|-------|
| Weight | 2.6 g |
|--------|-------|

Environmental Requirements


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

Commercial data




| | |
|--------------------|---------------|
| Product Group | 20 (WINSTA) |
| Packaging type | BOX |
| Country of origin | PL |
| GTIN | 4055143548472 |
| Customs Tariff No. | 85366990990 |

Approvals / Certificates

Country specific Approvals


| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
| | CCA DEKRA Certification B.V. | IEC 61535 | NL-49482 |
|  | CCA DEKRA Certification B.V. | EN 61535 | 71- 102984 |

Ship Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|--------------------------|--------------------------|
|  | ABS American Bureau of Shipping | Steel Vessel Rules | 19- HG1869855- PDA |
|  | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE00001Z6 |
|  | LR Lloyds Register | EN 61535 | 08/20047 (E2) |

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

UL-Approvals

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

Counterpart



Item no.890-1617
T-distribution connector; 2-pole; Cod. I; 1 input; 2 outputs; 2 locking levers; blue

www.wago.com/890-1617



Item no.890-1620
T-distribution connector; 2-pole; Cod. I; 1 input; 2 outputs; 3 locking levers; for flying leads; blue

www.wago.com/890-1620



Item no.890-1112
Plug; 2-pole; 1,50 mm²; blue

www.wago.com/890-1112



Item no.890-1904
3-way distribution connector; 2-pole; Cod. I; 1 input; 3 outputs; blue

www.wago.com/890-1904



Item no.890-1907
5-way distribution connector; 2-pole; Cod. I; 1 input; 5 outputs; blue

www.wago.com/890-1907



Item no.890-2112
Snap-in plug; 2-pole; Cod. I; 1,50 mm²; blue

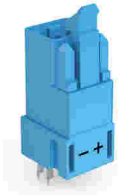
www.wago.com/890-2112



Item no.890-3112/011-000
Plug for PCBs; angled; 2-pole; Cod. I

www.wago.com/890-3112/011-000

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



Item no.890-3112
Plug for PCBs; straight; 2-pole; Cod. I

www.wago.com/890-3112



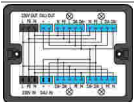
Item no.891-8982/006-101
pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. I; H05VV-F 2 x 1.5 mm²; 1 m; 1,50 mm²; blue

www.wago.com/891-8982/006-101



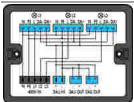
Item no.891-8982/206-101
pre-assembled connecting cable; Eca; Plug/open-ended; 2-pole; Cod. I; H05VV-F 2 x 1.5 mm²; 1 m; 1,50 mm²; blue

www.wago.com/891-8982/206-101



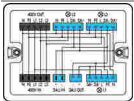
Item no.899-631/181-000
Distribution box; 230 V + DALI; 2 inputs; 6 outputs; Cod. A, I; MINI, MIDI; black

www.wago.com/899-631/181-000



Item no.899-631/455-000
Distribution box; 400 V + DALI; 2 inputs; 5 outputs; Cod. A, I; MINI, MIDI; black

www.wago.com/899-631/455-000



Item no.899-681/147-000
Distribution box; 400 V + DALI; 2 inputs; 5 outputs; Cod. A, I; MINI, MIDI; white

www.wago.com/899-681/147-000

Compatible products

Strain relief plate



Item no.: 890-502
Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 ... 8.2 mm; 30 mm; black

www.wago.com/890-502



Item no.: 890-502/342-000
Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 ... 8.2 mm; 17.5 mm; black

www.wago.com/890-502/342-000



Item no.: 890-512
Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 ... 8.2 mm; 30 mm; white

www.wago.com/890-512



Item no.: 890-512/342-000
Strain relief housing; 2-pole; with locking clip; for 1 cable; 3.8 ... 8.2 mm; 17.5 mm; white

www.wago.com/890-512/342-000

tools

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

www.wago.com/210-719

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

Item no.: 890-382
Operating tool; 2-way; green

www.wago.com/890-382

Locking lever

Item no.: 890-101
Locking lever; for manual operation; black

www.wago.com/890-101



Item no.: 890-111
Locking lever; for flying leads; for tool operation; black

www.wago.com/890-111



Item no.: 890-121
Locking lever; for manual operation; white

www.wago.com/890-121

Item no.: 890-131
Locking lever; for flying leads; for tool operation; white

www.wago.com/890-131

assembling



Item no.: 890-310
Mounting carrier; 2- to 5-pole; for flying leads; black

www.wago.com/890-310



Item no.: 890-311
Mounting carrier; 2- to 5-pole; for flying leads; white

www.wago.com/890-311

Downloads

CAD/CAE-Data

CAD data

2D/3D Models 890-1102

[URL](#)

[Download](#)

CAE data

EPLAN Data Portal 890-1102

[URL](#)

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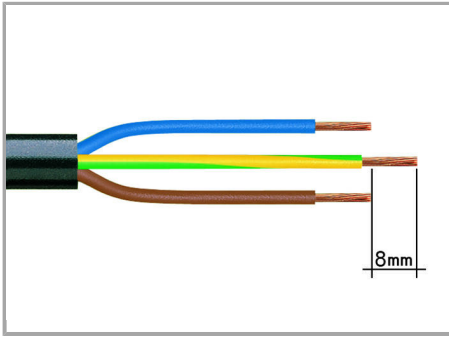
WSCAD Universe 890-1102

[URL](#)

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Installation Notes

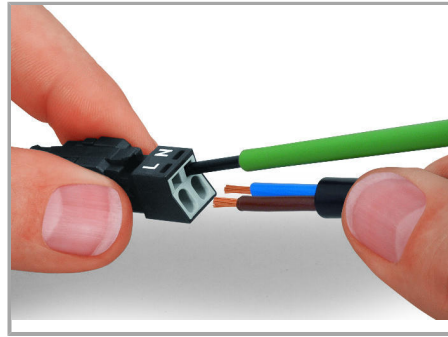
Subject to changes. Please also observe the further product documentation!



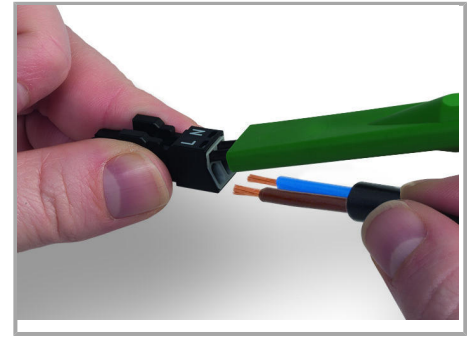
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)

2. Strip length = 9 mm

3. Extended ground conductor = 8 mm



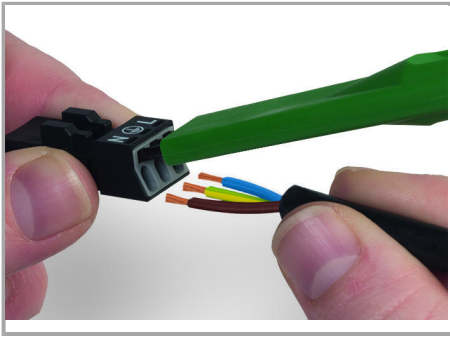
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits backstop. Terminate solid conductors by simply pushing them in.



To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop.

Terminate solid conductors by simply pushing them in.

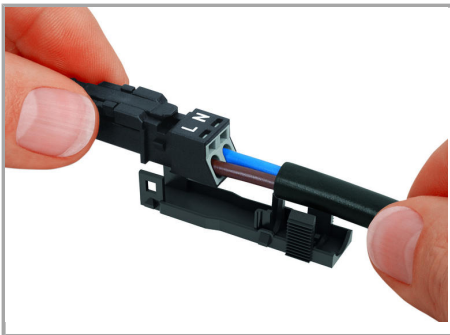
Subject to changes. Please also observe the further product documentation!



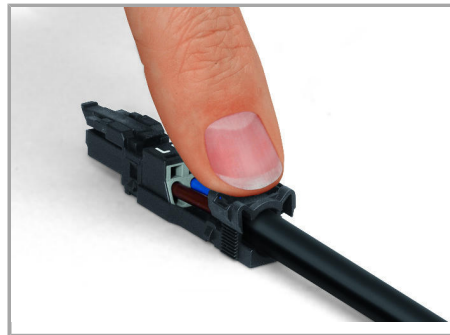
To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop.

Terminate solid conductors by simply pushing them in.

Installation



Latch wired connector onto the base of the strain relief housing.

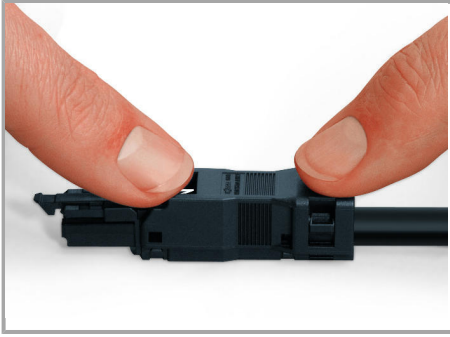


Push down strain relief clamp by hand.

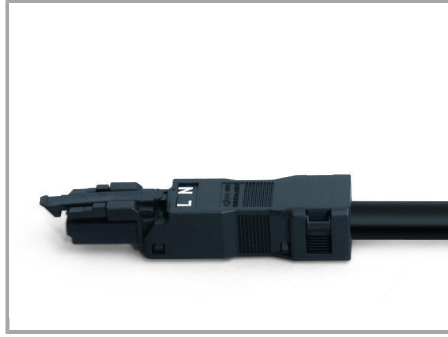


Push down strain relief clamp via 2.5 mm screwdriver alternately on both sides.

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



Latch the top of the strain relief housing.



The printed marking of the connector is clearly visible in the openings of the strain relief housing.

Product family

WINSTA[®] MINI

[Show all products from the family](#)

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