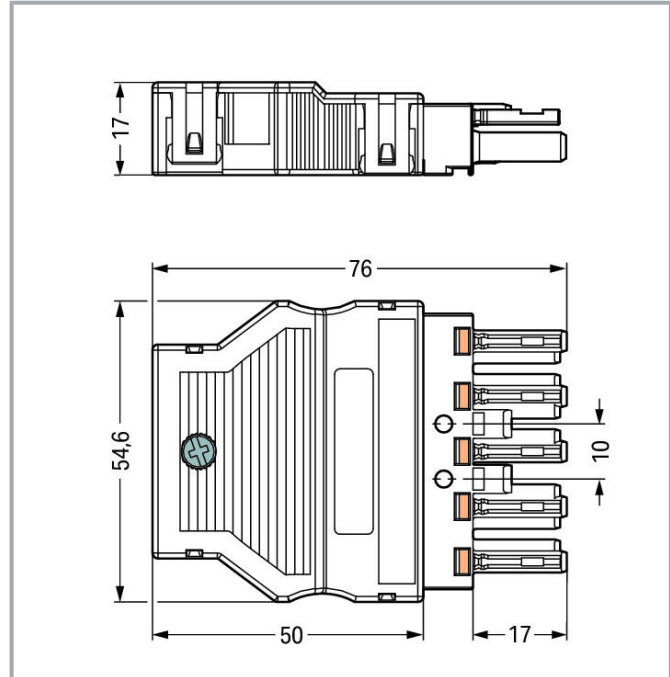


Data sheet | Item number: 770-335

Plug; with strain relief housing; 5-pole; 4,00 mm²; white

www.wago.com/770-335



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

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Item description

Male connector/plug *WINSTA*® MIDI A coding

The *WINSTA*® MIDI male connector/plug with protection type IP20 provides the foundation for assembly of solid and fine-stranded conductors. WAGO pluggable installation connectors are used when requirements repeat or are distributed on a specified pattern, for example for installing grid lighting or flush-mount lighting. 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 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 elements. 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

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



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 integrated test slot, it is possible to check connections even when they are plugged in. That saves time and reduces installation labor and costs. A range up to 55 mm can be used for the strip length.

WINSTA® MIDI solutions for your electrical installation – protected against mismating and maintenance-free

The **WINSTA®** Pluggable Connection System is ideally tailored to the strict requirements of building installation. It makes electrical installation pluggable, and therefore more efficient, more reliable, and error-free. Use of this pre-assembled system decreases assembly times and installation errors at the construction site. Choose quality and durability – the **WINSTA®** MIDI pluggable installation connector with protection against mismating from WAGO makes the installation of electrical components visibly easier.

- protection against mismating eliminates errors
- for automation controllers
- with A coding for use in a large number of general mains applications
- ready for immediate use
- quick replacement of defective units during ongoing operation

Data

Electrical data

Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket
----------------------------	--

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

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

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Rated current UL 1977

23 A

Connection data

Total number of connection points	5
Total number of potentials	5
PE function	Preceding PE contact

Connection 1

Connection technology	Push-in CAGE CLAMP®
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
Pole number	5
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
Variable coding	Yes
Marking	L3 L2 L1 ÷ N

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Potential marking	L3 L2 L1 $\perp$ N
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!)

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
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).
Strain relief	strain relief housing

Material data

Note (material data)	Information on material data can be found here
Color	white
Cover color	gray
Insulation material	Polyamide (PA66)
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Fire load	0.421 MJ
Weight	29.6 g

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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)
PU (SPU)	25 Each
Packaging type	box
Country of origin VKOrg Germany	DE
GTIN	4044918254700
Customs tariff number VKOrg Germany	85366990990

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61535	2173495.02
	CCA DEKRA Certification B.V.	IEC 61535	NL-32105
	VDE VDE Prüf- und Zertifizierungsinstitut	EN 61984	40002889

Ship Approvals

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	02/20050 (E6)

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



UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	cURus Underwriters Laboratories Inc.	UL 1977	E45171

Counterpart

	Item no.770-225 Socket; 5-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-225
	Item no.770-125 Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-125
	Item no.770-425 Socket; 5-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-425
	Item no.770-325 Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-325
	Item no.770-690 Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 5 outputs; white	www.wago.com/770-690
	Item no.770-725/009-000 Snap-in socket; with protruding mating face; 5-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-725/009-000
	Item no.770-725 Snap-in socket; 5-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-725

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**Item no. 770-825**

Socket for PCBs; straight; 5-pole; Cod. A; white

www.wago.com/770-825**Item no. 770-661**

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; white

www.wago.com/770-661**Item no. 770-671**

T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white

www.wago.com/770-671**Item no. 770-672**

T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white

www.wago.com/770-672**Item no. 770-6225**

Linect® T-connector; 5-pole; Cod. A; 1 input; 2 outputs; white

www.wago.com/770-6225**Item no. 771-9995/106-102**

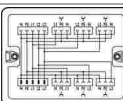
pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; white

www.wago.com/771-9995/106-102**Item no. 770-825/011-000**

Socket for PCBs; angled; 5-pole; Cod. A; white

www.wago.com/770-825/011-000**Item no. 771-9995/006-102**

pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; white

www.wago.com/771-9995/006-102**Item no. 899-681/100-000**

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

www.wago.com/899-681/100-000

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

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**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****Coding**

Coding

**Item no.: 770-401**

Coding pin; for plugs; Plastic; gray

www.wago.com/770-401**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

**Item no.: 210-719**www.wago.com/210-719

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Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Cover

Cover

Item no.: 770-360

Lockout cap; for plugs; 5-pole; separable; yellow

www.wago.com/770-360

Other

**Item no.: 897-2005**

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

www.wago.com/897-2005**Downloads****Documentation****Bid Text**

770-335	2019 Feb 19	xml	Download
X81 - Datei		3.1 kB	
770-335	2015 Jun 8	doc	Download
doc - Datei		24.1 kB	

CAD/CAE-Data**CAD data**

2D/3D Models 770-335	URL	Download
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CAE data

EPLAN Data Portal 770-335	URL	Download
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ZUKEN Portal 770-335	URL	Download
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WSCAD Universe 770-335	URL	Download
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Environmental Product Compliance**Compliance Search**

Environmental Product Compliance 770-335	URL	Download
Plug; with strain relief housing; 5-pole; 4,00 mm ² ; white		

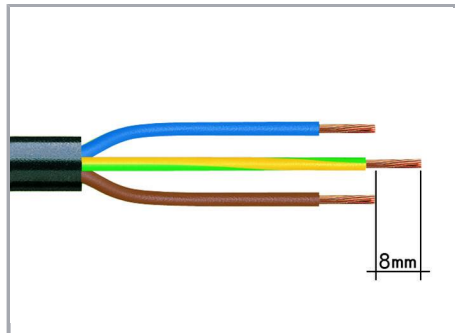
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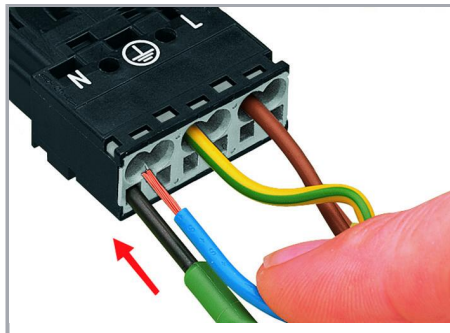
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Installation Notes

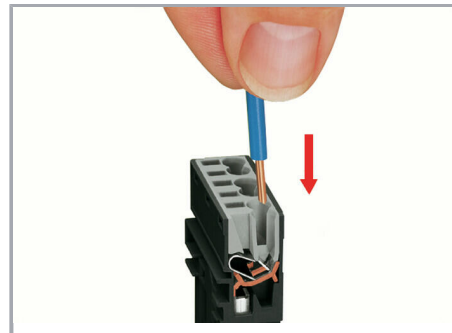
Conductor termination



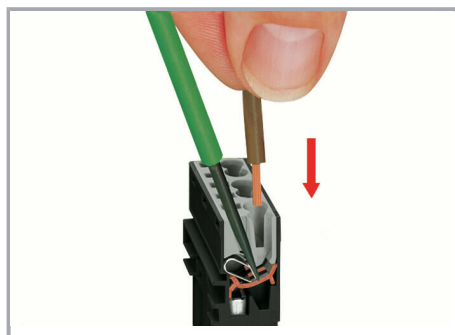
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.



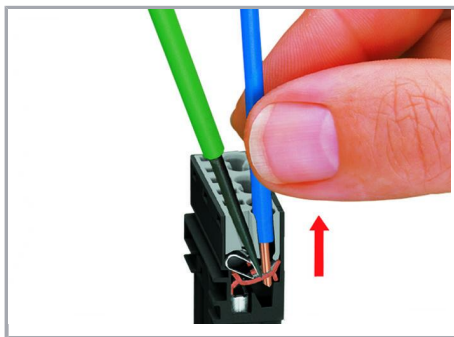
Insert the stripped solid conductor until it hits the backstop.



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.

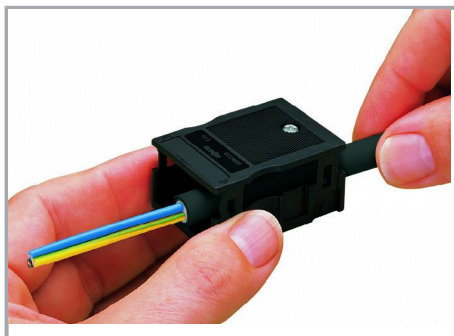
Conductor removal

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

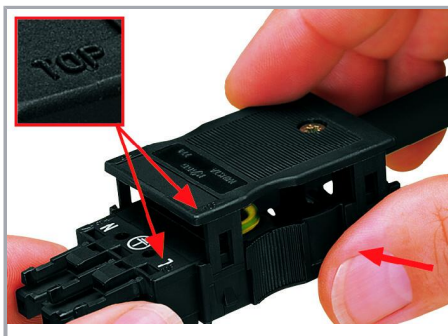


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

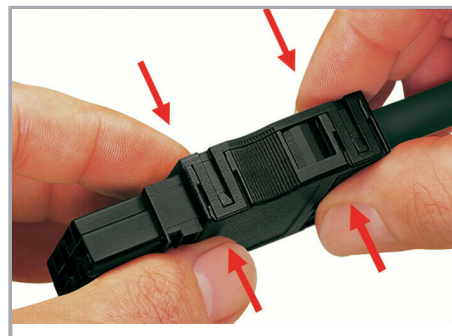
Installation



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).

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



Product family

WINSTA® MIDI

[Show all products from the family](#)

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