

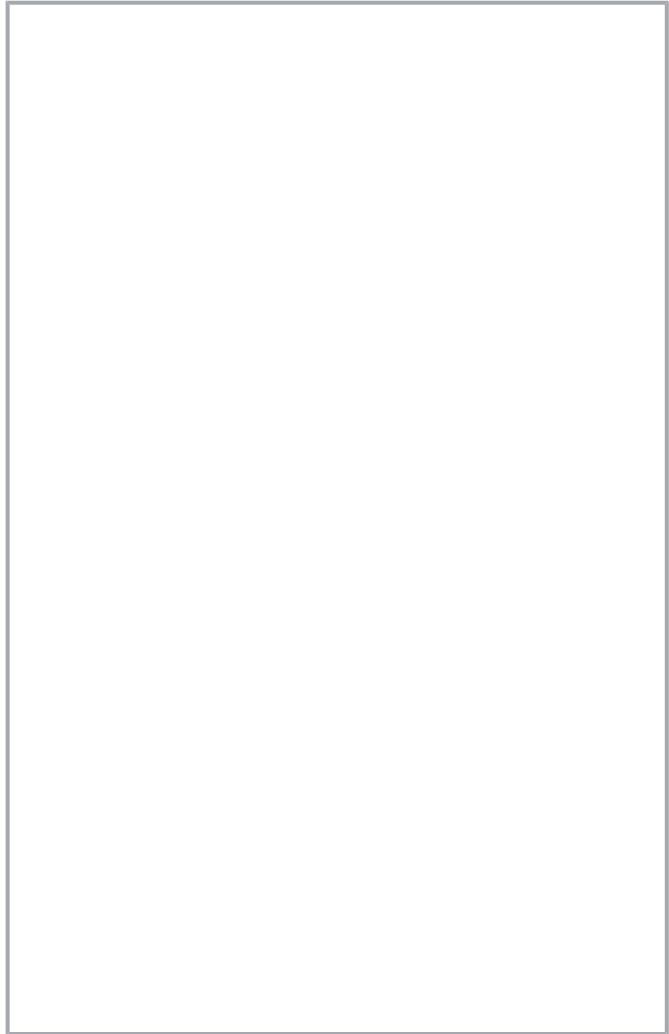
Data sheet | Item number: 770-1373

Plug; 3-pole; 4,00 mm<sup>2</sup>; brown

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



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)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## Item description

### Male connector/plug *WINSTA*® MIDI S coding

The *WINSTA*® MIDI male connector/plug S coding is the pluggable solution for your application in control cabinets, for lighting connections or on PCBs. Our pluggable installation connectors with spring pressure connection technology work without screw connections. They allow resource-efficient, error-free installation in a large number of applications. For greater security in electrical installations, the pluggable installation connector is provided with mechanical 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!)). The S coding in brown identifies pluggable installation connectors of the *WINSTA*® MIDI product line, which are appropriate for installation in AC applications. This pluggable installation connector can be 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 found in a broad range of individual products you can use for quick, easy, flexible, and secure 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 optimally tailored to the strict requirements of electrical installation. It offers fast, secure and, above all, error-free installation of components and cables. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with *WINSTA*® MIDI pluggable installation connectors with marking from WAGO.

- protection against mismatching eliminates errors
- for automation controllers
- with S coding for AC applications of distributed components
- ready for immediate use
- rapid, structured electrical installation

## 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

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)

Do you have any questions about our products?  
 We are always happy to take your call at +49 (571) 887-44222.

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

## Connection data

Connection points

6

Total number of potentials

3

## Connection 1

Connection technology

Push-in CAGE CLAMP®

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

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

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

WAGO GmbH &amp; 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)

Do you have any questions about our products?

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



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
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 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
----------------------	--

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



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
PU (SPU)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918254052
Customs tariff number	85366990990

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
------------------------	-------------------------

### Approvals / Certificates

#### Declarations of conformity and manufacturer's declarations

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

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)

Do you have any questions about our products?  
 We are always happy to take your call at +49 (571) 887-44222.



## 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> pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. S; H05VV-F 3 x 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; brown	<a href="http://www.wago.com/771-9973/006-105">www.wago.com/771-9973/006-105</a>
<b>Item no.899-631/189-000</b> Distribution box; Two-way circuit; 1 input; 7 outputs; Cod. A, S; MIDI; black	<a href="http://www.wago.com/899-631/189-000">www.wago.com/899-631/189-000</a>
<b>Item no.899-631/305-000</b> Distribution box; Crossover switching; 1 input; 5 outputs; Cod. A, B, S; MIDI; black	<a href="http://www.wago.com/899-631/305-000">www.wago.com/899-631/305-000</a>
<b>Item no.899-631/308-000</b> Distribution box; Two-way circuit; 1 input; 5 outputs; Cod. A, S; MIDI; black	<a href="http://www.wago.com/899-631/308-000">www.wago.com/899-631/308-000</a>
<b>Item no.899-631/309-000</b> Distribution box; Motion/presence detector; 1 input; 3 outputs; Cod. A, S; MIDI; black	<a href="http://www.wago.com/899-631/309-000">www.wago.com/899-631/309-000</a>
<b>Item no.899-631/363-000</b> Distribution box; Single-pole switch circuit; 1 input; 5 outputs; Cod. A, S; MIDI; black	<a href="http://www.wago.com/899-631/363-000">www.wago.com/899-631/363-000</a>
<b>Item no.899-631/386-000</b> Distribution box; Series switching; 1 input; 7 outputs; Cod. A, S; MIDI; black	<a href="http://www.wago.com/899-631/386-000">www.wago.com/899-631/386-000</a>
<b>Item no.899-632/101-000</b> Distribution box; Surge switch circuit; 1 input; 4 outputs; Cod. A, S; MIDI; black	<a href="http://www.wago.com/899-632/101-000">www.wago.com/899-632/101-000</a>
<b>Item no.899-632/138-000</b> Distribution box; Surge switch circuit; 1 input; 4 outputs; Cod. A, S; MIDI; black	<a href="http://www.wago.com/899-632/138-000">www.wago.com/899-632/138-000</a>
<b>Item no.899-631/478-000</b> Distribution box; Single-pole switch circuit; 1 input; 7 outputs; Cod. A, S; MIDI	<a href="http://www.wago.com/899-631/478-000">www.wago.com/899-631/478-000</a>
<b>Item no.899-632/103-000</b> Distribution box; Surge switch circuit; 2 inputs; 2 outputs; Cod. A; MIDI	<a href="http://www.wago.com/899-632/103-000">www.wago.com/899-632/103-000</a>

## Required accessories

### Locking levers

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)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## 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>

## Optional accessories

## Cover

## Cover

<b>Item no.: 770-360</b> Lockout cap; for plugs; 5-pole; separable; yellow	<a href="http://www.wago.com/770-360">www.wago.com/770-360</a>
---	--

## Mounting

## Mounting accessories

<b>Item no.: 770-318</b> Snap-in frame; 3-pole; 1.0 ... 3.0 mm; black	<a href="http://www.wago.com/770-318">www.wago.com/770-318</a>
<b>Item no.: 770-338</b> Snap-in frame; 3-pole; 1.0 ... 3.0 mm; white	<a href="http://www.wago.com/770-338">www.wago.com/770-338</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.: 770-503/021-000</b> Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm; black	<a href="http://www.wago.com/770-503/021-000">www.wago.com/770-503/021-000</a>
<b>Item no.: 770-503/035-000</b> Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; black	<a href="http://www.wago.com/770-503/035-000">www.wago.com/770-503/035-000</a>
<b>Item no.: 770-503/038-000</b> Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; black	<a href="http://www.wago.com/770-503/038-000">www.wago.com/770-503/038-000</a>

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



**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)

**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)

**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)

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)

Do you have any questions about our products?

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





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)

## Downloads

### Documentation

#### Bid Text

770-1373 X81 - Datei	2019 年2月19日	xml 3.1 kB	Download
770-1373 doc - Datei	2015 年6月8日	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
-----------------------	-----	----------

### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 770-1373 Plug; 3-pole; 4,00 mm <sup>2</sup> ; brown	URL	Download
---	-----	----------

### 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

---

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

WINSTA® MIDI

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



[Show all products from the family](#)

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)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.