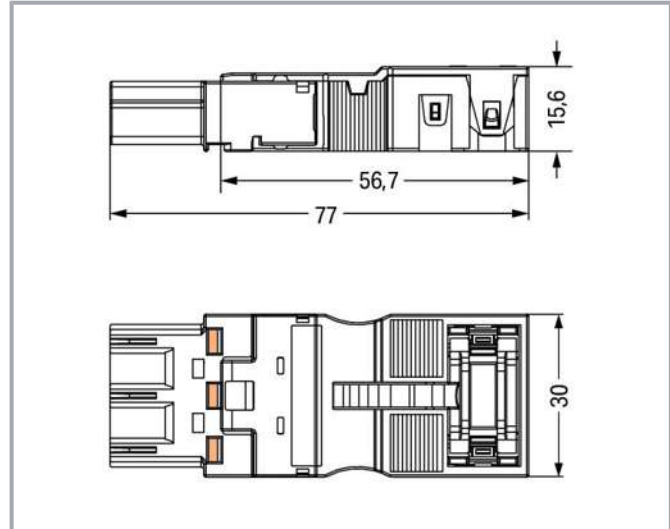


**Data sheet | Item number: 770-233/035-050**

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)



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Dimensions in mm

Overall length when mated

## Item description

### Male connector/plug *WINSTA*® MIDI rated current 25 A

The *WINSTA*® MIDI male connector/plug 3-pole provides the foundation for assembly of fine-stranded and solid conductors. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to an enormous variety of requirements in next to no time.

For greater security in electrical installations, the pluggable installation connector is provided with mechanical protection against mismating. The

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pluggable installation connector is protected in accordance with protection type IP20. That results in the fact that users' fingers will never come into contact with live elements. Thanks to the color coding and mechanical A coding of *WINSTA*® MIDI pluggable installation connectors, you can clearly distinguish different circuits. This pluggable installation connector is designed for a current load of up to 25 A. Thus, it can also be used for high power loads. *WINSTA*® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in a broad range of individual products you can use for quick, easy and maximally flexible electrical installation. 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 very strict requirements of building installation. It makes electrical installation pluggable, and consequently faster, even more reliable, and error-free. Use of this pre-assembled system reduces assembly times and installation errors at the construction site. Now you can also lower installation expenses without compromising safety and quality: The *WINSTA*® MIDI pluggable installation connector with marking reduces the need for servicing and prevents unnecessary downtime.

- effective protection against mismatching
- pre-assembled versions
- with A coding for a great number of applications
- custom-engineered solutions
- convenient installation and commissioning

## 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
Ground function	preceding ground contact

## 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

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Marking	L N
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)	Male connector/plug
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	0.439 MJ
Strain relief color	white
Weight	18.1 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 $\leq 105$ °C

## Commercial data

PU (SPU)	25 Each
Packaging type	box
Country of origin	DE
GTIN	4055143369329
Customs tariff number	85366990990

## Counterpart

	<b>Item no.770-123</b> Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/770-123">www.wago.com/770-123</a>
	<b>Item no.770-223</b> Socket; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/770-223">www.wago.com/770-223</a>
	<b>Item no.770-223/035-050</b> Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/770-223/035-050">www.wago.com/770-223/035-050</a>
	<b>Item no.770-6223</b> Linect® T-connector; 3-pole; Cod. A; 1 input; 2 outputs; white	<a href="http://www.wago.com/770-6223">www.wago.com/770-6223</a>
	<b>Item no.770-656</b> T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white	<a href="http://www.wago.com/770-656">www.wago.com/770-656</a>
	<b>Item no.770-657</b> 3-way distribution connector; 3-pole; Cod. A; 1 input; 3 outputs; white	<a href="http://www.wago.com/770-657">www.wago.com/770-657</a>
	<b>Item no.770-658</b> 5-way distribution connector; 3-pole; Cod. A; 1 input; 5 outputs; white	<a href="http://www.wago.com/770-658">www.wago.com/770-658</a>
	<b>Item no.770-661</b> 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; white	<a href="http://www.wago.com/770-661">www.wago.com/770-661</a>

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

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**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.770-684**

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.770-685**

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.770-686**

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.770-690**

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

[www.wago.com/770-690](http://www.wago.com/770-690)**Item no.770-723**

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

[www.wago.com/770-723](http://www.wago.com/770-723)**Item no.770-723/009-000**

WINSTA® through-panel socket (female); snap-in; with protruding mating face; L/G/N marking; 3-pole; white

[www.wago.com/770-723/009-000](http://www.wago.com/770-723/009-000)**Item no.770-823**

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

[www.wago.com/770-823](http://www.wago.com/770-823)**Item no.770-823/011-000**

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

[www.wago.com/770-823/011-000](http://www.wago.com/770-823/011-000)

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

## 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)

### 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)

### Coding

Coding



**Item no.: 770-401**

Coding pin; for plugs; Plastic; gray

[www.wago.com/770-401](http://www.wago.com/770-401)

### 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)

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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)

## Downloads Documentation

### Bid Text

770-233/035-050 X81 - Datei	2019 Feb 19	xml 3.2 kB	Download
770-233/035-050 doc - Datei	2018 Dec 14	doc 24.6 kB	Download

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 770-233/035-050 Plug; with strain relief housing; 3-pole; 4,00 mm²; white	URL	Download
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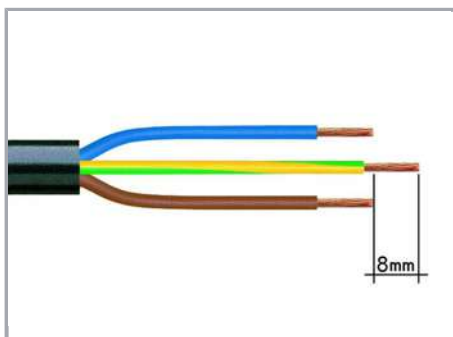
## Installation Notes

### Conductor termination

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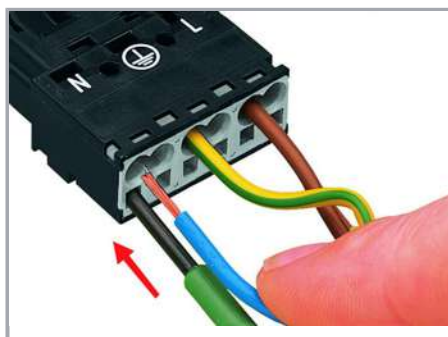
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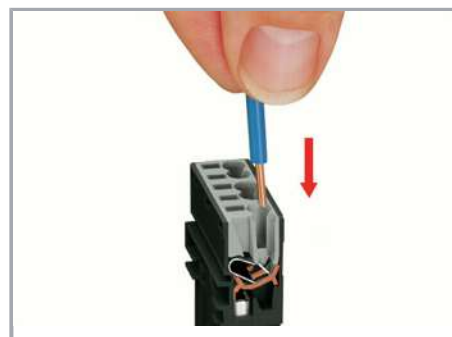
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

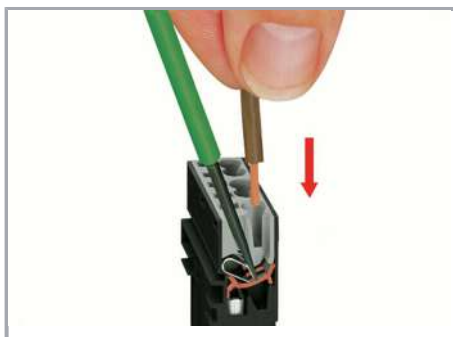
3. Extended ground conductor = 8 mm



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.



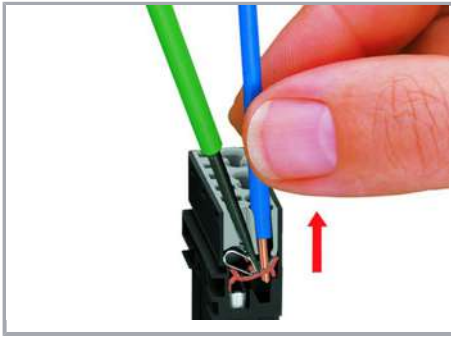
Insert the stripped solid conductor until it hits the backstop.



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

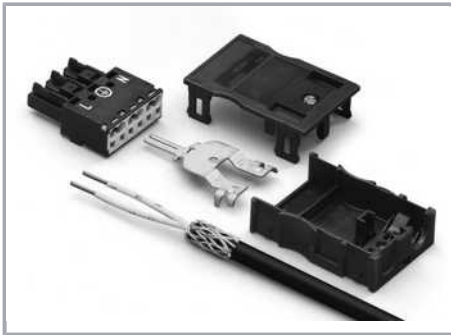


Simply cut off the coding pin from the socket.



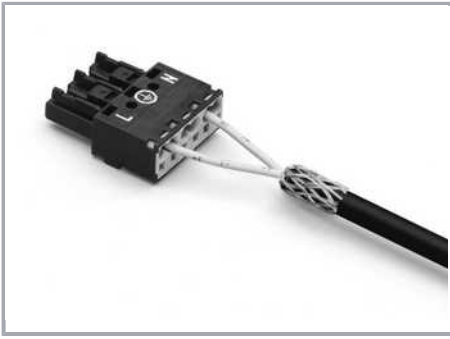
Insert coding pin into plug (break first) until it engages.

#### Shield termination



Connector with shield termination

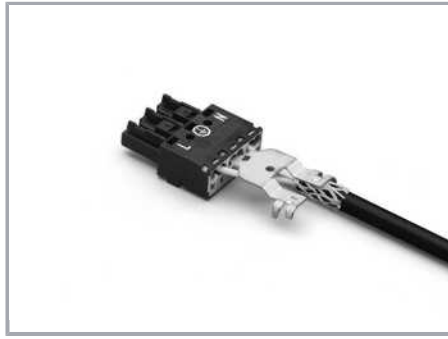
Subject to changes. Please also observe the further product documentation!



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](#)

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