WAGO

Color: ▬

Item description

Female connector/socket WINSTA® MIDI 5-pole

Use effective pluggable connections instead of laborious screw connections: With the WINSTA® MIDI female connector/socket with protection against mismating. WAGO pluggable installation connectors are useful when requirements repeat or are planned on a defined pattern, for example for installing grid lighting or flush-mount lighting. For greater security in electrical installations, the pluggable installation connector is provided with mechanical 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!)). Solutions like the WINSTA® MIDI pluggable installation connectors with B coding are suitable for applications involving process control, such as for lighting or within data networks. This pluggable installation connector can be used for a voltage load of up to 25 A. Therefore, it can also be used for high power loads. Our WINSTA® MIDI product line achieves maximum flexibility for the installation of applications. Through its Push-in CAGE CLAMP® spring pressure connection technology, it achieves error-free, time-saving installation and offers flexibility and customization for meeting all installation requirements.

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

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

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

The WINSTA® Pluggable Connection System is ideally tailored to the strict requirements of building installation pluggable, and consequently faster, even more reliable, and error-free. Use of this pre-assembled system decreases assembly times and errors during installation at the construction site. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with protection type IP20 from WAGO.

-
- protection against mismating eliminates errors
- simple circuits
- with B coding for controllers, for example sun blinds and lighting fixtures
- custom-engineered solutions
- quick replacement of defective units during ongoing operation

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)	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 IEC/EN – Notes

Note (rated current)	25 A for 3-pole load
	20 A for 4- and 5-pole load

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

Connection data

Connection points	10
Total number of potentials	5

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 °

Physical data

Pin spacing	10 mm / 0.394 inches
Width	50 mm / 1.969 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	N ⏚ L 2L 1L
Potential marking	N ⏚ L 2L 1L

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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)	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).

Material data

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

Color	gray
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	0.407 MJ

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

Weight	16.1 g

Environmental requirements

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

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)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821486268
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

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

Counterpart

	Item no.770-855/011-000/064-000 Plug for PCBs; angled; 5-pole; Cod. B; gray	www.wago.com/770-855/011-000/064-000
	Item no.770-255/064-000 Plug; 5-pole; Cod. B; 4,00 mm²; gray	www.wago.com/770-255/064-000
	Item no.770-755/064-000 Snap-in plug; 5-pole; Cod. B; 4,00 mm²; gray	www.wago.com/770-755/064-000
	Item no.770-855/064-000 Plug for PCBs; straight; 5-pole; Cod. B; gray	www.wago.com/770-855/064-000

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

Strain relief

Strain relief housing

	Item no.: 770-505/021-000 Strain relief housing; 5-pole; for 1 cable; 11.5 … 16.5 mm; 71 mm; black	www.wago.com/770-505 /021-000
	Item no.: 770-505/023-000 Strain relief housing; 5-pole; for 2 cables; 5.0 … 9.0 mm; 55 mm; black	www.wago.com/770-505 /023-000

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

	Item no.: 770-505 Strain relief housing; 5-pole; for 2 cables; 9.0 … 13.0 mm; 55 mm; black	www.wago.com/770-505
	Item no.: 770-515 Strain relief housing; 5-pole; for 2 cables; 9.0 … 13.0 mm; 55 mm; white	www.wago.com/770-515
	Item no.: 770-515/023-000 Strain relief housing; 5-pole; for 2 cables; 5.0 … 9.0 mm; 55 mm; white	www.wago.com/770-515 /023-000
	Item no.: 770-515/021-000 Strain relief housing; 5-pole; for 1 cable; 11.5 … 16.5 mm; 71 mm; white	www.wago.com/770-515 /021-000

Optional accessories

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
	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

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

www.wago.com/WAGO

Item no.: 770-221
Lockout cap; 12-pole, separable; for sockets; Plastic; white

www.wago.com/770-221

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

www.wago.com/897-2005

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

Mounting

Mounting accessories

Item no.: 770-320
Snap-in frame; 5-pole; 1.0 … 3.0 mm; black

www.wago.com/770-320

Item no.: 770-321
Snap-in frame; 5-pole; 0.5 … 2.0 mm; black

www.wago.com/770-321

Item no.: 770-340
Snap-in frame; 5-pole; 1.0 … 3.0 mm; white

www.wago.com/770-340

Item no.: 770-341
Snap-in frame; 5-pole; 0.5 … 2.0 mm; white

www.wago.com/770-341

Downloads
Documentation

Bid Text

770-245/064-000		2019 Feb 19	xml	Download
X81 - Datei			3.0 kB	
770-245/064-000		2015 Jun 8	doc	Download
doc - Datei			24.6 kB	

CAD/CAE-Data

CAD data

2D/3D Models 770-245/064-000		URL	Download

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

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CAE data

WSCAD Universe 770-245/064-000	URL	Download
WSCAD Universe 770-245/064-000	URL	Download
ZUKEN Portal 770-245/064-000	URL	Download

Asset Administration Shell

Asset Administration Shell 770-245/064-000	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-245/064-000 Socket; 5-pole; Cod. B; 4,00 mm²; gray	URL	Download

Installation Notes

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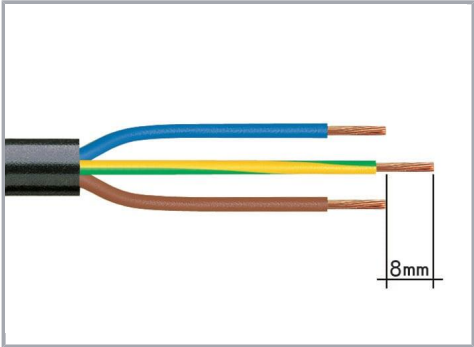
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm
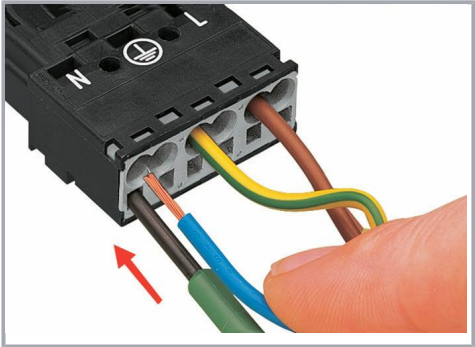
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

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

Do you have any questions about our products?

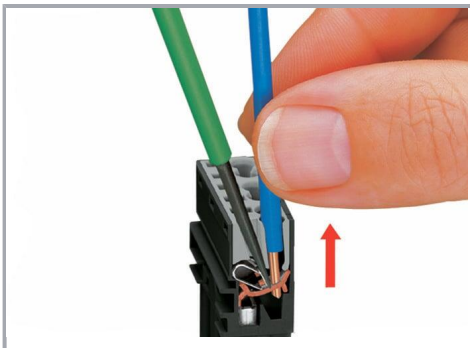We are always happy to take your call at +49 (571) 887-44222.
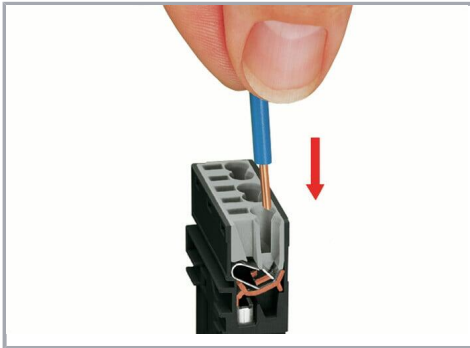
Insert the stripped solid conductor until it hits the backstop.
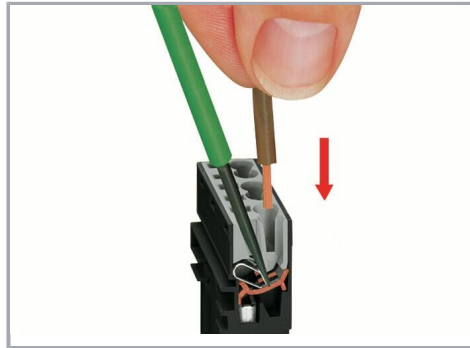
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.
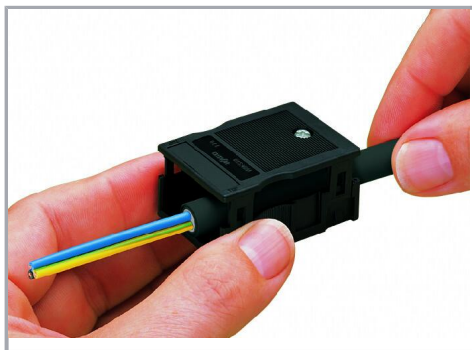
Conductor removal

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!

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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.
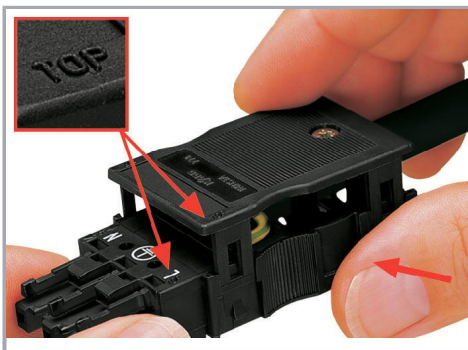
Latch the strain relief housing onto the plug /socket. Note the "TOP" inscription.
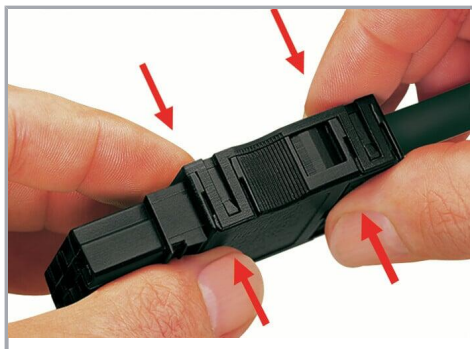
Prepare strain relief housing by snapping together upper and bottom part.
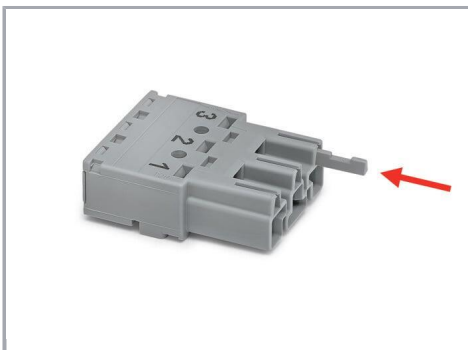
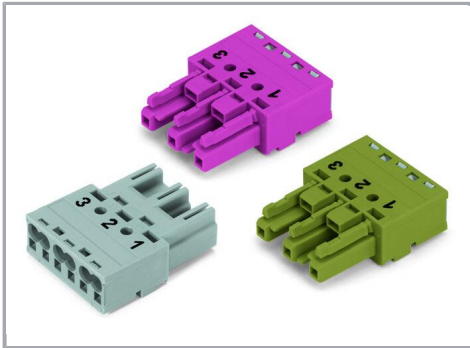Tighten strain relief screw with screwdriver (2.5 mm blade width).

Coding

Simply cut off the coding pin from the socket.

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

Mismating protection

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

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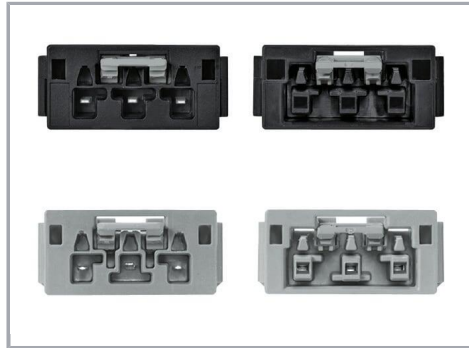We are always happy to take your call at +49 (571) 887-44222.

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

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