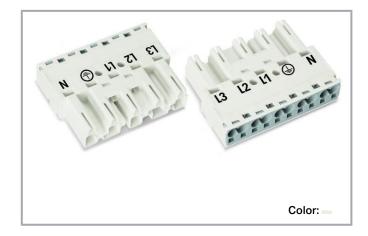
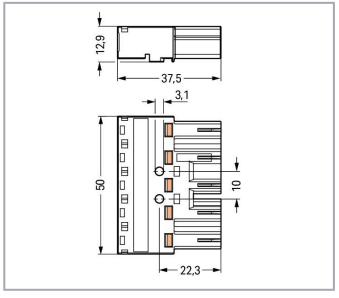
Plug; 5-pole; Cod. A; 4,00 mm²; white

www.wago.com/770-235







Item description

Male connector/plug WINSTA® MIDI rated current 25 A

The WINSTA® MIDI male connector/plug with protection against mismating provides the foundation for assembly of fine-stranded and solid conductors. 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 seconds. The coding options reduce installation errors, allowing fast, secure wiring of all components. 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!)). General mains applications for almost any domain of use can be realised with WINSTA® MIDI pluggable installation connectors with A coding. This pluggable installation connector can be used for electrical currents up to 25 A. Thus the product is especially suitable for high power loads. The WINSTA® MIDI product line offers flexibility for the electrical installation. Through its Push-in CAGE CLAMP® spring pressure connection technology, it ensures error-free, time-saving installation and offers customization and flexibility for meeting various installation requirements.

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

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

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pluggable, and thus more efficient, even more reliable, and error-free. Using this pre-assembled system decreases 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
- for any mains application
- ready to install and use immediately
- 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) ≙ 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

Connection data

Connection points	10
Total number of potentials	5
PE function	Preceding PE contact

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

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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	L3 L2 L1
Potential marking	L3 L2 L1
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!)

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

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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 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	white
Cover color	gray
Material group	T
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.357 MJ
Weight	16.3 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)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918254601
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	CCA DEKRA Certification B.V.	EN 61535	71- 123228
c 91 2°us	cURus Underwriters Laboratories Inc.	UL 1977	E45171
c 91 2 us	cURus Underwriters Laboratories Inc.	UL 1059	E 45172



VDE

VDE Prüf- und Zertifizierungsinstitut

EN 61984 40002889

Declarations of conformity and manufacturer's declarations

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Logo	Approval	Additional Approval Text	Certificate name
CE	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
Approvals fo	r marine applications		
Logo	Approval	Additional Approval Text	Certificate name
ABS.	ABS American Bureau of Shipping	-	19- HG1868589- PDA
ONVEONAR ON TO SHOULD AND THE SHOULD	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
CI	LR Lloyds Register	IEC 61984	LR22429487TA

Counterpart

	Item no.770-125 Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; white	www.wago.com/770- 125
	Item no.770-325 Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; white	www.wago.com/770- 325
	Item no.770-425 Socket; 5-pole; Cod. A; 4,00 mm²; white	www.wago.com/770- 425
5 . 11 8 . 11 8 . 11 8 . 1 8 . 1 8 . 1 8 . 1 8 . 1 8 . 1 8 . 1 8 . 1 8 . 1 8 . 1 8 . 1 8 . 1 8 . 1 8 . 1 8 . 1	Item no.770-225 Socket; 5-pole; Cod. A; 4,00 mm²; white	www.wago.com/770- 225
	Item no.770-6225 Linect® T-connector; 5-pole; Cod. A; 1 input; 2 outputs; white	www.wago.com/770- 6225
	Item no.770-671 T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white	www.wago.com/770- 671

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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

661



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-

www.wago.com/770-

672



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

Snap-in socket; 5-pole; Cod. A; 4,00 mm²; white

www.wago.com/770-

725



Item no.770-725/009-000

Snap-in socket; with protruding mating face; 5-pole; Cod. A; 4,00 mm²; white

www.wago.com/770-725/009-000



Item no.770-825

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

www.wago.com/770-

825



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.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.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



Item no.: 770-101

Locking lever; for flying leads; for manual operation; black

www.wago.com/770-101

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Item no.: 770-111 Locking lever; for flying leads; for tool operation; black

www.wago.com/770-111

Strain relief		
Strain relief	housing	
99	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
94	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
	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		
Cover		
FARRE	Item no.: 770-360 Lockout cap; for plugs; 5-pole; separable; yellow	www.wago.com/770-360
•	Item no.: 897-2005 Protective cap; Type4; for sockets and plugs; PVC; red	www.wago.com/897-2005
Marking acce	ssories	
Marker		
	Item no.: 770-450/000-002 Marker card; Plastic; yellow	www.wago.com/770-450 /000-002
ip.	Item no.: 770-450/000-001 Marker card; Plastic; green	www.wago.com/770-450 /000-001

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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.: 770-320

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

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

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

www.wago.com/210-719

Coding

Coding



Item no.: 770-401

Coding pin; for plugs; Plastic; gray

www.wago.com/770-401

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Downloads Documentation

Bid Text

770-235 X81 - Datei	2019 Feb 19	xml 3.0 kB	Download
770-235 doc - Datei	2015 Jun 8	doc 24.1 kB	Download

CAD/CAE-Data

CAD data

2D/3D Models 770-235	URL	Download
CAE data		
ZUKEN Portal 770-235	URL	Download
EPLAN Data Portal 770-235	URL	Download
WSCAD Universe 770-235	URL	Download
Asset Administration Shell		
Asset Administration Shell 770-235	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-235 URL Download Plug; 5-pole; Cod. A; 4,00 mm²; white

Installation Notes

Conductor termination

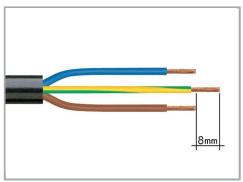
 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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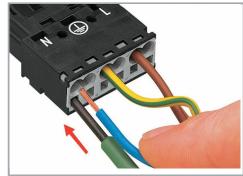
www.wago.com/770-235



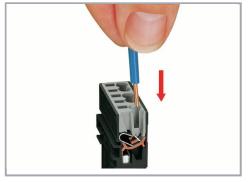


1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

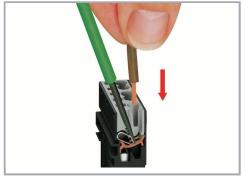
- 2. Strip length = 9 mm
- 3. Extended ground conductor = 8 mm



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.

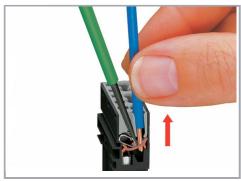


Insert the stripped solid conductor until it hits the backstop.



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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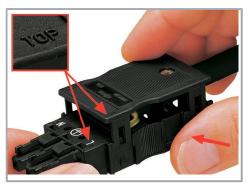
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W/AGO

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

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

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