Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black

https://www.wago.com/770-113

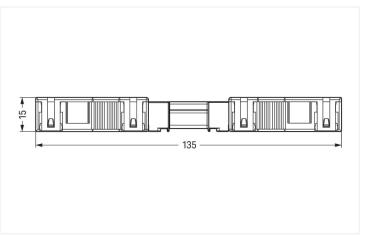




76

Dimensions in mm

Color:
black



Dimensions in mm

Overall length when mated

Male connector/plug WINSTA® MIDI rated current 25 A

The WINSTA® MIDI male connector/plug 3-pole is the pluggable solution for your use in control cabinets, on PCBs or for lighting connections. WAGO pluggable installation connectors are used when specifications repeat or are planned on a specific 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 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!)). This means that users' fingers will never come into contact with electrified elements. General mains applications for almost any domain of use can be realised with WINSTA® MIDI pluggable installation connectors with A coding. This pluggable installation connector is used for electrical currents up to 25 A. Thus the product is also suitable for high power loads. The WINSTA® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates precise electrification. Due to the included test slot, it is possible to check connections even when they are plugged in. That saves time and reduces installation labor and costs. The strip length is 55 mm.

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 significantly reduces the need for servicing and lowers costs. Choose quality and durability – the WINSTA® MIDI pluggable installation connector with strain relief hosting from WAGO makes the installation of electrical components visibly easier.

- · protection against mismating eliminates errors
- · pre-assembled versions
- suitable for any application
- ready to install and use immediately
- · convenient installation and commissioning

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This item includes:





Item No.: 770-503

1

Item No.: 770-213

1

Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; black

Plug; 3-pole; Cod. A; 4,00 mm²; black

Electrical data			
Ratings per	IEC	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	250 V	-	-
Rated surge voltage	4 kV	-	-
Rated current	25 A	-	-

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

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	6
Total number of potentials	3
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	3
Connectable sheathed cable diameter	8 11.5 mm
Conductor entry direction to mating direction	0°
Strip length (outer insulation)	55 mm

Physical data	
Pin spacing	10 mm / 0.394 inches
Width	34.6 mm / 1.362 inches
Height	15 mm / 0.591 inches
Depth	76 mm / 2.992 inches

Data Sheet | Item Number: 770-113 https://www.wago.com/770-113



Mechanical data	
Application	General mains applications
Coding	A
Variable coding	Yes
Marking	$N \oplus L$
Potential marking	$N \oplus L$
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	I
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	0.484 MJ
Strain relief color	black
Weight	19.8 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

https://www.wago.com/770-113



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	4044918254083
Customs tariff number	85366990990

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
VDE VDE Prüf- und Zertifizie- rungsinstitut	EN 61535	40029808

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications







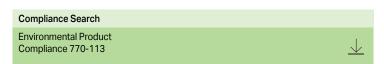
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1868589-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001Z6
LR Lloyds Register	IEC 61984	LR22429487TA

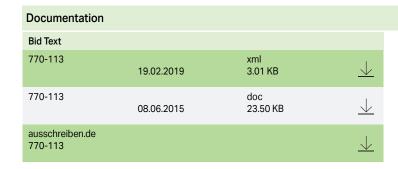
Downloads

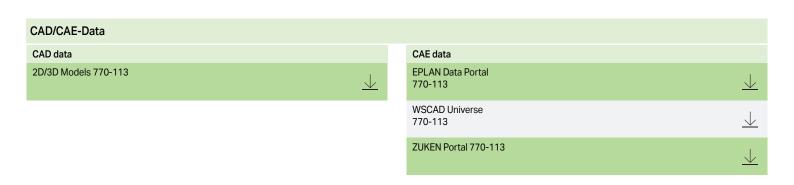
Environmental Product Compliance

https://www.wago.com/770-113









1 Compatible Products 1.1 System counterpart 1.1.1 Cable assembly

Item No.: 771-9993/106-101 pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; black

Item No.: 771-9993/006-101 pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; black



tor; 1 input; 3 outputs; Cod. A, S; MIDI; black



Item No.: 899-631/477-000

Distribution box; Single-phase current (230 V); 1 input; 11 outputs; Cod. A; MIDI

Item No.: 899-631/334-000 Distribution box; Single-phase current (230 V); 1 input; 13 outputs; Cod. A; MIDI; black

Item No.: 899-631/476-000 Distribution box; Single-phase current (230 V); 1 input; 4 outputs; Cod. A; MIDI 7 outputs; Cod. A, S; MIDI; black





Distribution box: Single-phase current (230 V); 1 input; 7 outputs; Cod. A; MIDI; black

https://www.wago.com/770-113

1.1.2 Distribution box





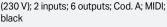
Distribution box; Single-phase current





Item No.: 899-631/311-000

Distribution box; Single-phase current (230 V); 2 inputs; 6 outputs; Cod. A, P; MI-DI; black



Item No.: 899-631/327-000

Item No.: 899-631/363-000 Distribution box; Single-pole switch circuit; 1 input; 5 outputs; Cod. A, S; MIDI;

black

Item No.: 899-631/478-000 Distribution box; Single-pole switch cir-







cuit; 1 input; 7 outputs; Cod. A, S; MIDI

Item No.: 899-631/450-000

Distribution box; supply cable entry; 6 outputs; Cod. A; MIDI; black



Item No.: 899-632/101-000

Distribution box; Surge switch circuit; 1 input; 4 outputs; Cod. A, S; MIDI; black



Item No.: 899-632/138-000

Distribution box; Surge switch circuit; 1 input; 4 outputs; Cod. A, S; MIDI; black



Item No.: 899-632/103-000

Distribution box; Surge switch circuit; 2 inputs; 2 outputs; Cod. A; MIDI



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



Distribution box; Three-phase to singlephase current (400 V/230 V); 1 input; 6 outputs; Cod. A; MIDI, MAXI; black



Item No.: 899-631/105-000

Distribution box; Three-phase to singlephase current (400 V/230 V); 1 input; 6 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



Item No.: 899-631/302-000

Distribution box; Three-phase to singlephase current (400 V/230 V); 2 inputs; 6 outputs: Cod. A. P: MIDI: black

Item No.: 899-631/338-000

Distribution box; Three-phase to singlephase current (400 V/230 V); supply cable entry; 1 input; 6 outputs; Cod. A; MIDI;

Item No.: 899-631/308-000

Distribution box; Two-way circuit; 1 input; 5 outputs: Cod. A. S: MIDI: black

Item No.: 899-631/189-000

Distribution box; Two-way circuit; 1 input; 7 outputs: Cod. A. S: MIDI: black

1.1.3 Distribution connector

Item No.: 770-607

3-way distribution connector; 3-pole; Cod. A; 1 input; 3 outputs; black

Item No.: 770-608

5-way distribution connector; 3-pole; Cod. A; 1 input; 5 outputs; outputs on both sides; black

Item No.: 770-638

Distribution connector for switches; Single-pole and throttle two-way circuit; 3pole; Cod. A/S; 1 input; 5 outputs; black

Item No.: 770-637

Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; black



h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black

Item No.: 770-635

h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; black

Item No.: 770-634

h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; black

Item No.: 770-636

h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; black



Item No.: 770-633

T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black

Item No.: 770-615

T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; 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.: 770-640

Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 5 outputs; black

1.1.4 Female connector/socket



Snap-in socket; 3-pole; Cod. A; 4,00 mm²; black

Item No.: 770-703/009-000

Snap-in socket; with protruding mating face; 3-pole; Cod. A; 4,00 mm²; black

Item No.: 770-803/011-000

Socket for PCBs; angled; 3-pole; Cod. A; black

Item No.: 770-803

Socket for PCBs; straight; 3-pole; Cod. A; black



Item No.: 770-103

Socket; with strain relief housing; 3-pole; Cod. A: 4.00 mm²: black

Item No.: 770-203/035-000

Socket; with strain relief housing; 3-pole; Cod. A: 4.00 mm²: black

Socket; 3-pole; Cod. A; 4,00 mm²; black

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1.1.5 Tap-off module



Item No.: 772-263

Tap-off module; for flat cable; 5 x 2.5 mm² + 2 x 1.5 mm²; 3-pole; Cod. A; with cable connection on the output side; black

1.2 Required Accessories

1.2.1 Locking system

1.2.1.1 Locking system









Item No.: 770-101

Locking lever; for flying leads; for manual operation; black

Item No.: 770-121

Locking lever; for flying leads; for manual operation; white

Item No.: 770-111

Locking lever; for flying leads; for tool operation; black

Item No.: 770-131

Locking lever; for flying leads; for tool operation; white

1.3 Optional Accessories

1.3.1 Coding

1.3.1.1 Coding



Item No.: 770-401

Coding pin; for plugs; Plastic; gray

1.3.2 Cover

1.3.2.1 Cover



Item No.: 770-360

Lockout cap; for plugs; 5-pole; separable; yellow

1.3.3 Marking

1.3.3.1 Marker





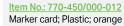




Item No.: 770-450/000-006

Marker card; Plastic; blue





Item No.: 770-450/000-005

80



Marker card; Plastic; red

Item No.: 770-450

Marker card; Plastic; white

<u>Item No.: 770-450/000-002</u> Marker card; Plastic; yellow

Marker card; Plastic; green

1.3.4 Tool

https://www.wago.com/770-113



1.3.4.1 Operating tool



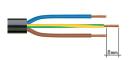
Item No.: 770-383 Operating tool; 3-way; green

Item No.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

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.

Coding



Simply cut off the coding pin from the socket.



Insert coding pin into plug (break first) until it engages.

Shield termination



Connector with shield termination



Apply the shield to the sheathed cable.

Strip length, outer insulation = 55 mm

Shield length = 10 mm



Push the shield connecting plate into the connector until fully inserted.



First insert the wired connector into a strain relief housing, then snap cover and tighten screw.

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

Current addresses can be found at:: $\underline{www.wago.com}$

Page 8/8 Version 16.08.2023