Data sheet | Item number: 770-245 Socket; 5-pole; Cod. B; 4,00 mm²; gray www.wago.com/770-245







Item description

Female connector/socket WINSTA® MIDI with protection type IP20

For power and signal transmission: The *WINSTA®* MIDI female connector/socket with protection against mismating. WAGO pluggable installation connectors are useful when specifications repeat or are planned on a specified pattern, for example for installing grid lighting or flush-mount lighting. For greater protection in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismating. The pluggable installation connector offers protection against contact 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!)). B coding enables the *WINSTA®* MIDI pluggable installation connector can be used for control in applications in the domains of automation, mechanical engineering and robotics. This pluggable installation connector can be used for electrical currents up to 25 A. Thus the product is ideally suitable for high power loads. The *WINSTA®* MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates exemplary electrification. Due to the built-in test slot, it is possible to check connections even when they are plugged in. That saves time and reduces installation labor and costs.

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

WAGO GmbH & Co. KG Hansastr. 27 32423 Minden Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com



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 thus faster, more reliable, and error-free. Use of this pre-assembled system decreases assembly times and installation errors 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.

- effective protection against mismating
- simple circuits
- for automation controllers
- exact dimensions
- fast, secure installation

Data Notes

Va	ria	nts:

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.

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

WAGO GmbH & Co. KGDo you have any questions about our products?Hansastr. 27We are always happy to take your call at +49 (571) 887-44222.32423 MindenPhone: +49571 887-0 | Fax: +49571 887-169Email: info.de@wago.com | Web: www.wago.comEmail: info.de@wago.com | Web: www.wago.com

www.wago.com/770-245



Rated voltage (UL 1977)	600 V
Rated current UL 1977	23 A

General

Note on contact resistance	approx. 1 m Ω of contact resistance
	approx. 0.25 m Ω contact transition plug/socket

Connection data

Connection points	10
Total number of potentials	5

Connection 1

Connection technology	
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	В

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

WAGO GmbH & Co. KG	Do you have any questions about our products?
Hansastr. 27	We are always happy to take your call at +49 (571) 887-44222.
32423 Minden	
Phone: +49571 887-0 Fax: +49571 887-169	
Email: info.de@wago.com Web: www.wago.com	

Data sheet | Item number: 770-245

www.wago.com/770-245



Variable coding	Yes
Marking	12345
Potential marking	12345
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 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	VO	
Clamping spring material	Chrome-nickel spring steel (CrNi)	
Contact material	Copper or copper alloy; surface-treated	

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

WAGO GmbH & Co. KGDo you have any questions about our products?Hansastr. 27We are always happy to take your call at +49 (571) 887-44222.32423 MindenPhone: +49571 887-0 | Fax: +49571 887-169Email: info.de@wago.com | Web: www.wago.comEmail: info.de@wago.com | Web: www.wago.com

Data sheet | Item number: 770-245

www.wago.com/770-245



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 ≤ 105 °C	

Commercial data

20 (Winsta)
7-44-06-05
7-44-06-05
C002560
C002560
i0 pcs
юх
DE
044918252454

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
KEMA	CCA DEKRA Certification B.V.	EN 61984	2173495.01
c SN us	cURus Underwriters Laboratories Inc.	UL 1977	E45171

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

 WAGO GmbH & Co. KG
 Do you have any questions about our products?

 Hansastr. 27
 We are always happy to take your call at +49 (571) 887-44222.

 32423 Minden
 Phone: +49571 887-0 | Fax: +49571 887-169

 Email: info.de@wago.com | Web: www.wago.com
 Email: info.de@wago.com | Web: www.wago.com



Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications

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

Counterpart

Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com

A STATE	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
Annual Cold	Item no.770-255 Plug; 5-pole; Cod. B; 4,00 mm²; gray		www.wago.com/770-255
	Item no.770-1744 3-way distribution connector; 5-pole; Cod. B; 1 input; 3 outpu	ts; gray	www.wago.com/770-1744
Subject to cha	nges. Please also observe the further product documentation	l	
WAGO GmbH &	Co. KG D	o you have any questions about our	products?
Hansastr. 27	N	e are always happy to take your call	at +49 (571) 887-44222.
32423 Minden			

Data sheet | Item number: 770-245

www.wago.com/770-245



www.wago.com/770-755



Item no.770-755 Snap-in plug; 5-pole; Cod. B; 4,00 mm²; gray

5 4 3 2 1	Item no.770-855 Plug for PCBs; straight; 5-pole; Cod. B; gray	www.wago.com/770-855
1 See	Item no.770-855/011-000 Plug for PCBs; angled; 5-pole; Cod. B; gray	www.wago.com/770-855/011-000
	ltem no.771-9995/005-103 pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. B; 1 m; 1,00 mm²; gray	www.wago.com/771-9995/005-103
	ltem no.771-9995/205-103 pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. B; 1 m; 1,00 mm²; gray	www.wago.com/771-9995/205-103

Required accessories

em	
	www.wago.com/770-121
	www.wago.com/770-131
	www.wago.com/770-101
	www.wago.com/770-111
nousing	
	www.wago.com/770-505 /021-000
	www.wago.com/770-505 /023-000
	www.wago.com/770-505
	em Item no.: 770-121 Locking lever; for flying leads; for manual operation; white Item no.: 770-131 Locking lever; for flying leads; for tool operation; white Item no.: 770-101 Locking lever; for flying leads; for manual operation; black Item no.: 770-111 Locking lever; for flying leads; for tool operation; black Item no.: 770-505/021-000 Strain relief housing; 5-pole; for 1 cable; 11.5 16.5 mm; 71 mm; black Item no.: 770-505/023-000 Strain relief housing; 5-pole; for 2 cables; 5.0 9.0 mm; 55 mm; black Item no.: 770-505 Strain relief housing; 5-pole; for 2 cables; 9.0 13.0 mm; 55 mm; black

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

WAGO GmbH & Co. KG Hansastr. 27 32423 Minden Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com



	Item no.: 770-515 Strain relief housing; 5-pole; for 2 cables; 9.0 13.0 mm; 5	5 mm; white	www.wago.com/770-515
~ ~	ham no : 770 515/022 000		
- and	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; 7	'1 mm; white	www.wago.com/770-515 /021-000
ptional ac	ccessories		
Operating t	cool		
	Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulate	ed shaft	www.wago.com/210-719
Cover			
Cover			
rrr .	Item no.: 770-201 Lockout cap; 12-pole, separable; for sockets; Plastic; black	ĸ	www.wago.com/770-201
1. S. B. S.	Item no.: 770-221 Lockout cap; 12-pole, separable; for sockets; Plastic; white	e	www.wago.com/770-221
	Item no.: 897-2005 Protective cap; Type4; for sockets and plugs; PVC; red		www.wago.com/897-2005
Marking acce	essories		
Marker			
Pr-	Item no.: 770-450/000-002 Marker card; Plastic; yellow		www.wago.com/770-450 /000-002
The second se	Item no.: 770-450/000-001 Marker card; Plastic; green		www.wago.com/770-450 /000-001
-	anges. Please also observe the further product documentat		lusto?
VAGO GmbH		Do you have any questions about our prod	

WAGO GmbH & Co. KG Hansastr. 27 32423 Minden Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com



ip -	Item no.: 770-450/000-005 Marker card; Plastic; red		www.wag /000-005	o.com/770-450
Ter I	Item no.: 770-450 Marker card; Plastic; white		www.wag	o.com/770-450
F	Item no.: 770-450/000-006 Marker card; Plastic; blue		www.wag /000-006	o.com/770-450
Fr -	Item no.: 770-450/000-012 Marker card; Plastic; orange		www.wag /000-012	o.com/770-450
Mounting				
Snap-in fra	ime			
••	Item no.: 770-320 Snap-in frame; 5-pole; 1.0 3.0 mm; black		www.wag	o.com/770-320
•	Item no.: 770-321 Snap-in frame; 5-pole; 0.5 2.0 mm; black		www.wago.com/770-321	
ØØ	Item no.: 770-340 Snap-in frame; 5-pole; 1.0 3.0 mm; white		www.wag	o.com/770-340
\$\$	Item no.: 770-341 Snap-in frame; 5-pole; 0.5 2.0 mm; white		www.wago.com/770-341	
Downloads Document				
Bid Text				
770-245 X81 - Datei		2019 Feb 19	xml 3.0 kB	Download
770-245		2015 Jun 8	doc	Download
Subject to ch	anges. Please also observe the further product docu	mentation!		
WAGO GmbH Hansastr. 27 32423 Minde		Do you have any questions about ou We are always happy to take your ca		-44222.

doc - Datei

CAD data



24.6 kB

CAD/CAE-Data

2D/3D Models 770-245	URL	Download
CAE data		
EPLAN Data Portal 770-245	URL	Download
WSCAD Universe 770-245	URL	Download
ZUKEN Portal 770-245	URL	Download
Environmental Product Compliance		
Compliance Search		
Environmental Product Compliance 770-245	URL	Download
Socket; 5-pole; Cod. B; 4,00 mm²; gray		

Installation Notes

Conductor termination

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

WAGO GmbH & Co. KG Hansastr. 27 32423 Minden Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com







1. Strip length, outer insulation = 35 mm (2pole), 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!

WAGO GmbH & Co. KG Hansastr. 27 32423 Minden Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com

Data sheet | Item number: 770-245 www.wago.com/770-245





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.

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

WAGO GmbH & Co. KG Hansastr. 27 32423 Minden Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com

Data sheet | Item number: 770-245 www.wago.com/770-245





Prepare strain relief housing by snapping together upper and bottom part.



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



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!

WAGO GmbH & Co. KG Hansastr. 27 32423 Minden Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com







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!

WAGO GmbH & Co. KG Hansastr. 27 32423 Minden Phone: +49571 887-0 | Fax: +49571 887-169 Email: info.de@wago.com | Web: www.wago.com