Data sheet | Item number: 770-293/082-000

Plug; 3-pole; Cod. B; 4,00 mm²; pink

www.wago.com/770-293/082-000

Color:

Item description

Male connector/plug *WINSTA®* MIDI B coding

The *WINSTA®* MIDI male connector/plug B coding supports rapid, correct installation. Our pluggable installation connectors with spring pressure connection technology function without screw connections. They allow flexible, error-free installation in numerous applications. 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!)). Solutions like the *WINSTA®* MIDI pluggable installation connectors with B coding are appropriate for process control, for example, for lighting or within data networks. This pluggable installation connector can be used for electrical currents up to 25 A. Thus the product is especially suitable 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 installation.

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

The WINSTA® Pluggable Connection System is perfectly 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 therefore more efficient, more reliable, and error-free. Using this pre-assembled system decreases assembly times and installation errors at the construction site. Choose quality and durability – with protection type IP20 from WAGO makes the installation of electrical components noticeably easier.

-
- pluggable installation connectors with protection against mismating
- pre-assembled versions
- with B coding for use in automation of processes, such as lighting technology, for example
- flexible installation to save space
- 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 mΩ of contact resistance
	approx. 0.25 mΩ contact transition plug/socket

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

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	B
Variable coding	Yes
Marking	- S +
Potential marking	- S +
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

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

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).

Material data

Note (material data)	
	Information on material specifications can be found here

Color	pink
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

Environmental requirements

Processing temperature	-5 … +40 ℃

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

Continuous operating temperature	-35 … +85 °C
Note on continuous operating temperature	Insulating parts for temperatures ≤ 105 °C

Commercial data

eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 8.0	EC002560
ETIM 7.0	EC002560
PU (SPU)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821553557
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	cURus Underwriters Laboratories Inc.	UL 1977	E45171
	cURus Underwriters Laboratories Inc.	UL 1059	E 45172

Counterpart

	Item no.770-283/082-000 Socket; 3-pole; Cod. B; 4,00 mm²; pink	www.wago.com/770-283/082-000
	Item no.770-883/011-000/082-000 Socket for PCBs; angled; 3-pole; Cod. B; pink	www.wago.com/770-883/011-000/082-000

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

WAGO

Item no.770-783/082-000
Snap-in socket; 3-pole; Cod. B; 4,00 mm²; pink

www.wago.com/770-783/082-000

Item no.770-883/082-000
Socket for PCBs; straight; 3-pole; Cod. B; pink

www.wago.com/770-883/082-000

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

Coding

Coding

Item no.: 770-401
Coding pin; for plugs; Plastic; gray

www.wago.com/770-401

Marking accessories

Marker

Item no.: 770-450/000-002
Marker card; Plastic; yellow

www.wago.com/770-450
/000-002
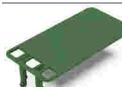
Item no.: 770-450/000-001
Marker card; Plastic; green

www.wago.com/770-450
/000-001

Item no.: 770-450/000-005
Marker card; Plastic; red

www.wago.com/770-450
/000-005

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

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.: 770-360
Lockout cap; for plugs; 5-pole; separable; yellow

www.wago.com/770-360

Mounting

Mounting accessories

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

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

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

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	Item no.: 770-513/038-000	www.wago.com/770-513
	Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; white	/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	www.wago.com/770-513
	Strain relief housing; 3-pole; for 1 cable; 9.0 ... 13.0 mm; 71 mm; white	/021-000

	Item no.: 770-513/032-000	www.wago.com/770-513
	Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white	/032-000

	Item no.: 770-513/035-000	www.wago.com/770-513
	Strain relief housing; 3-pole; with locking clip; for 1 cable; 7.0 ... 11.5 mm; 48 mm; white	/035-000

	Item no.: 770-513/023-000	www.wago.com/770-513
	Strain relief housing; 3-pole; for 2 cables; 4.5 ... 8.0 mm; 55 mm; white	/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

	Item no.: 770-383	
	Operating tool; 3-way; green	www.wago.com/770-383

Downloads
Documentation

Bid Text

770-293/082-000	2019 Feb 19	xml	Download
X81 - Datei		3.0 kB	

770-293/082-000	2015 Jun 8	doc	Download
doc - Datei		24.6 kB	

CAD/CAE-Data

CAD data

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

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2D/3D Models 770-293/082-000	URL	Download

CAE data

WSCAD Universe 770-293/082-000	URL	Download
ZUKEN Portal 770-293/082-000	URL	Download
WSCAD Universe 770-293/082-000	URL	Download

Asset Administration Shell

Asset Administration Shell 770-293/082-000	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-293/082-000 Plug; 3-pole; Cod. B; 4,00 mm²; pink	URL	Download

Installation Notes

Conductor termination
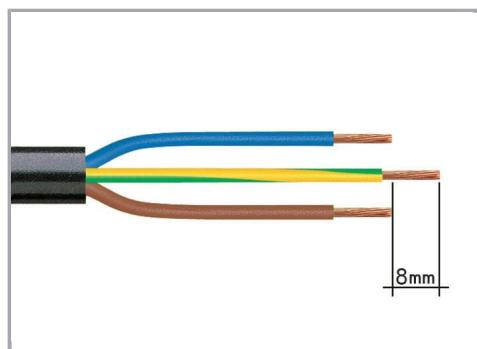
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm
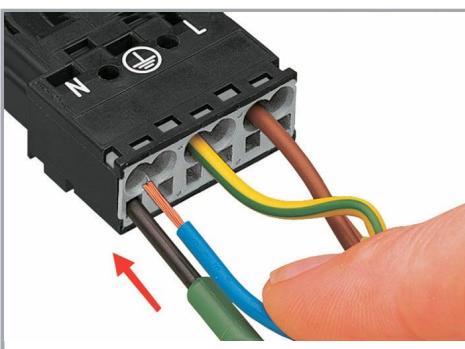
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

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

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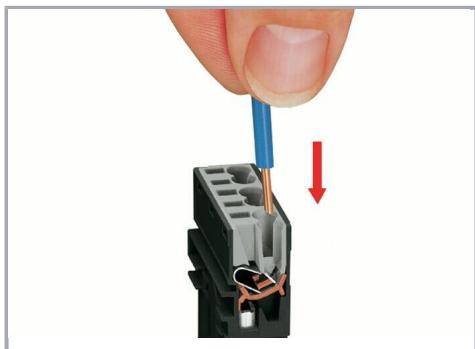
Insert the stripped solid conductor until it hits the backstop.
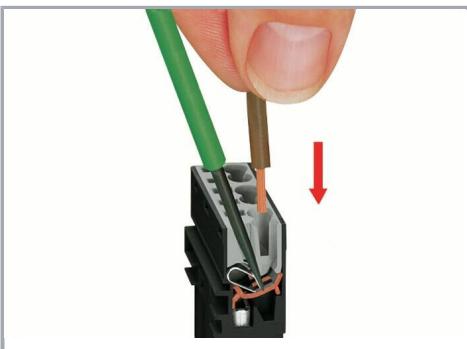
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

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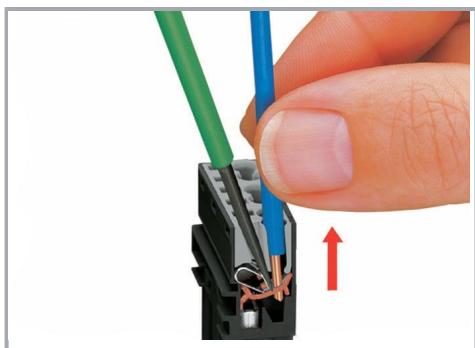
To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

Installation

Subject to changes. Please also observe the further product documentation!
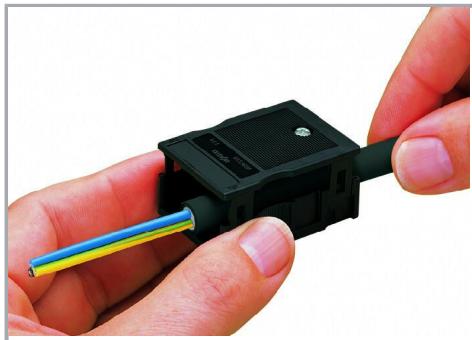
We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.
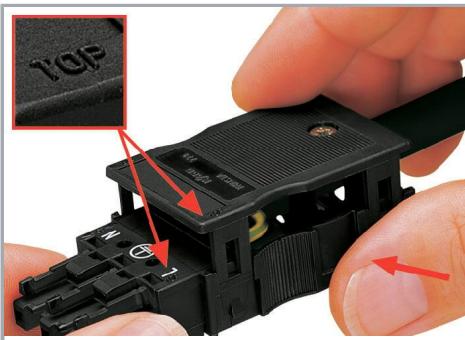
Latch the strain relief housing onto the plug /socket. Note the "TOP" inscription.
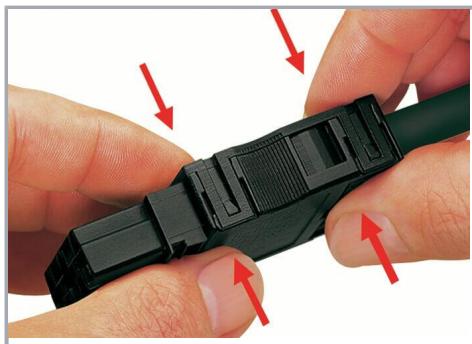
Prepare strain relief housing by snapping together upper and bottom part.

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

Coding

Simply cut off the coding pin from the socket.
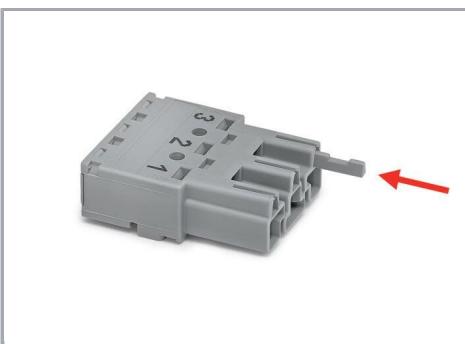
Insert coding pin into plug (break first) until it engages.

Mismating protection

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

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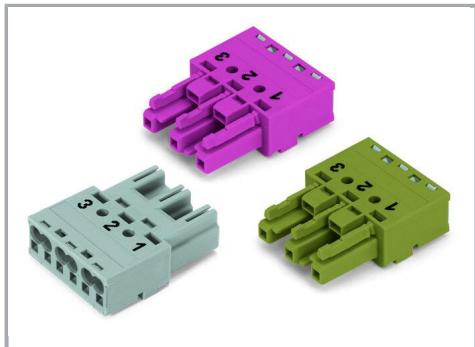
B-coded connectors with different colors can be plugged together.

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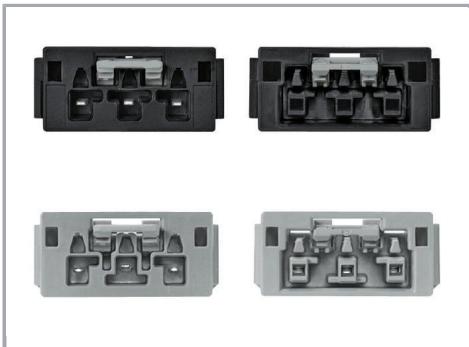
B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.

Easy circuit identification via different marking and colors

Product family

WINSTA® MIDI
Show all products from the family

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

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