

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 marking from WAGO.

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

WAGO GmbH & Co. KG

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-
- 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) \triangleq 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 Ω of contact resistance approx. 0.25 m Ω 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 ² / 12 AWG
Solid conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
Solid conductor; push-in termination	1.5 ... 4 mm ² / 16 ... 12 AWG
Stranded conductor	0.5 ... 2.5 mm ² / 20 ... 14 AWG
Fine-stranded conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm ² / 20 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm ² / 20 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1.5 mm ² / 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 ≤ 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

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

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

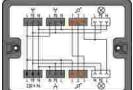
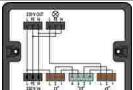
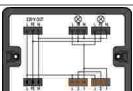
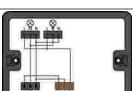
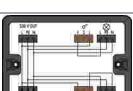
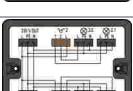
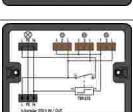
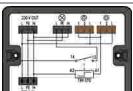
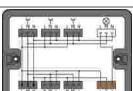
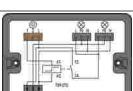
Declarations of conformity and manufacturer's declarations

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

Counterpart

	Item no.770-1363 Socket; 3-pole; Cod. S; 4,00 mm ² ; brown	www.wago.com/770-1363
	Item no.770-2363 Snap-in socket; 3-pole; Cod. S; 4,00 mm ² ; brown	www.wago.com/770-2363
	Item no.770-637 Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; black	www.wago.com/770-637
	Item no.770-638 Distribution connector for switches; Single-pole and throttle two-way circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; black	www.wago.com/770-638
	Item no.770-687 Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; white	www.wago.com/770-687
	Item no.770-688 Distribution connector for switches; Single-pole and throttle two-way circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; white	www.wago.com/770-688
	Item no.771-9973/006-105 pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. S; H05VV-F 3 x 1.5 mm ² ; 1 m; 1,50 mm ² ; brown	www.wago.com/771-9973/006-105

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

	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
	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
	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
	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
	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
	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
	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
	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
	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
	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

Required accessories

Locking levers

Locking system

	Item no.: 770-121 Locking lever; for flying leads; for manual operation; white	www.wago.com/770-121
	Item no.: 770-131 Locking lever; for flying leads; for tool operation; white	www.wago.com/770-131

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

 **Item no.: 770-101**

Locking lever; for flying leads; for manual operation; black

www.wago.com/770-101

 **Item no.: 770-111**

Locking lever; for flying leads; for tool operation; black

www.wago.com/770-111

Optional accessories

Mounting

Mounting accessories



Item no.: 770-318

Snap-in frame; 3-pole; 1.0 ... 3.0 mm; black

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

Cover

Cover



Item no.: 770-360

Lockout cap; for plugs; 5-pole; separable; yellow

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



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



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



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



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



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

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



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



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



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



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



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



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

Marking accessories

Marker



Item no.: 770-450/000-002

Marker card; Plastic; yellow

www.wago.com/770-450/000-002



Item no.: 770-450/000-001

Marker card; Plastic; green

www.wago.com/770-450/000-001



Item no.: 770-450/000-005

Marker card; Plastic; red

www.wago.com/770-450/000-005



Item no.: 770-450

Marker card; Plastic; white

www.wago.com/770-450



Item no.: 770-450/000-006

Marker card; Plastic; blue

www.wago.com/770-450/000-006



Item no.: 770-450/000-012

Marker card; Plastic; orange

www.wago.com/770-450/000-012

Tool

Operating tool

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

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Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719



Item no.: 770-383

Operating tool; 3-way; green

www.wago.com/770-383

Downloads

Documentation

Bid Text

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

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	URL	Download
Plug; 3-pole; 4,00 mm ² ; brown		

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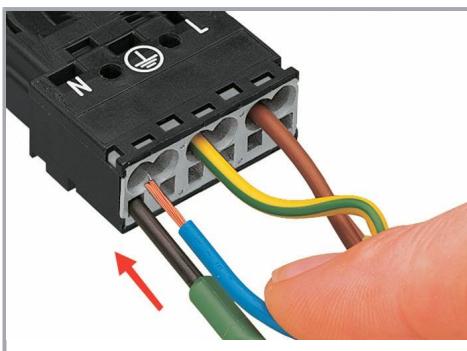
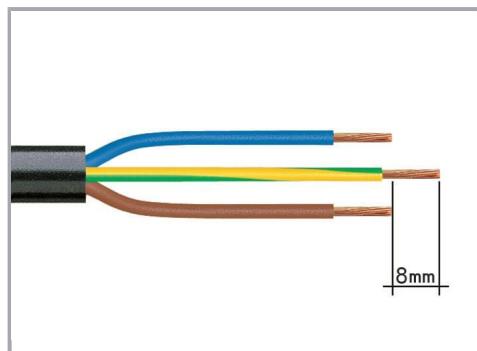
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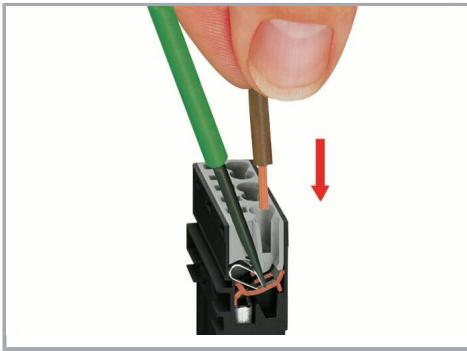
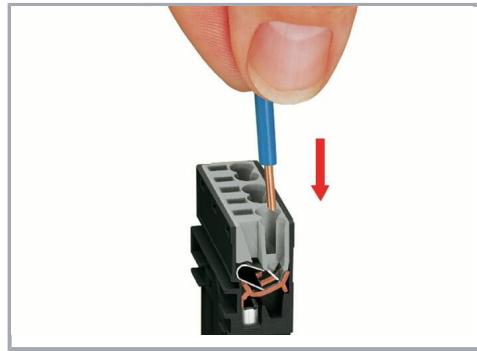
Installation Notes

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.

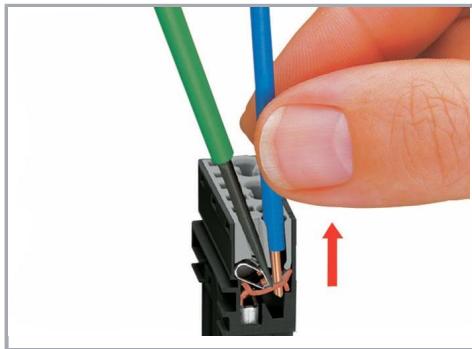
Conductor removal

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

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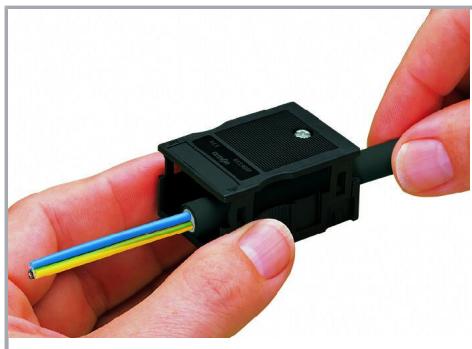
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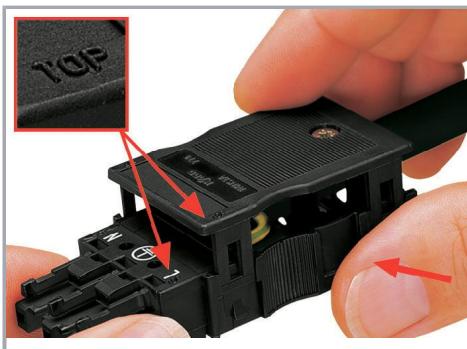


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

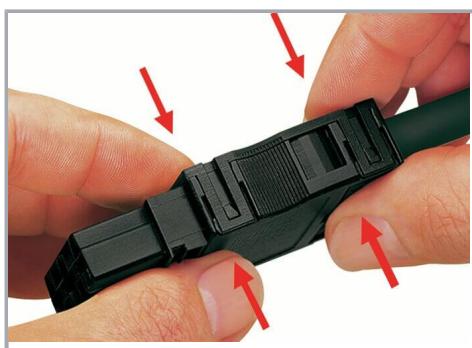
Installation



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!

WINSTA® MIDI

[Show all products from the family](#)

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