

### Item description

Distribution connector **WINSTA®** MIDI with protection type IP20

The **WINSTA®** MIDI distribution connector rated current 25 A supports rapid, correct installation. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to various requirements in seconds. 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 is protected against ingress by solid objects in accordance with protection type IP20 (When mated: 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 appropriate for applications related to process control, for example, for lighting or in data networks. This pluggable installation connector can be used for electrical currents up to 25 A. Thus the product is especially suitable for high power loads. The **WINSTA®** MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates safe electrification. Thanks to the built-in test slot, it is possible to check connections even when they are plugged in. This saves time, labor, and money.

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

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

The WINSTA® Pluggable Connection System is ideally tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and consequently more efficient, even more reliable, and error-free. Using this pre-assembled system decreases assembly times and installation errors at the construction site. Choose durability and quality – with marking from WAGO makes the installation of electrical components substantially easier.

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- effective protection against mismatching
- simple circuits
- with B coding for use in automation of processes, such as lighting technology, among other examples
- custom-engineered solutions
- 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)	400 V
Rated impulse voltage (III/3)	6 kV
Rated current	25 A
Legend (ratings)	(III / 3) $\triangleq$ Overvoltage category III / Pollution degree 3

#### Ratings per IEC/EN – Notes

Note (rated current)	25 A for 3-pole load 20 A for 4-pole load
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#### Ratings per UL 1977

Note for the US market	Some versions may also be used for current interruption in
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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
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## Connection data

Total number of potentials	4
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## Connection 1

Pole number	4
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## Physical data

Pin spacing	10 mm / 0.394 inches
Width	44 mm / 1.732 inches
Height	35.9 mm / 1.413 inches
Depth	48.9 mm / 1.925 inches

## Mechanical Data

Application	Control technology
Coding	B
Marking	1 2 3 4
Potential marking	1 2 3 4
Mating force of a plug-in connection	approx. 20 ... 70 N (depending on pole number)
Retention force of a plug-in connection	When 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
Type of distribution box	T-distribution connector
Protection type	IP20; When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)

## Plug-in connection

Contact type (pluggable connector)	Socket/plug
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Subject to changes. Please also observe the further product documentation!

Mismating protection	Yes
Note on mismating protection	All WINSTA® 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	yes
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).
Number of locking levers	

## Material data

### Note (material data)

Information on material specifications can be found here

Color	gray
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.44 MJ
Weight	21.8 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

## Commercial data

Product Group	20 (Winsta)
eCl@ss 10.0	27-44-06-03
eCl@ss 9.0	27-44-06-03
ETIM 8.0	EC002567
ETIM 7.0	EC002567

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PU (SPU)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821702146
Customs tariff number	85366990990

## Environmental Product Compliance

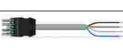
RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	cURus Underwriters Laboratories Inc.	UL 1977	E45171
	cURus Underwriters Laboratories Inc.	UL 1059	E 45172

## Counterpart

	<b>Item no.770-244</b> Socket; 4-pole; Cod. B; 4,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/770-244">www.wago.com/770-244</a>
	<b>Item no.770-254</b> Plug; 4-pole; Cod. B; 4,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/770-254">www.wago.com/770-254</a>
	<b>Item no.771-9994/005-103</b> pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. B; Control cable 4 x 1.0 mm <sup>2</sup> ; 1 m; 1,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/771-9994/005-103">www.wago.com/771-9994/005-103</a>
	<b>Item no.771-9994/105-103</b> pre-assembled connecting cable; Eca; Socket/open-ended; 4-pole; Cod. B; Control cable 4 x 1.0 mm <sup>2</sup> ; 1 m; 1,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/771-9994/105-103">www.wago.com/771-9994/105-103</a>
	<b>Item no.771-9994/205-103</b> pre-assembled connecting cable; Eca; Plug/open-ended; 4-pole; Cod. B; Control cable 4 x 1.0 mm <sup>2</sup> ; 1 m; 1,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/771-9994/205-103">www.wago.com/771-9994/205-103</a>

## Optional accessories

### Cover

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#### 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.: 770-201**

Lockout cap; 12-pole, separable; for sockets; Plastic; black

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



**Item no.: 770-221**

Lockout cap; 12-pole, separable; for sockets; Plastic; white

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

#### Mounting

##### Mounting accessories



**Item no.: 770-354**

Mounting plate; 2- to 5-pole; for distribution connectors; silver-colored

[www.wago.com/770-354](http://www.wago.com/770-354)

#### Downloads

##### Documentation

##### Bid Text

770-1631

2019 Feb 19

xml  
2.8 kB

[Download](#)

X81 - Datei

770-1631

2015 Mar 12

doc  
23.0 kB

[Download](#)

doc - Datei

##### CAD/CAE-Data

##### CAE data

WSCAD Universe 770-1631

[URL](#)

[Download](#)

#### Environmental Product Compliance

##### Compliance Search

Environmental Product Compliance 770-1631

[URL](#)

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T-distribution connector; 4-pole; Cod. B; 1 input; 2 outputs; 2 locking levers; gray

#### Installation Notes

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

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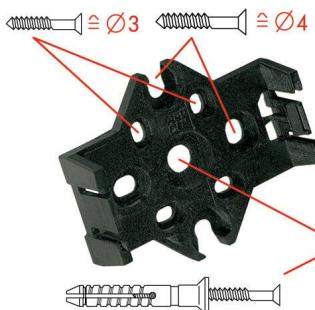
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## Installation



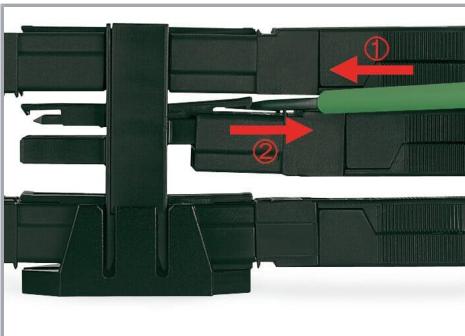
Mounting plates can be secured using commercially available screws or nail-drive anchors.



The distribution connectors snap together when attached to the mounting plate.



To release the distribution connector, unlock the latch using a screwdriver.



All distribution connector connections are locked and protected against accidental disconnection directly after mating. Locking of any connection is released using a screwdriver, even if all connections are used.

## Product family

### WINSTA® MIDI

[Show all products from the family](#)

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