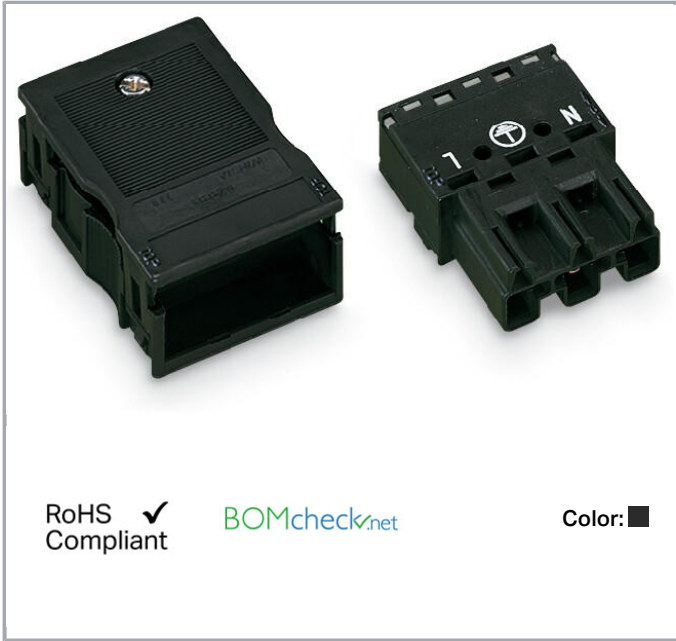


Data sheet | Item number: 770-113

Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black

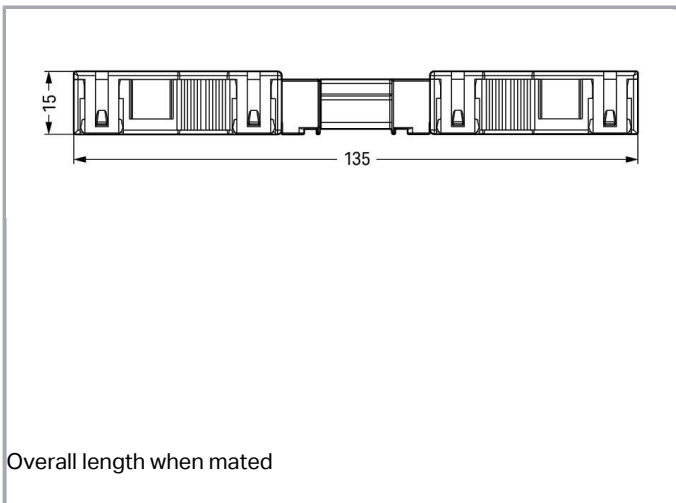
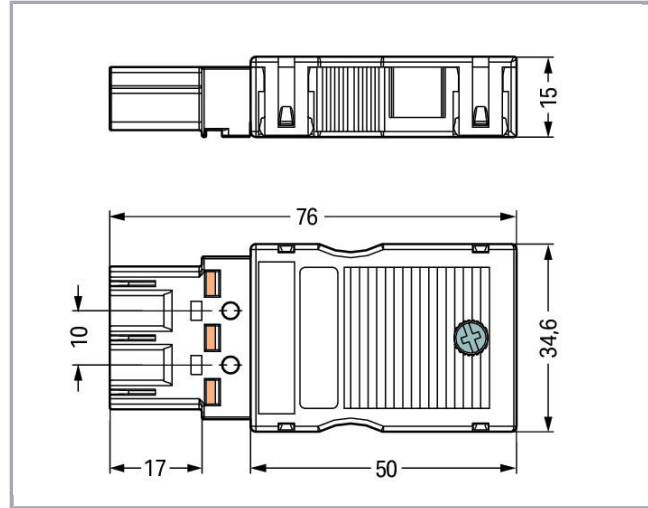
www.wago.com/770-113



RoHS
Compliant ✓

[BOMcheck.net](https://www.bomcheck.net)

Color: ■



Overall length when mated

Item description

Black coding A (L N)

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

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Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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**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.

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 | 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 [®] |
| 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 |

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

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| | |
|------------------------------------------------------------|----------------------------------------------|
| Fine-stranded conductor | 0,5 ... 4 mm ² / 20 ... 12 AWG |
| Fine-stranded conductor; with insulated ferrule | 0,25 ... 1,5 mm ² / 20 ... 16 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 0,25 ... 2,5 mm ² / 20 ... 14 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 1,5 mm ² / 16 AWG |
| Strip length | 9 mm / 0.35 inch |
| Note (strip length) | see also packaging or instructions |
| Pole No. | 3 |
| Total number of connection points | 6 |
| Total number of potentials | 3 |
| Ground function | with preceding ground contact |
| Connectable sheathed cable diameter | 8 ... 11,5 mm |
| Conductor entry direction to mating direction | 0° |
| Strip length (outer insulation) | 55 mm |

Geometrical Data

| | |
|-------------|----------------------|
| Pin spacing | 10 mm / 0.394 inch |
| Width | 34,6 mm / 1.362 inch |
| Height | 15 mm / 0.591 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 100, with resistive load $I_N = 25$ A, tested (4 mm ² /AWG 12) |
| Marking | L N |
| 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 | L N |
| Application | General mains applications |

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

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 | retrofittable |
| Strain relief | strain relief housing |

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 | 0.458 MJ |
| Strain relief color | black |
| Weight | 20 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 | 4044918254083 |
| Customs tariff number | 85366990990 |

Approvals / Certificates

Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|---------------------------------|--------------------------|------------------|
|  | CCA DEKRA Certification B.V. | EN 61535 | 2173495.02 |

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






VDE
VDE Prüf- und Zertifizierungsinstitut


EN 61535

40029808





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) |

UL-Approvals

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

Counterpart

| | | |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|  | Item no.770-103 Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-103 |
|  | Item no.770-203 Socket; 3-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-203 |
|  | Item no.770-203/035-000 Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-203/035-000 |
|  | Item no.770-606 T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black | www.wago.com/770-606 |

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

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Item no.770-608

5-way distribution connector; 3-pole; Cod. A; 1 input; 5 outputs; outputs on both sides; black

www.wago.com/770-608



Item no.770-607

3-way distribution connector; 3-pole; Cod. A; 1 input; 3 outputs; black

www.wago.com/770-607



Item no.770-611

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

www.wago.com/770-611



Item no.770-615

T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black

www.wago.com/770-615



Item no.770-634

h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black

www.wago.com/770-634



Item no.770-633

h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black

www.wago.com/770-633



Item no.770-635

h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; black

www.wago.com/770-635



Item no.770-636

h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; black

www.wago.com/770-636



Item no.770-637

Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; black

www.wago.com/770-637



Item no.770-638

Distribution connector for switches; Single-pole and throttle two-way circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; black

www.wago.com/770-638



Item no.770-640

Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 5 outputs; black

www.wago.com/770-640

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

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Item no. 770-703
Snap-in socket; 3-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-703



Item no. 770-703/009-000
Snap-in socket; with protruding mating face; 3-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-703/009-000



Item no. 770-803
Socket for PCBs; straight; 3-pole; Cod. A; black

www.wago.com/770-803



Item no. 770-803/011-000
Socket for PCBs; angled; 3-pole; Cod. A; black

www.wago.com/770-803/011-000



Item no. 771-9993/006-101
pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; black

www.wago.com/771-9993/006-101

Compatible products

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



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

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

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!

Coding



Item no.: 770-401

Coding pin; for plugs; Plastic; gray

www.wago.com/770-401

Downloads

Documentation

Bid Text

| | | | |
|-----------------------------|--------------|----------------|----------|
| 770-113 doc - Datei | Jun 8, 2015 | doc 24.1 kB | Download |
| 770-113 GAEB X81 - Datei | Feb 19, 2019 | xml 3.1 kB | Download |

CAD/CAE-Data

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 770-113 | URL | Download |
|----------------------|-----|----------|

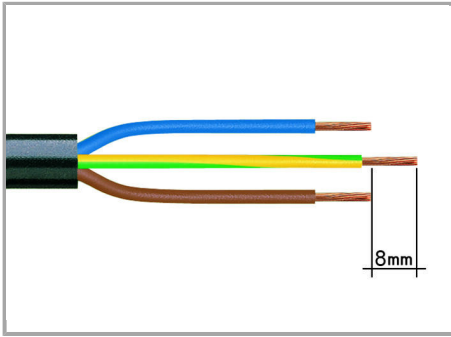
CAE data

| | | |
|---------------------------|-----|----------|
| EPLAN Data Portal 770-113 | URL | Download |
| WSCAD Universe 770-113 | URL | Download |

Handling Instructions

Conductor termination

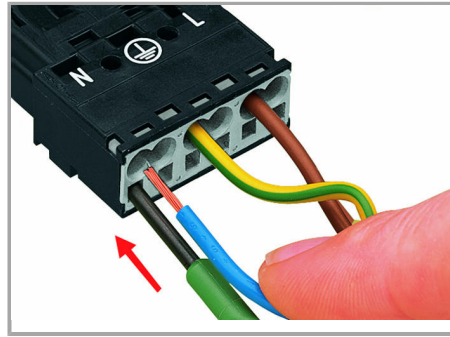
Subject to changes. Please also observe the further product documentation!



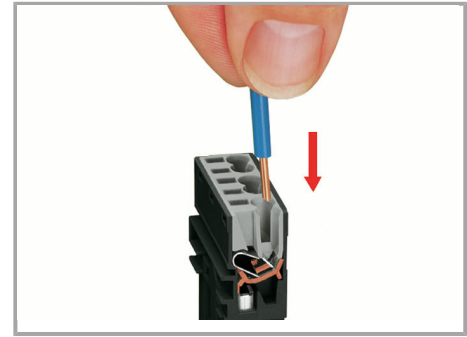
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

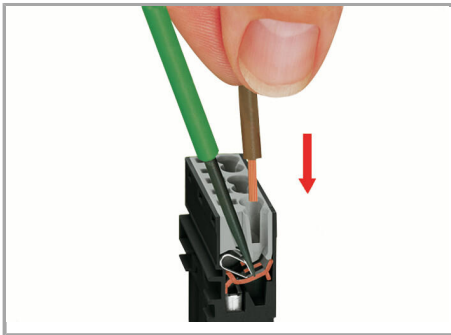
3. Extended ground conductor = 8 mm



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



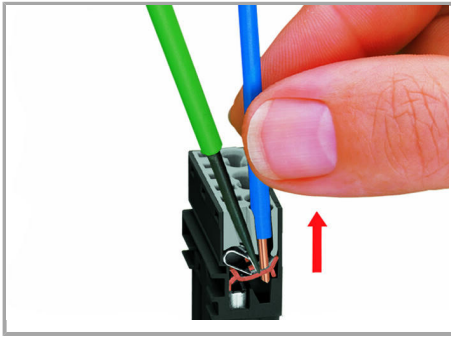
Insert stripped solid conductor until it hits backstop.



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

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

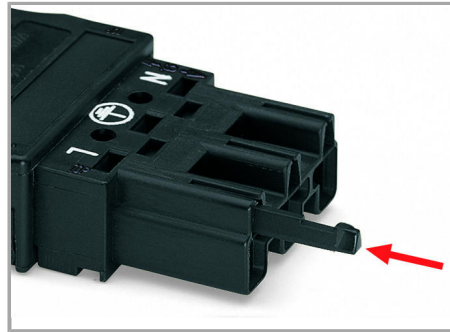


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

Coding

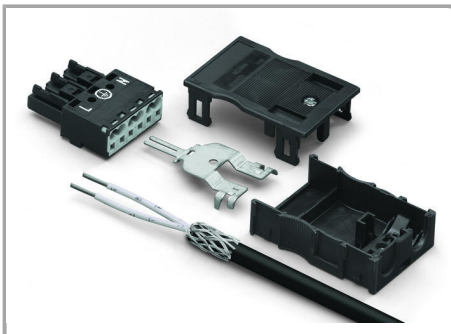


Simply cut off the coding pin from the socket.



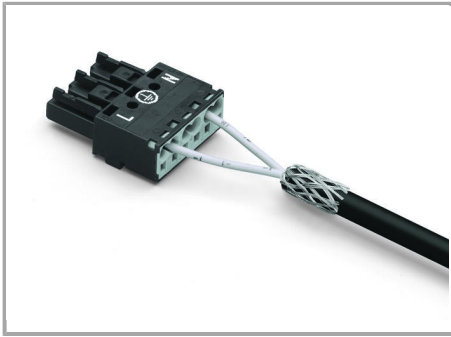
Insert coding pin into plug (break first) until it engages.

Shield Connection

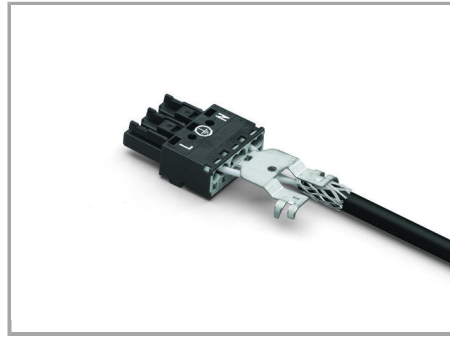


Connector with shield termination

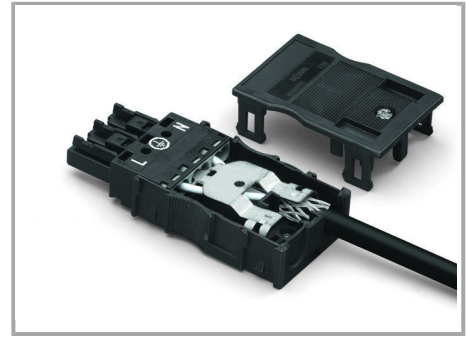
Subject to changes. Please also observe the further product documentation!



Apply the shield to the rubber cable.



Push the shield connecting plate into the connector until fully inserted.



First insert wired connector into strain relief housing, then snap cover and tighten screw.

Strip length, outer insulation = 55 mm

Shield length = 10 mm

Product family

WINSTA® MIDI

[Show all products from the family](#)

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