

## Item description

### Distribution connector *W/INSTA® MIDI* with protection against mismating

The *W/INSTA® MIDI* distribution connector B coding is the pluggable solution for your application in control cabinets, for lighting connections or on PCBs. The pluggable installation connectors with spring pressure connection technology function completely without screw connections. They allow resource-efficient, error-free installation in a large number of possible uses. For greater security in electrical installations, the pluggable installation connector is provided with mechanical protection against mismating. The pluggable installation connector is protected in accordance with protection type IP20 (When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). This means that users' fingers will never come into contact with electrified elements. Pluggable installation connectors with B coding from the *W/INSTA® MIDI* line are available in gray, light green, or pink, allowing you to distinguish different circuits, for example for pumps, lighting, or sun blinds. Your own pole marking is possible as well. The rated current and voltage are important criteria for selecting a pluggable installation connector: They tell us about the product's domains of use. This product has a current rating of 25 A – as a result it is also suitable for robust loads. *W/INSTA® MIDI* with Push-in CAGE CLAMP® spring pressure connection technology is found in can be found in a variety of projects you can use for quick, easy, secure, tailored installation.

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

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

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with marking from WAGO.

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- protection against mismatching eliminates errors
- for automation controllers
- with B coding for use in process automation, such as lighting technology
- custom-engineered solutions
- fast, secure installation

### 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- and 5-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 accordance with the UL certificate in select applications with
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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	5
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## Connection 1

Pole number	5
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## Physical data

Pin spacing	10 mm / 0.394 inches
Width	50 mm / 1.969 inches
Height	36.7 mm / 1.445 inches
Depth	46 mm / 1.811 inches

## Mechanical Data

Application	Control technology
Coding	B
Marking	1 2 3 4 5
Potential marking	1 2 3 4 5
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	Distribution connector, 3-way
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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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	4

## 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	0.868 MJ
Weight	44.3 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)	25 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821687689
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.770-245</b> Socket; 5-pole; Cod. B; 4,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/770-245">www.wago.com/770-245</a>
	<b>Item no.770-255</b> Plug; 5-pole; Cod. B; 4,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/770-255">www.wago.com/770-255</a>
	<b>Item no.771-9995/005-103</b> pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. B; (H)05VV-F 5x1,0 mm <sup>2</sup> ; 1 m; 1,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/771-9995/005-103">www.wago.com/771-9995/005-103</a>
	<b>Item no.771-9995/105-103</b> pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. B; (H)05VV-F 5x1,0 mm <sup>2</sup> ; 1 m; 1,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/771-9995/105-103">www.wago.com/771-9995/105-103</a>
	<b>Item no.771-9995/205-103</b> pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. B; (H)05VV-F 5x1,0 mm <sup>2</sup> ; 1 m; 1,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/771-9995/205-103">www.wago.com/771-9995/205-103</a>

## Optional accessories

Cover	
Cover	

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

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Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.



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.: 770-625

Mounting plate; 5-pole; for distribution connectors; Plastic; black

[www.wago.com/770-625](http://www.wago.com/770-625)



Item no.: 770-675

Mounting plate; 5-pole; for distribution connectors; Plastic; white

[www.wago.com/770-675](http://www.wago.com/770-675)

## Downloads

### Documentation

#### Bid Text

770-1744	2019 Feb 19	xml	Download
X81 - Datei		2.8 kB	
770-1744	2015 Mar 12	doc	Download
doc - Datei		23.6 kB	

### CAD/CAE-Data

#### CAE data

WSCAD Universe 770-1744	URL	Download
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#### CAD data

2D/3D Models 770-1744	URL	Download
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### Asset Administration Shell

Asset Administration Shell 770-1744	URL	Download
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 770-1744

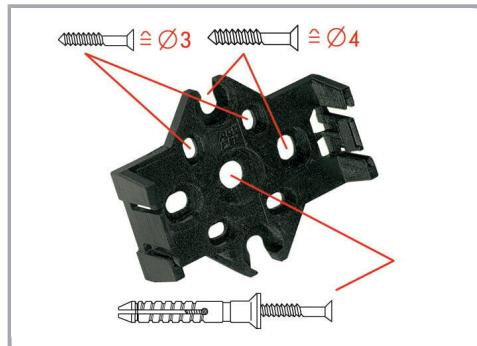
[URL](#)

[Download](#)

3-way distribution connector; 5-pole; Cod. B; 1 input; 3 outputs; gray

## Installation Notes

### Installation



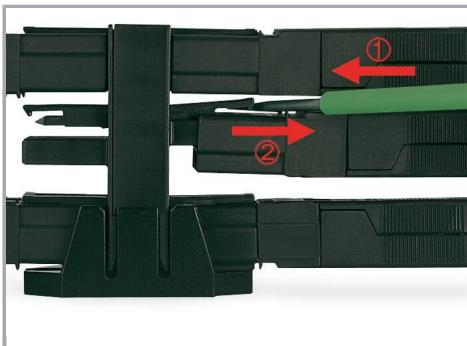
Mounting plates can be secured using commercially available screws or nail-drive anchors.



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

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

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**WINSTA® MIDI**

[Show all products from the family](#)

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