

Dimensions in mm

Male connector/plug WINSTA® MIDI with protection type IP20

For power and signal transmission: The *WINSTA®* MIDI male connector/plug A coding. WAGO pluggable installation connectors can be used when criteria repeat or are distributed on a defined pattern, for example for installing grid lighting or flush-mount lighting. 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 against ingress by solid objects 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!)). Thanks to the color coding and mechanical A coding of *WINSTA®* MIDI pluggable installation connectors, you can clearly distinguish different circuits. The rated current and voltage are important criteria for selecting a pluggable installation connector: They provide information about possible domains of use and applications. This product has a current rating of 25 A – so it is suitable for high power loads. Our *WINSTA®* MIDI product line achieves flexibility for the installation. Through its Push-in CAGE CLAMP® spring pressure connection technology, it ensures time-saving, error-free installation and offers flexibility for meeting all installation requirements.

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

WINSTA® is the pluggable connection system that is ideally tailored to the strict requirements of electrical installation. It ensures error-free installation of cables and components, quickly and reliably. Now you can also reduce installation expenses without compromising quality and safety: with protection against mismating reduces the need for servicing and prevents unnecessary downtime.

- · effective protection against mismating
- simple circuits
- with A coding for a great number of applications
- exact dimensions
- convenient installation and commissioning

https://www.wago.com/770-215



Electrical data			
Ratings per	IEC	/EN 60664	-1
Overvoltage category	Ш	Ш	I
Pollution degree	3	2	2
Nominal voltage	400 V	-	-
Rated surge voltage	6 kV	-	-
Rated current	25 A	-	-

Approvals per	UL 1977
Rated voltage	600 V
Rated current	23 A

9 mm / 0.35 inches

5

0°

General information

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 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

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

Strip length

Pole number

rection

Conductor entry direction to mating di-

Mechanical data	
Application	General mains applications
Coding	A
Variable coding	Yes
Marking	L3L2L1 N
Potential marking	L3L2L1 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!)

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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 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).

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	0.437 MJ
Weight	16.3 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)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4044918254557
Customs tariff number	85366990990

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Environmental Product Compliance

RoHS Compliance Status



Compliant,No Exemption

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
cURus Underwriters Laboratories Inc.	UL 1059	E 45172
VDE VDE Prüf- und Zertifizie- rungsinstitut	EN 61984	40002889

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications

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

٦	Downloads
E	Environmental Product Compliance
(Compliance Search
	Environmental Product Compliance 770-215

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Documentation

Bid Text			
770-215	19.02.2019	xml 2.93 KB	\downarrow
770-215	08.06.2015	doc 23.50 KB	\downarrow

CAD/CAE-Data

CAD data	CAE data
2D/3D Models 770-215	EPLAN Data Portal 770-215
	WSCAD Universe 770-215
	ZUKEN Portal 770-215

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly

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;

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

1.1.2 Distribution box

black



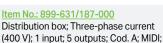
Item No.: 899-681/147-000 Distribution box; 400 V + DALI; 2 inputs; 5 outputs; Cod. A, I; MINI, MIDI; white



black

Item No.: 770-659

Item No.: 770-640



100

Three-phase to single-phase distribution

le/3-pole; Cod. A; 1 input; 5 outputs; black

connector; with phase selection; 5-po-

3-way distribution connector; 5-pole;

Cod. A; 1 input; 3 outputs; white

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

1.1.3 Distribution connector

Item No.: 770-609 3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; black



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



Item No.: 770-621 T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black

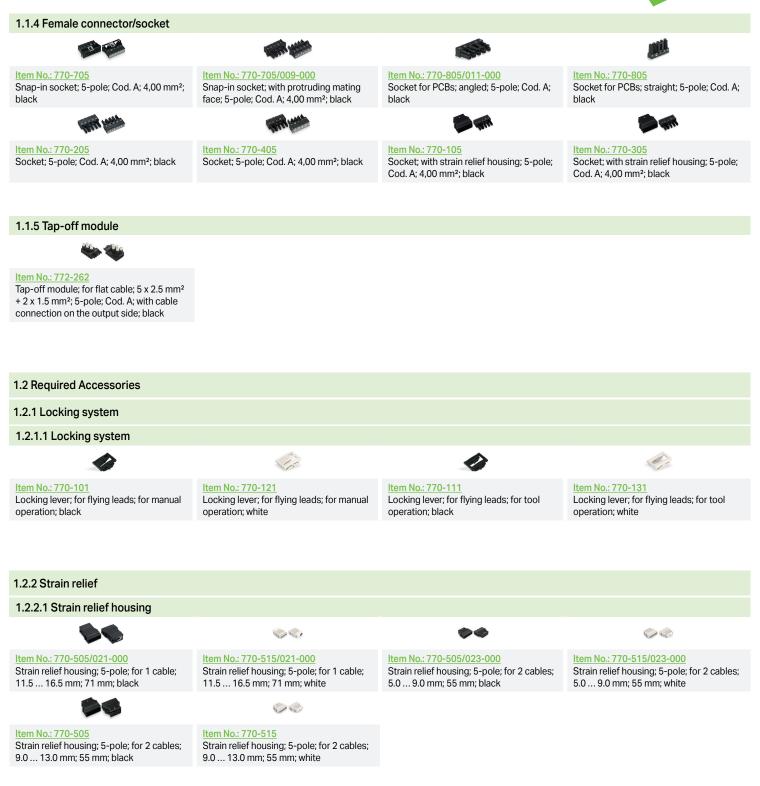


Item No.: 770-622 T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black



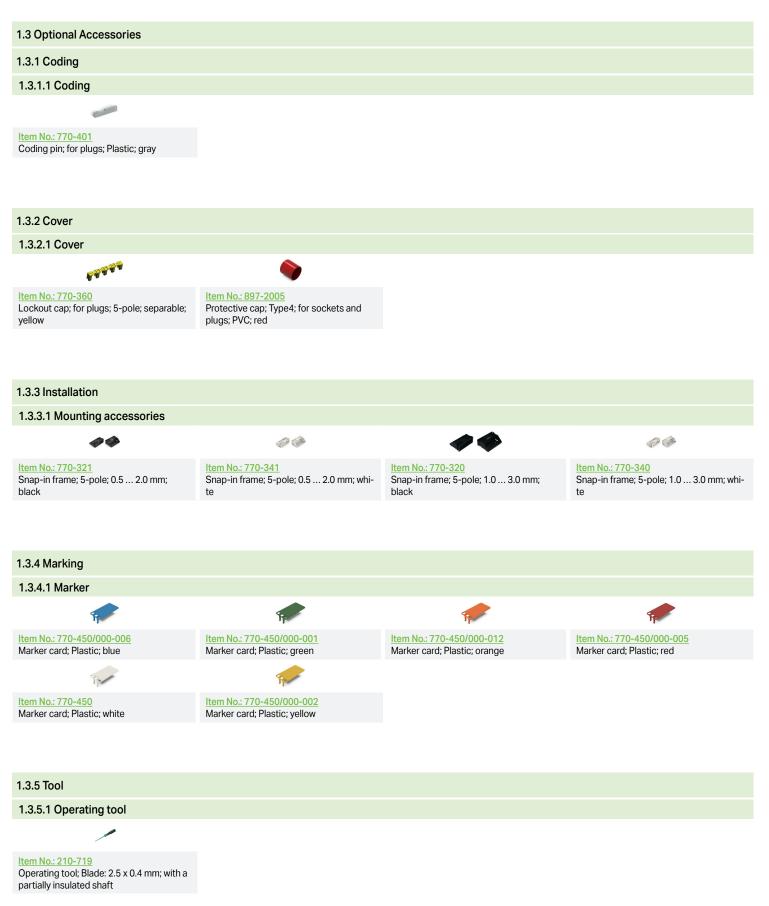
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Item No.: 770-100 Wiring aid; 2- to 5-pole; Plastic; orange

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.



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.



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



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