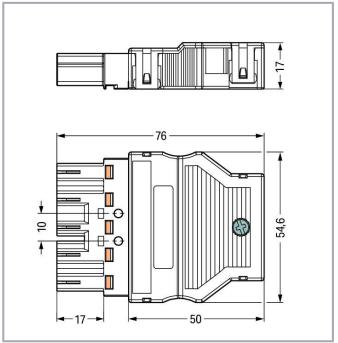
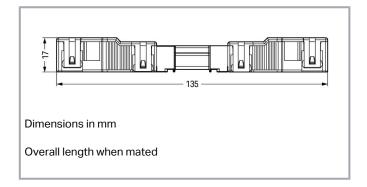
Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; black

www.wago.com/770-115









#### Item description

Male connector/plug WINSTA® MIDI A coding

The WINSTA® MIDI male connector/plug A coding ensures rapid, correct installation. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to an enormous variety of requirements in no time flat.

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 is protected against ingress by solid objects in accordance with protection type IP20. The WINSTA® MIDI pluggable installation connector with A coding in black or white is normally used for general mains

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

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applications in power distribution. Important parameters in the selection of a pluggable installation connector are the rated current and voltage: They tell us about the product's domains of use. This product has a current rating of 25 A – as a result it is suitable for high power loads. The *WINSTA* ® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates exemplary electrification. Due to the included test slot, it is possible to check connections even when they are plugged in. This saves time, labor, and money. A range up to 55 mm can be used for the strip length.

Lower costs through fast commissioning and elimination of service expenses – solutions from WINSTA® MIDI

The WINSTA® Pluggable Connection System is perfectly tailored to the strict requirements of building installation. It makes electrical installation pluggable, and therefore faster, even more reliable, and error-free. Use of this pre-assembled system reduces assembly times and errors during installation at the construction site. Choose durability and quality – the WINSTA® MIDI pluggable installation connector with marking from WAGO makes the installation of electrical components substantially easier.

- effective protection against mismating
- for automation controllers
- with A coding for a large number of applications
- ready for immediate use
- convenient installation and commissioning

#### Data

#### Electrical data

Note on contact resistance	approx. 1 m $\Omega$ of contact resistance approx. 0.25 m $\Omega$ contact	
	transition plug/socket	

## Ratings per IEC/EN

Ratings per	IEC/EN 60664-1	
Nominal voltage (III/3)	400 V	
Rated surge voltage (III/3)	6 kV	
Rated current	25 A	
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3	

## Ratings per UL

Hinweis für den amerikanischen Markt	Application note for the U.S. market (USR): 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

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## Connection data

Connection technology	Push-in CAGE CLAMP <sup>®</sup>
Actuation type	Operating tool
	Push-in
Nominal cross-section	4 mm²
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 inch
Note (strip length)	see also packaging or instructions
Pole No.	5
Total number of connection points	10
Total number of potentials	5
Ground function	preceding ground contact
Connectable sheathed cable diameter	9 13 mm
Conductor entry direction to mating direction	0°
Strip length (outer insulation)	55 mm

# Physical data

Pin spacing	10 mm / 0.394 inch
Width	54.6 mm / 2.15 inch
Height	17 mm / 0.669 inch
Depth	75.9 mm / 2.988 inch

## Mechanical data

Application	General mains applications
Coding	A
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)

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200, without resistive load
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
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
Hinweis zur Verriegelung	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).
Strain relief	strain relief housing

## Material data

Color	black
Insulation material	Polyamide (PA66)
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper or copper alloy (surface-treated)
Fire load	0.422 MJ
Weight	29.7 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)
Packaging type	box

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Country of	origin	DE	
GTIN		4044918254441	
Customs ta	riff number	85366990990	
Approvals	/ Certificates		
Country spec	cific Approvals		
Logo	Approval	Additional Approval Text	Certificate name
KEMA	CCA DEKRA Certification B.V.	EN 61535	2173495.02
	CCA DEKRA Certification B.V.	IEC 61535	NL-32105
VDE	VDE VDE Prüf- und Zertifizierungsinstitut	EN 61535	40029808
Ship Approva	als		Certificate
Logo	Approval	Additional Approval Text	name
ABS.	ABS American Bureau of Shipping	-	19- HG1868589 PDA
DNV-GL MARITIME	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
OF LAND THE PROPERTY OF THE PR	LR Lloyds Register	IEC 61984	02/20050 (E6)
JL-Approval	S		O anti-fi a a ta
Logo	Approval	Additional Approval Text	Certificate name
	cURus	UL 1977	E45171
. <b>511</b> iis	Underwriters Laboratories Inc.		Sec. 9

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## Counterpart

Item no.770-105 Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770- 105
Item no.770-205 Socket; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770- 205
Item no.770-305 Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770- 305
Item no.770-405 Socket; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770- 405
Item no.770-609  3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; black	www.wago.com/770- 609
Item no.770-621 T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	www.wago.com/770- 621
Item no.770-611 Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 2 outputs; with cable connection on the input side; black	www.wago.com/770- 611
Item no.770-622 T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black	www.wago.com/770- 622
Item no.770-640 Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 5 outputs; black	www.wago.com/770- 640
Item no.770-705 Snap-in socket; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770- 705
Item no.770-659  3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; white	www.wago.com/770- 659
Item no.770-705/009-000 Snap-in socket; with protruding mating face; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770- 705/009-000
Item no.770-805/011-000 Socket for PCBs; angled; 5-pole; Cod. A; black	www.wago.com/770- 805/011-000
	Item no.770-205 Socket; 5-pole; Cod. A; 4,00 mm²; black  Item no.770-305 Socket; 5-pole; Cod. A; 4,00 mm²; black  Item no.770-305 Socket; 5-pole; Cod. A; 4,00 mm²; black  Item no.770-405 Socket; 5-pole; Cod. A; 4,00 mm²; black  Item no.770-609 3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; black  Item no.770-621 T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black  Item no.770-611 Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 2 outputs; with cable connection on the input side; black  Item no.770-622 T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black  Item no.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.770-705 Snap-in socket; 5-pole; Cod. A; 4,00 mm²; black  Item no.770-659 3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; white  Item no.770-705/009-000 Snap-in socket; with protruding mating face; 5-pole; Cod. A; 4,00 mm²; black  Item no.770-805/011-000

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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Item no.770-805 Socket for PCBs; straight; 5-pole; Cod. A; black

www.wago.com/770-805

53 100	
	4

Item no.771-9995/006-101

pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>: black

www.wago.com/771-9995/006-101



Item no.772-262

Tap-off module; for flat cable;  $5 \times 2.5 \text{ mm}^2 + 2 \times 1.5 \text{ mm}^2$ ; 5-pole; Cod. A; with cable connection on the output side; black

www.wago.com/772-262



Item no.899-631/100-000

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

www.wago.com/899-631/100-000



Item no.899-631/187-000

Distribution box; Three-phase current (400 V); 1 input; 5 outputs; Cod. A; MIDI; black

www.wago.com/899-631/187-000



Item no.771-9995/106-101

pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black

www.wago.com/771-9995/106-101

## Required accessories

## Cover

_	Item no.: 770-360	www.waga.com/770.260
erer	Lockout cap; for plugs; 5-pole; separable; yellow	www.wago.com/770-360
Locking	levers	
_	Item no.: 770-101	www.wago.com/770-101
	Locking lever; for flying leads; for manual operation; black	www.wago.com///o-tot
_	Item no.: 770-111	www.wogo.com/770.111
4	Locking lever; for flying leads; for tool operation; black	www.wago.com/770-111
	Item no.: 770-121	www.wago.com/770-121
	Locking lever; for flying leads; for manual operation; white	www.wago.com//70-121
	Item no.: 770-131	www.wogo.com/770.121
•	Locking lever; for flying leads; for tool operation; white	www.wago.com/770-131

#### Optional accessories

### Cover

Item no.: 897-2005

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

www.wago.com/897-2005

## Coding

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	Item no.: 770-401 Coding pin; for plugs; Plastic; gray		www.wago.com/770-401	
Marking acc				
	Item no.: 770-450 Marker card; Plastic; white		www.wago.	com/770-450
•	ltem no.: 770-450/000-001 Marker card; Plastic; green		www.wago. /000-001	com/770-450
-	Item no.: 770-450/000-002 Marker card; Plastic; yellow		www.wago. /000-002	com/770-450
-	Item no.: 770-450/000-005 Marker card; Plastic; red		www.wago.com/770-450 /000-005	
-	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				
	Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated	d shaft	www.wago.com/210-719	
•	Item no.: 770-100 Wiring aid; 2- to 5-pole; Plastic; orange		www.wago.com/770-100	
Download Documen				
Bid Text				
770-115 X81 - Datei		19.02.2019	xml 3.1 kB	Download
770-115 doc - Datei		08.06.2015	doc 24.1 kB	Download

## CAD/CAE-Data

CAD data

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2D/3D Models 770-115	URL	Download
CAE data		
EPLAN Data Portal 770-115	URL	Download
WSCAD Universe 770-115	URL	Download
ZUKEN Portal 770-115	URL	Download

# **Environmental Product Compliance**

#### Compliance Search

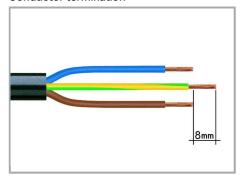
Environmental Product Compliance 770-115
Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black

URL

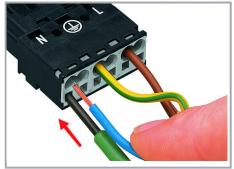
Download

#### **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.



Insert the stripped solid conductor until it hits the backstop.

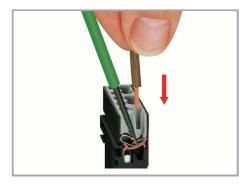
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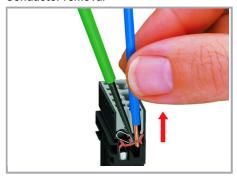
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To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

#### Conductor removal



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

Installation

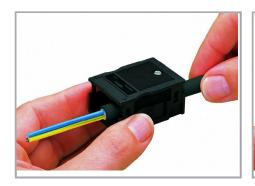
 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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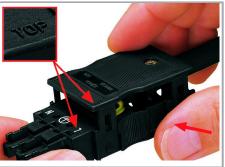
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We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



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**

<i>WINSTA</i>
® MIDI
Show all products from the family

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