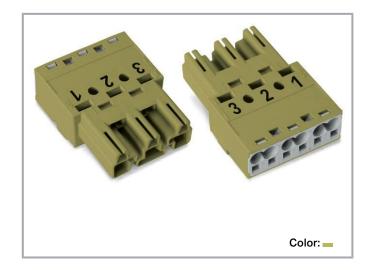
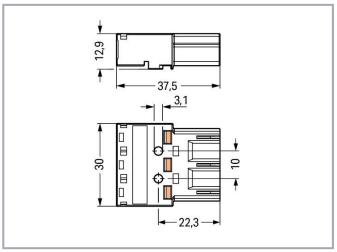
Plug; 3-pole; Cod. B; 4,00 mm²; light green

www.wago.com/770-273







Item description

Male connector/plug WINSTA® MIDI with protection type IP20

The WINSTA® MIDI male connector/plug B coding is the pluggable solution for your application in control cabinets, for lighting connections or on PCBs. WAGO pluggable installation connectors are useful when criteria repeat or are distributed on a defined 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 mismating. The pluggable installation connector is protected against ingress by solid objects 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!)). B coding enables the WINSTA® MIDI pluggable installation connectors to be used for application control in automation, mechanical engineering and robotics. Important parameters in the selection of a pluggable installation connector are the rated current and voltage: They tell us about the product's domains of use. This product has a current rating of 25 A – therefore it is suitable 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, secure, tailored installation.

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 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 time spent on assembly and errors during installation at the construction site. Take advantage of the pluggable version of our maintenance-free spring pressure connection

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

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technology too! Plan your installation with with marking from WAGO.

- pluggable installation connectors with protection against mismating
- simple circuits
- with B coding for use in process automation, such as lighting technology
- ready to install and use immediately
- rapid, structured electrical installation

Data Notes

Variants:	Other pole markings
	Other versions (or variants) can be requested from WAGO Sales or
	configured at https://configurator.wago.com/.

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 $m\Omega$ of contact resistance
	approx. 0.25 m Ω contact transition plug/socket

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

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Connection data

Connection points	6
Total number of potentials	3

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	3
Conductor entry direction to mating direction	0°

Physical data

Pin spacing	10 mm / 0.394 inches
Width	30 mm / 1.181 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches

Mechanical Data

Application	Control technology
Coding	В
Variable coding	Yes
Marking	3 2 1
Potential marking	3 2 1
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)

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

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200, without resistive load
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

Male connector/plug
for conductor
Yes
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
Can be retrofitted
locking lever
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	light green
Cover color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.212 MJ
Weight	10 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

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
Recupel Type	
ECCN	NO DATA
PU (SPU)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821451112
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

cURus

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	IEC 61984	NL-32104
KEMA	CCA DEKRA Certification B.V.	EN 61984	2173495.01

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Underwriters Laboratories Inc.

cURus UL 1059 E 45172

UL 1977

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E45171



Underwriters Laboratories Inc.



Declarations of conformity and manufacturer's declarations			Certificate
Logo	Approval	Additional Approval Text	name
	EU-Declaration of Conformity	-	-
<i>C</i> 2	WAGO GmbH & Co. KG		
<i>\</i> 7			
IIV	 UK-Declaration of Conformity 	-	-
	WAGO GmbH & Co. KG		

Approvals for marine applications

			Certificate
Logo	Approval	Additional Approval Text	name
ABS.	ABS	-	19-
	American Bureau of Shipping		HG1868589-
3 E			PDA
TAPROVED PR			
JANONED ARM	DNV GL	-	TAE00001Z6
Total South	Det Norske Veritas, Germanischer Lloyd		
DNV			
DNV.COM/AF			
	LR	IEC 61984	LR22429487TA
817	Lloyds Register		
817	Lioyao nogiotoi		

Counterpart



Item no.770-1612

T-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; 2 locking levers; light green

www.wago.com/770-1612



Item no.770-1662

h-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 2 locking levers; light www.wago.com/770-1662 green



Item no.770-1712

T-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; 3 locking levers; for flying leads; light green www.wago.com/770-1712

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Item no.770-1715

3-way distribution connector; 3-pole; Cod. B; 1 input; 3 outputs; light green

www.wago.com/770-1715



Item no.770-1762

h-distribution connector; 3-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; light green

www.wago.com/770-1762



Item no.770-263

Socket; 3-pole; Cod. B; 4,00 mm²; light green

www.wago.com/770-263



Item no.770-763

Snap-in socket; 3-pole; Cod. B; 4,00 mm²; light green

www.wago.com/770-763

<u>III</u>

Item no.770-863

Socket for PCBs; straight; 3-pole; Cod. B; light green

www.wago.com/770-863



Item no.770-863/011-000

Socket for PCBs; angled; 3-pole; Cod. B; light green

www.wago.com/770-863

/011-000

Item n

Item no.771-9993/005-105

pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. B; $H05VV-F \ 3 \ x \ 1.0 \ mm^2$; 1 m; 1,00 mm²; light green

www.wago.com/771-9993

/005-105



Item no.771-9993/105-105

pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. B; $H05VV-F 3 \times 1.0 \text{ mm}^2$; 1 m; 1,00 mm²; light green

www.wago.com/771-9993

/105-105

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

Cover

Cover

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Item no.: 770-360

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

www.wago.com/770-360

Marking acce	essories	
Marker		
P	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
Tip I	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
F	Item no.: 770-450/000-006 Marker card; Plastic; blue	www.wago.com/770-450 /000-006
ip.	Item no.: 770-450/000-012 Marker card; Plastic; orange	www.wago.com/770-450 /000-012
Coding		
Coding		
	Item no.: 770-401 Coding pin; for plugs; Plastic; gray	www.wago.com/770-401
Mounting		
Mounting a	ccessories	
*	Item no.: 770-318 Snap-in frame; 3-pole; 1.0 3.0 mm; black	www.wago.com/770-318
**	Item no.: 770-338 Snap-in frame; 3-pole; 1.0 3.0 mm; white	www.wago.com/770-338
Strain relief		
Strain relief	housing	
00	Item no.: 770-503 Strain relief housing; 3-pole; for 2 cables; 8.0 11.5 mm; 55 mm; black	www.wago.com/770-503

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www.wago.com/770-273





Item no.: 770-503/023-000

Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm; black

www.wago.com/770-503 /023-000



Item no.: 770-503/021-000

Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm; black

www.wago.com/770-503

/021-000



Item no.: 770-503/035-000

Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; black

www.wago.com/770-503

/035-000



Item no.: 770-503/038-000

Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; black

www.wago.com/770-503

/038-000



Item no.: 770-503/032-000

Strain relief housing; 3-pole; with locking clip; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black

www.wago.com/770-503

/032-000



Item no.: 770-513/038-000

Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; white

www.wago.com/770-513

/038-000



Item no.: 770-513

Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white

www.wago.com/770-513



Item no.: 770-513/021-000

Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm; white

www.wago.com/770-513

/021-000



Item no.: 770-513/032-000

Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white

www.wago.com/770-513

/032-000



Item no.: 770-513/035-000

Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; white

www.wago.com/770-513

/035-000



Item no.: 770-513/023-000

Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm; white

www.wago.com/770-513

/023-000

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

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Item no.: 770-383

Operating tool; 3-way; green

www.wago.com/770-383

URL

Download

Downloads Documentation

Bid Text

770-273 X81 - Datei	2019 Feb 19	xml 3.0 kB	Download
770-273 doc - Datei	2015 Jun 8	doc 24.6 kB	Download

CAD/CAE-Data

2D/3D Models 770-273

CAD data

CAE data		
WSCAD Universe 770-273	URL	Download
ZUKEN Portal 770-273	URL	Download
Asset Administration Shell		
Asset Administration Shell 770-273	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-273	URL	Download
Plua: 3-pole: Cod. B: 4.00 mm²: light green		

Installation Notes

Conductor termination

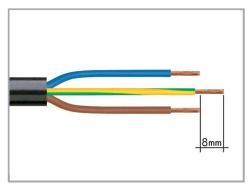
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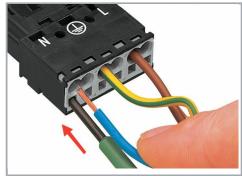
www.wago.com/770-273



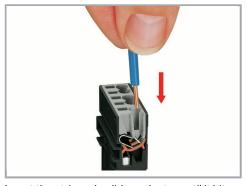


1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

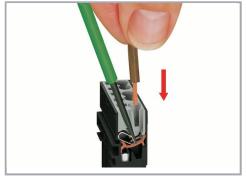
- 2. Strip length = 9 mm
- 3. Extended ground conductor = 8 mm



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.

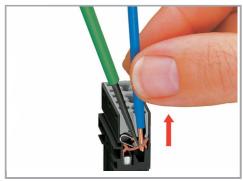


Insert the stripped solid conductor until it hits the backstop.



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.

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

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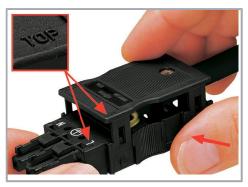
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W/AGO

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.

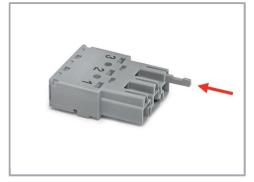


Tighten strain relief screw with screwdriver (2.5 mm blade width).

Coding



Simply cut off the coding pin from the socket.



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

Mismating protection

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

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B-coded connectors with different colors can be plugged together.

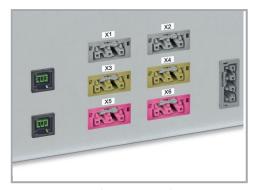


Different colors and/or pole markings are used for circuit identification.

Only connectors of the same color and same pole marking must be plugged together.



B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.



Easy circuit identification via different marking and colors

Product family

WINSTA® MIDI
Show all products from the family

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

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