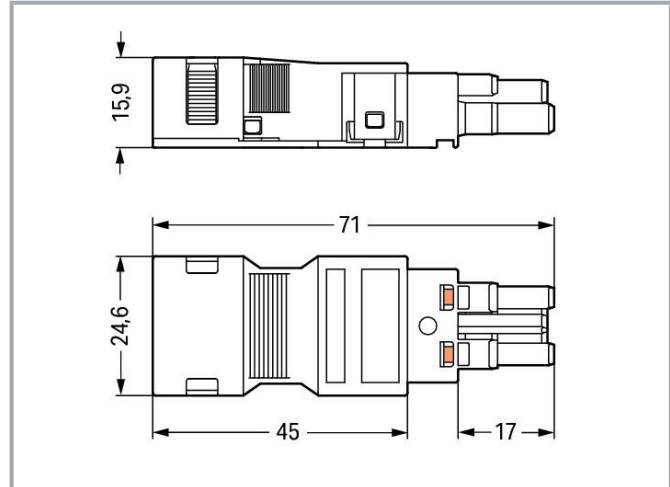
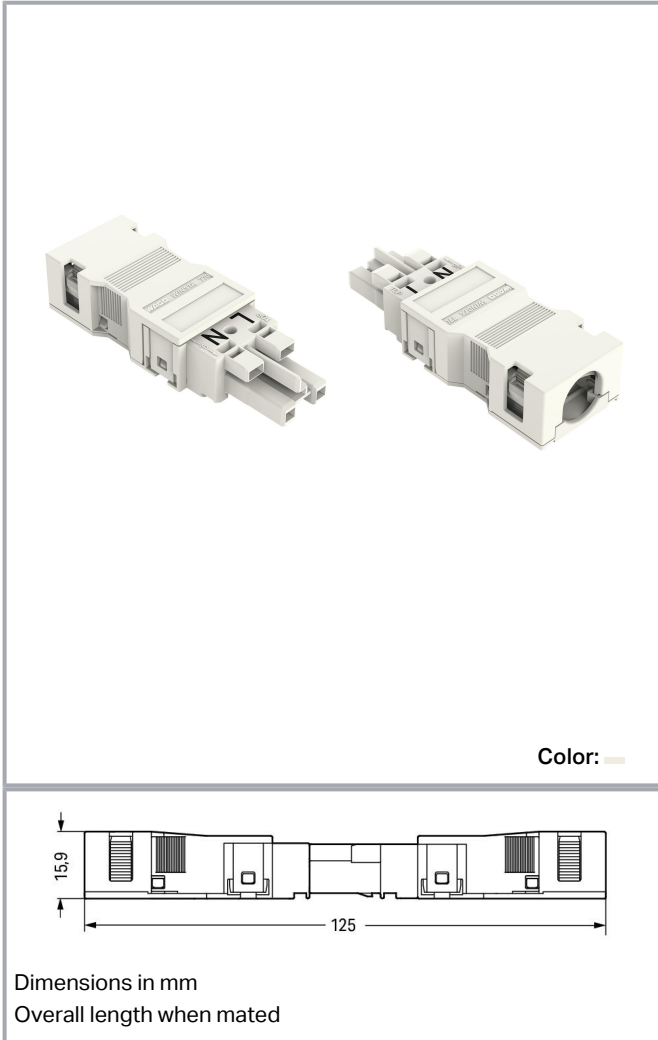


Data sheet | Item number: 770-122/041-000

Socket; with strain relief housing; 2-pole; Cod. A; 4,00 mm<sup>2</sup>; white

[www.wago.com/770-122/041-000](http://www.wago.com/770-122/041-000)



## Item description

### Female connector/socket *WINSTA*® MIDI with protection type IP20

For power and signal transmission: The *WINSTA*® MIDI female connector/socket 2-pole. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to a huge variety of requirements in no time flat.

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

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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 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!)). That results in the fact that users' fingers will never come into contact with energised elements. Standard mains applications for almost any domain of use can be realised with *WINSTA*® MIDI pluggable installation connectors with A coding. Important parameters in the selection of a pluggable installation connector are the rated current and voltage: They provide information about possible domains of use and applications. This product has a current rating of 25 A – so it is suitable for powerful loads. The *WINSTA*® MIDI product line achieves total flexibility for the installation. With its Push-in CAGE CLAMP® spring pressure connection technology, it achieves error-free, time-saving installation and offers customization and flexibility for meeting an enormous variety of installation requirements. The strip length is 35 mm.

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

The *WINSTA*® Pluggable Connection System is ideally tailored to the strict requirements of building installation. It makes electrical installation pluggable, and thus more efficient, even more reliable, and error-free. Use of this pre-assembled system reduces time spent on assembly and errors during installation at the construction site. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with *WINSTA*® MIDI pluggable installation connectors with protection against mismatching from WAGO.

- pluggable installation connectors with protection against mismatching
- pre-assembled versions
- with A coding for a large number of uses
- ready to install and use immediately
- fast, secure 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
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.

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Rated voltage (UL 1977)	600 V
Rated current UL 1977	23 A

## General

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	4
Total number of potentials	2

## 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	2
Conductor entry direction to mating direction	0°
Strip length (outer insulation)	35 mm

## Physical data

Pin spacing	10 mm / 0.394 inches
Width	24.6 mm / 0.969 inches
Height	15.9 mm / 0.626 inches
Depth	71 mm / 2.795 inches

## Mechanical Data

Application	General mains applications
-------------	----------------------------

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Coding	A
Variable coding	Yes
Marking	L N
Potential marking	L N
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)	Female connector/socket
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).
Strain relief	strain relief housing

### Material Data

Note (material data)	Information on material specifications can be found here
Color	white
Cover color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0

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



Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.319 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 ≤ 105 °C

### Commercial data

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)	25 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821117926
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
	CCA DEKRA Certification B.V.	EN 61535	71-123228
	CCA DEKRA Certification B.V.	IEC 61535	NL -84761
	cURus Underwriters Laboratories Inc.	UL 1977	E45171




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







## Declarations of conformity and manufacturer's declarations

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

## Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19- HG1868589- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	LR Lloyds Register	IEC 61984	LR22429487TA





## Counterpart

	Item no.770-132/041-000 Plug; with strain relief housing; 2-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	<a href="http://www.wago.com/770-132/041-000">www.wago.com/770-132/041-000</a>
	Item no.770-1656 T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white	<a href="http://www.wago.com/770-1656">www.wago.com/770-1656</a>
	Item no.770-1665 T-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; white	<a href="http://www.wago.com/770-1665">www.wago.com/770-1665</a>
	Item no.770-1684 h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white	<a href="http://www.wago.com/770-1684">www.wago.com/770-1684</a>

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	<p><b>Item no. 770-1686</b> h-distribution connector; 2-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white</p>	<a href="http://www.wago.com/770-1686">www.wago.com/770-1686</a>
	<p><b>Item no. 771-8992/006-102</b> pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. A; H05VV-F 2 x 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; white</p>	<a href="http://www.wago.com/771-8992/006-102">www.wago.com/771-8992/006-102</a>
	<p><b>Item no. 770-232</b> Plug; 2-pole; Cod. A; 4,00 mm<sup>2</sup>; white</p>	<a href="http://www.wago.com/770-232">www.wago.com/770-232</a>
	<p><b>Item no. 771-8992/206-102</b> pre-assembled connecting cable; Eca; Plug/open-ended; 2-pole; Cod. A; H05VV-F 2 x 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; white</p>	<a href="http://www.wago.com/771-8992/206-102">www.wago.com/771-8992/206-102</a>




## Required accessories

### Locking levers

Locking system		
	<p><b>Item no.: 770-121</b> Locking lever; for flying leads; for manual operation; white</p>	<a href="http://www.wago.com/770-121">www.wago.com/770-121</a>
	<p><b>Item no.: 770-131</b> Locking lever; for flying leads; for tool operation; white</p>	<a href="http://www.wago.com/770-131">www.wago.com/770-131</a>
	<p><b>Item no.: 770-101</b> Locking lever; for flying leads; for manual operation; black</p>	<a href="http://www.wago.com/770-101">www.wago.com/770-101</a>
	<p><b>Item no.: 770-111</b> Locking lever; for flying leads; for tool operation; black</p>	<a href="http://www.wago.com/770-111">www.wago.com/770-111</a>

## Optional accessories

### Cover

Cover		
	<p><b>Item no.: 770-201</b> Lockout cap; 12-pole, separable; for sockets; Plastic; black</p>	<a href="http://www.wago.com/770-201">www.wago.com/770-201</a>
	<p><b>Item no.: 770-221</b> Lockout cap; 12-pole, separable; for sockets; Plastic; white</p>	<a href="http://www.wago.com/770-221">www.wago.com/770-221</a>
	<p><b>Item no.: 897-2003</b> Protective cap; Type2; for sockets and plugs; PVC; red</p>	<a href="http://www.wago.com/897-2003">www.wago.com/897-2003</a>

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

## 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.: 770-382

Operating tool; 2-way; green

[www.wago.com/770-382](http://www.wago.com/770-382)

## Downloads

### Documentation

#### Bid Text

770-122/041-000 X81 - Datei	2019 Feb 19	xml 3.1 kB	Download
770-122/041-000 doc - Datei	2015 Jun 8	doc 24.1 kB	Download

## CAD/CAE-Data

### CAE data

WSCAD Universe 770-122/041-000	URL	Download
ZUKEN Portal 770-122/041-000	URL	Download
WSCAD Universe 770-122/041-000	URL	Download

### CAD data

2D/3D Models 770-122/041-000	URL	Download
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## Environmental Product Compliance

### Compliance Search

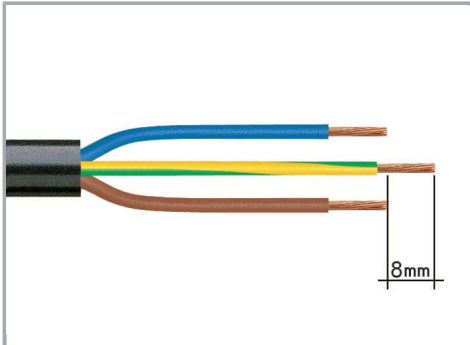
Environmental Product Compliance 770-122/041-000 Socket; with strain relief housing; 2-pole; Cod. A; 4,00 mm <sup>2</sup> ; white	URL	Download
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Subject to changes. Please also observe the further product documentation!



## Installation Notes

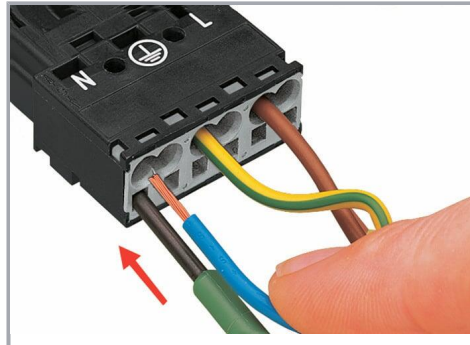
### Conductor termination



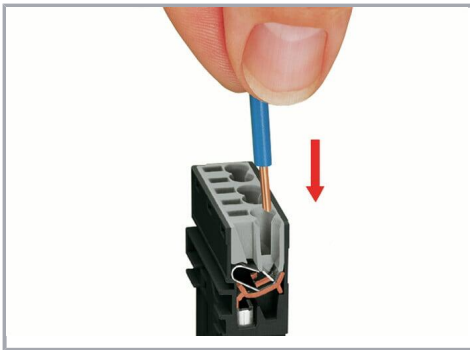
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

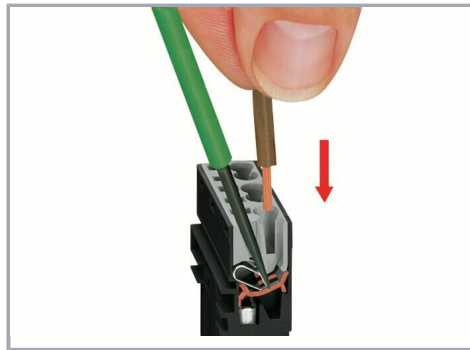
3. Extended ground conductor = 8 mm



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.



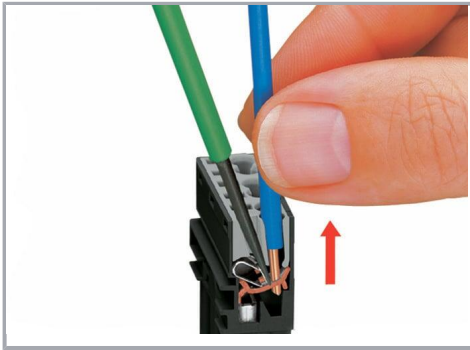
Insert the stripped solid conductor until it hits the backstop.



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.

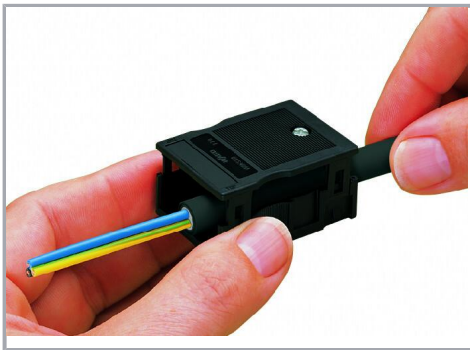
### Conductor removal

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

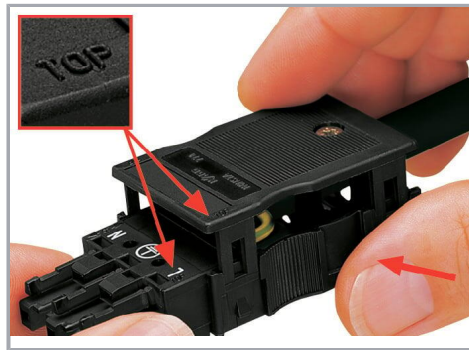


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

### Installation

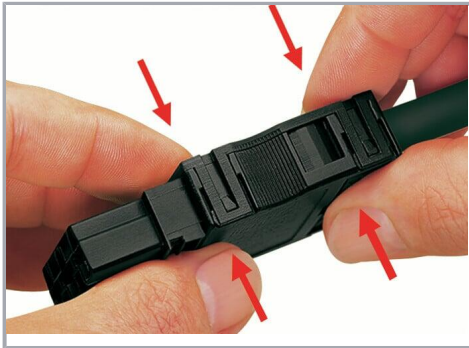


We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



Latch the strain relief housing onto the plug /socket. Note the "TOP" inscription.

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



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

[Show all products from the family](#)

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