

Data sheet | Item number: 770-245

Socket; 5-pole; Cod. B; 4,00 mm²; gray

www.wago.com/770-245



Color:

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

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



Item description

Female connector/socket WINSTA® MIDI B coding

Use effective pluggable connections instead of laborious screw connections: With the WINSTA® MIDI female connector/socket B coding. The pluggable installation connectors with spring pressure connection technology function completely without screw connections. They allow flexible, error-free installation in numerous applications. For greater security in electrical installations, the pluggable installation connector is provided with mechanical protection against mismatching. The pluggable installation connector is protected 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!)). That results in the fact that users' fingers will never come into contact with electrified elements. 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 light, pumps or, sun blinds. Usage-specific pole marking is possible, too. 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 – as a result it is suitable for robust 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, secure, tailored electrical installation.

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

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Now you can also reduce installation costs without compromising safety and quality: with marking eliminates the need for servicing and prevents unnecessary downtime.

- effective protection against mismatching
- pre-assembled versions
- for automation controllers
- custom-engineered solutions
- fast, secure 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

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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
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
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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 mm ² / 12 AWG
Solid conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
Solid conductor; push-in termination	1.5 ... 4 mm ² / 16 ... 12 AWG
Stranded conductor	0.5 ... 2.5 mm ² / 20 ... 14 AWG
Fine-stranded conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm ² / 20 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm ² / 20 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1.5 mm ² / 16 AWG

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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	1 2 3 4 5
Potential marking	1 2 3 4 5
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 <i>WINSTA</i> [®] 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

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



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
Weight	16.1 g

Environmental requirements

Processing temperature	-5 ... +40 °C
Continuous operating temperature	-35 ... +85 °C
Note on continuous operating temperature	Insulating parts for temperatures \leq 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
PU (SPU)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918252454
Customs tariff number	85366990990

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Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	IEC 61984	NL-32104
	CCA DEKRA Certification B.V.	EN 61984	2173495.01
	cURus Underwriters Laboratories Inc.	UL 1977	E45171
	cURus Underwriters Laboratories Inc.	UL 1059	E 45172

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19- HG1868589- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	LR Lloyds Register	IEC 61984	LR22429487TA

Counterpart

Item no.770-1641

T-distribution connector; 5-pole; Cod. B; 1 input; 2 outputs; 2 locking levers; gray

www.wago.com/770-1641

Item no.770-1741

T-distribution connector; 5-pole; Cod. B; 1 input; 2 outputs; 3 locking levers; for flying leads; gray

www.wago.com/770-1741

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Item no.770-255 Plug; 5-pole; Cod. B; 4,00 mm ² ; gray	www.wago.com/770-255
Item no.770-1744 3-way distribution connector; 5-pole; Cod. B; 1 input; 3 outputs; gray	www.wago.com/770-1744
Item no.770-755 Snap-in plug; 5-pole; Cod. B; 4,00 mm ² ; gray	www.wago.com/770-755
Item no.770-855 Plug for PCBs; straight; 5-pole; Cod. B; gray	www.wago.com/770-855
Item no.770-855/011-000 Plug for PCBs; angled; 5-pole; Cod. B; gray	www.wago.com/770-855/011-000
Item no.771-9995/005-103 pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. B; 1 m; 1,00 mm ² ; gray	www.wago.com/771-9995/005-103
Item no.771-9995/205-103 pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. B; 1 m; 1,00 mm ² ; gray	www.wago.com/771-9995/205-103

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 ... 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

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



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

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

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

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

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

Downloads

Documentation

Bid Text

770-245 X81 - Datei	2019 年2月19日	xml 3.0 kB	Download
770-245 doc - Datei	2015 年6月8日	doc 24.6 kB	Download

CAD/CAE-Data

CAD data

2D/3D Models 770-245	URL	Download
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CAE data

EPLAN Data Portal 770-245	URL	Download
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WSCAD Universe 770-245	URL	Download
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ZUKEN Portal 770-245	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-245 Socket; 5-pole; Cod. B; 4,00 mm ² ; gray	URL	Download
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Subject to changes. Please also observe the further product documentation!

Installation Notes

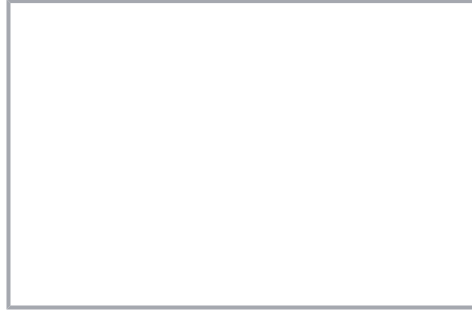
Conductor termination



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

2. Strip length = 9 mm

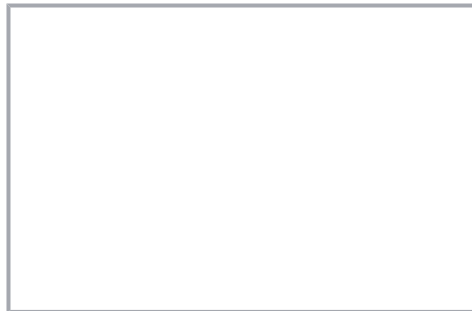
3. Extended ground conductor = 8 mm



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.



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

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



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

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

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

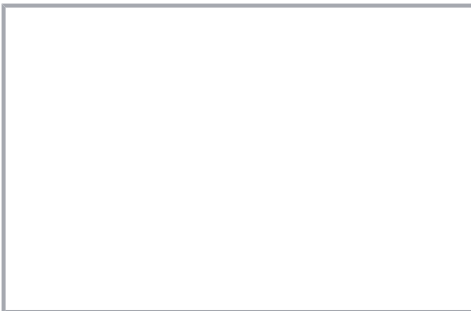


Simply cut off the coding pin from the socket.



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

Mismatching protection

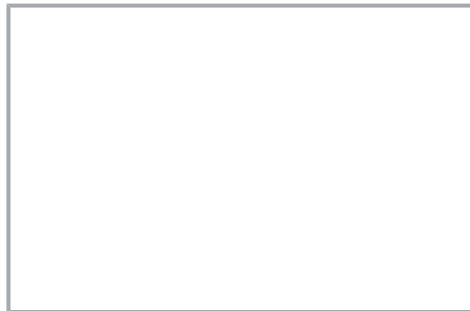


B-coded connectors with different colors can be plugged together.

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

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www.wago.com/770-245



Product family

WINSTA® MIDI

[Show all products from the family](#)

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