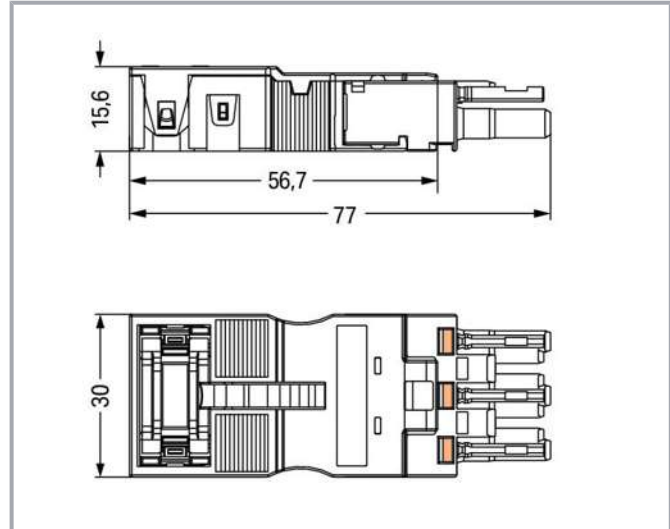
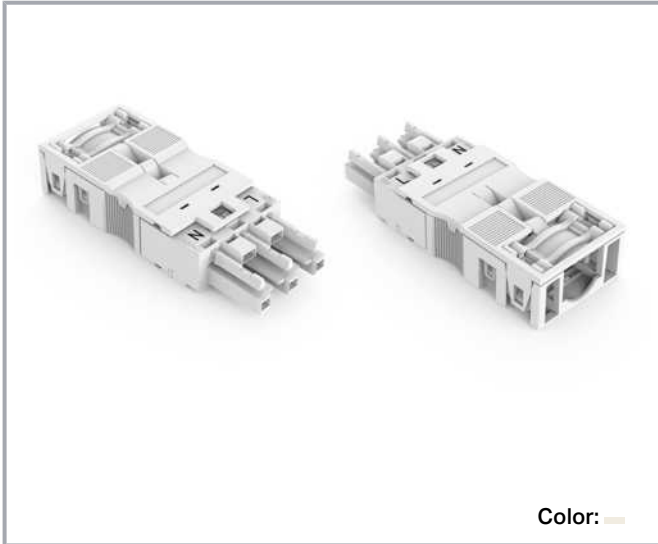


**Data sheet | Item number: 770-223/035-050**

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)



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

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Dimensions in mm

Overall length when mated

## Item description

### Female connector/socket *WINSTA*® MIDI with strain relief

For power and signal transmission: The *WINSTA*® MIDI female connector/socket 3-pole. Our pluggable installation connectors with spring pressure connection technology work entirely without screw connections. They allow fast, efficient, error-free installation in numerous applications.

The coding options reduce installation errors, allowing fast, secure wiring of all components. The pluggable installation connector offers touch-proof protection with live components in accordance with protection type IP20. General mains applications for almost any domain of use can be

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realised with *WINSTA*® MIDI pluggable installation connectors with A coding. Important parameters in the selection of a pluggable installation connector are the rated current and voltage: They tell us about the product's domains of use. This product has a current rating of 25 A – therefore it is also suitable for high power loads. Our *WINSTA*® MIDI product line allows maximum flexibility for the electrical installation. Through its Push-in CAGE CLAMP® spring pressure connection technology, it ensures time-saving, error-free installation and offers flexibility and customization for meeting an enormous variety of installation requirements. The strip length is 48 mm.

## Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

The *WINSTA*® Pluggable Connection System is perfectly tailored to the strict requirements of building installation. It makes electrical installation pluggable, and thus faster, even more reliable, and error-free. Use of this pre-assembled system decreases assembly times and installation errors at the construction site. Choose durability and quality – the *WINSTA*® MIDI pluggable installation connector with protection against mismating from WAGO makes the electrical installation of electrical components noticeably easier.

- pluggable installation connectors with protection against mismating
- simple circuits
- with A coding for use in a large number of general mains applications
- exact dimensions
- quick replacement of defective units during ongoing operation

## Data

### Electrical data

Note on contact resistance

approx. 1 mΩ of contact resistance

approx. 0.25 mΩ contact transition plug/socket

### IEC Approvals

Ratings per	IEC/EN 60664-1
Rated 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

### Ratings per UL

Hinweis für den amerikanischen Markt

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

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voltages up to 600 V. For further information, please contact your local sales office.

Rated voltage UL 1977	600 V
Rated current UL 1977	23 A

## Connection data

Total number of connection points	6
Total number of potentials	3

## Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	4 mm²
Solid conductor	0.5 ... 4 mm² / 20 ... 12 AWG
Solid conductor; push-in termination	1.5 ... 4 mm² / 16 ... 12 AWG
Stranded conductor	0.5 ... 2.5 mm² / 20 ... 14 AWG
Fine-stranded conductor	0.5 ... 4 mm² / 20 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm² / 20 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm² / 20 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1.5 mm² / 16 AWG
Strip length	9 mm / 0.35 inch
Number of poles	3
Connectable sheathed cable diameter	7 ... 11.5 mm
Conductor entry direction to mating direction	0°
Strip length (outer insulation)	48 mm

## Physical 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

Application	General mains applications
Coding	A
Marking	L N

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Potential Marking	L N
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
Protection class	IP20; When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)
Suitable	for quick assembly

### Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismating protection	Yes
Note on mismating protection	All WINSTA <sup>®</sup> components are 100% protected against mismating when: a.) plugging different numbers of poles b.) plugging while rotated 180 c.) plugging while laterally staggered d.) plugging one pole
Locking lever	Can be retrofitted
Locking of plug-in connection	locking lever
Hinweis zur Verriegelung	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).
Strain relief	Strain relief house, for quick assembly

### Material data

Color	white
Insulation material	Polyamide (PA66)
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper or copper alloy (surface-treated)
Fire load	0.406 MJ
Strain relief color	white
Weight	17.7 g

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## 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

PU (SPU)	25 Each
Packaging type	box
Country of origin	DE
GTIN	4055143369336
Customs tariff number	8536694040

## Counterpart



**Item no. 770-133**  
Plug; with strain relief housing; 3-pole; 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; 4,00 mm<sup>2</sup>; white

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



**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; 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; 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)

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



**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)



**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**

WINSTA® through-panel plug (male); snap-in; L/G/N marking; 3-pole; white

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



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

WINSTA® through-panel plug (male); snap-in; L/G/N marking; 3-pole; with direct ground contact; white

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

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

**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 mm²; 1 m; 1,50 mm²; white

[www.wago.com/771-9993/006-102](http://www.wago.com/771-9993/006-102)
**Required accessories****Locking levers**

Locking device

**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)
**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)
**Optional accessories****Tools**

Operating tool

**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)
**Marking accessories**

Marker

**Item no.: 770-450/000-002**

Marker card; Plastic; yellow

[www.wago.com/770-450/000-002](http://www.wago.com/770-450/000-002)
**Item no.: 770-450/000-001**

Marker card; Plastic; green

[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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Item no.: 770-450/000-005

Marker card; Plastic; red

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

Item no.: 770-450

Marker card; Plastic; white

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

Item no.: 770-450/000-006

Marker card; Plastic; blue

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

Item no.: 770-450/000-012

Marker card; Plastic; orange

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

## Shield termination

Shield termination



Item no.: 770-523

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

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

## Downloads

### Documentation

#### Bid Text

770-223/035-050 doc - Datei	2018 Dec 14	doc 24.1 kB	Download
770-223/035-050 X81 - Datei	2019 Feb 19	xml 3.2 kB	Download

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 770-223/035-050 Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	URL	Download
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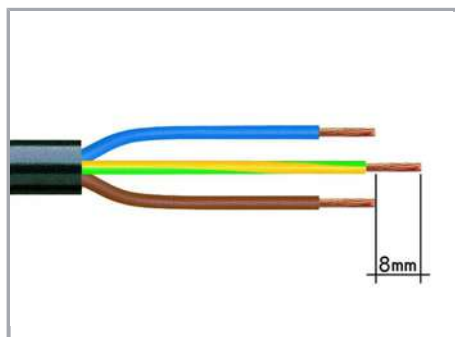
## Installation Notes

### Conductor termination

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

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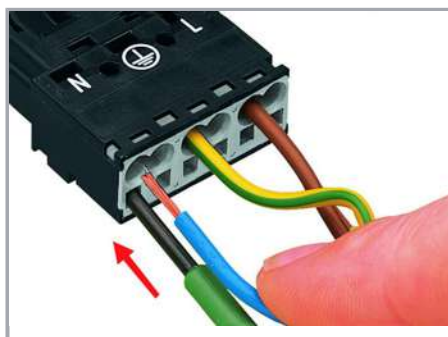
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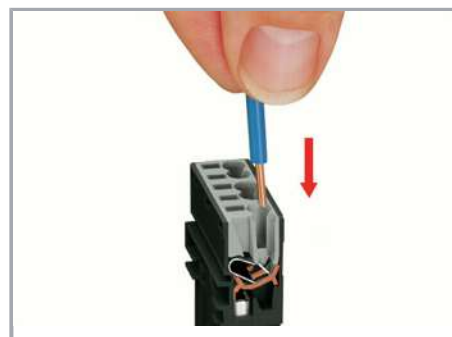
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

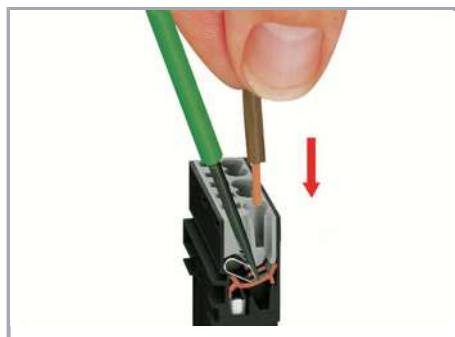
3. Extended ground conductor = 8 mm



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



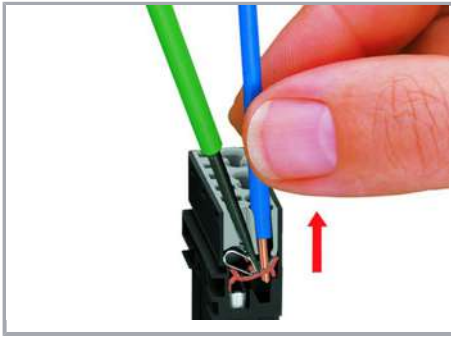
Insert the stripped solid conductor until it hits the backstop.



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

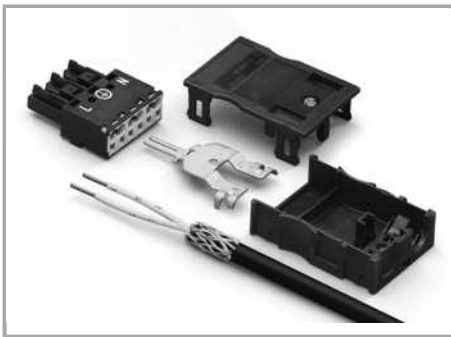


Simply cut off the coding pin from the socket.



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

### Shield termination



Connector with shield termination

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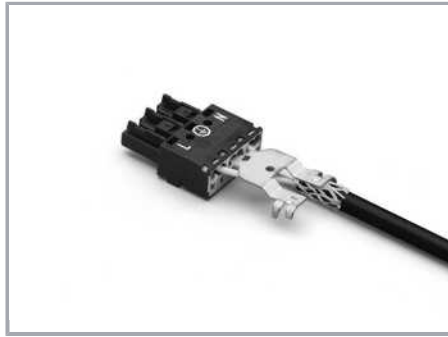
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Apply the shield to the sheathed cable.

Strip length, outer insulation = 55 mm

Shield length = 10 mm



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



First insert the wired connector into a 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!

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