Color:

Item description

Female connector/socket WINSTA® MIDI A coding

Use effective pluggable connections instead of laborious screw connections: With the WINSTA® MIDI female connector/socket with protection type IP20. Our pluggable installation connectors with spring pressure connection technology function without screw connections. They allow resource-efficient, error-free installation in a large number of possible uses. The color coding and mechanical coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismating. The pluggable installation connector offers touch-proof protection with live components 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!)). Standard mains applications for almost any domain of use can be implemented with WINSTA® MIDI pluggable installation connectors with A coding. The rated current and voltage are important criteria for selecting a pluggable installation connector: They provide information about possible domains of use and applications. This product has a current rating of 25 A – as a result 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. Due to the included test slot, connections can be checked even when they are plugged in. That saves time and reduces installation labor and costs.

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

WAGO

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

The WINSTA® Pluggable Connection System is perfectly tailored to the strict requirements of building installation. It makes electrical installation pluggable, and thus faster, more reliable, and error-free. Use of this pre-assembled system reduces assembly times 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 with protection against mismating from WAGO.

- ■
- protection against mismating eliminates errors
- pre-assembled versions
- with A coding for a large number of uses
- 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) ≙ 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

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

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Email: info.de@wago.com | Web: www.wago.com

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Connection data

Connection points	5
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	General mains applications
Coding	A
Variable coding	Yes
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!)

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	black
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	0.264 MJ
Weight	15.8 g

Environmental requirements

Processing temperature	-5 … +40 ℃

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

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	4044918252522
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	IEC 61535	NL -84761
KEMA KEUR	**CCA** DEKRA Certification B.V.	EN 61535	71-123228
cURus	**cURus** Underwriters Laboratories Inc.	UL 1977	E45171
cURus	**cURus** Underwriters Laboratories Inc.	UL 1059	E 45172
VDE	**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
CE	**EU-Declaration of Conformity** WAGO GmbH & Co. KG	-	-

Approvals for marine applications

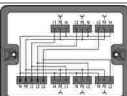| Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19-HG1868589-PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	LR Lloyds Register	IEC 61984	LR22429487TA
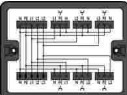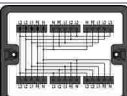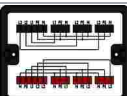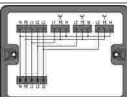
Counterpart

	Item no.770-115 Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-115
	Item no.770-215 Plug; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-215
	Item no.770-315 Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-315
	Item no.770-609 3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; black	www.wago.com/770-609
	Item no.770-415 Plug; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-415
	Item no.770-621 T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	www.wago.com/770-621

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

	Item no.770-622	www.wago.com/770-622
	T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black	
	Item no.770-640	www.wago.com/770-640
	Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 5 outputs; black	
	Item no.770-659	www.wago.com/770-659
	3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; white	
	Item no.770-715	www.wago.com/770-715
	Snap-in plug; 5-pole; Cod. A; 4,00 mm²; black	
	Item no.770-815/011-000	www.wago.com/770-815 /011-000
	Plug for PCBs; angled; 5-pole; Cod. A; black	
	Item no.770-815	www.wago.com/770-815
	Plug for PCBs; straight; 5-pole; Cod. A; black	
	Item no.770-715/007-000	www.wago.com/770-715 /007-000
	Snap-in plug; with direct ground contact; 5-pole; Cod. A; 4,00 mm²; black	
	Item no.771-9995/006-101	www.wago.com/771-9995 /006-101
	pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black	
	Item no.899-631/100-000	www.wago.com/899-631 /100-000
	Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 7 outputs; Cod. A; MIDI; black	
	Item no.771-9995/206-101	www.wago.com/771-9995 /206-101
	pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black	
	Item no.899-631/105-000	www.wago.com/899-631 /105-000
	Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 6 outputs; Cod. A; MIDI; black	
	Item no.899-631/187-000	www.wago.com/899-631 /187-000
	Distribution box; Three-phase current (400 V); 1 input; 5 outputs; Cod. A; MIDI; black	
	Item no.899-631/302-000	www.wago.com/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	
	Item no.899-631/346-000	www.wago.com/899-631 /346-000
	Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 4 outputs; Cod. A; MIDI; black	

Required accessories

Locking levers

Locking system

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

	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

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

Wiring aid

| | Item no.: 770-100
Wiring aid; 2- to 5-pole; Plastic; orange | www.wago.com/770-100 |

Operating tool

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

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.: 770-320
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

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

Downloads
Documentation

Bid Text

770-405 X81 - Datei	2019 Feb 19	xml 3.0 kB	Download
770-405 doc - Datei	2015 Jun 8	doc 24.1 kB	Download

CAD/CAE-Data

CAE data

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WSCAD Universe 770-405		URL	Download
ZUKEN Portal 770-405		URL	Download
EPLAN Data Portal 770-405		URL	Download
CAD data			
2D/3D Models 770-405		URL	Download
Asset Administration Shell			
Asset Administration Shell 770-405		URL	Download

Environmental Product Compliance

Compliance Search

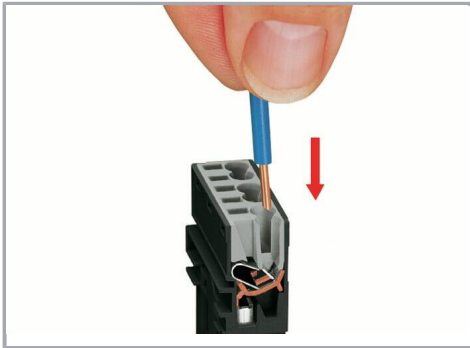|			
Environmental Product Compliance 770-405 Socket; 5-pole; Cod. A; 4,00 mm²; black		URL	Download

Installation Notes

Conductor termination
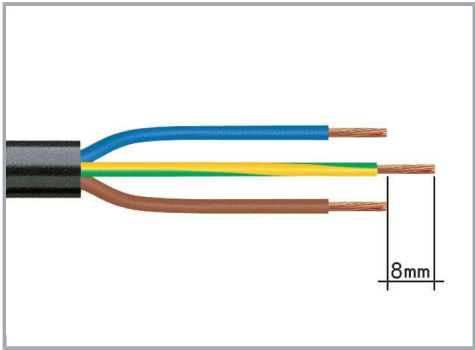
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
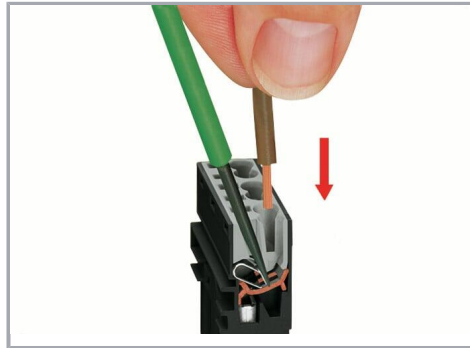3. Extended ground conductor = 8 mm
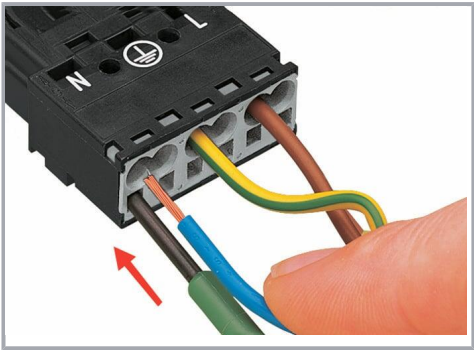
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

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

Do you have any questions about our products?
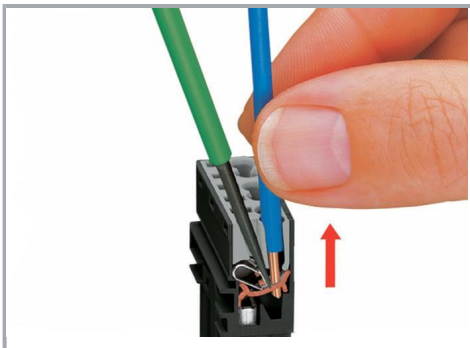We are always happy to take your call at +49 (571) 887-44222.

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.
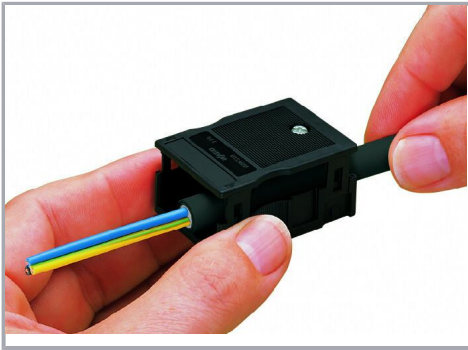
Conductor removal

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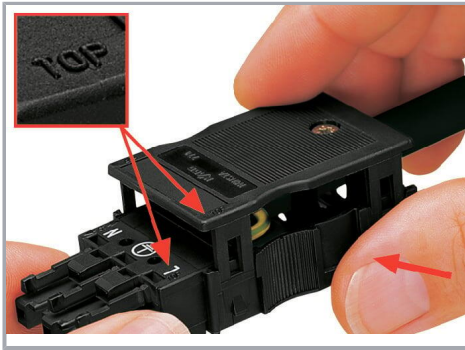
Installation

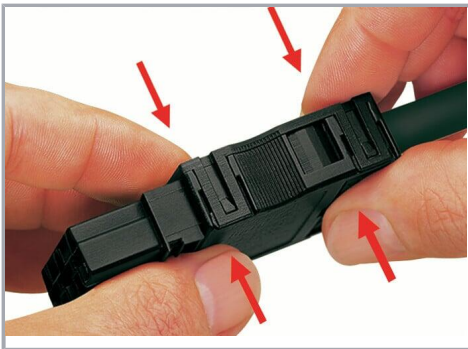Subject to changes. Please also observe the further product documentation!

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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

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

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