

www.wago.com/770-115



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

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

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elements. The *WINSTA®* MIDI pluggable installation connector with A coding in white or black is normally used for general mains applications in 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) ≙ 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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 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.

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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
PE function	Preceding PE contact

Connection 1

Push-in CAGE CLAMP®
Operating tool
Push-in
4 mm² / 12 AWG
0.5 4 mm² / 20 12 AWG
1.5 4 mm² / 16 12 AWG
0.5 2.5 mm² / 20 14 AWG
0.5 4 mm² / 20 12 AWG
0.25 1.5 mm² / 20 16 AWG
0.25 2.5 mm² / 20 14 AWG
1.5 mm² / 16 AWG
9 mm / 0.35 inches
5
0 °
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

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Variable coding	Yes
Marking	L3 L2 L1 ± N
Potential marking	L3 L2 L1 🚽 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)	Male connector/plug
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).
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	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)

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Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.788 MJ
Weight	29.7 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	4044918254441
Customs tariff number	85366990990

Environmental Product Compliance

Rot	IS Com	nliance	Status
RUI	10 0011	pliance	Jiaius

Compliant,No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
KEMA	CCA DEKRA Certification B.V.	EN 61535	71- 123228
	CCA DEKRA Certification B.V.	IEC 61535	NL -84761
	cURus Underwriters Laboratories Inc.	UL 1977	E45171

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VDE VDE Prüf- und Zertifizierungsinstitut	EN 61535	40029808
VDE VDE Prüf- und Zertifizierungsinstitut	EN 61984	40002889

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
CE	EU-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
CUCODE PERMICINA	LR Lloyds Register	IEC 61984	LR22429487TA

Counterpart

mil	Item no.770-105	www.wago.com/770-
Aller.	Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black	105

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Will with

ltem no.770-205

Socket; 5-pole; Cod. A; 4,00 mm²; black

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	Item no.770-305 Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770 305
	Item no.770-405 Socket; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770 405
	Item no.770-609 3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; black	www.wago.com/770 609
	Item no.770-621 T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black	www.wago.com/770 621
	Item no.770-611 Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 2 outputs; with cable connection on the input side; black	www.wago.com/770 611
*	ltem no.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 input; 5 outputs; black	www.wago.com/770 640
	Item no.770-705 Snap-in socket; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770 705
\$ (\$	Item no.770-659 3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; white	www.wago.com/770 659
	Item no.770-705/009-000 Snap-in socket; with protruding mating face; 5-pole; Cod. A; 4,00 mm²; black	www.wago.com/770 705/009-000
	Item no.770-805/011-000 Socket for PCBs; angled; 5-pole; Cod. A; black	www.wago.com/77(805/011-000
N @ 1 2 B	Item no.770-805 Socket for PCBs; straight; 5-pole; Cod. A; black	www.wago.com/770 805
	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/77 9995/006-101
	Item no.772-262 Tap-off module; for flat cable; 5 x 2.5 mm ² + 2 x 1.5 mm ² ; 5-pole; Cod. A; with cable connection on the output side; black	www.wago.com/772 262

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www.wago.com/770-131

www.wago.com/770-101

www.wago.com/770-111

www.wago.com/770-360

www.wago.com/897-2005

631/187-000



ltem 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 631/100-000

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Item no.899-631/187-000

Distribution box; Three-phase current (400 V); 1 input; 5 outputs; Cod. A; MIDI; black

ltem 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/771mm²; black



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 631/346-000

Required accessories

Locking I	evers

Locking system



ltem no.: 770-121	
Locking lever; for flying leads; for manual operation; white	

S.

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

115
120

Item no.: 770-111 Locking lever; for flying leads; for tool operation; black

Optional accessories

Cover

Cover



Item no.: 770-360 Lockout cap; for plugs; 5-pole; separable; yellow

Item no.: 897-2005 Protective cap; Type4; for sockets and plugs; PVC; red

Tool

Wiring aid

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	Item no.: 770-100 Wiring aid; 2- to 5-pole; Plastic; orange	www.wago.com/770-100
Operating t	ool	
	Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	www.wago.com/210-719
Coding		
Coding		
-	Item no.: 770-401 Coding pin; for plugs; Plastic; gray	www.wago.com/770-401
Marking acce	essories	
Marker		
Ref.	Item no.: 770-450/000-002 Marker card; Plastic; yellow	www.wago.com/770-450 /000-002
Fp	Item no.: 770-450/000-001 Marker card; Plastic; green	www.wago.com/770-450 /000-001
F	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
Sp -	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

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Plug; 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 (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

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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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