

Data sheet | Item number: 770-274

Plug; 4-pole; Cod. B; 4,00 mm<sup>2</sup>; light green

[www.wago.com/770-274](http://www.wago.com/770-274)



Color:

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

WAGO GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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## Item description

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

The *WINSTA*® MIDI male connector/plug rated current 25 A supports rapid, correct installation. WAGO pluggable installation connectors are useful when criteria repeat or are distributed on a defined grid, for example for installing grid lighting or flush-mount lighting. The color coding and mechanical 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 and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). Pluggable installation connectors with B coding from the *WINSTA*® MIDI line are available in pink, light green, or gray, allowing you to distinguish different circuits, for example for light, pumps or, sun blinds. Usage-specific pole marking is possible, too. This pluggable installation connector can be used for a current load of up to 25 A. As a result, it can also be used for high power loads. Our *WINSTA*® MIDI product line allows total flexibility for the electrical installation. With its Push-in CAGE CLAMP® spring pressure connection technology, it guarantees error-free, time-saving installation and offers flexibility and customization for meeting various installation requirements.

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

The *WINSTA*® Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Choose durability and quality – the *WINSTA*® MIDI pluggable installation connector with protection against mismatching from WAGO makes the installation of electrical components significantly easier.

- 
- pluggable installation connectors with protection against mismatching
- for automation controllers
- for automation controllers
- ready for immediate use
- convenient installation and commissioning

## 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

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

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## 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
Note (rated current)	25 A for 3-pole load 20 A for 4-pole load
Legend (ratings)	(III / 3) $\hat{=}$ 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 m $\Omega$ of contact resistance approx. 0.25 m $\Omega$ contact transition plug/socket
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## Connection data

Connection points	8
Total number of potentials	4

## Connection 1

Connection technology	Push-in CAGE CLAMP <sup>®</sup>
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

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



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	4
Conductor entry direction to mating direction	0°

### Physical data

Pin spacing	10 mm / 0.394 inches
Width	40 mm / 1.575 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches

### Mechanical Data

Application	Control technology
Coding	B
Variable coding	Yes
Marking	4 3 2 1
Potential marking	4 3 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!)

### Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	Yes
Note on mismating protection	All <i>WINSTA</i> <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

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



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	0.261 MJ
Weight	13 g

## 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

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
PU (SPU)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821445753
Customs tariff number	85366990990

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## Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

## 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	-	-
	<b>UK-Declaration of Conformity</b> 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

Item no.770-1632

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

[www.wago.com/770-1632](http://www.wago.com/770-1632)

Item no.770-1682

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h-distribution connector; 4-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 2 locking levers; light green	<a href="http://www.wago.com/770-1682">www.wago.com/770-1682</a>
<b>Item no.770-1732</b> T-distribution connector; 4-pole; Cod. B; 1 input; 2 outputs; 3 locking levers; for flying leads; light green	<a href="http://www.wago.com/770-1732">www.wago.com/770-1732</a>
<b>Item no.770-1735</b> 3-way distribution connector; 4-pole; Cod. B; 1 input; 3 outputs; light green	<a href="http://www.wago.com/770-1735">www.wago.com/770-1735</a>
<b>Item no.770-1782</b> h-distribution connector; 4-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; light green	<a href="http://www.wago.com/770-1782">www.wago.com/770-1782</a>
<b>Item no.770-264</b> Socket; 4-pole; Cod. B; 4,00 mm <sup>2</sup> ; light green	<a href="http://www.wago.com/770-264">www.wago.com/770-264</a>
<b>Item no.770-864</b> Socket for PCBs; straight; 4-pole; Cod. B; light green	<a href="http://www.wago.com/770-864">www.wago.com/770-864</a>
<b>Item no.770-764</b> Snap-in socket; 4-pole; Cod. B; 4,00 mm <sup>2</sup> ; light green	<a href="http://www.wago.com/770-764">www.wago.com/770-764</a>
<b>Item no.771-9994/005-105</b> pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. B; H05VV-F 4 x 1.0 mm <sup>2</sup> ; 1 m; 1,00 mm <sup>2</sup> ; light green	<a href="http://www.wago.com/771-9994/005-105">www.wago.com/771-9994/005-105</a>
<b>Item no.770-864/011-000</b> Socket for PCBs; angled; 4-pole; Cod. B; light green	<a href="http://www.wago.com/770-864/011-000">www.wago.com/770-864/011-000</a>
<b>Item no.771-9994/105-105</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> ; light green	<a href="http://www.wago.com/771-9994/105-105">www.wago.com/771-9994/105-105</a>

## Required accessories

### Locking levers

#### Locking system

<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.: 770-504/023-000</b> Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; black	<a href="http://www.wago.com/770-504/023-000">www.wago.com/770-504/023-000</a>
<b>Item no.: 770-514</b> Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; white	<a href="http://www.wago.com/770-514">www.wago.com/770-514</a>

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



**Item no.: 770-504**  
Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; black

[www.wago.com/770-504](http://www.wago.com/770-504)

**Item no.: 770-514/023-000**  
Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; white

[www.wago.com/770-514/023-000](http://www.wago.com/770-514/023-000)

## 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.: 897-2005**  
Protective cap; Type4; for sockets and plugs; PVC; red

[www.wago.com/897-2005](http://www.wago.com/897-2005)

### Mounting

#### Mounting accessories

**Item no.: 770-319**  
Snap-in frame; 4-pole; 1.0 ... 3.0 mm; black

[www.wago.com/770-319](http://www.wago.com/770-319)

**Item no.: 770-339**  
Snap-in frame; 4-pole; 1.0 ... 3.0 mm; white

[www.wago.com/770-339](http://www.wago.com/770-339)

### 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)

### 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)

## Downloads

### Documentation

#### Bid Text

770-274 X81 - Datei	2019 年2月19 日	xml 3.0 kB	Download
770-274 doc - Datei	2015 年6月8 日	doc 25.1 kB	Download

### CAD/CAE-Data

#### CAD data

2D/3D Models 770-274		URL	Download
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#### CAE data

WSCAD Universe 770-274		URL	Download
ZUKEN Portal 770-274		URL	Download

### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 770-274 Plug; 4-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

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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.

### 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

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



Simply cut off the coding pin from the socket.



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

### Mismatching protection

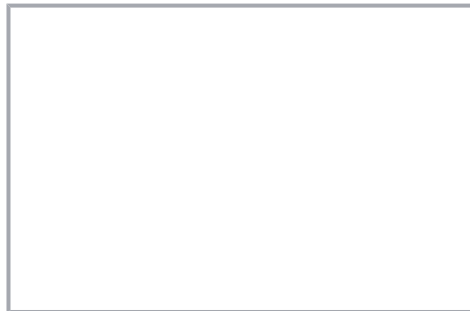


B-coded connectors with different colors can be plugged together.

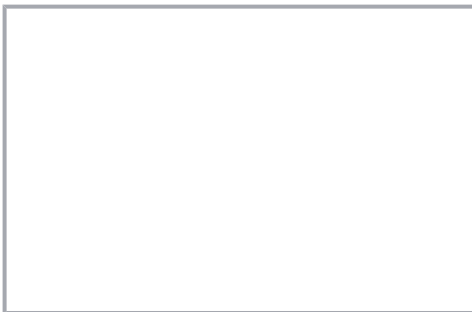
#### Important note:

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

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

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## Product family

WINSTA® MIDI

[Show all products from the family](#)

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