

Item description

Male connector/plug WINSTA® MIDI rated current 25 A

The WINSTA® MIDI male connector/plug with protection type IP20 allows 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 establish connections according to many different requirements in seconds. The color coding and mechanical 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 energised contact elements. The WINSTA® MIDI pluggable

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

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installation connector with A coding in black or white is usually used for general mains applications in power distribution. This pluggable installation connector is designed for a load of up to 25 A. Thus, it can also be used for high power loads. The **WINSTA® MIDI** product line offers maximum flexibility for the installation of applications. Through its Push-in CAGE CLAMP® spring pressure connection technology, it guarantees time-saving, error-free installation and offers flexibility and customization for meeting various installation requirements. A range up to 55 mm can be used for the strip length.

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

The **WINSTA®** Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Choose quality and durability – with protection type IP20 from WAGO makes the installation of electrical components substantially easier.

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- protection against mismatching eliminates errors
- for automation controllers
- with A coding for a great number of applications
- exact dimensions
- 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

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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	10
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 / 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 °
Strip length (outer insulation)	55 mm

Physical data

Pin spacing	10 mm / 0.394 inches
Width	54.6 mm / 2.15 inches
Height	17 mm / 0.669 inches
Depth	76 mm / 2.992 inches

Mechanical Data

Application	General mains applications
Coding	A

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

Variable coding	Yes
Marking	L3 L2 L1 \pm N
Potential marking	L3 L2 L1 \pm 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 specifications can be found here

Color	white
Cover color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)

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

Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.781 MJ
Weight	29.5 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)
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)	25 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918254502
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.	IEC 61535	NL-84761
	CCA DEKRA Certification B.V.	EN 61535	71- 123228
	cURus Underwriters Laboratories Inc.	UL 1977	E45171

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cURus	UL 1059	E 45172
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Underwriters Laboratories Inc.

VDE	EN 61535	40029808
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VDE Prüf- und Zertifizierungsinstitut

VDE	EN 61984	40002889
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VDE Prüf- und Zertifizierungsinstitut

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	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

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Counterpart

	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.770-225 Socket; 5-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-225
	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.770-6225 Linect® T-connector; 5-pole; Cod. A; 1 input; 2 outputs; white	www.wago.com/770-6225
	Item no.770-425 Socket; 5-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-425
	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.770-690 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 mm ² ; 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 mm ² ; 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	www.wago.com/771-9995/006-102

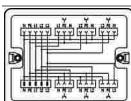
Subject to changes. Please also observe the further product documentation!

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



Item no.: 770-111

Locking lever; for flying leads; for tool operation; black www.wago.com/770-111

Optional accessories

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

Marking accessories

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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

Cover

Cover
Cover

Item no.: 770-360 Lockout cap; for plugs; 5-pole; separable; yellow


Item no.: 897-2005 Protective cap; Type4; for sockets and plugs; PVC; red

Downloads

Documentation

Bid Text

770-135 X81 - Datei	2019 Feb 19	xml 3.1 kB	Download
770-135 doc - Datei	2015 Jun 8	doc 24.1 kB	Download
ausschreiben.de 770-135		URL	Download

CAD/CAE-Data

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CAD data

2D/3D Models 770-135

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CAE data

EPLAN Data Portal 770-135

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Environmental Product Compliance

Compliance Search

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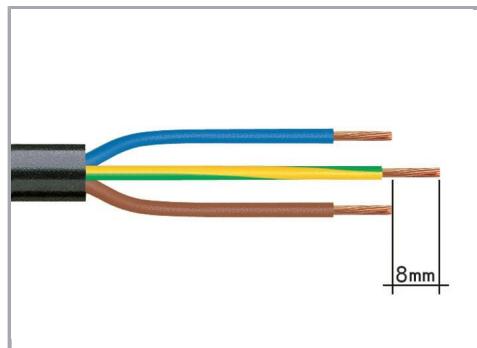
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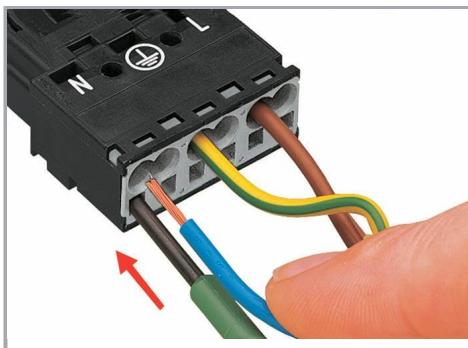
Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; white

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.

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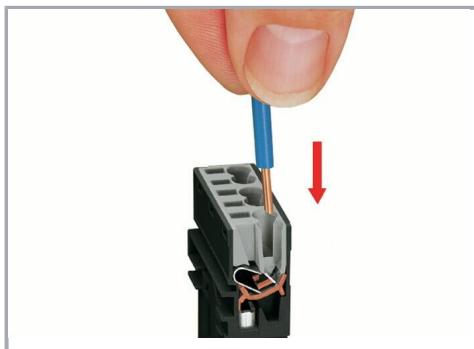
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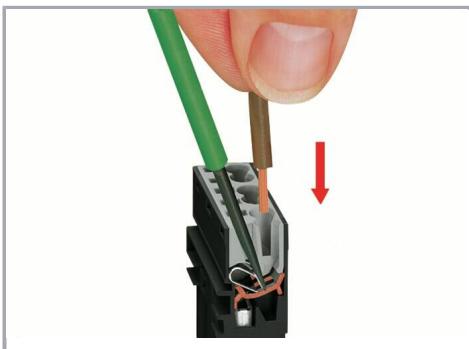
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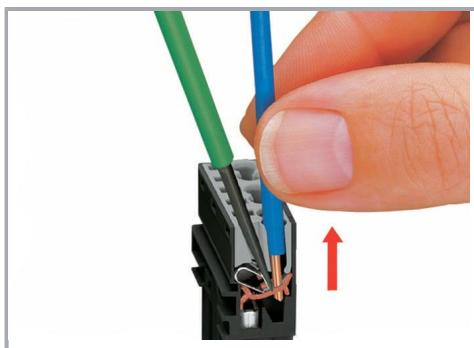


Insert the stripped solid conductor until it hits the backstop.



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.

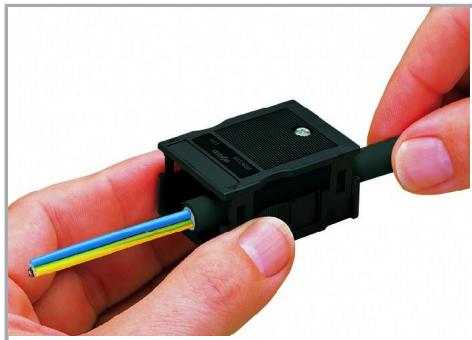
Conductor removal



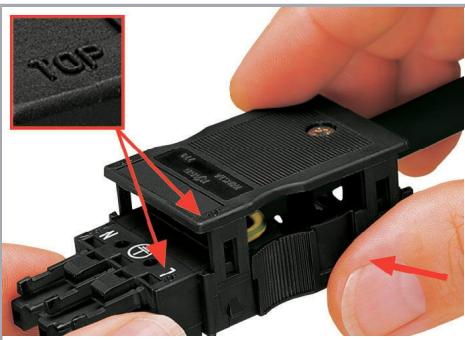
To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

Installation

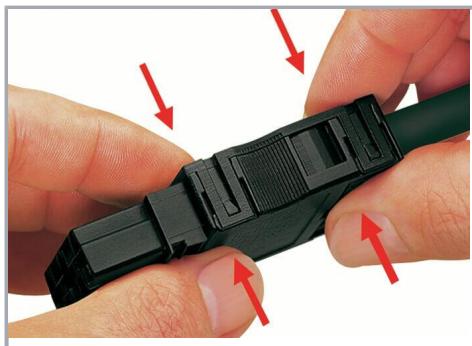
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We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



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](#)

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