

Item description

Female connector/socket **WINSTA® MIDI** 5-pole

For signal and power transmission: The **WINSTA® MIDI** female connector/socket with protection against mismatching. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to a huge variety of requirements in next to no time. For greater protection in electrical installations, the pluggable installation connector is equipped with mechanical 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!)). This means that users' fingers will never come into contact with live contact elements. **WINSTA® MIDI** pluggable installation connectors with P coding allow proper realization of an fault-free power supply (UPS). 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 suitable for powerful loads. **WINSTA® MIDI** with Push-in CAGE CLAMP® spring pressure connection technology is used in can be found in a variety of projects you can use for quick, easy, secure, tailored electrical installation.

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!

The WINSTA® Pluggable Connection System is ideally tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and consequently faster, even more reliable, and error-free. Use of this pre-assembled system reduces assembly times 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 protection type IP20 from WAGO.

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- pluggable installation connectors with protection against mismatching
- for automation controllers
- with P coding for fault-free power supply
- flexible installation to save space
- convenient installation and commissioning

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	10
Total number of potentials	5

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	5
Conductor entry direction to mating direction	0 °

Physical data

Pin spacing	10 mm / 0.394 inches
Width	50 mm / 1.969 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches

Mechanical Data

Application	EDV (UPS)
Coding	P
Variable coding	No
Marking	N L1 L2 L3
Potential marking	N L1 L2 L3
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	red
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	0.301 MJ
Weight	15.8 g

Environmental requirements

Processing temperature	-5 ... +40 °C
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WAGO GmbH & Co. KG Hansastr. 27 32423 Minden Phone: +49571 887-0 Fax: +49571 887-169 Email: info.de@wago.com Web: www.wago.com	Do you have any questions about our products? We are always happy to take your call at +49 (571) 887-44222.
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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	4045454435103
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
	cURus Underwriters Laboratories Inc.	UL 1059	E 45172

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications

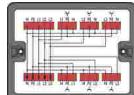
Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19- HG1868589- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	LR Lloyds Register	IEC 61984	LR22429487TA

Counterpart

	Item no.770-2315 Snap-in plug; 5-pole; Cod. P; 4,00 mm ² ; red	www.wago.com/770-2315
	Item no.770-1315 Plug; 5-pole; Cod. P; 4,00 mm ² ; red	www.wago.com/770-1315
	Item no.770-909 3-way distribution connector; 5-pole; Cod. P; 1 input; 3 outputs; red	www.wago.com/770-909
	Item no.770-921 T-distribution connector; 5-pole; Cod. P; 1 input; 2 outputs; outputs on both sides; 2 locking levers; red	www.wago.com/770-921
	Item no.770-940 Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. P; 1 input; 5 outputs; red	www.wago.com/770-940
	Item no.770-922 T-distribution connector; 5-pole; Cod. P; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; red	www.wago.com/770-922
	Item no.771-9975/006-101	www.wago.com/771-9975

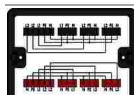
Subject to changes. Please also observe the further product documentation!

pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. P; H05VV-F 5G 1.5 mm²; 1 m; /006-101
1,50 mm²; red

**Item no. 899-631/186-000**

Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 7 outputs; Cod. P; MIDI; black

www.wago.com/899-631/186-000

**Item no. 899-631/302-000**

Distribution box; Three-phase to single-phase current (400 V/230 V); 2 inputs; 6 outputs; Cod. A, P; MIDI; black

www.wago.com/899-631/302-000

**Item no. 771-9975/206-101**

pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. P; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; red

www.wago.com/771-9975/206-101

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

**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

Strain relief**Strain relief housing****Item no.: 770-505/021-000**

Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; black

www.wago.com/770-505/021-000

**Item no.: 770-505/023-000**

Strain relief housing; 5-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; black

www.wago.com/770-505/023-000

**Item no.: 770-505**

Strain relief housing; 5-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; black

www.wago.com/770-505

**Item no.: 770-515**

Strain relief housing; 5-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; white

www.wago.com/770-515

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



Item no.: 770-515/023-000

Strain relief housing; 5-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; white

www.wago.com/770-515/023-000



Item no.: 770-515/021-000

Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; white

www.wago.com/770-515/021-000

Optional accessories

Cover

Cover



Item no.: 770-201

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

www.wago.com/770-201



Item no.: 770-221

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

www.wago.com/770-221



Item no.: 897-2005

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

www.wago.com/897-2005

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

Marking accessories

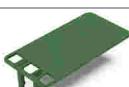
Marker



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

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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

Mounting

Mounting accessories



Item no.: 770-320
Snap-in frame; 5-pole; 1.0 ... 3.0 mm; black

www.wago.com/770-320



Item no.: 770-321
Snap-in frame; 5-pole; 0.5 ... 2.0 mm; black

www.wago.com/770-321



Item no.: 770-340
Snap-in frame; 5-pole; 1.0 ... 3.0 mm; white

www.wago.com/770-340



Item no.: 770-341
Snap-in frame; 5-pole; 0.5 ... 2.0 mm; white

www.wago.com/770-341

Downloads

Documentation

Bid Text

770-1305	2019 Feb 19	xml	Download
X81 - Datei		3.0 kB	
770-1305	2015 Jun 8	doc	Download
doc - Datei		23.6 kB	

CAD/CAE-Data

CAD data

2D/3D Models 770-1305	URL	Download
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CAE data

EPLAN Data Portal 770-1305	URL	Download
WSCAD Universe 770-1305	URL	Download

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Do you have any questions about our products?

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

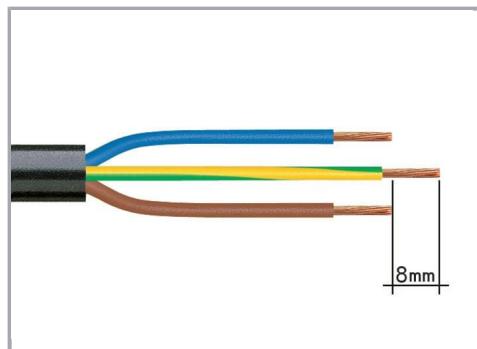
Asset Administration Shell

Environmental Product Compliance

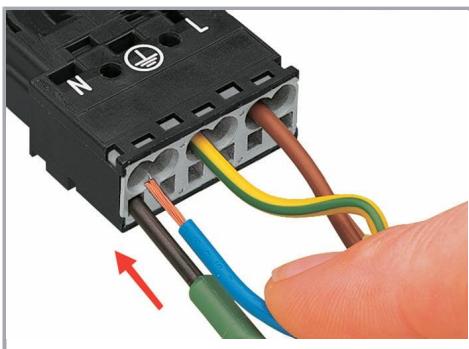
Compliance Search

Installation Notes

Conductor termination

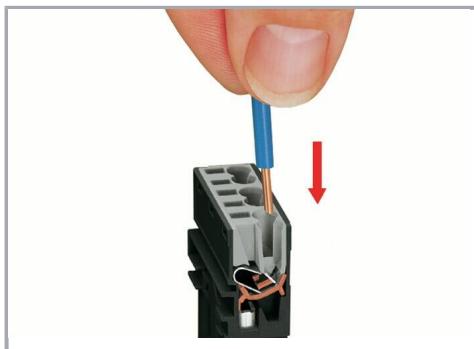


1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm

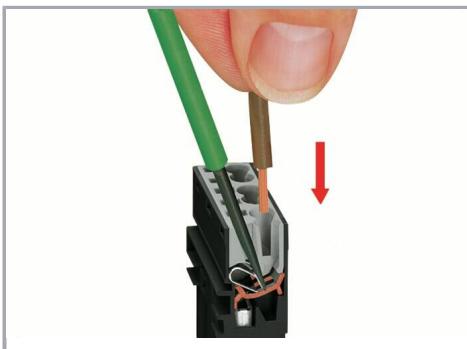


To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

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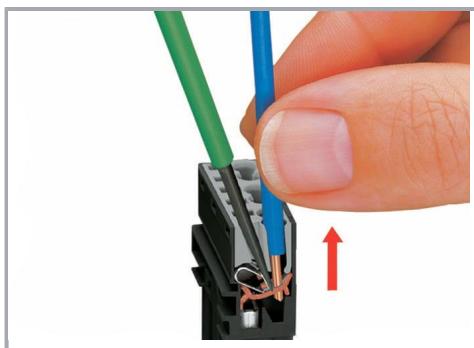


Insert the stripped solid conductor until it hits the backstop.



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.

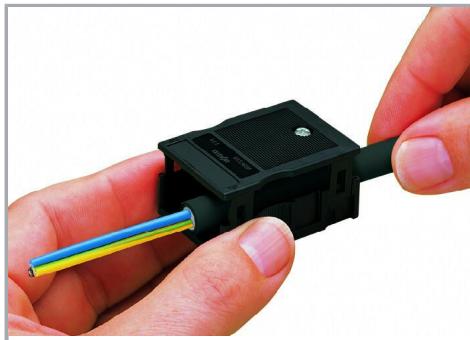
Conductor removal



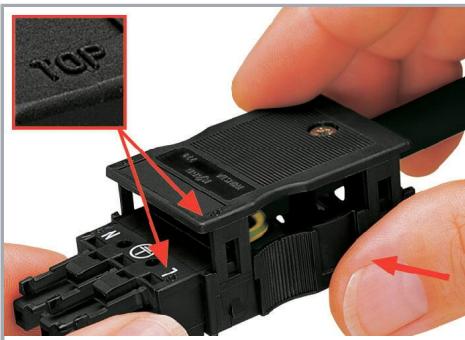
To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

Installation

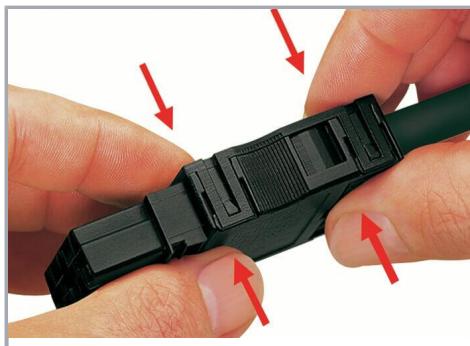
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We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



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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