

## Item description

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

The *WINSTA*® MIDI male connector/plug rated current 25 A supports rapid, correct installation. WAGO pluggable installation connectors can be used when requirements repeat or are planned on a specified grid, for example for installing grid lighting or flush-mount lighting. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. The pluggable installation connector offers protection against contact with live components in accordance with protection type IP20 (When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). Solutions like the *WINSTA*® MIDI pluggable installation connectors with B coding are suitable for process control, for example, for lighting or within data networks. This pluggable installation connector is used for electrical currents up to 25 A. Thus the product is ideally suitable for high power loads. *WINSTA*® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is found in a broad range of individual products you can use for quick, easy and maximally flexible electrical installation.

### *WINSTA*® MIDI solutions for your electrical installation – protected against mismatching and maintenance-free

*WINSTA*® is the pluggable connection system that is ideally tailored to the strict requirements of electrical installation. It offers fast, secure and, above all, error-free installation of components and cables. Choose quality and durability – with protection against mismatching from WAGO makes the electrical installation of electrical components noticeably easier.



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



- pluggable installation connectors with protection against mismatching
- simple circuits
- with B coding for use in process automation, such as lighting technology
- exact dimensions
- quick replacement of defective units during ongoing operation

## Data

### Notes

Variants:

Other pole markings

Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

## Electrical data

### Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal 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

### Ratings per UL 1977

Note for the US market

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.

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

## General information

Note on contact resistance

approx. 1 mΩ of contact resistance  
approx. 0.25 mΩ contact transition plug/socket

## Connection data

Connection points	4
Total number of potentials	2

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

WAGO GmbH & Co. KG

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## Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	4 mm <sup>2</sup> / 12 AWG
Solid conductor	0.5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG
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 insulated ferrule	0.25 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm <sup>2</sup> / 20 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1.5 mm <sup>2</sup> / 16 AWG
Strip length	9 mm / 0.35 inches
Pole number	2
Conductor entry direction to mating direction	0°

## Physical data

Pin spacing	10 mm / 0.394 inches
Width	20 mm / 0.787 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches

## Mechanical Data

Application	Control technology
Coding	B
Variable coding	No
Marking	2 1
Potential marking	2 1
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 type	IP20; When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)

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



## 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
Note on locking system	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).

## Material data

Note (material data)	Information on material specifications can be found here
Color	light green
Cover color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.14 MJ
Weight	6.1 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

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## Commercial data




Product Group	20 (Winsta)
eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 8.0	EC002560
ETIM 7.0	EC002560
ECCN	NO DATA
PU (SPU)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821541899
Customs tariff number	85366990990

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	IEC 61984	NL-32104
	<b>CCA</b> DEKRA Certification B.V.	EN 61984	2173495.01
	<b>cURus</b> Underwriters Laboratories Inc.	UL 1977	E45171
	<b>cURus</b> Underwriters Laboratories Inc.	UL 1059	E 45172

## Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

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UK-Declaration of Conformity  
WAGO GmbH & Co. KG

### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	-	19- HG1868589- PDA
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	<b>LR</b> Lloyds Register	IEC 61984	LR22429487TA






### Counterpart

	<b>Item no.770-1602</b> T-distribution connector; 2-pole; Cod. B; 1 input; 2 outputs; 2 locking levers; light green	<a href="http://www.wago.com/770-1602">www.wago.com/770-1602</a>
	<b>Item no.770-1609</b> h-distribution connector; 2-pole; Cod. B; 1 input; 2 outputs; outputs on both sides; 2 locking levers; light green	<a href="http://www.wago.com/770-1609">www.wago.com/770-1609</a>
	<b>Item no.770-1652</b> h-distribution connector; 2-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 2 locking levers; light green	<a href="http://www.wago.com/770-1652">www.wago.com/770-1652</a>
	<b>Item no.770-1702</b> T-distribution connector; 2-pole; Cod. B; 1 input; 2 outputs; 3 locking levers; for flying leads; light green	<a href="http://www.wago.com/770-1702">www.wago.com/770-1702</a>
	<b>Item no.770-1659</b> h-distribution connector; 2-pole; Cod. B; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; light green	<a href="http://www.wago.com/770-1659">www.wago.com/770-1659</a>

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	<p><b>Item no.770-1752</b> h-distribution connector; 2-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; light green</p>	<a href="http://www.wago.com/770-1752">www.wago.com/770-1752</a>
	<p><b>Item no.770-1705</b> 3-way distribution connector; 2-pole; Cod. B; 1 input; 3 outputs; light green</p>	<a href="http://www.wago.com/770-1705">www.wago.com/770-1705</a>
	<p><b>Item no.771-8992/005-105</b> pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. B; Control cable 2 x 1.0 mm<sup>2</sup>; 1 m; 1,00 mm<sup>2</sup>; light green</p>	<a href="http://www.wago.com/771-8992/005-105">www.wago.com/771-8992/005-105</a>
	<p><b>Item no.770-262</b> Socket; 2-pole; Cod. B; 4,00 mm<sup>2</sup>; light green</p>	<a href="http://www.wago.com/770-262">www.wago.com/770-262</a>
	<p><b>Item no.771-8992/105-105</b> pre-assembled connecting cable; Eca; Socket/open-ended; 2-pole; Cod. B; Control cable 2 x 1.0 mm<sup>2</sup>; 1 m; 1,00 mm<sup>2</sup>; light green</p>	<a href="http://www.wago.com/771-8992/105-105">www.wago.com/771-8992/105-105</a>

## Required accessories



### Locking levers

#### Locking system

	<p><b>Item no.: 770-121</b> Locking lever; for flying leads; for manual operation; white</p>	<a href="http://www.wago.com/770-121">www.wago.com/770-121</a>
	<p><b>Item no.: 770-131</b> Locking lever; for flying leads; for tool operation; white</p>	<a href="http://www.wago.com/770-131">www.wago.com/770-131</a>
	<p><b>Item no.: 770-101</b> Locking lever; for flying leads; for manual operation; black</p>	<a href="http://www.wago.com/770-101">www.wago.com/770-101</a>
	<p><b>Item no.: 770-111</b> Locking lever; for flying leads; for tool operation; black</p>	<a href="http://www.wago.com/770-111">www.wago.com/770-111</a>

### Strain relief

#### Strain relief housing

	<p><b>Item no.: 770-502/041-000</b> Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 ... 10.5 mm; 35 mm; black</p>	<a href="http://www.wago.com/770-502/041-000">www.wago.com/770-502/041-000</a>
	<p><b>Item no.: 770-502/042-000</b> Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 ... 9.0 mm; 35 mm; black</p>	<a href="http://www.wago.com/770-502/042-000">www.wago.com/770-502/042-000</a>

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



Item no.: 770-512/041-000

Strain relief housing; 2-pole; with locking clip; for 1 cable; 7.0 ... 10.5 mm; 35 mm; white

[www.wago.com/770-512/041-000](http://www.wago.com/770-512/041-000)



Item no.: 770-512/042-000

Strain relief housing; 2-pole; with locking clip; for 1 cable; 5.0 ... 9.0 mm; 35 mm; white

[www.wago.com/770-512/042-000](http://www.wago.com/770-512/042-000)

## Optional accessories

### Cover

#### Cover



Item no.: 770-360

Lockout cap; for plugs; 5-pole; separable; yellow

[www.wago.com/770-360](http://www.wago.com/770-360)



Item no.: 897-2003

Protective cap; Type2; for sockets and plugs; PVC; red

[www.wago.com/897-2003](http://www.wago.com/897-2003)

### Tool

#### 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)



Item no.: 770-382

Operating tool; 2-way; green

[www.wago.com/770-382](http://www.wago.com/770-382)

### Mounting

#### Mounting accessories



Item no.: 770-317

Snap-in frame; 2-pole; 1.0 ... 3.0 mm; black

[www.wago.com/770-317](http://www.wago.com/770-317)



Item no.: 770-337

Snap-in frame; 2-pole; 1.0 ... 3.0 mm; white

[www.wago.com/770-337](http://www.wago.com/770-337)



Item no.: 897-2100

Mounting plate; for Snap-in; Plastic; for detectors and sensors ; Ø 200 mm; red

[www.wago.com/897-2100](http://www.wago.com/897-2100)

## Downloads

### Documentation

#### Bid Text

770-272

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770-272 X81 - Datei	2019 Feb 19	xml 3.0 kB	Download
770-272 doc - Datei	2015 Jun 8	doc 24.1 kB	Download

### CAD/CAE-Data

#### CAD data

2D/3D Models 770-272		URL	Download
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#### CAE data

EPLAN Data Portal 770-272		URL	Download
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WSCAD Universe 770-272		URL	Download
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ZUKEN Portal 770-272		URL	Download
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#### Asset Administration Shell

Asset Administration Shell 770-272		URL	Download
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### Environmental Product Compliance

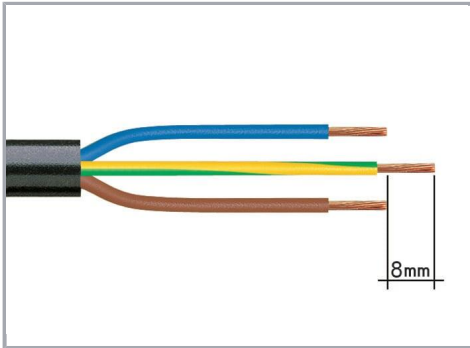
#### Compliance Search

Environmental Product Compliance 770-272 Plug; 2-pole; Cod. B; 4,00 mm <sup>2</sup> ; light green		URL	Download
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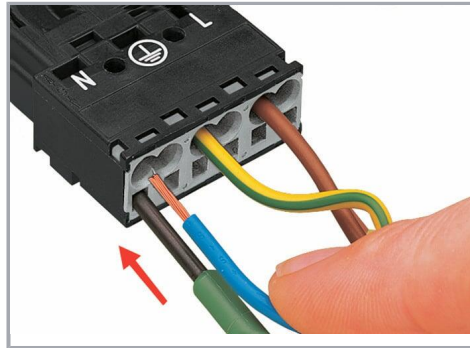
### Installation Notes

#### Conductor termination

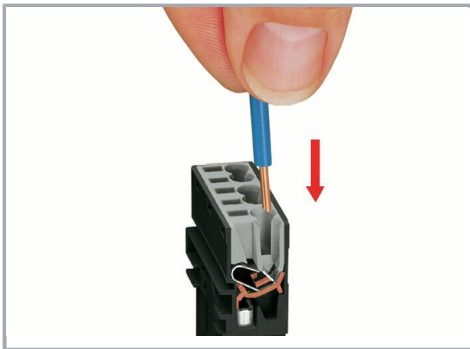
Subject to changes. Please also observe the further product documentation!



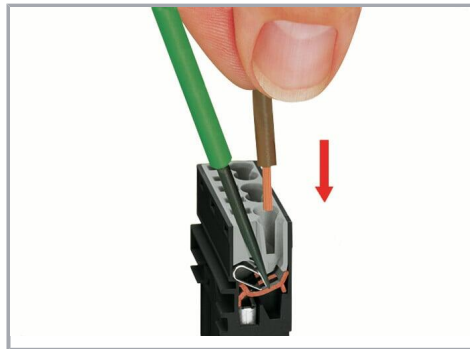
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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

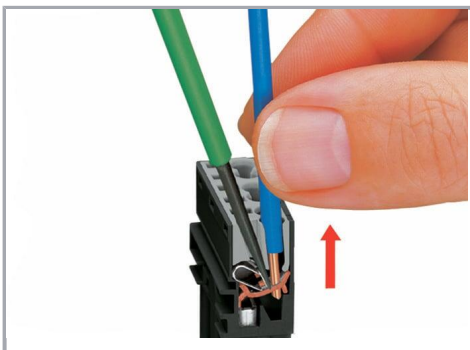


Insert the stripped solid conductor until it hits the backstop.



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.

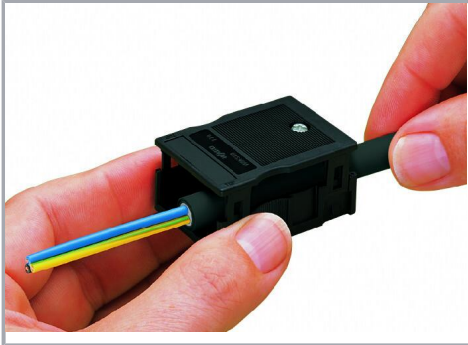
#### Conductor removal



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

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

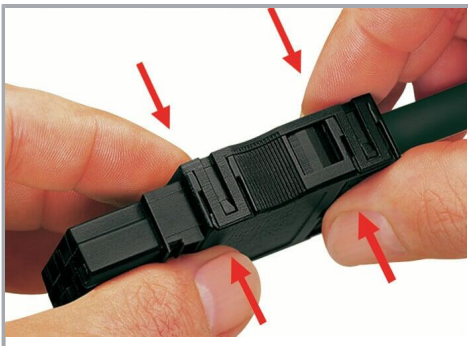
### Installation



We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



Latch the strain relief housing onto the plug /socket. Note the "TOP" inscription.



Prepare strain relief housing by snapping together upper and bottom part.

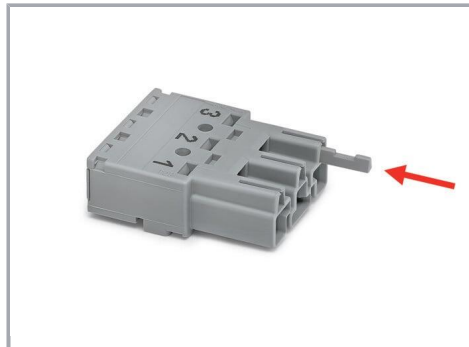


Tighten strain relief screw with screwdriver (2.5 mm blade width).

### Coding



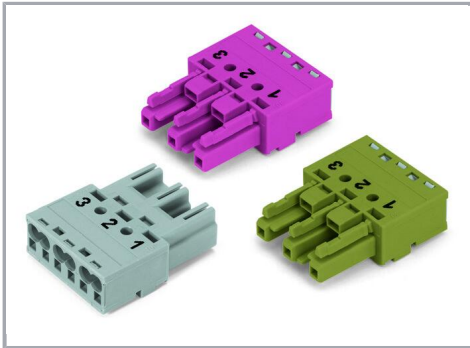
Simply cut off the coding pin from the socket.



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

### Mismatching protection

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

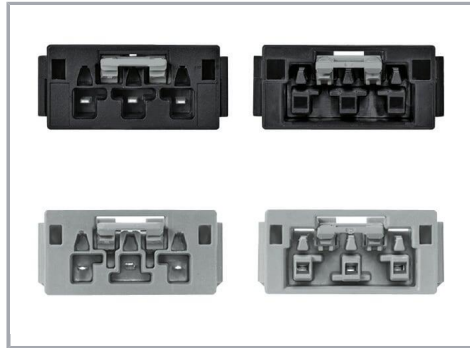


B-coded connectors with different colors can be plugged together.

**Important note:**

Different colors and/or pole markings are used for circuit identification.

Only connectors of the same color and same pole marking must be plugged together.



B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.



Easy circuit identification via different marking and colors

## Product family

**WINSTA® MIDI**

[Show all products from the family](#)

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