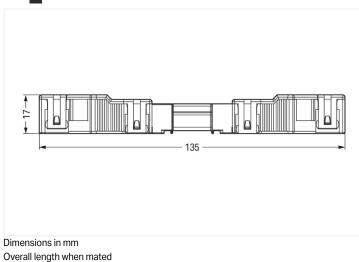


Color: black

Dimensions in mm



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 errorfree 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 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

https://www.wago.com/770-115





Electrical data

Item No.: 770-505

Nominal voltage (III/3) 400 V rent interruption in accordance with the UL certificate in select applications with	Ratings per IEC/EN		Ratings per UL 1977	
Nominal voltage (III/3) 400 V Rated impulse voltage (III/3) 6 kV Rated current 25 A Legend (ratings) (III / 3) ≙ Overvoltage category III / Polluti- on degree 3 Rated voltage (UL 1977) 600 V.	Ratings per	IEC/EN 60664-1	Note for the US market	Some versions may also be used for cur-
Rated impulse voltage (III/3) 6 kV currents below 16 A and voltages up to 600 V. For further information, please contact your local sales office. Rated current 25 A Rated voltage (UL 1977) 600 V. For further information, please contact your local sales office.	Nominal voltage (III/3)	400 V	UL certific currents b 600 V. For	•
Rated current 25 A contact your local sales office. Legend (ratings) (III / 3) (Vervoltage category III / Polluti- on degree 3 Rated voltage (UL 1977) 600 V	Rated impulse voltage (III/3)	6 kV		currents below 16 A and voltages up to
Legend (ratings) (III / 3) ≜ Overvoltage category III / Polluti- on degree 3 Rated voltage (UL 1977) 600 V	Rated current	25 A		
on degree 3	Legend (ratings)		Rated voltage (UI 1977)	
			5 ()	

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	Connection 1	
Total number of potentials	5	Connection technology	Push-in CAGE CLAMP®
PE function	Preceding PE contact	Actuation type	Operating tool

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 uninsula- ted 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
Connectable sheathed cable diameter	9 13 mm
Conductor entry direction to mating di- rection	0°
Strip length (outer insulation)	55 mm

Data Sheet | Item Number: 770-115 https://www.wago.com/770-115

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Physical data		
Pin spacing	10 mm / 0.394 inches	
Width	54.6 mm / 2.15 inches	
Height	17 mm / 0.669 inches	
Depth	75.9 mm / 2.988 inches	

Mechanical data	
Application	General mains applications
Coding	Α
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 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 devi- ces, all types of PCB and distribution connectors) are factory-equipped with locking le- vers 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)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.713 MJ
Weight	29.7 g

https://www.wago.com/770-115



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

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
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
VDE VDE Prüf- und Zertifizie- rungsinstitut	EN 61984	40002889
VDE VDE Prüf- und Zertifizie- rungsinstitut	EN 61535	40029808

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

THE STORE OF THE S	Normal State	
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1868589-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001Z6
LR Lloyds Register	IEC 61984	LR22429487TA

Downloads

Environmental Product Compliance

https://www.wago.com/770-115

Com	pliance Search
	onmental Product pliance 770-115



Documentation

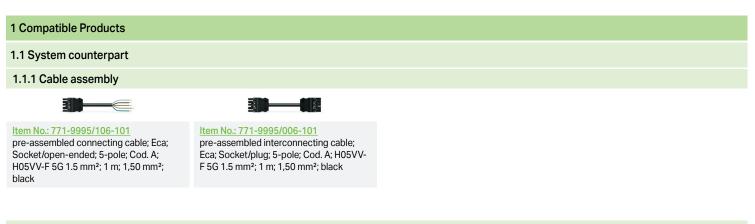
Bid Text			
770-115	19.02.2019	xml 3.01 KB	$\underline{\checkmark}$
770-115	08.06.2015	doc 23.50 KB	\downarrow
ausschreiben.de 770-115			$\underline{\checkmark}$

CAD/CAE-Data

CAD data
2D/3D Models 770-115

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CAE data	
EPLAN Data Portal 770-115	$\underline{\checkmark}$
WSCAD Universe 770-115	\downarrow
ZUKEN Portal 770-115	\downarrow



1.1.2 Distribution box

Item No.: 899-681/147-000 Distribution box; 400 V + DALI; 2 inputs; 5 outputs; Cod. A, I; MINI, MIDI; white

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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

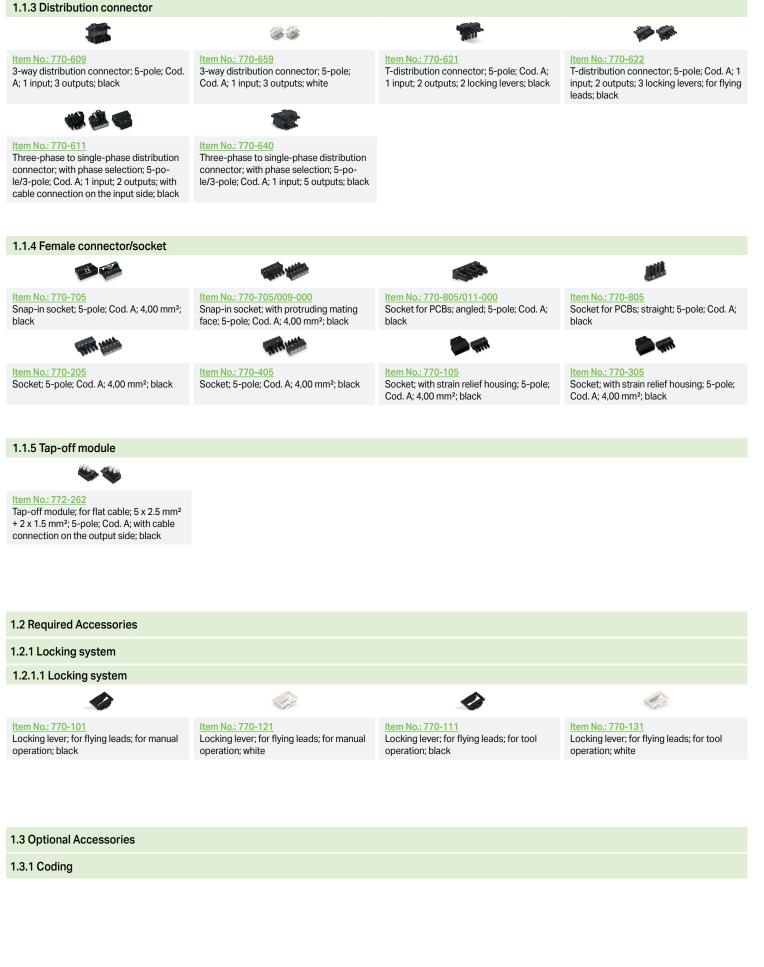
Item No.: 899-631/346-000 Distribution box; Three-phase to singlephase current (400 V/230 V); 1 input; 4 outputs; Cod. A; MIDI; black



Item No.: 899-631/100-000 Distribution box; Three-phase to singlephase current (400 V/230 V); 1 input; 7 outputs; Cod. A; MIDI; black

https://www.wago.com/770-115

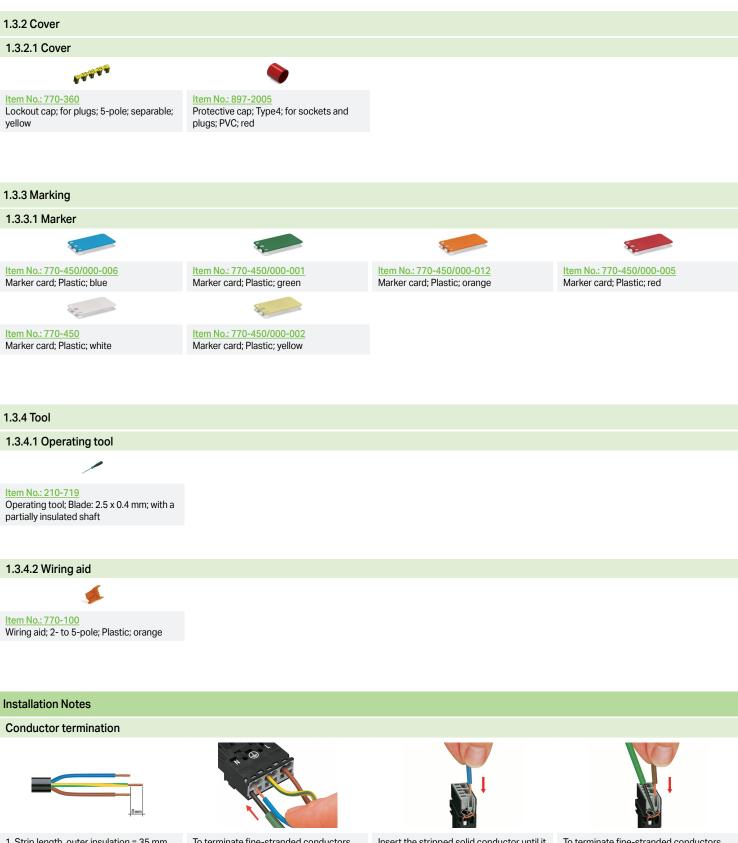




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1. Strip length, outer insulation = 35 mm

(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.

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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.



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



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

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