

## Item description

### Male connector/plug **WINSTA®** MIDI with protection against mismatching

Use effective pluggable connections instead of laborious screw connections: With the **WINSTA®** MIDI male connector/plug with protection against mismatching. Our pluggable installation connectors with spring pressure connection technology work entirely without screw connections. They allow

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

WAGO Corporation  
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resource-efficient, error-free installation in numerous applications.

The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector is protected against ingress by solid objects in accordance with protection type IP20. Pluggable installation connectors with B coding from the *WINSTA*® MIDI line are available in grey, light grey, or pink, allowing you to distinguish different circuits, for example for pumps, lighting, or sun blinds. Your own pole marking is possible as well. 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 used in can be found in a variety of projects you can use for quick, easy and maximally flexible electrical installation.

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

*WINSTA*® is the pluggable connection system that is perfectly 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 – the *WINSTA*® MIDI pluggable installation connector with protection type IP20 from WAGO makes the electrical installation of electrical components noticeably easier.

- protection against mismatching eliminates errors
- for automation controllers
- with B coding for use in automation of processes, such as lighting technology, among other examples
- exact dimensions
- 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
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### 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
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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

## Connection data

### 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
Conductor entry direction to mating direction	0°

## Physical data

Height	12.9 mm / 0.508 inch
Depth	37.5 mm / 1.476 inch

## Mechanical data

Application	Measurement and regulation technology
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!)

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## Plug-in connection

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
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).

## Material data

Color	light turquoise
Insulation material	Polyamide (PA66)
Contact material	Copper or copper alloy (surface-treated)
Fire load	0.035 MJ
Weight	10 g

## Environmental requirements

Note on continuous operating temperature	Insulating parts for temperatures $\leq 105^{\circ}\text{C}$
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## Commercial data

PU (SPU)	100 Stück
Packaging type	box

## Approvals / Certificates

### Ship Approvals




Logo	Approval	Additional Approval Text	Certificate name
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6

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## Counterpart




	<b>Item no. 770-1243/076-000</b> Socket; 3-pole; Cod. B; 4,00 mm <sup>2</sup> ; light turquoise	<a href="http://www.wago.com/770-1243/076-000">www.wago.com/770-1243/076-000</a>
	<b>Item no. 770-974/076-000</b> Distributor for status queries; 2-pole/3-pole; Cod. B; 1 input; 2 outputs; 3-pole output for status queries; light turquoise	<a href="http://www.wago.com/770-974/076-000">www.wago.com/770-974/076-000</a>
	<b>Item no. 770-977/076-000</b> Distributor for status queries; 2-pole/3-pole; Cod. B; 1 input; 2 outputs; 3-pole output for status queries; 3 locking levers; light turquoise	<a href="http://www.wago.com/770-977/076-000">www.wago.com/770-977/076-000</a>

## Required accessories

### Locking levers

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

### Strain relief

Strain relief housing		
	<b>Item no.: 770-503</b> Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black	<a href="http://www.wago.com/770-503">www.wago.com/770-503</a>
	<b>Item no.: 770-503/023-000</b> Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm; black	<a href="http://www.wago.com/770-503/023-000">www.wago.com/770-503/023-000</a>
	<b>Item no.: 770-513</b> Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white	<a href="http://www.wago.com/770-513">www.wago.com/770-513</a>
	<b>Item no.: 770-513/023-000</b> Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm; white	<a href="http://www.wago.com/770-513/023-000">www.wago.com/770-513/023-000</a>

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

## Optional accessories

### Mounting

Snap-in frame



**Item no.: 770-318**

Snap-in frame; 3-pole; 1.0 ... 3.0 mm; black

[www.wago.com/770-318](http://www.wago.com/770-318)



**Item no.: 770-338**

Snap-in frame; 3-pole; 1.0 ... 3.0 mm; white

[www.wago.com/770-338](http://www.wago.com/770-338)

### Coding

Coding



**Item no.: 770-401**

Coding pin; for plugs; Plastic; gray

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

### 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)



**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)

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



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)

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## 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)

## Downloads

### Documentation

#### Bid Text

770-1253/076-000	2018 Sep 25	doc	Download
doc - Datei		24.6 kB	
770-1253/076-000	2019 Feb 19	xml	Download
X81 - Datei		3.2 kB	

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 770-1253/076-000	URL	Download
Plug; 3-pole; 4,00 mm <sup>2</sup> ; light turquoise		

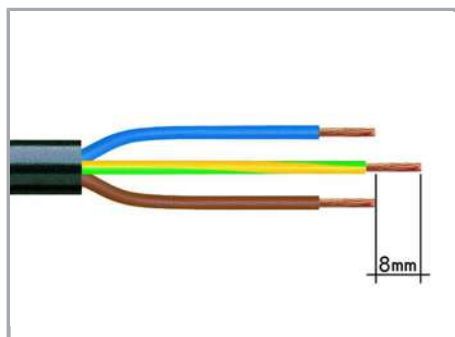
## Installation Notes

### Conductor termination

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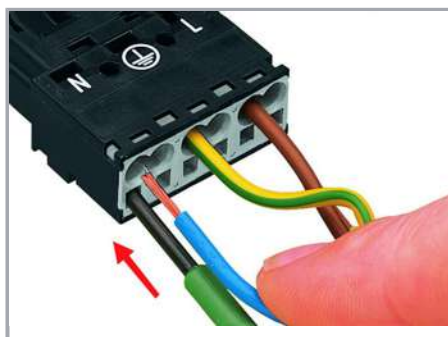
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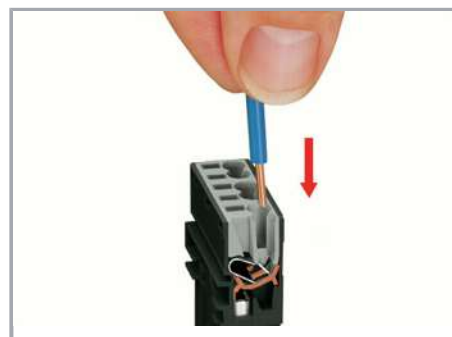
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

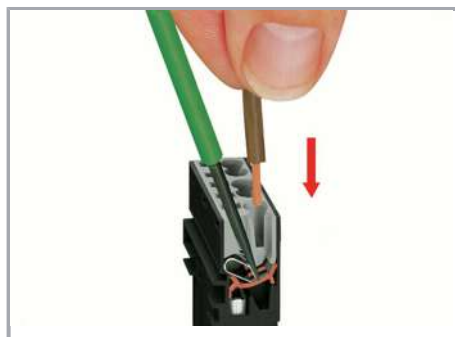
3. Extended ground conductor = 8 mm



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.

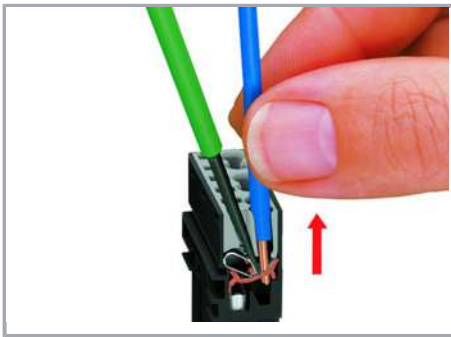


To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

#### Conductor removal

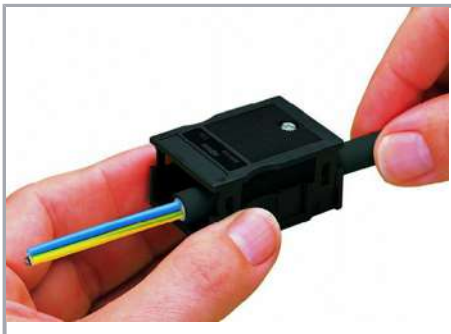
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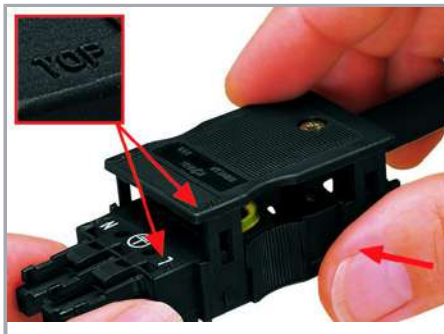


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

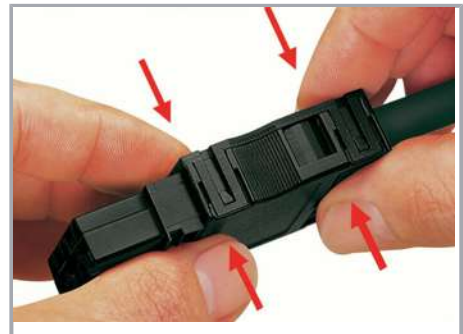
#### Installation



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.



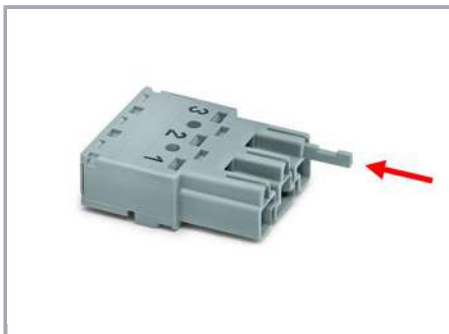
Tighten strain relief screw with screwdriver (2.5 mm blade width).

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## Coding



Simply cut off the coding pin from the socket.



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

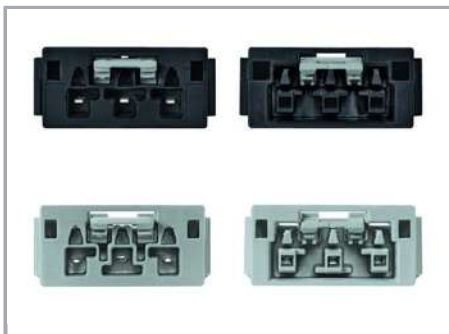
## Mismating protection



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](#)

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