

## Item description

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

For signal and power transmission: The *WINSTA*® MIDI male connector/plug S coding. WAGO pluggable installation connectors are useful when specifications repeat or are planned on a specified pattern, for example for installing grid lighting or flush-mount lighting. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector is protected 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!)). This means that users' fingers will never come into contact with live contact elements. Light switches and outlets can be integrated with the help of *WINSTA*® MIDI pluggable installation connectors with S coding in brown. This pluggable installation connector is used for electrical currents up to 25 A. Thus the product is also suitable for high power loads. Our *WINSTA*® MIDI product line guarantees flexibility for the electrical installation. Through its Push-in CAGE CLAMP® spring pressure connection technology, it guarantees error-free, time-saving installation and offers customization for meeting all installation requirements.

### Lower costs through fast commissioning and elimination of service expenses – solutions from *WINSTA*® MIDI

The *WINSTA*® Pluggable Connection System is perfectly tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and therefore faster, even more reliable, and error-free. Using this pre-assembled system reduces time spent on assembly and installation errors at the construction site. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with marking from WAGO.

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



- 
- pluggable installation connectors with protection against mismatching
- for automation controllers
- for AC applications
- custom-engineered solutions
- convenient installation and commissioning

## Data

### 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
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### Connection data

Connection points	6
Total number of potentials	3

### Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool

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



	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	3
Conductor entry direction to mating direction	0°

### Physical data

Pin spacing	10 mm / 0.394 inches
Width	30 mm / 1.181 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches

### Mechanical Data

Application	Switching function
Coding	S
Variable coding	No
Marking	L 2 1
Potential marking	L 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

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



## Note on mismatching protection

All WINSTA® components are 100% protected against mismatching 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	brown
Insulation material	Polyamide (PA66)
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.206 MJ
Weight	9.8 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
ECCN	NO DATA
PU (SPU)	100 pcs

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

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Do you have any questions about our products?  
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Packaging type	box
Country of origin	DE
GTIN	4044918254052
Customs tariff number	85366990990

## Environmental Product Compliance







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

### Declarations of conformity and manufacturer's declarations

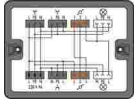
Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

## Counterpart

	<b>Item no.770-1363</b> Socket; 3-pole; Cod. S; 4,00 mm <sup>2</sup> ; brown	<a href="http://www.wago.com/770-1363">www.wago.com/770-1363</a>
	<b>Item no.770-2363</b> Snap-in socket; 3-pole; Cod. S; 4,00 mm <sup>2</sup> ; brown	<a href="http://www.wago.com/770-2363">www.wago.com/770-2363</a>
	<b>Item no.770-637</b> Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; black	<a href="http://www.wago.com/770-637">www.wago.com/770-637</a>
	<b>Item no.770-638</b> Distribution connector for switches; Single-pole and throttle two-way circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; black	<a href="http://www.wago.com/770-638">www.wago.com/770-638</a>
	<b>Item no.770-687</b> Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; white	<a href="http://www.wago.com/770-687">www.wago.com/770-687</a>
	<b>Item no.770-688</b> Distribution connector for switches; Single-pole and throttle two-way circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; white	<a href="http://www.wago.com/770-688">www.wago.com/770-688</a>
	<b>Item no.771-9973/006-105</b>	<a href="http://www.wago.com/771-9973">www.wago.com/771-9973</a>

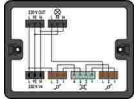
Subject to changes. Please also observe the further product documentation!

pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. S; H05VV-F 3 x 1.5 mm<sup>2</sup>; 1 m; /006-105  
1,50 mm<sup>2</sup>; brown



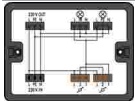
**Item no.899-631/189-000**  
Distribution box; Two-way circuit; 1 input; 7 outputs; Cod. A, S; MIDI; black

[www.wago.com/899-631/189-000](http://www.wago.com/899-631/189-000)



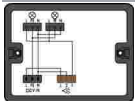
**Item no.899-631/305-000**  
Distribution box; Crossover switching; 1 input; 5 outputs; Cod. A, B, S; MIDI; black

[www.wago.com/899-631/305-000](http://www.wago.com/899-631/305-000)



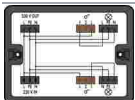
**Item no.899-631/308-000**  
Distribution box; Two-way circuit; 1 input; 5 outputs; Cod. A, S; MIDI; black

[www.wago.com/899-631/308-000](http://www.wago.com/899-631/308-000)



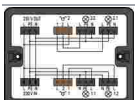
**Item no.899-631/309-000**  
Distribution box; Motion/presence detector; 1 input; 3 outputs; Cod. A, S; MIDI; black

[www.wago.com/899-631/309-000](http://www.wago.com/899-631/309-000)



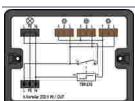
**Item no.899-631/363-000**  
Distribution box; Single-pole switch circuit; 1 input; 5 outputs; Cod. A, S; MIDI; black

[www.wago.com/899-631/363-000](http://www.wago.com/899-631/363-000)



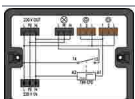
**Item no.899-631/386-000**  
Distribution box; Series switching; 1 input; 7 outputs; Cod. A, S; MIDI; black

[www.wago.com/899-631/386-000](http://www.wago.com/899-631/386-000)



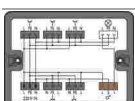
**Item no.899-632/101-000**  
Distribution box; Surge switch circuit; 1 input; 4 outputs; Cod. A, S; MIDI; black

[www.wago.com/899-632/101-000](http://www.wago.com/899-632/101-000)



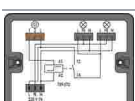
**Item no.899-632/138-000**  
Distribution box; Surge switch circuit; 1 input; 4 outputs; Cod. A, S; MIDI; black

[www.wago.com/899-632/138-000](http://www.wago.com/899-632/138-000)



**Item no.899-631/478-000**  
Distribution box; Single-pole switch circuit; 1 input; 7 outputs; Cod. A, S; MIDI; black

[www.wago.com/899-631/478-000](http://www.wago.com/899-631/478-000)



**Item no.899-632/103-000**  
Distribution box; Surge switch circuit; 2 inputs; 2 outputs; Cod. A; MIDI; black

[www.wago.com/899-632/103-000](http://www.wago.com/899-632/103-000)

## Required accessories

### Locking levers

Locking system



**Item no.: 770-121**  
Locking lever; for flying leads; for manual operation; white

[www.wago.com/770-121](http://www.wago.com/770-121)

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



**Item no.: 770-131**  
Locking lever; for flying leads; for tool operation; white

[www.wago.com/770-131](http://www.wago.com/770-131)



**Item no.: 770-101**  
Locking lever; for flying leads; for manual operation; black

[www.wago.com/770-101](http://www.wago.com/770-101)



**Item no.: 770-111**  
Locking lever; for flying leads; for tool operation; black

[www.wago.com/770-111](http://www.wago.com/770-111)

## Optional accessories

### 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.: 770-383**  
Operating tool; 3-way; green

[www.wago.com/770-383](http://www.wago.com/770-383)

### 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)

### Strain relief

Strain relief housing



**Item no.: 770-503**  
Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black

[www.wago.com/770-503](http://www.wago.com/770-503)



**Item no.: 770-503/023-000**  
Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm; black

[www.wago.com/770-503/023-000](http://www.wago.com/770-503/023-000)



**Item no.: 770-503/021-000**  
Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm; black

[www.wago.com/770-503/021-000](http://www.wago.com/770-503/021-000)



**Item no.: 770-503/035-000**  
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; black

[www.wago.com/770-503/035-000](http://www.wago.com/770-503/035-000)



**Item no.: 770-503/038-000**  
Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; black

[www.wago.com/770-503/038-000](http://www.wago.com/770-503/038-000)

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

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**Item no.:** 770-503/032-000

Strain relief housing; 3-pole; with locking clip; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black

[www.wago.com/770-503/032-000](http://www.wago.com/770-503/032-000)



**Item no.:** 770-513/038-000

Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; white

[www.wago.com/770-513/038-000](http://www.wago.com/770-513/038-000)



**Item no.:** 770-513

Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white

[www.wago.com/770-513](http://www.wago.com/770-513)



**Item no.:** 770-513/021-000

Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm; white

[www.wago.com/770-513/021-000](http://www.wago.com/770-513/021-000)



**Item no.:** 770-513/032-000

Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white

[www.wago.com/770-513/032-000](http://www.wago.com/770-513/032-000)



**Item no.:** 770-513/035-000

Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; white

[www.wago.com/770-513/035-000](http://www.wago.com/770-513/035-000)



**Item no.:** 770-513/023-000

Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm; white

[www.wago.com/770-513/023-000](http://www.wago.com/770-513/023-000)

#### 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)



**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)

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

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## Mounting

### Mounting accessories



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)

## Downloads

### Documentation

#### Bid Text

770-1373 X81 - Datei	2019 Feb 19	xml 3.1 kB	Download
770-1373 doc - Datei	2015 Jun 8	doc 24.1 kB	Download

### CAD/CAE-Data

#### CAE data

EPLAN Data Portal 770-1373		URL	Download
WSCAD Universe 770-1373		URL	Download

#### CAD data

2D/3D Models 770-1373		URL	Download
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#### Asset Administration Shell

Asset Administration Shell 770-1373		URL	Download
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## Environmental Product Compliance

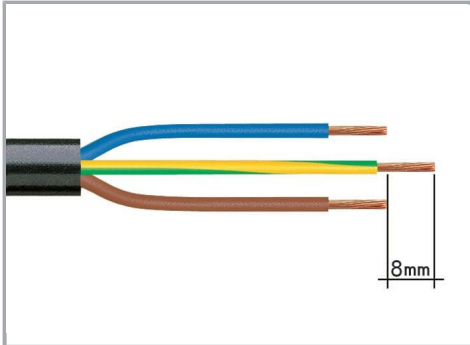
### Compliance Search

Environmental Product Compliance 770-1373 Plug; 3-pole; 4,00 mm <sup>2</sup> ; brown		URL	Download
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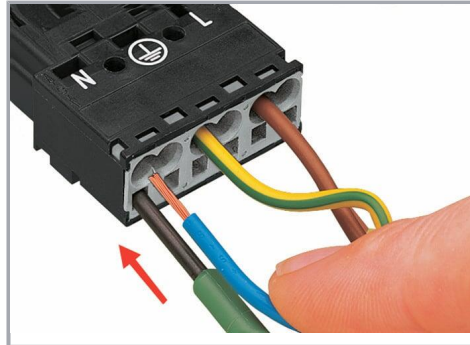
Subject to changes. Please also observe the further product documentation!

## Installation Notes

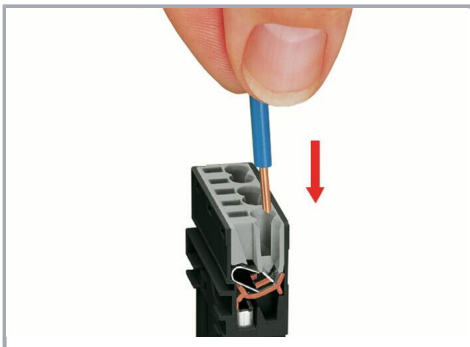
### Conductor termination



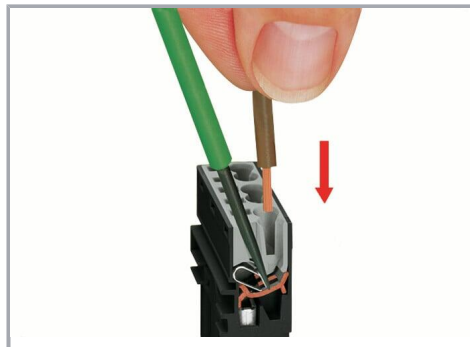
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.



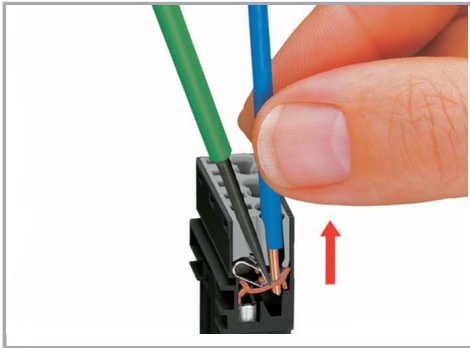
Insert the stripped solid conductor until it hits the backstop.



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.

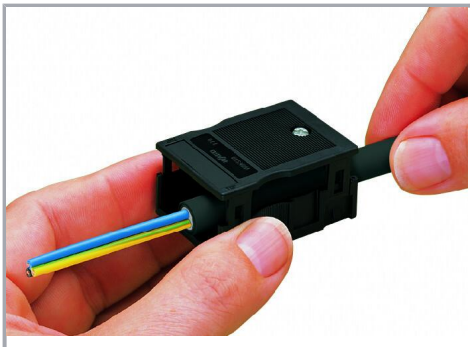
### Conductor removal

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

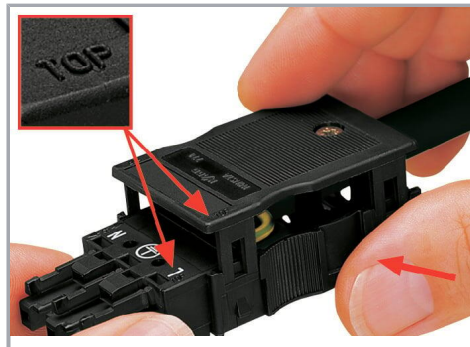


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

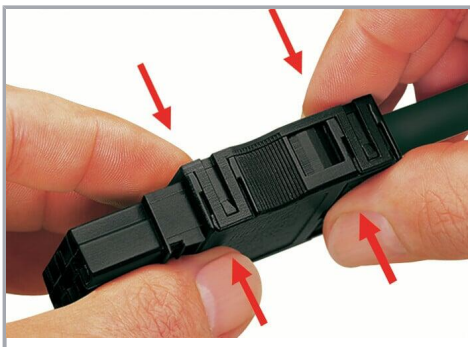
### Installation



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).

### Product family

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

Data sheet | Item number: 770-1373

[www.wago.com/770-1373](http://www.wago.com/770-1373)



WINSTA® MIDI

[Show all products from the family](#)

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

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