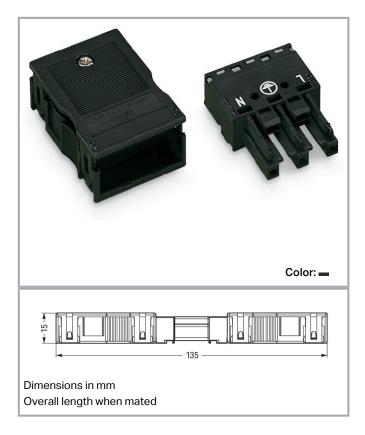
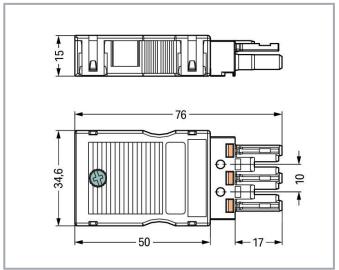
Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-103







Item description

Female connector/socket WINSTA® MIDI with strain relief

The WINSTA® MIDI female connector/socket 3-pole provides the foundation for assembly of fine-stranded and solid conductors. WAGO pluggable installation connectors can be used when criteria repeat or are distributed on a defined grid, 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 mismating. The WINSTA® MIDI pluggable installation connector with A coding in white or black is normally used for general mains applications in power distribution. This pluggable installation connector is designed for a load of up to 25 A. Therefore, it can also be used for high power loads. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in can be found in a variety of projects you can use for quick, easy and maximally flexible installation. 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

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

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The WINSTA® Pluggable Connection System is perfectly tailored to the strict requirements of building installation. It makes electrical installation pluggable, and therefore faster, more reliable, and error-free. Using this pre-assembled system decreases assembly times and errors during installation at the construction site. Choose quality and durability – with strain relief hosting from WAGO makes the electrical installation of electrical components visibly easier.

- pluggable installation connectors with protection against mismating
- pre-assembled versions
- with A coding for use in a large number of general mains applications
- ready to install and use immediately
- rapid, structured electrical installation

Data

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	250 V
Rated impulse voltage (III/3)	4 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		6	
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Total number of potentials	3
Number of test slots	3

Connection 1

Push-in CAGE CLAMP®
Operating tool
Push-in
4 mm² / 12 AWG
0.5 4 mm² / 20 12 AWG
1.5 4 mm² / 16 12 AWG
0.5 2.5 mm² / 20 14 AWG
0.5 4 mm² / 20 12 AWG
0.25 1.5 mm² / 20 16 AWG
0.25 2.5 mm² / 20 14 AWG
1.5 mm² / 16 AWG
9 mm / 0.35 inches
3
8 11.5 mm
0°
55 mm

Physical data

Pin spacing	10 mm / 0.394 inches
Width	34.6 mm / 1.362 inches
Height	15 mm / 0.591 inches
Depth	76 mm / 2.992 inches

Mechanical Data

Application	General mains applications
Coding	A
Variable coding	Yes
Marking	L
Potential marking	L ↓ 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

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

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Protection type IP2XC; 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).
Strain relief	strain relief housing

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	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.458 MJ
Strain relief color	black
Weight	20 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)
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	4044918252096
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
KEMA	CCA DEKRA Certification B.V.	EN 61535	71- 123228
	CCA DEKRA Certification B.V.	IEC 61535	NL -84761
c FN us	cURus Underwriters Laboratories Inc.	UL 1977	E45171
	cURus Underwriters Laboratories Inc.	UL 1059	E 45172

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VDEVDE Prüf- und Zertifizierungsinstitut

EN 61535

40029808



VDEVDE Prüf- und Zertifizierungsinstitut

EN 61984 40002889

Declarations of conformity and manufacturer's declarations

Approvals for marine applications

1.000	Approval	Additional Approval Tout	Certificate
Logo	Approval	Additional Approval Text	name
ABS.	ABS	-	19-
	American Bureau of Shipping		HG1868589-
TAPROVED PRO			PDA
AND USED WAS	DNV GL	-	TAE00001Z6
DNV	Det Norske Veritas, Germanischer Lloyd		
	LR	IEC 61984	LR22429487TA
SI MOVE	Lloyds Register		

Counterpart



Item no.770-113

Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-113



Item no.770-213

Plug; 3-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-213

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	Item no.770-213/035-000 Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-213 /035-000
	Item no.770-213/002-000 Plug; with direct ground contact; 3-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-213 /002-000
-	Item no.770-606 T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	www.wago.com/770-606
*	Item no.770-607 3-way distribution connector; 3-pole; Cod. A; 1 input; 3 outputs; black	www.wago.com/770-607
*	Item no.770-608 5-way distribution connector; 3-pole; Cod. A; 1 input; 5 outputs; outputs on both sides; black	www.wago.com/770-608
	Item no.770-615 T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black	www.wago.com/770-615
	Item no.770-633 h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	www.wago.com/770-633
44	Item no.770-635 h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; black	www.wago.com/770-635
	Item no.770-634 h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black	www.wago.com/770-634
	Item no.770-637 Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; black	www.wago.com/770-637
44	Item no.770-636 h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; black	www.wago.com/770-636
D O	Item no.770-713 Snap-in plug; 3-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-713
	Item no.770-638 Distribution connector for switches; Single-pole and throttle two-way circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; black	www.wago.com/770-638
	Item no.770-813 Plug for PCBs; straight; 3-pole; Cod. A; black	www.wago.com/770-813
-		

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Snap-in plug; with direct ground contact; 3-pole; Cod. A; 4,00 mm²; black

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Item no.770-713/007-000

Item no.771-9993/006-101

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

www.wago.com/770-713

www.wago.com/771-9993

/007-000

www.wago.com/770-103



pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; black

/006-101



Item no.770-813/011-000

Plug for PCBs; angled; 3-pole; Cod. A; black

www.wago.com/770-813

/011-000

Item no.771-9993/206-101

pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; black

www.wago.com/771-9993

/206-101

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

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



Item no.: 770-383

Operating tool; 3-way; green

www.wago.com/770-383

Marking accessories

Marker



Item no.: 770-450/000-002

Marker card; Plastic; yellow

www.wago.com/770-450 /000-002

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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



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

Downloads Documentation

Bid Text

770-103 X81 - Datei	2019 Feb 19	xml 3.1 kB	Download
770-103 doc - Datei	2015 Jun 8	doc 24.1 kB	Download
ausschreiben.de 770-103		URL	Download

CAD/CAE-Data

CAD data

2D/3D Models 770-103

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	URL	Download
CAE data		
EPLAN Data Portal 770-103	URL	Download
WSCAD Universe 770-103	URL	Download
ZUKEN Portal 770-103	URL	Download
Asset Administration Shell		
Asset Administration Shell 770-103	URL	Download

Environmental Product Compliance

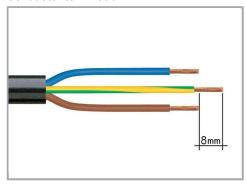
Compliance Search

Environmental Product Compliance 770-103 Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black URL

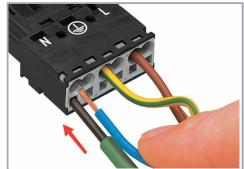
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Installation Notes

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.

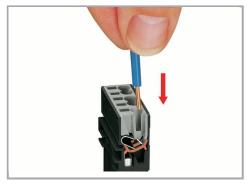
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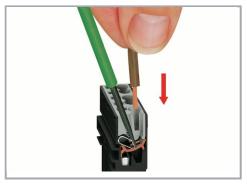
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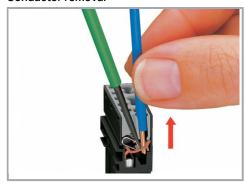


Insert the stripped solid conductor until it hits the backstop.



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

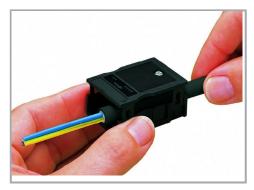
 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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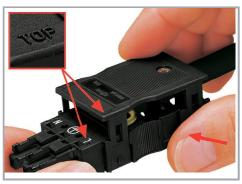
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We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



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).

Coding



Simply cut off the coding pin from the socket.



Insert coding pin into plug (break first) until it engages.

Shield termination

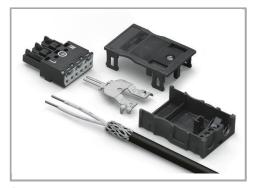
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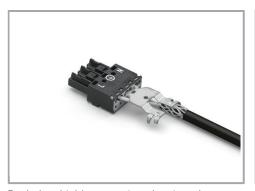
Connector with shield termination



Apply the shield to the sheathed cable.

Strip length, outer insulation = 55 mm

Shield length = 10 mm



Push the shield connecting plate into the connector until fully inserted.



First insert the wired connector into a strain relief housing, then snap cover and tighten screw.

Product family

WINSTA® MIDI Show all products from the family

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