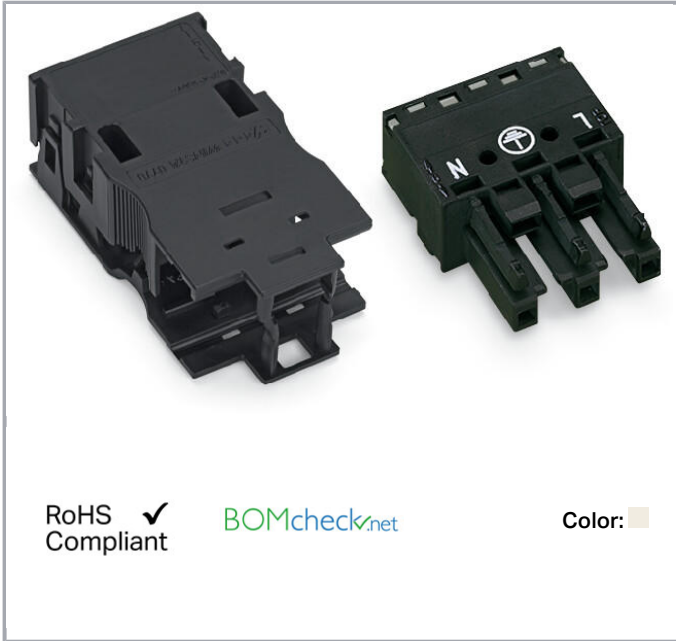


## Data sheet | Item number: 770-223/035-050

Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm<sup>2</sup>; white

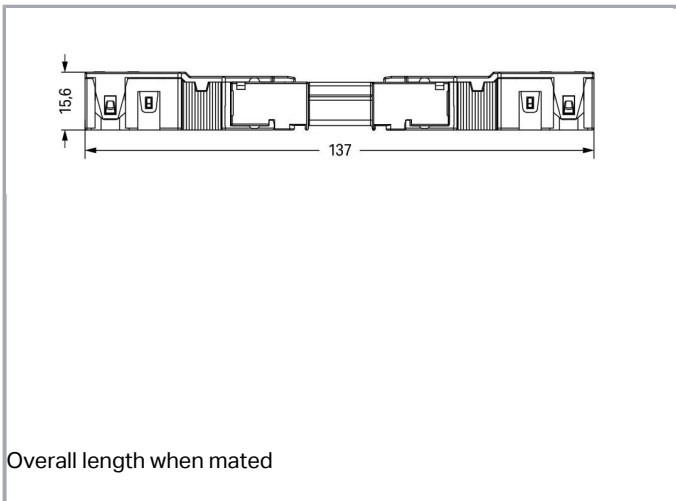
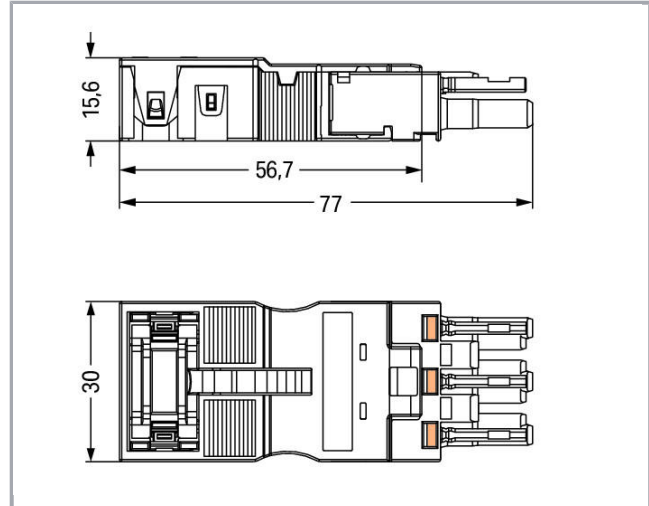
[www.wago.com/770-223/035-050](http://www.wago.com/770-223/035-050)



RoHS  
Compliant ✓

BOMcheck.net

Color:  



Overall length when mated

### 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

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

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- Two-wire connection per pole for loops or bridges
- Additional variable coding is possible

**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<sup>®</sup> 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
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 <sup>®</sup>
Actuation type	Operating tool Push-in
Nominal cross section	4 mm <sup>2</sup>
Solid conductor	0,5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG

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

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Solid conductor, push-in termination	1,5 ... 4 mm <sup>2</sup> / 16 ... 12 AWG
Stranded conductor	0,5 ... 2,5 mm <sup>2</sup> / 20 ... 14 AWG
Fine-stranded conductor	0,5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG
Fine-stranded conductor with ferrule with plastic collar	0,25 ... 1,5 mm <sup>2</sup> / 20 ... 16 AWG
Fine-stranded conductor with ferrule without plastic collar	0,25 ... 2,5 mm <sup>2</sup> / 20 ... 14 AWG
Fine-stranded conductor with ferrule, push-in termination, from	1,5 mm <sup>2</sup> / 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
Connectable sheathed cable diameter	7 ... 11,5 mm
Conductor entry direction to mating direction	0°
Strip length	48 mm

### Geometrical Data

Pin spacing	10 mm / 0.394 inch
Width	30 mm / 1.181 inch
Height	15,6 mm / 0.614 inch
Depth	77 mm / 3.031 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 <sup>2</sup> /AWG 12)
Marking	L N
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	L N
Application	General mains applications

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

Suitable

for quick assembly

## 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	retrofitable
Strain relief	strain relief housing, for quick assembly

## Material Data

Color	white
Insulating material	Polyamide 66 (PA 66)
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper or copper alloy (surface-treated)
Strain relief color	white
Weight	17.7 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

Packaging type	BOX
Country of origin	DE
GTIN	4055143369336
Customs Tariff No.	85366990990

## Counterpart



Item no. 770-133

Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm<sup>2</sup>; white[www.wago.com/770-133](http://www.wago.com/770-133)

Item no. 770-233

Plug; 3-pole; Cod. A; 4,00 mm<sup>2</sup>; white[www.wago.com/770-233](http://www.wago.com/770-233)

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

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**Item no. 770-6223**  
Linect® T-connector; 3-pole; Cod. A; 1 input; 2 outputs; white

[www.wago.com/770-6223](http://www.wago.com/770-6223)



**Item no. 770-233/002-000**  
Plug; with direct ground contact; 3-pole; Cod. A; 4,00 mm<sup>2</sup>; white

[www.wago.com/770-233/002-000](http://www.wago.com/770-233/002-000)



**Item no. 770-233/035-050**  
Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm<sup>2</sup>; white

[www.wago.com/770-233/035-050](http://www.wago.com/770-233/035-050)



**Item no. 770-656**  
T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white

[www.wago.com/770-656](http://www.wago.com/770-656)



**Item no. 770-657**  
3-way distribution connector; 3-pole; Cod. A; 1 input; 3 outputs; white

[www.wago.com/770-657](http://www.wago.com/770-657)



**Item no. 770-658**  
5-way distribution connector; 3-pole; Cod. A; 1 input; 5 outputs; white

[www.wago.com/770-658](http://www.wago.com/770-658)



**Item no. 770-665**  
T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white

[www.wago.com/770-665](http://www.wago.com/770-665)



**Item no. 770-683**  
h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on both sides; 2 locking levers; white

[www.wago.com/770-683](http://www.wago.com/770-683)



**Item no. 770-685**  
h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; white

[www.wago.com/770-685](http://www.wago.com/770-685)



**Item no. 770-684**  
h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white

[www.wago.com/770-684](http://www.wago.com/770-684)



**Item no. 770-686**  
h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white

[www.wago.com/770-686](http://www.wago.com/770-686)



**Item no. 770-687**  
Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; white

[www.wago.com/770-687](http://www.wago.com/770-687)

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



**Item no.770-688**

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

[www.wago.com/770-688](http://www.wago.com/770-688)



**Item no.770-733**

Snap-in plug; 3-pole; Cod. A; 4,00 mm<sup>2</sup>; white

[www.wago.com/770-733](http://www.wago.com/770-733)



**Item no.770-733/007-000**

Snap-in plug; with direct ground contact; 3-pole; Cod. A; 4,00 mm<sup>2</sup>; white

[www.wago.com/770-733/007-000](http://www.wago.com/770-733/007-000)



**Item no.770-833**

Plug for PCBs; straight; 3-pole; Cod. A; white

[www.wago.com/770-833](http://www.wago.com/770-833)



**Item no.770-833/011-000**

Plug for PCBs; angled; 3-pole; Cod. A; white

[www.wago.com/770-833/011-000](http://www.wago.com/770-833/011-000)



**Item no.771-9993/006-102**

pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; H05VV-F 3G 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; white

[www.wago.com/771-9993/006-102](http://www.wago.com/771-9993/006-102)

## 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](http://www.wago.com/210-719)



**Item no.: 770-383**

Operating tool; 3-way; green

[www.wago.com/770-383](http://www.wago.com/770-383)

### shield connection

**Item no.: 770-523**

Shield connecting plate; 3-pole; for sockets and plugs

[www.wago.com/770-523](http://www.wago.com/770-523)

### Marking accessories



**Item no.: 770-450**

Marker card; Plastic; white

[www.wago.com/770-450](http://www.wago.com/770-450)

**Item no.: 770-450/000-001**

Marker card; Plastic; white

[www.wago.com/770-450/000-001](http://www.wago.com/770-450/000-001)

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

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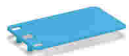
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Item no.: 770-450/000-002  
Marker card; Plastic; white

[www.wago.com/770-450/000-002](http://www.wago.com/770-450/000-002)

Item no.: 770-450/000-005  
Marker card; Plastic; white

[www.wago.com/770-450/000-005](http://www.wago.com/770-450/000-005)



Item no.: 770-450/000-006  
Marker card; Plastic; white

[www.wago.com/770-450/000-006](http://www.wago.com/770-450/000-006)



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

[www.wago.com/770-450/000-012](http://www.wago.com/770-450/000-012)

#### Locking lever



Item no.: 770-101  
Locking lever; for flying leads; for manual operation; black

[www.wago.com/770-101](http://www.wago.com/770-101)

Item no.: 770-111  
Locking lever; for flying leads; for tool operation; black

[www.wago.com/770-111](http://www.wago.com/770-111)

Item no.: 770-121  
Locking lever; for flying leads; for manual operation; white

[www.wago.com/770-121](http://www.wago.com/770-121)

Item no.: 770-131  
Locking lever; for flying leads; for tool operation; white

[www.wago.com/770-131](http://www.wago.com/770-131)

#### protection

Item no.: 770-201  
Lockout cap; 12-pole, separable; 12-pole; for sockets; black

[www.wago.com/770-201](http://www.wago.com/770-201)

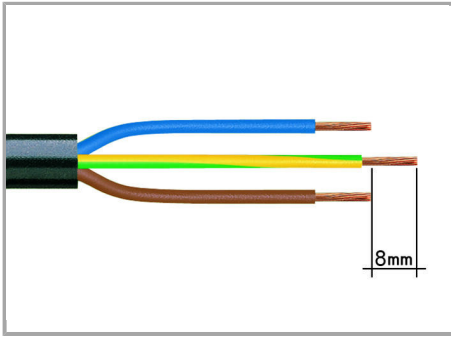
Item no.: 770-221  
Lockout cap; for socket; 12-pole; separable; white

[www.wago.com/770-221](http://www.wago.com/770-221)

## Installation Notes

### Conductor termination

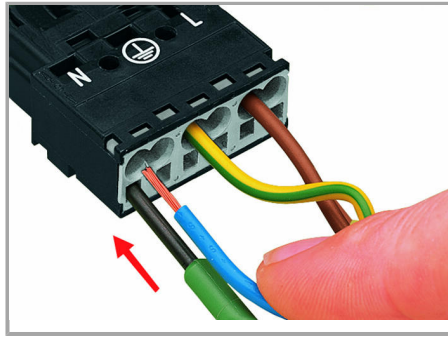
Subject to changes. Please also observe the further product documentation!



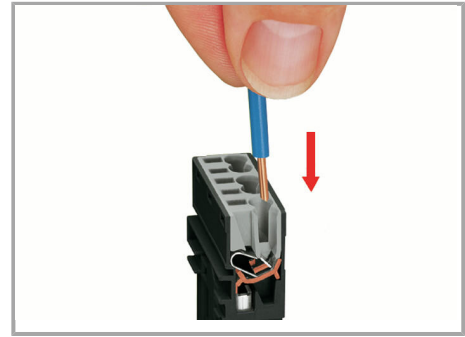
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

3. Extended ground conductor = 8 mm



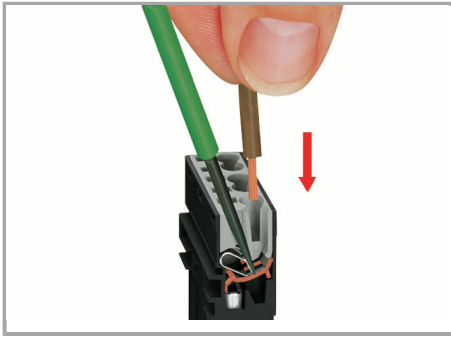
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert stripped conductor until it hits backstop.



Insert stripped solid conductor until it hits backstop.

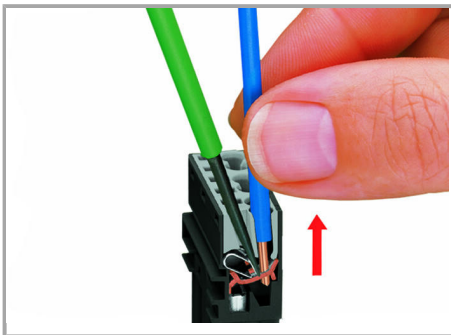
Subject to changes. Please also observe the further product documentation!





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



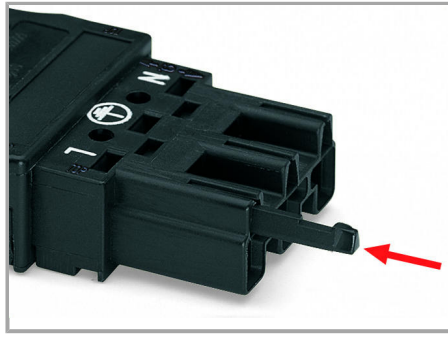
To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

#### Coding

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

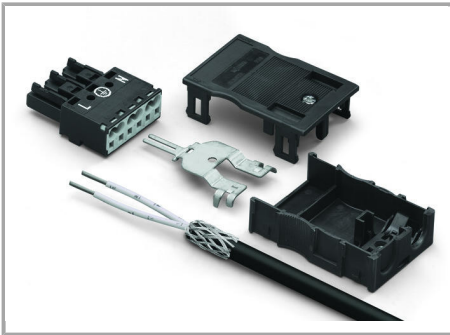


Simply cut off the coding pin from the socket.

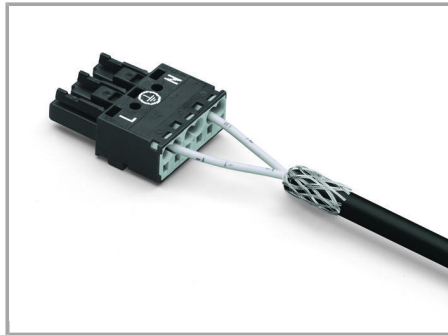


Insert coding pin into plug (break first) until it engages.

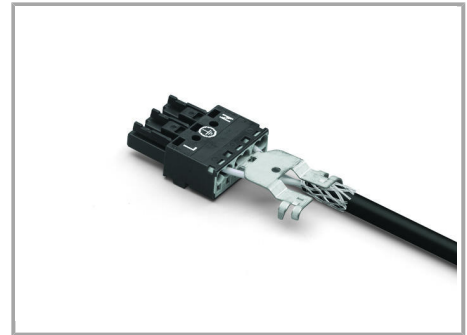
### Shield Connection



Connector with shield termination



Apply the shield to the rubber cable.

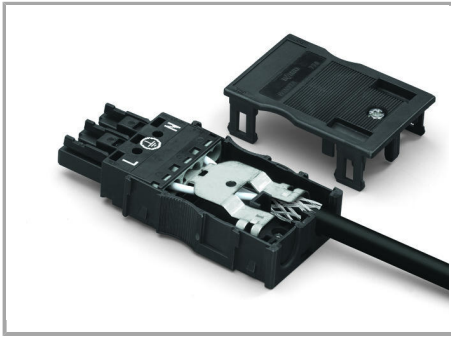


Push the shield connecting plate into the connector until fully inserted.

Strip length, outer insulation = 55 mm

Shield length = 10 mm

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



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

## Product family

*WINSTA*® MIDI

[Show all products from the family](#)

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