

Item description

Male connector/plug *WINSTA*® MIDI 3-pole

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA*® MIDI male connector/plug with protection type IP20. Our pluggable installation connectors with spring pressure connection technology work without screw connections. They allow resource-efficient, error-free installation in numerous applications. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including 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!)). UPS applications for data exchange often use the red *WINSTA*® MIDI pluggable installation connectors with P coding. This pluggable installation connector can be employed for a current load of up to 25 A. Thus, it can also be used 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 built-in test slot, connections can be checked even when they are plugged in. This saves time, labor, and money.

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 faster, even more reliable, and error-free. Using this pre-assembled system reduces time spent on assembly and installation errors at the construction site. Choose durability and quality – with protection type IP20 from WAGO makes the installation of electrical components

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

significantly easier.

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- protection against mismatching eliminates errors
- pre-assembled versions
- with P coding for use in realising an uninterruptible 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)	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.
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
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Connection data

Connection points	6
Total number of potentials	3
PE function	Preceding PE contact

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Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool 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	EDV (UPS)
Coding	P
Variable coding	No
Marking	N $\frac{1}{2}$ L
Potential marking	N $\frac{1}{2}$ 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
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)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	Yes
Note on mismating protection	All <i>WINSTA</i> [®] 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	0.21 MJ
Weight	9.9 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

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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
ECCN	NO DATA
PU (SPU)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454391386
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
	EU-Declaration of Conformity	-	-

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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



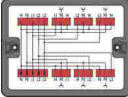
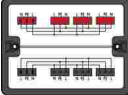
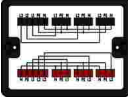
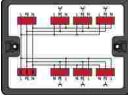
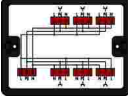
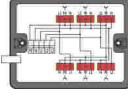
Counterpart

	Item no.770-1303 Socket; 3-pole; Cod. P; 4,00 mm ² ; red	www.wago.com/770-1303
	Item no.770-2303 Snap-in socket; 3-pole; Cod. P; 4,00 mm ² ; red	www.wago.com/770-2303
	Item no.770-907 3-way distribution connector; 3-pole; Cod. P; 1 input; 3 outputs; 2 locking levers; red	www.wago.com/770-907
	Item no.770-934 h-distribution connector; 3-pole; Cod. P; 1 input; 2 outputs; outputs on one side; 2 locking levers; red	www.wago.com/770-934
	Item no.770-936 h-distribution connector; 3-pole; Cod. P; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; red	www.wago.com/770-936
	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.771-9973/006-101 pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. P; H05VV-F 3G 1.5 mm ² ; 1 m; 1,50 mm ² ; red	www.wago.com/771-9973/006-101

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	Item no.772-269 Tap-off module; for flat cable; 5 x 2.5 mm ² + 2 x 1.5 mm ² ; 3-pole; Cod. P; with cable connection on the output side; red	www.wago.com/772-269
	Item no.771-9973/106-101 pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. P; H05VV-F 3G 1.5 mm ² ; 1 m; 1,50 mm ² ; red	www.wago.com/771-9973/106-101
	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.899-631/311-000 Distribution box; Single-phase current (230 V); 2 inputs; 6 outputs; Cod. A, P; MIDI; black	www.wago.com/899-631/311-000
	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.899-631/330-000 Distribution box; Single-phase current (230 V); 1 input; 7 outputs; Cod. P; MIDI; black	www.wago.com/899-631/330-000
	Item no.899-631/331-000 Distribution box; Single-phase current (230 V); 1 input; 6 outputs; Cod. P; MIDI; black	www.wago.com/899-631/331-000
	Item no.899-631/339-000 Distribution box; Three-phase to single-phase current (400 V/230 V); supply cable entry; 1 input; 6 outputs; Cod. P; MIDI; black	www.wago.com/899-631/339-000

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
	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

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Optional accessories

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



Item no.: 770-383

Operating tool; 3-way; green

www.wago.com/770-383

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



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

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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

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

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Downloads Documentation

Bid Text

770-1313 X81 - Datei	2019 Feb 19	xml 3.1 kB	Download
770-1313 doc - Datei	2015 Jun 8	doc 24.1 kB	Download

CAD/CAE-Data

CAD data

2D/3D Models 770-1313	URL	Download
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CAE data

WSCAD Universe 770-1313	URL	Download
EPLAN Data Portal 770-1313	URL	Download
ZUKEN Portal 770-1313	URL	Download

Asset Administration Shell

Asset Administration Shell 770-1313	URL	Download
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Environmental Product Compliance

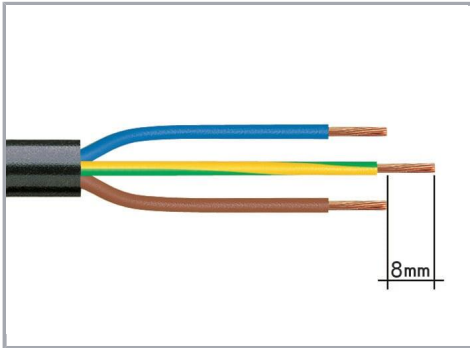
Compliance Search

Environmental Product Compliance 770-1313 Plug; 3-pole; Cod. P; 4,00 mm ² ; red	URL	Download
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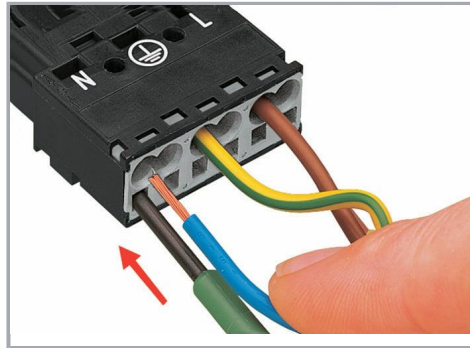
Installation Notes

Conductor termination

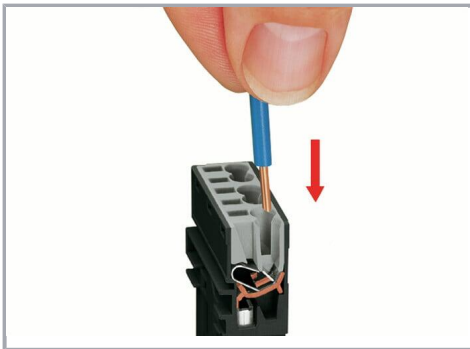
Subject to changes. Please also observe the further product documentation!



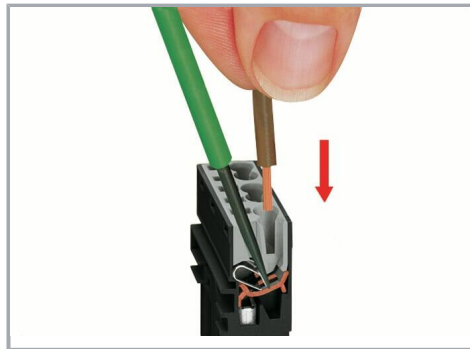
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.

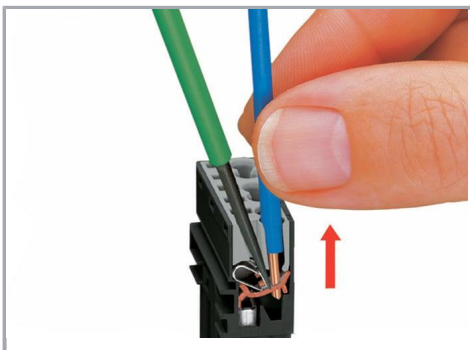


Insert the stripped solid conductor until it hits the backstop.



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.

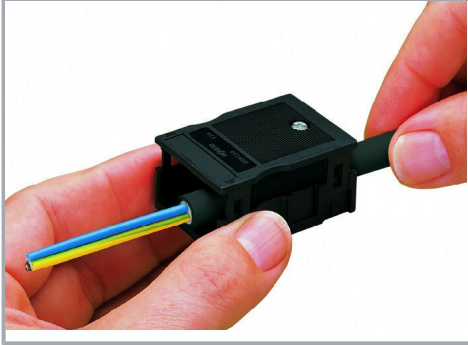
Conductor removal



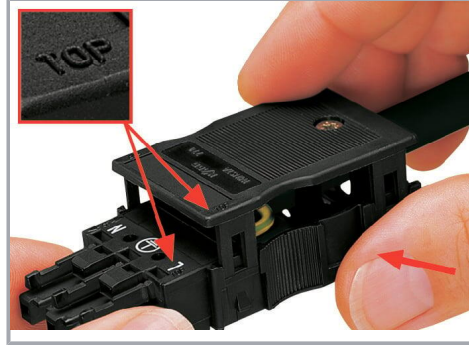
To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

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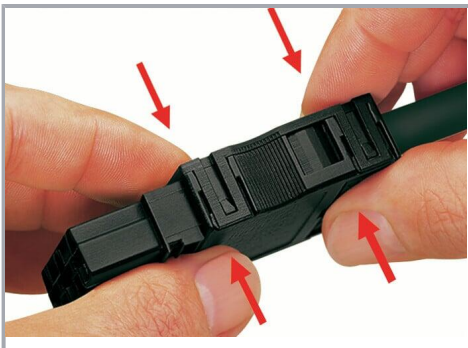
Installation



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

[Show all products from the family](#)

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