

Item description

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

The **WINSTA® MIDI** female connector/socket rated current 25 A allows assembly of fine-stranded and solid conductors. Our pluggable installation connectors with spring pressure connection technology function entirely without screw connections. They allow resource-efficient, error-free installation in a large number of possible uses. 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!)). Thanks to the color coding and mechanical A coding of **WINSTA® MIDI** pluggable installation connectors, you can clearly distinguish different circuits. The rated current and voltage are important criteria for selecting a pluggable installation connector: They tell us about the product's domains of use. This product has a current rating of 25 A – so it is also suitable for high power loads. The **WINSTA® MIDI** Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates safe electrification. Thanks to the integrated test slot, it is possible to check connections even when they are plugged in. This saves time, labor, and money.

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

Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

WINSTA® is the pluggable connection system that is perfectly tailored to the strict requirements of electrical installation. It ensures error-free installation of cables and components, quickly and reliably. Now you can also reduce installation expenses without compromising safety and quality: with protection type IP20 eliminates the need for servicing and prevents unnecessary downtime.

- protection against mismatching eliminates errors
- for automation controllers
- for any mains application
- custom-engineered solutions
- quick replacement of defective units during ongoing operation

Data

Electrical data

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

Connection data

Connection points	8
Total number of potentials	4

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	4 mm² / 12 AWG
Solid conductor	0.5 ... 4 mm² / 20 ... 12 AWG
Solid conductor; push-in termination	1.5 ... 4 mm² / 16 ... 12 AWG
Stranded conductor	0.5 ... 2.5 mm² / 20 ... 14 AWG
Fine-stranded conductor	0.5 ... 4 mm² / 20 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm² / 20 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm² / 20 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1.5 mm² / 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	General mains applications
Coding	A
Variable coding	Yes
Marking	N \pm 2/L 1/L'
Potential marking	N \pm 2/L 1/L'
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

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

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!)
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Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismating protection	Yes
Note on mismating protection	All WINSTA® 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
Color	white
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	0.218 MJ
Weight	12.5 g

Environmental requirements

Processing temperature	-5 ... +40 °C
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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)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918252386
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.	IEC 61535	NL -84761
	CCA DEKRA Certification B.V.	EN 61535	71- 123228

	cURus Underwriters Laboratories Inc.	UL 1977	E45171
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	cURus Underwriters Laboratories Inc.	UL 1059	E 45172
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	VDE VDE Prüf- und Zertifizierungsinstitut	EN 61984	40002889
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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

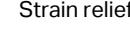
	Item no.770-134 Plug; with strain relief housing; 4-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-134
	Item no.770-234 Plug; 4-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-234
	Item no.770-6224 Linect® T-connector; 4-pole; Cod. A; 1 input; 2 outputs; white	www.wago.com/770-6224
	Item no.770-676 T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white	www.wago.com/770-676
	Item no.770-677 T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white	www.wago.com/770-677

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	Item no.770-734 Snap-in plug; 4-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-734
	Item no.770-734/007-000 Snap-in plug; with direct ground contact; 4-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-734/007-000
	Item no.770-994 h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white	www.wago.com/770-994
	Item no.770-834 Plug for PCBs; straight; 4-pole; Cod. A; white	www.wago.com/770-834
	Item no.770-834/011-000 Plug for PCBs; angled; 4-pole; Cod. A; white	www.wago.com/770-834/011-000
	Item no.770-995 h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white	www.wago.com/770-995
	Item no.771-9994/006-102 pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05VV-F 4G 1.5 mm ² ; 1 m; 1,50 mm ² ; white	www.wago.com/771-9994/006-102
	Item no.771-9994/206-102 pre-assembled connecting cable; Eca; Plug/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm ² ; 1 m; 1,50 mm ² ; white	www.wago.com/771-9994/206-102

Required accessories

Strain relief

	Strain relief housing	
	Item no.: 770-504/023-000 Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; black	www.wago.com/770-504/023-000
	Item no.: 770-514 Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; white	www.wago.com/770-514
	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
	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

Cover

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



Item no.: 770-201

Lockout cap; 12-pole, separable; for sockets; Plastic; black

www.wago.com/770-201



Item no.: 770-221

Lockout lever; 12-pole, separable; for sockets; Plastic; white

www.wago.com/770-221

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



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

Cover

Cover



Item no.: 897-2005

Protective cap; Type4; for sockets and plugs; PVC; red

www.wago.com/897-2005

Marking accessories

Marker



Item no.: 770-450/000-002

Marker card; Plastic; yellow

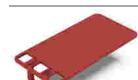
www.wago.com/770-450/000-002



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

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



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



Item no.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719

Mounting

Mounting accessories



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

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

Downloads

Documentation

Bid Text

770-224	2019 Feb 19	xml	Download
X81 - Datei		3.0 kB	
770-224	2018 Apr 10	docx	Download
docx - Datei		14.7 kB	
770-224	2018 Apr 10	doc	Download
doc - Datei		24.1 kB	

CAD/CAE-Data

CAD data

2D/3D Models 770-224	URL	Download
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CAE data

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Asset Administration Shell

Asset Administration Shell 770-224

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Environmental Product Compliance

Compliance Search

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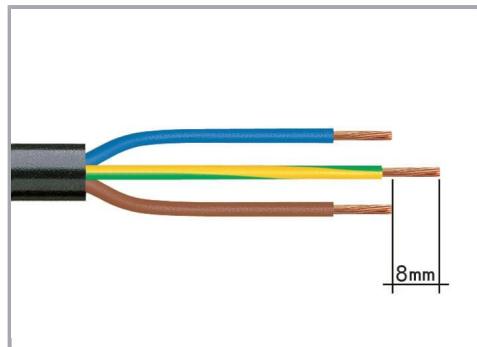
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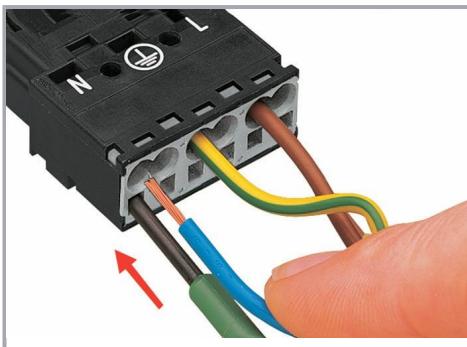
Socket; 4-pole; Cod. A; 4,00 mm²; white

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.

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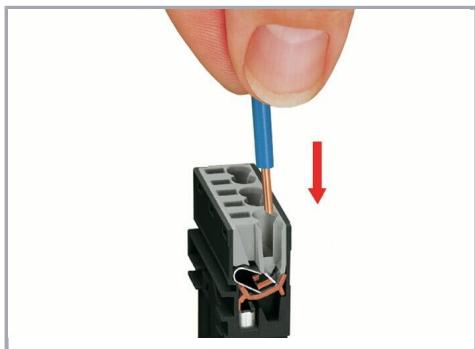
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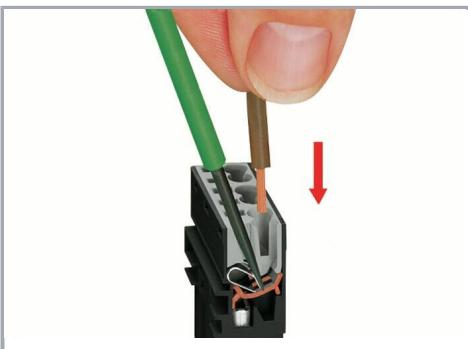
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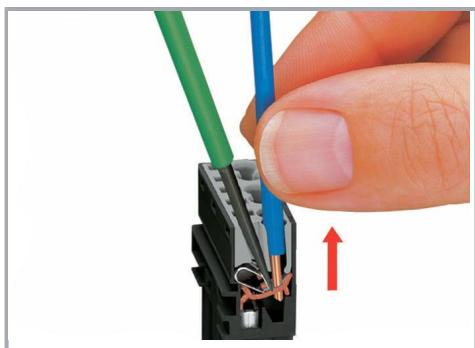


Insert the stripped solid conductor until it hits the backstop.



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



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

Installation

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

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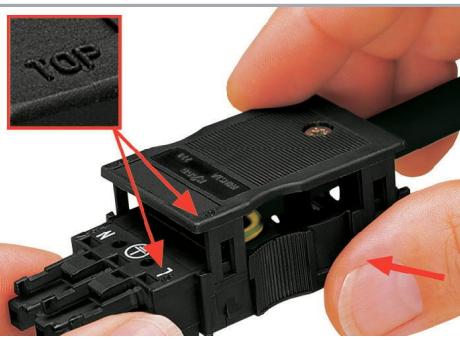
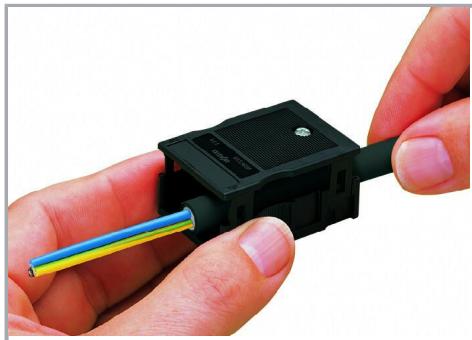
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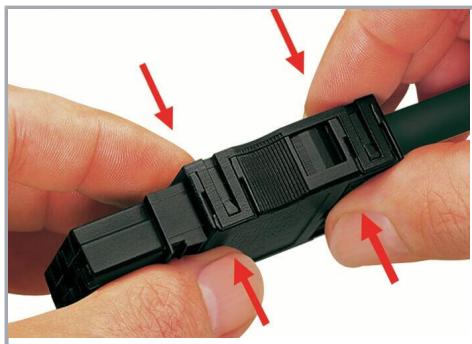
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We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.

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

[Show all products from the family](#)

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