Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black





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Data sheet | Item number: 770-105 www.wago.com/770-105



Overall length when mated

Item description

Dimensions in mm

Female connector/socket WINSTA® MIDI A coding

For signal and power transmission: The WINSTA® MIDI female connector/socket with protection against mismating. WAGO pluggable installation connectors are useful when criteria repeat or are distributed on a specified grid, 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 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 energised elements. Standard mains applications for almost any domain of use can be implemented with WINSTA® MIDI pluggable installation connectors with A coding. This pluggable installation connector can be used for a voltage load of up to 25 A. Therefore, it can also be

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used for high power loads. Our WINSTA® MIDI product line achieves total flexibility for the electrical installation. Through its Push-in CAGE CLAMP® spring pressure connection technology, it guarantees error-free, time-saving installation and offers flexibility for meeting all installation requirements. A range up to 55 mm can be used for the strip length.

Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Now you can also cut installation costs without compromising quality and safety: The WINSTA® MIDI pluggable installation connector with protection type IP20 eliminates the need for servicing and prevents unnecessary downtime.

- protection against mismating eliminates errors
- simple circuits
- with A coding for use in a large number of general mains applications
- custom-engineered solutions
- quick replacement of defective units during ongoing operation

Data

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 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 m Ω of contact resistance		
	approx. $0.25 \text{ m}\Omega$ 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 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°
Strip length (outer insulation)	55 mm

Physical data

Pin spacing	10 mm / 0.394 inches
Width	54.6 mm / 2.15 inches
Height	17 mm / 0.669 inches
Depth	76 mm / 2.992 inches

Mechanical Data

Application	General mains applications
Coding	A
Variable coding	Yes

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Marking	N
Potential marking	N
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).
Strain relief	strain relief housing

Material Data

Note	(material	data)
------	-----------	-------

Information on material specifications can be found here

Color	black
Cover color	gray
Material group	1
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

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Contact plating	Tin
Fire load	0.676 MJ
Weight	29 g

Environmental requirements

Processing temperature	-5 +40 °C	
Continuous operating temperature	-35 +85 ℃	
Note on continuous operating temperature	Insulating parts for temperatures ≤ 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)	25 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918252157
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

			Certificate
Logo	Approval	Additional Approval Text	name
	CCA	EN 61535	71-
	DEKRA Certification B.V.		123228
	CCA	IEC 61535	NL -84761
	DEKRA Certification B.V.		
	cURus	UL 1977	E45171
	Underwriters Laboratories Inc.		
	cURus	UL 1059	E 45172
	Underwriters Laboratories Inc.		
	VDE	EN 61535	40029808
	VDE Prüf- und Zertifizierungsinstitut		

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	VDE	EN 61984	40002889
	VDE Prüf- und Zertifizierungsinstitut		
Declaration	ns of conformity and manufacturer's declarations		
			Certificate
Logo	Approval	Additional Approval Text	name
	EU-Declaration of Conformity	-	-
	WAGO GmbH & Co. KG		
Approvals	for marine applications		
Approvals Logo	for marine applications Approval	Additional Approval Text	Certificate name
		Additional Approval Text -	
	Approval	Additional Approval Text -	name
	Approval ABS	Additional Approval Text -	name
	Approval ABS	Additional Approval Text - -	name 19- HG1868589-
	Approval ABS American Bureau of Shipping	Additional Approval Text - -	name 19- HG1868589- PDA
	Approval ABS American Bureau of Shipping DNV GL	Additional Approval Text IEC 61984	name 19- HG1868589- PDA

Item no.770-115	www.wogo.com/770_11E
Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770-115
Item no.770-215	www.wago.com/770-215
Plug; 5-pole; Cod. A; 4,00 mm ² ; black	www.wago.com/770-213
Item no.770-315	www.wago.com/770-315
Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/170-515
Item no.770-415	www.wago.com/770-415
Plug; 5-pole; Cod. A; 4,00 mm ² ; black	www.wago.com/770-415
Item no.770-609	www.wago.com/770-609
3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; black	www.wago.com/770-009
Item no.770-621	www.wago.com/770-621
T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	www.wago.com/770-021
Item no.770-622	www.waga.aam/770.622
T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black	www.wago.com/770-622
Item no.770-640	
Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1	www.wago.com/770-640
input; 5 outputs; black	
Item no.770-659	www.wago.com/770-659
3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; white	www.wago.com///o-033
Item no.770-715	www.wago.com/770-715
Snap-in plug; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com///o-/15
Item no.770-715/007-000	www.wago.com/770-715
Snap-in plug; with direct ground contact; 5-pole; Cod. A; 4,00 mm²; black	/007-000

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Item no.770-815 Plug for PCBs; straight; 5-pole; Cod. A; black	www.wago.com/770-815
Item no.770-815/011-000 Plug for PCBs; angled; 5-pole; Cod. A; black	www.wago.com/770-815 /011-000
Item no.771-9995/006-101 pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black	www.wago.com/771-9995 /006-101
Item no.771-9995/206-101 pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black	www.wago.com/771-9995 /206-101
Item no.899-631/100-000 Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 7 outputs; Cod. A; MIDI; black	www.wago.com/899-631 /100-000
Item no.899-631/105-000 Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 6 outputs; Cod. A; MIDI; black	www.wago.com/899-631 /105-000
Item no.899-631/187-000 Distribution box; Three-phase current (400 V); 1 input; 5 outputs; Cod. A; MIDI; black	www.wago.com/899-631 /187-000
Item no.899-631/302-000 Distribution box; Three-phase to single-phase current (400 V/230 V); 2 inputs; 6 outputs; Cod. A, P; MIDI; black	www.wago.com/899-631 /302-000
Item no.899-631/346-000 Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 4 outputs; Cod. A; MIDI; black	www.wago.com/899-631 /346-000

Required accessories

Locking	levers
Locking	10 4 61 5

Lockings	system	
	Item no.: 770-121	
	Locking lever; for flying leads; for manual operation; white	www.wago.com/770-121
	Item no.: 770-131	www.wogo.com/770.121
	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
Cover		
Cover		
	Item no.: 770-201	www.waga.com/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

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Optional accessories

Cover		
Cover		
	Item no.: 897-2005	www.wago.com/897-2005
	Protective cap; Type4; for sockets and plugs; PVC; red	www.wago.com/037-2003
larking ac	cessories	
Marker		
	Item no.: 770-450/000-002	www.wago.com/770-450
	Marker card; Plastic; yellow	/000-002
	Item no.: 770-450/000-001	www.wago.com/770-450
	Marker card; Plastic; green	/000-001
	Item no.: 770-450/000-005	www.wago.com/770-450
	Marker card; Plastic; red	/000-005
	Item no.: 770-450	www.wago.com/770-450
	Marker card; Plastic; white	
	Item no.: 770-450/000-006	www.wago.com/770-450
	Marker card; Plastic; blue	/000-006
	Item no.: 770-450/000-012	www.wago.com/770-450
	Marker card; Plastic; orange	/000-012
ool		
Wiring aid	d	
	Item no.: 770-100	www.wago.com/770-100
	Wiring aid; 2- to 5-pole; Plastic; orange	www.wago.com///o-100
Operatin	g tool	
	Item no.: 210-719	www.wago.com/210-719
	Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	www.wago.com/210-719

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Environmental Product Compliance			
Compliance Search			
Environmental Product Compliance 770-105		URL	Download
Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black			

Installation Notes

Conductor termination

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

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www.wago.com/770-105 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 Latch the strain relief housing onto the plug relief housing over the cable prior to /socket. Note the "TOP" inscription. termination. However, the strain relief can be mounted at a later time as well. Prepare strain relief housing by snapping Tighten strain relief screw with screwdriver (2.5 mm blade width). together upper and bottom part. **Product family**

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Show all products from the family

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