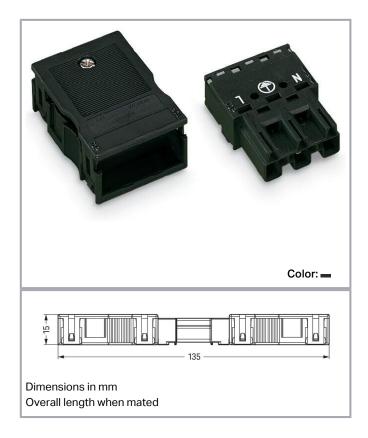
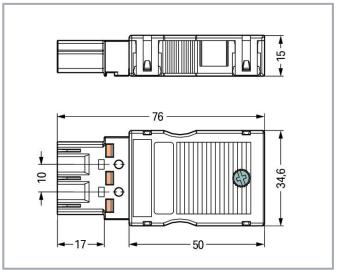
Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-113







Item description

Male connector/plug WINSTA® MIDI with protection type IP20

For signal and power transmission: The *WINSTA*® MIDI male connector/plug with protection against mismating. The pluggable installation connectors with spring pressure connection technology work completely without screw connections. They allow flexible, error-free installation in a large number of possible uses. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismating. 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!)). The *WINSTA*® MIDI pluggable installation connector with A coding in white or black is usually used for general mains applications in power distribution. This pluggable installation connector can be used for a current load of up to 25 A. Thus, it can also be used for high power loads. *WINSTA*® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in a broad range of individual products you can use for quick, easy, flexible, and secure electrical installation. The strip length is 55 mm.

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

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Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

The WINSTA® Pluggable Connection System is perfectly tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and thus faster, even more reliable, and error-free. Use of this pre-assembled system reduces assembly times and installation errors at the construction site. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with marking from WAGO.

- protection against mismating eliminates errors
- pre-assembled versions
- with A coding for use in many general mains applications
- ready to install and use immediately
- 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)	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

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Connection data

Connection points	6
Total number of potentials	3
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 mm ² / 16 AWG
Strip length	9 mm / 0.35 inches
Pole number	3
Conductor entry direction to mating direction	0°
Strip length (outer insulation)	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	N ↓ L
Potential marking	N ↓ L
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

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

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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	black
Cover color	gray
Material group	l
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	0.488 MJ
Strain relief color	black
Weight	20 g

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

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Environmental requirements

Processing temperature	-5 +40 °C
Continuous operating temperature	-35 +85 ℃
Note on continuous operating temperature	Insulating parts for temperatures ≤ 105 °C

Commercial data

eCl@ss 9.0 27-44	Vinsta)
	4-06-05
ETIM 8.0 EC00	4-06-05
	02560
ETIM 7.0 EC00	02560
ECCN NO D	DATA
PU (SPU) 25 pc	cs
Packaging type box	
Country of origin DE	
GTIN 40449	918254083
Customs tariff number 85366	

Environmental Product Compliance

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 711 °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

			Certificate
Logo	Approval	Additional Approval Text	name
ABS.	ABS	-	19-
	American Bureau of Shipping		HG1868589-
TAPROVED PRE			PDA
AND NEO VIEW VIEW VIEW VIEW VIEW VIEW VIEW VIEW	DNV GL	-	TAE00001Z6
DNV	Det Norske Veritas, Germanischer Lloyd		
	LR	IEC 61984	LR22429487TA
LS I	Lloyds Register		

Counterpart



Item no.770-103
Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-

103



Item no.770-203 Socket; 3-pole; Cod. A; 4,00 mm²; black www.wago.com/770-203

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THE REAL PROPERTY.	44.

Item no.770-203/035-000 Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-203/035-000



Item no.770-606 T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black

www.wago.com/770-606



www.wago.com/770-

Item no.770-607

608 www.wago.com/770-

607

615

3-way distribution connector; 3-pole; Cod. A; 1 input; 3 outputs; black Item no.770-611

www.wago.com/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-

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-



Item no.770-634

h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black

634



Item no.770-633

h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black

www.wago.com/770-

633



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.770-636

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



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



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.770-640

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.770-703

Snap-in socket; 3-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-



Item no.770-703/009-000

Snap-in socket; with protruding mating face; 3-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-703/009-000

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Item no.770-803

Socket for PCBs; straight; 3-pole; Cod. A; black

www.wago.com/770-803

Item no.770-803/011-000

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

www.wago.com/770-803/011-000

Item no.771-9993/006-101

mm2; black

www.wago.com/771-9993/006-101

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

Cover

Cover



Item no.: 770-360

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

www.wago.com/770-360

Coding

Coding

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Item no.: 770-401

Coding pin; for plugs; Plastic; gray

www.wago.com/770-401

Marking acc	essories	
Marker		
F	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
Fig.	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
ip	Item no.: 770-450/000-006 Marker card; Plastic; blue	www.wago.com/770-450 /000-006
F	Item no.: 770-450/000-012 Marker card; Plastic; orange	www.wago.com/770-450 /000-012

Downloads Documentation

Bid Text

770-113 X81 - Datei	2019 Feb 19	xml 3.1 kB	Download
770-113 doc - Datei	2015 Jun 8	doc 24.1 kB	Download
ausschreiben.de 770-113		URL	Download

CAD/CAE-Data

CAD data

2D/3D Models 770-113 URL Download

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CAE data

WSCAD Universe 770-113		Download
ZUKEN Portal 770-113	URL	Download
EPLAN Data Portal 770-113	URL	Download
Asset Administration Shell		
Asset Administration Shell 770-113	URL	Download

Environmental Product Compliance

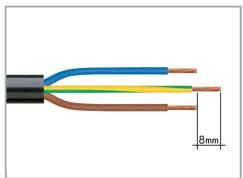
Compliance Search

Environmental Product Compliance 770-113 Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black

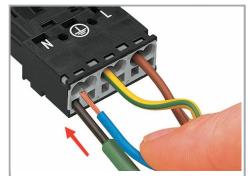
URL Download

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.

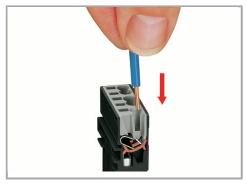
 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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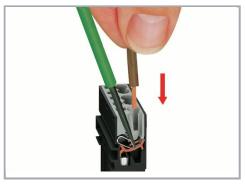
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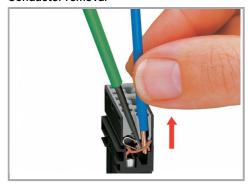


Insert the stripped solid conductor until it hits the backstop.



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.

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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