

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 |
|-----------------------------|---|
| Nominal voltage (III/3) | 250 V |
| Rated surge 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 UL 1977 | 600 V |
| Rated current UL 1977 | 14 A |

Connection data

| | |
|--|------------------------------------|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Operating tool Push-in |
| Nominal cross-section | 1,5 mm² |
| Solid conductor | 0,25 ... 1,5 mm² / 22 ... 16 AWG |
| Solid conductor; push-in termination | 0,75 ... 1,5 mm² / 20 ... 16 AWG |
| Stranded conductor | 0,25 ... 1 mm² / 22 ... 18 AWG |
| Fine-stranded conductor | 0,25 ... 1,5 mm² / 22 ... 16 AWG |
| Fine-stranded conductor; with insulated ferrule | 0,25 ... 0,75 mm² / 22 ... 20 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 0,25 ... 0,75 mm² / 22 ... 20 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 0,75 mm² / 20 AWG |
| Strip length | 9 mm / 0.35 inch |
| Note (strip length) | see also packaging or instructions |
| Pole No. | 2 |
| Total number of connection points | 2 |
| Total number of potentials | 2 |
| Conductor entry direction to mating direction | 0° |

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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

| | |
|---|--|
| 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 $I_N = 16$ A, tested (1.5 mm ² /AWG 16) |
| Marking | L N |
| Protection type | IP20 |
| Note on protection type | IP40 with strain relief housing |
| Potential marking | L N |
| 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) |
| Fire load | 0.052 MJ |
| Weight | 2.7 g |

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

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 | PL |
| GTIN | 4055143548458 |
| Customs tariff number | 85366990990 |

Approvals / Certificates

Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---------------------------------|--------------------------|------------------|
|  | CCA DEKRA Certification B.V. | EN 61535 | 71-11299 |

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) |

UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
|------|----------|--------------------------|------------------|

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cURus
Underwriters Laboratories Inc.

UL 1977

E45171

Counterpart



Item no.890-112
Plug; with strain relief housing; 2-pole; 1,50 mm²; black

www.wago.com/890-112

Item no.890-1606
T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black

www.wago.com/890-1606

Item no.890-1615
T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black

www.wago.com/890-1615

Item no.890-1634
h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black

www.wago.com/890-1634

Item no.890-212
Plug; 2-pole; 1,50 mm²; black

www.wago.com/890-212

Item no.890-212/342-000
Plug; with strain relief housing; 2-pole; 1,50 mm²; black

www.wago.com/890-212/342-000

Item no.890-1636
h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; black

www.wago.com/890-1636

Item no.890-712
Snap-in plug; 2-pole; Cod. A; 1,50 mm²; black

www.wago.com/890-712

Item no.890-812
Plug for PCBs; straight; 2-pole; Cod. A

www.wago.com/890-812

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



Item no.890-812/011-000
Plug for PCBs; angled; 2-pole; Cod. A; black

www.wago.com/890-812/011-000



Item no.891-8992/005-101
pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm²; 1 m;
1,00 mm²; black

www.wago.com/891-8992/005-101



Item no.891-8992/205-101
pre-assembled connecting cable; Eca; Plug/open-ended; 2-pole; Cod. A; H05VV-F 2 x 1.0 mm²; 1 m;
1,00 mm²; black

www.wago.com/891-8992/205-101

Compatible products

tools



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

www.wago.com/210-719

Downloads

Documentation

Bid Text

| | | | |
|------------------|--------------|---------|----------|
| 890-202 | Feb 19, 2019 | xml | Download |
| GAEB X81 - Datei | | 3.0 kB | |
| 890-202 | Jun 8, 2015 | doc | Download |
| doc - Datei | | 23.6 kB | |

CAD/CAE-Data

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 890-202 | URL | Download |
|----------------------|-----|----------|

CAE data

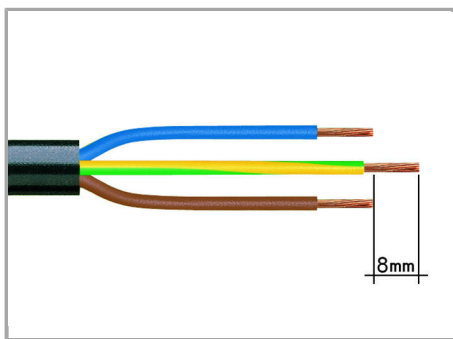
| | | |
|---------------------------|-----|----------|
| EPLAN Data Portal 890-202 | URL | Download |
| WSCAD Universe 890-202 | URL | Download |

Installation Notes

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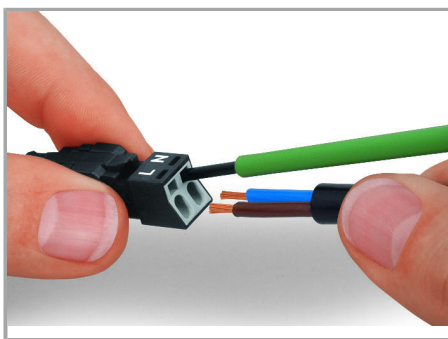
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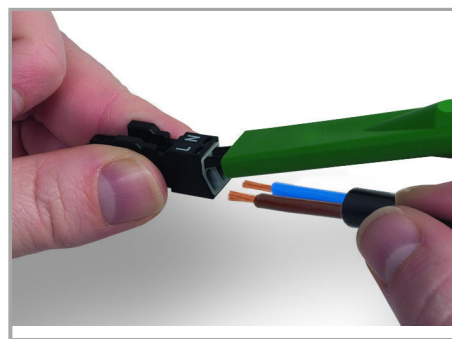
1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)

2. Strip length = 9 mm

3. Extended ground conductor = 8 mm

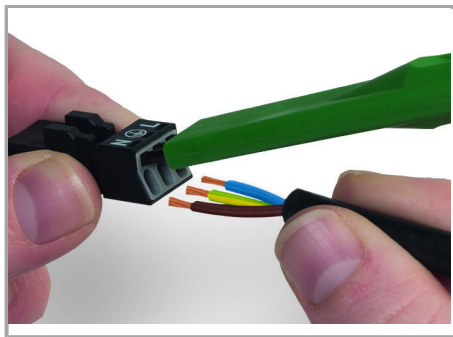


To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits backstop. Terminate solid conductors by simply pushing them in.



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.



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

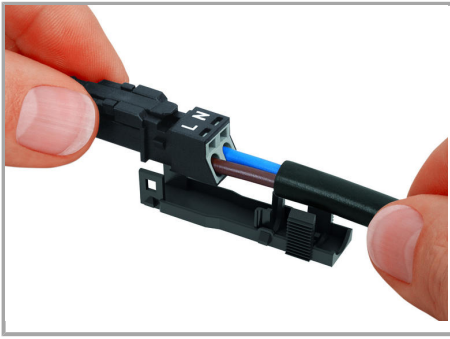
Terminate solid conductors by simply pushing them in.

Installation

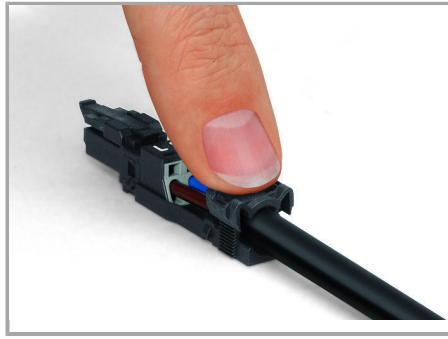
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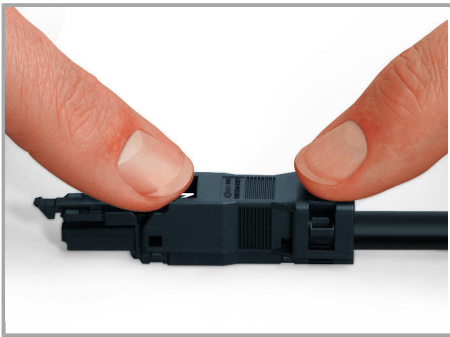
Latch wired connector onto the base of the strain relief housing.



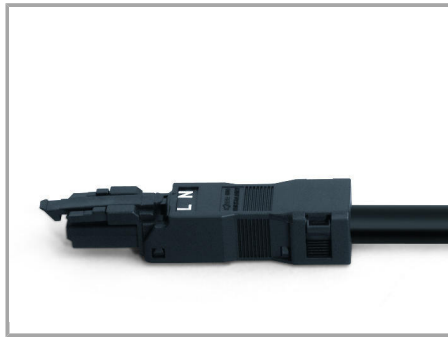
Push down strain relief clamp by hand.



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



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](#)

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