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

https://www.wago.com/770-103

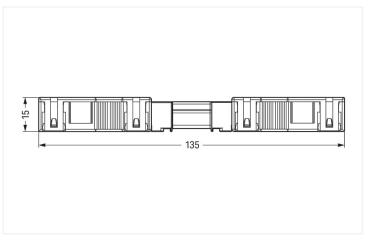




76

Dimensions in mm

Color: Dlack



Dimensions in mm Overall length when mated

Female connector/socket WINSTA® MIDI A coding

For signal and power transmission: The *WINSTA*® MIDI female connector/socket rated current 25 A. The pluggable installation connectors with spring pressure connection technology function entirely without screw connections. They allow flexible, error-free installation in a large number of applications. The coding options reduce installation errors, allowing fast, secure wiring of all components. Thanks to the color coding and mechanical A coding of *WINSTA*® MIDI pluggable installation connectors, you can clearly distinguish different circuits. Important parameters in the selection of a pluggable installation connector are the rated current and voltage: They provide information about possible domains of use and applications. This product has a current rating of 25 A – so it is also suitable for robust loads. The *WINSTA*® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates exemplary electrification. Thanks to the integrated test slot, it is possible to check connections even when they are plugged in. That saves time and reduces installation labor and costs. A range up to 55 mm can be used for the strip length.

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 saves time, lowers costs, and reduces the need for servicing. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with protection type IP2XC from WAGO.

- · effective protection against mismating
- pre-assembled versions
- · suitable for any application
- · ready to install and use immediately
- quick replacement of defective units during ongoing operation

https://www.wago.com/770-103



This item includes:



全

Item No.: 770-503

1

Item No.: 770-203

1

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

Socket; 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	
Number of test slots	3	

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: 770-103 https://www.wago.com/770-103



Mechanical data	
Application	General mains applications
Coding	A
Variable coding	Yes
Marking	L N
Potential marking	L 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	IP2XC; 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)	Female connector/socket
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	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	0.443 MJ
Connector color	black
Strain relief color	black
Weight	20 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/770-103



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	Вох
Country of origin	DE
GTIN	4044918252096
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







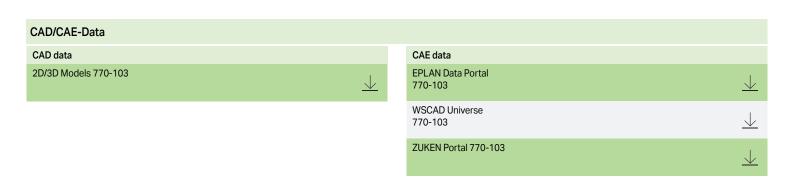
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1868589-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001Z6
LR Lloyds Register	IEC 61984	LR22429487TA

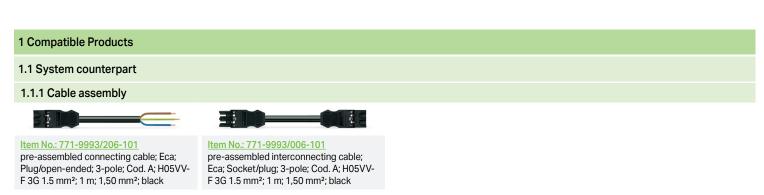
https://www.wago.com/770-103



Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 770-103

Documentation Bid Text 770-103 xml 19.02.2019 3.01 KB √ 770-103 doc 23.50 KB √ ausschreiben.de 770-103









black

Distribution box; Motion/presence detec-

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



Distribution box; Motion/presence detector; 1 input; 5 outputs; Cod. A; MIDI; black

Item No.: 899-632/102-000 Distribution box; Relay switching; 2 inputs; 1 output; Cod. A, B; MINI, MIDI; black Item No.: 899-631/386-000

Distribution box; Series switching; 1 input; 7 outputs; Cod. A, S; MIDI; black

https://www.wago.com/770-103



1.1.2 Distribution box





(230 V); 1 input; 13 outputs; Cod. A; MIDI;





Item No.: 899-631/477-000

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



black

Item No.: 899-631/476-000 Distribution box; Single-phase current

Distribution box; Single-phase current (230 V); 1 input; 4 outputs; Cod. A; MIDI; black

Item No.: 899-631/104-000

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



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.: 899-631/334-000

Distribution box; Single-phase current (230 V); 2 inputs; 6 outputs; Cod. A; MIDI; black

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 circuit; 1 input; 7 outputs; Cod. A, S; 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; black

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



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



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



3-way distribution connector; 3-pole; Cod.

Item No.: 770-633

Item No.: 770-607

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.: 770-606

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

1.1.4 Male connector/plug



Item No.: 770-813/011-000

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

Item No.: 770-813

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

Item No.: 770-213

Plug; 3-pole; Cod. A; 4,00 mm²; black

Item No.: 770-213/002-000 Plug; with direct ground contact; 3-pole; Cod. A; 4,00 mm²; black





Item No.: 770-113

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

Item No.: 770-213/035-000

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

Item No.: 770-713

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

Item No.: 770-713/007-000

Snap-in plug; with direct ground contact; 3-pole; Cod. A; 4,00 mm²; 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 Cover

1.3.1.1 Cover



Item No.: 770-201

Lockout cap; 12-pole, separable; for sockets; Plastic; black

Item No.: 770-221

Lockout cap; 12-pole, separable; for sockets; Plastic; white

1.3.2 Marking

1.3.2.1 Marker











Item No.: 770-450 Marker card; Plastic; white



Item No.: 770-450/000-001 Marker card; Plastic; green

Marker card; Plastic; yellow



Item No.: 770-450/000-002



Item No.: 770-450/000-012 Marker card; Plastic; orange



Item No.: 770-450/000-005 Marker card; Plastic; red

1.3.3 Tool

1.3.3.1 Operating tool



Item No.: 770-383

Operating tool; 3-way; green

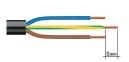


Item No.: 210-719

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.

https://www.wago.com/770-103



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).

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 22.04.2024