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





	I .
Color:	

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Data sheet | Item number: 770-115 www.wago.com/770-115



Dimensions in mm Overall length when mated	
	_

Item description

Male connector/plug WINSTA® MIDI 5-pole

The WINSTA® MIDI male connector/plug with protection type IP20 is the pluggable solution for your use in control cabinets, on PCBs or for lighting connections. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to an enormous variety of requirements in seconds. The color coding and mechanical coding of the pluggable installation connector ensure error-free installation of the individual components – including 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 contact elements. The WINSTA® MIDI pluggable installation connector with A coding in white or black is normally used for general mains applications in

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power distribution. This pluggable installation connector can be employed 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, flexible, and secure electrical installation. The strip length is 55 mm.

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

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Choose quality and durability – the WINSTA® MIDI pluggable installation connector with protection against mismating from WAGO makes the electrical installation of electrical components substantially easier.

- effective protection against mismating
- pre-assembled versions
- with A coding for a large number of applications
- custom-engineered solutions
- rapid, structured electrical installation

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)

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 m Ω of contact resistance

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approx. 0.25 m Ω contact transition plug/socket

Connection data

Connection points	10
Total number of potentials	5
PE function	Preceding PE contact

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
Marking	L3 L2 L1
Potential marking	L3 L2 L1

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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)	Male connector/plug
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	l
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	0.788 MJ

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Weight	29.7 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

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	4044918254441
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate 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		
	VDE	EN 61984	40002889
	VDE Prüf- und Zertifizierungsinstitut		

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

Counterpart

Item no.770-105	www.wago.com/770-
Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black	105
Item no.770-205	www.wago.com/770-
Socket; 5-pole; Cod. A; 4,00 mm²; black	205
Item no.770-305	www.wago.com/770-
Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black	305
 Item no.770-405	www.wago.com/770-
Socket; 5-pole; Cod. A; 4,00 mm²; black	405
Item no.770-609	www.wago.com/770-
3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; black	609
Item no.770-621	www.wago.com/770-
T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	621
Item no.770-611	www.wago.com/770-
Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 2	611
outputs; with cable connection on the input side; black	011
Item no.770-622	www.wago.com/770-
T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black	622
Item no.770-640	MARIA MARIO 00m/770
Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 5	www.wago.com/770- 640
outputs; black	040
 Item no.770-705	www.wago.com/770-
Snap-in socket; 5-pole; Cod. A; 4,00 mm²; black	705
Item no.770-659	www.wago.com/770-
3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; white	659
Item no.770-705/009-000	www.wago.com/770-

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Item no.770-805/011-000 www.wago.com/770-805ket for PCBs; angled; 5-pole; Cod. A; black 805/011-000 www.wago.com/770-805 www.wago.com/770-805 Socket for PCBs; straight; 5-pole; Cod. A; black 805 www.wago.com/770-805 www.wago.com/771-995/006-101 www.wago.com/771-995/006-101 www.wago.com/772-262 www.wago.com/899-015tribution box; Three-phase current (400 V/230 V); 1 input; 7 outputs; Cod. A; MIDI; black www.wago.com/899-631/187-000 www.wago.com/771-9995/106-101	Snap-in socket; with protruding mating face; 5-pole; Cod. A; 4,00 mm ² ; black	705/009-000
Item no.770-805 Socket for PCBs; straight; 5-pole; Cod. A; black 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 Item no.772-262 Tap-off module; for flat cable; 5 x 2.5 mm² + 2 x 1.5 mm²; 5-pole; Cod. A; with cable connection on the output side; black Item no.899-631/100-000 Item no.899-631/187-000 Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 7 outputs; Cod. A; MIDI; black Item no.771-9995/106-101 pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; black Item no.899-631/346-000 www.wago.com/771-9995/106-101 pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 www.wago.com/771-9995/106-101 pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 www.wago.com/771-9995/106-101 www.wago.com/899-631/346-000 www.wago.com/899-631/346-000	Item no.770-805/011-000	www.wago.com/770-
Socket for PCBs; straight; 5-pole; Cod. A; black tem no.771-9995/006-101 www.wago.com/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 www.wago.com/771-9995/006-101 tem no.772-262 Tap-off module; for flat cable; 5 x 2.5 mm² + 2 x 1.5 mm²; 5-pole; Cod. A; with cable connection on the output side; black tem no.899-631/100-000 www.wago.com/899-Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 7 outputs; Cod. A; MIDI; black 631/100-000 www.wago.com/899-Distribution box; Three-phase current (400 V); 1 input; 5 outputs; Cod. A; MIDI; black 631/187-000 tem no.771-9995/106-101 pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 www.wago.com/771-9995/106-101 yre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 www.wago.com/771-9995/106-101 yre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 www.wago.com/771-9995/106-101 yre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 www.wago.com/771-9995/106-101 yre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 www.wago.com/771-9995/106-101 yre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 www.wago.com/771-9995/106-101 yre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 www.wago.com/771-9995/106-101 yre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 www.wago.com/771-9995/106-101 yre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 yre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 yre-assembled connecting cable; 1 m; 1 m; 1 m;	Socket for PCBs; angled; 5-pole; Cod. A; black	805/011-000
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 yeys/006-101 yews/006-101 yews/006-	Item no.770-805	www.wago.com/770-
pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 Item no.772-262	Socket for PCBs; straight; 5-pole; Cod. A; black	805
Tap-off module; for flat cable; 5 x 2.5 mm² + 2 x 1.5 mm²; 5-pole; Cod. A; with cable connection on the output side; black 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 Item no.899-631/187-000 Item no.771-9995/106-101 pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 Item no.899-631/346-000 www.wago.com/899- 631/187-000 www.wago.com/771- 9995/106-101 www.wago.com/771- 9995/106-101 www.wago.com/771-	pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,4	50
Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 7 outputs; Cod. A; MIDI; black Item no.899-631/187-000 www.wago.com/899- Distribution box; Three-phase current (400 V); 1 input; 5 outputs; Cod. A; MIDI; black 631/187-000 Item no.771-9995/106-101 pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 www.wago.com/771- 9995/106-101 www.wago.com/899- Item no.899-631/346-000 www.wago.com/899-	Tap-off module; for flat cable; 5 x 2.5 mm² + 2 x 1.5 mm²; 5-pole; Cod. A; with cable connection on the	ŭ
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Distribution box; Three-phase current (400 V); 1 input; 5 outputs; Cod. A; MIDI; black Item no.771-9995/106-101 pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 www.wago.com/771-9995/106-101 Item no.899-631/346-000 www.wago.com/899-	Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 7 outputs; Cod. A; MIDI; k	olack 631/100-000
Item no.771-9995/106-101 www.wago.com/771-9995/106-101 www.wago.com/771-9995/106-101 www.wago.com/771-9995/106-101 Item no.899-631/346-000 www.wago.com/899-	Item no.899-631/187-000	www.wago.com/899-
pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 www.wago.com/771- mm²; black Item no.899-631/346-000 www.wago.com/899-	Distribution box; Three-phase current (400 V); 1 input; 5 outputs; Cod. A; MIDI; black	631/187-000
	pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m	n: 1.50
Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 4 outputs; Cod. A; MIDI; black 631/346-000	Item no.899-631/346-000	www.wago.com/899-
	Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 4 outputs; Cod. A; MIDI; k	olack 631/346-000

Required accessories

Locking levers

Locking system	
Item no.: 770-121	www.wago.com/770-121
Locking lever; for flying leads; for manual operation; white	3
Item no.: 770-131	
Locking lever; for flying leads; for tool operation; white	www.wago.com/770-131
Item no.: 770-101	www.wogo.com/770.101
Locking lever; for flying leads; for manual operation; black	www.wago.com/770-101
Item no.: 770-111	www.wogo.com/770.111
Locking lever; for flying leads; for tool operation; black	www.wago.com/770-111

Optional accessories

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Tool		
Wiring aid		
	Item no.: 770-100	www.wago.com/770-100
	Wiring aid; 2- to 5-pole; Plastic; orange	www.wago.com///0-100
Operating	tool	
	Item no.: 210-719	WWW W2G0 com/210-710
	Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	www.wago.com/210-719

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Coding		
Coding		
	Item no.: 770-401	www.wago.com/770-401
	Coding pin; for plugs; Plastic; gray	www.wago.com/770-401
Cover		
Cover		
	Item no.: 770-360	www.wago.com/770-360
	Lockout cap; for plugs; 5-pole; separable; yellow	www.wago.com/770-300
	Item no.: 897-2005	
	Protective cap; Type4; for sockets and plugs; PVC; red	www.wago.com/897-2005
Marking ac	ccessories	
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	www.wagu.com/770-450
	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

Downloads Documentation

Bid Text

770-115 X81 - Datei	2019 年2月19日	xml 3.1 kB	Download
770-115 doc - Datei	2015 年6月8日	doc 24.1 kB	Download

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CAD/CAE-Data

CAD data

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CAE data		
EPLAN Data Portal 770-115	URL	Download
WSCAD Universe 770-115	URL	Download
ZUKEN Portal 770-115	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-115 URL Download Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black

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.

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

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

Product family

WINSTA® MIDI
Show all products from the family

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