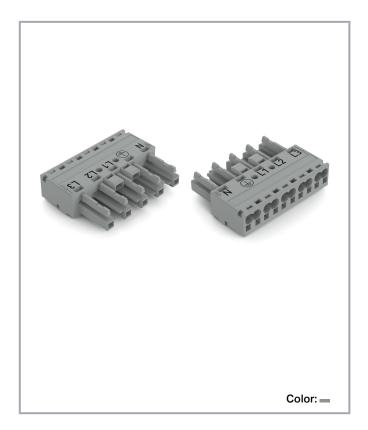
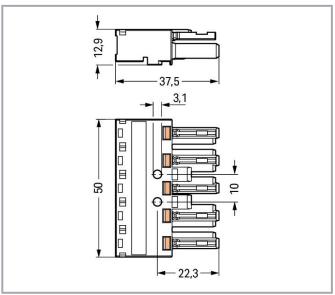
Socket; 5-pole; Cod. B; 4,00 mm<sup>2</sup>; gray

www.wago.com/770-245/060-000







# Item description

# Female connector/socket WINSTA® MIDI with protection type IP20

The WINSTA® MIDI female connector/socket with protection against mismating is the pluggable solution for your application in control cabinets, on PCBs or for lighting connections. WAGO pluggable installation connectors are used when criteria repeat or are planned on a specified pattern, for example for installing grid lighting or flush-mount lighting. The coding options reduce installation errors, allowing fast, secure wiring of all components. 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!)). Pluggable installation connectors with B coding from the WINSTA® MIDI line are available in pink, light green, or gray, allowing you to distinguish different circuits, for example for pumps, lighting, or sun blinds. Customer-specific pole marking is possible in addition. This pluggable installation connector can be used for a voltage 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 found in can be found in a variety of projects you can use for quick, easy, secure, tailored electrical installation.

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

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# Lower costs through fast commissioning and elimination of service expenses – solutions from WINSTA® MIDI

The WINSTA® Pluggable Connection System is perfectly tailored to the strict requirements of building installation. It makes electrical installation pluggable, and consequently faster, even more reliable, and error-free. Use of this pre-assembled system decreases time spent on assembly and errors during installation at the construction site. Choose durability and quality – the *WINSTA®* MIDI pluggable installation connector with marking from WAGO makes the installation of electrical components visibly easier.

- pluggable installation connectors with protection against mismating
- simple circuits
- with B coding for controllers such as 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
Note (rated current)	25 A for 3-pole load 20 A for 4- and 5-pole load
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

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Rated current UL 1977 23 A

#### General

Note on contact resistance approx. 1 m $\Omega$  of contact resistance approx. 0.25 m $\Omega$  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 mm <sup>2</sup> / 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 <sup>2</sup> / 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	В
Variable coding	Yes

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

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N
N
approx. 20 70 N (depending on pole number)
Locked: > 80 N
Unlocked: approx. 20 70 N (depending on pole number)
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

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**

Inf	formati	on on m	ıaterial	l specificat	tions 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

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Fire load	0.407 MJ
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 °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)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821553649
Customs tariff number	85366990990

# **Environmental Product Compliance**

# Approvals / Certificates

# General approvals

			Certificate
Logo	Approval	Additional Approval Text	name
	cURus	UL 1977	E45171
c <b>SU</b> us	Underwriters Laboratories Inc.		

# Counterpart



Item no.770-255/060-000 Plug; 5-pole; Cod. B; 4,00 mm²; gray

www.wago.com/770-255/060-000

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Item no.770-755/060-000 Snap-in plug; 5-pole; Cod. B; 4,00 mm<sup>2</sup>; gray

www.wago.com/770-755/060-000



Item no.770-855/011-000/060-000 Plug for PCBs; angled; 5-pole; Cod. B; gray

www.wago.com/770-855/011-000/060-000



Item no.770-855/060-000

Plug for PCBs; straight; 5-pole; Cod. B; gray

www.wago.com/770-855/060-000

# 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



Item no.: 770-505

Strain relief housing; 5-pole; for 2 cables; 9.0  $\dots$  13.0 mm; 55 mm; black

www.wago.com/770-505

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www.wago.com/770-245/060-000



1000

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

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



Item no.: 897-2005

Protective cap; Type4; for sockets and plugs; PVC; red

www.wago.com/897-2005

# Mounting

Snap-in frame



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

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Item no.: 770-341

Snap-in frame; 5-pole; 0.5 ... 2.0 mm; white

www.wago.com/770-341

Marking accessories				
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			
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.: 770-450/000-002 Marker card; Plastic; yellow  Item no.: 770-450/000-001 Marker card; Plastic; green  Item no.: 770-450/000-005 Marker card; Plastic; red  Item no.: 770-450 Marker card; Plastic; white  Item no.: 770-450/000-006 Marker card; Plastic; blue  Item no.: 770-450/000-012 Marker card; Plastic; orange			

# Downloads Documentation

**Bid Text** 

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# **Installation Notes**

Environmental Product Compliance 770-245/060-000

Socket; 5-pole; Cod. B; 4,00 mm<sup>2</sup>; gray

**Conductor termination** 

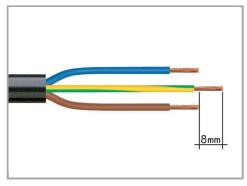
Subject to changes. Please also observe the further product documentation!

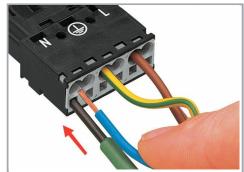
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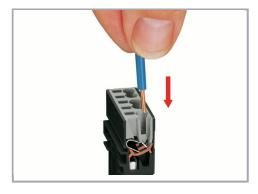






- 1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
- 2. Strip length = 9 mm
- 3. Extended ground conductor = 8 mm

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.

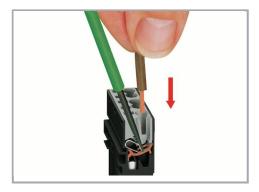


Insert the stripped solid conductor until it hits the backstop.

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

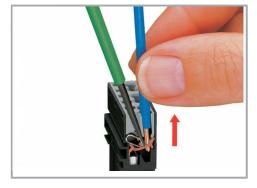
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To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

#### Conductor removal



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

Installation

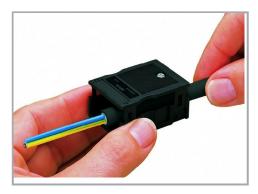
 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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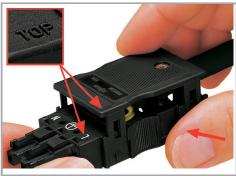
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We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



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.

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# W/AGO

#### Mismating protection

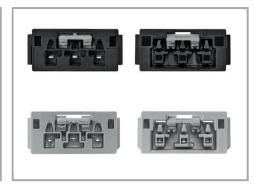


B-coded connectors with different colors can be plugged together.

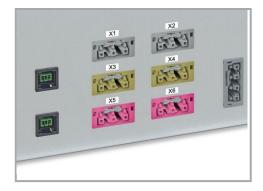
Important note:

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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