

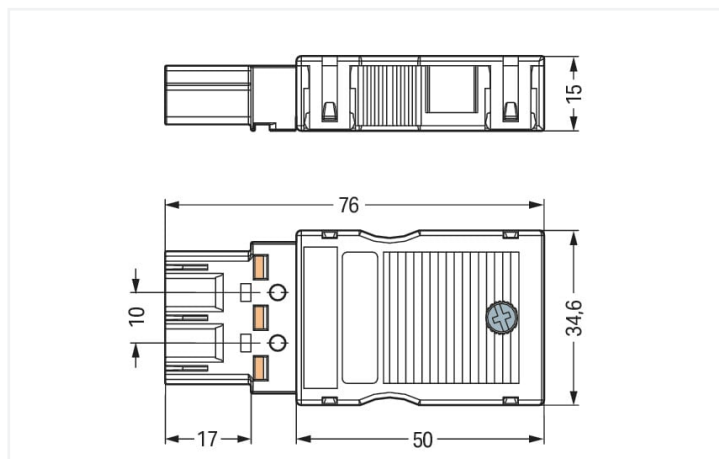
## Data Sheet | Item Number: 770-133

Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm<sup>2</sup>; white

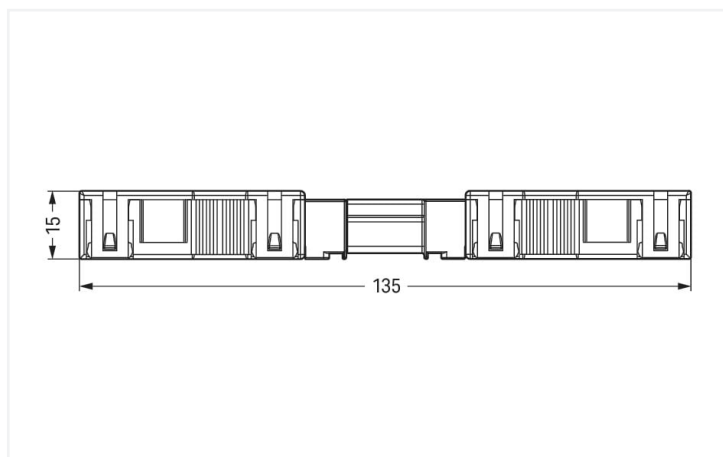
<https://www.wago.com/770-133>



Color: ■ white



Dimensions in mm



Dimensions in mm

Overall length when mated

### Male connector/plug WINSTA® MIDI A coding



Use effective pluggable connections instead of laborious screw connections: With the WINSTA® MIDI male connector/plug A coding. The pluggable installation connectors with spring pressure connection technology function entirely without screw connections. They allow fast, efficient, error-free installation in a large number of applications. The color coding and mechanical coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. 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!)). Standard mains applications for almost any domain of use can be implemented with WINSTA® MIDI pluggable installation connectors with A coding. 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 – therefore it is also suitable for robust loads. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in can be found in a variety of projects you can use for quick, easy and maximally flexible 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 – with marking from WAGO makes the electrical installation of electrical components visibly easier.

- effective protection against mismatching
- pre-assembled versions
- with A coding for a great number of uses
- exact dimensions
- fast, secure installation

This item includes:

			
<a href="#">Item No.: 770-513</a>	1	<a href="#">Item No.: 770-233</a>	1
Strain relief housing; 3-pole; for 2 cables; 8.0 ... 11.5 mm; 55 mm; white		Plug; 3-pole; Cod. A; 4,00 mm²; white	

Electrical data

Ratings per		IEC/EN 60664-1			Approvals per		UL 1977
Overvoltage category		III	III	II	Rated voltage		600 V
Pollution degree		3	2	2	Rated current		23 A
Nominal voltage		250 V	-	-			
Rated surge voltage		4 kV	-	-			
Rated current		25 A	-	-			

General information

Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/ socket
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Connection data

Connection points	6	<b>Connection 1</b>	
Total number of potentials	3	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 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



Mechanical data	
Application	General mains applications
Coding	A
Variable coding	Yes
Marking	N L
Potential marking	N 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)	<a href="#">Information on material specifications can be found here</a>
Color	white
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	0.454 MJ
Connector color	white
Strain relief color	white
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






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	4044918254120	
Customs tariff number	85366990990	

Environmental Product Compliance		
RoHS Compliance Status	Compliant, No Exemption	

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
    			Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 61535	71-123228	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
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			

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

Compliance Search

Environmental Product Compliance 770-133

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Documentation

Bid Text			
770-133	19.02.2019	xml 3.01 KB	↓
770-133	08.06.2015	doc 23.50 KB	↓

CAD/CAE-Data

CAD data

2D/3D Models 770-133

↓

CAE data

EPLAN Data Portal 770-133

↓

WSCAD Universe 770-133

↓

ZUKEN Portal 770-133

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1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



**Item No.: 771-9993/106-102**  
pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; white



**Item No.: 771-9993/006-102**  
pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; white

1.1.2 Distribution box

**Item No.: 899-631/180-000**  
Distribution box; Motion/presence detector; 1 input; 5 outputs; Cod. A; MIDI; black

**Item No.: 899-631/395-000**  
Distribution box; Single-phase current (230 V); 1 input; 6 outputs; Cod. A; MIDI; black

**Item No.: 899-631/327-000**  
Distribution box; Single-phase current (230 V); 2 inputs; 6 outputs; Cod. A; 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.: 899-681/105-000**  
Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 6 outputs; Cod. A; MIDI; white

**Item No.: 899-681/100-000**  
Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 7 outputs; Cod. A; MIDI; white














**Item No.: 899-681/144-000**  
Distribution box; Three-phase to single-phase current (400 V/230 V); 2 inputs; 6 outputs; Cod. A; MIDI; white

**Item No.: 899-681/123-000**  
Distribution box; Three-phase to single-phase current (400 V/230 V); supply cable entry; 6 outputs; Cod. A; MIDI; white








**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

 <b>Item No.: 770-657</b> 3-way distribution connector; 3-pole; Cod. A; 1 input; 3 outputs; white	 <b>Item No.: 770-658</b> 5-way distribution connector; 3-pole; Cod. A; 1 input; 5 outputs; white	 <b>Item No.: 770-688</b> Distribution connector for switches; Single-pole and throttle two-way circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; white	 <b>Item No.: 770-687</b> Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; white
 <b>Item No.: 770-683</b> h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on both sides; 2 locking levers; white	 <b>Item No.: 770-685</b> h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on both sides; 3 locking levers; for flying leads; white	 <b>Item No.: 770-684</b> h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white	 <b>Item No.: 770-686</b> h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white
 <b>Item No.: 770-6223</b> Linect® T-connector; 3-pole; Cod. A; 1 input; 2 outputs; white	 <b>Item No.: 770-656</b> T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white	 <b>Item No.: 770-665</b> T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white	 <b>Item No.: 770-661</b> 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; white
 <b>Item No.: 770-690</b> Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 5 outputs; white			





1.1.4 Female connector/socket

 <b>Item No.: 770-723</b> Snap-in socket; 3-pole; Cod. A; 4,00 mm²; white	 <b>Item No.: 770-723/009-000</b> Snap-in socket; with protruding mating face; 3-pole; Cod. A; 4,00 mm²; white	 <b>Item No.: 770-823/011-000</b> Socket for PCBs; angled; 3-pole; Cod. A; white	 <b>Item No.: 770-823</b> Socket for PCBs; straight; 3-pole; Cod. A; white
 <b>Item No.: 770-223</b> Socket; 3-pole; Cod. A; 4,00 mm²; white	 <b>Item No.: 770-123</b> Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; white	 <b>Item No.: 770-223/035-050</b> Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; white	

1.2 Required Accessories

1.2.1 Locking system

1.2.1.1 Locking system

 <b>Item No.: 770-101</b> Locking lever; for flying leads; for manual operation; black	 <b>Item No.: 770-121</b> Locking lever; for flying leads; for manual operation; white	 <b>Item No.: 770-111</b> Locking lever; for flying leads; for tool operation; black	 <b>Item No.: 770-131</b> Locking lever; for flying leads; for tool operation; white
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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.: 770-450/000-001  
Marker card; Plastic; green



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



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



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



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

1.3.4 Tool

1.3.4.1 Operating tool



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



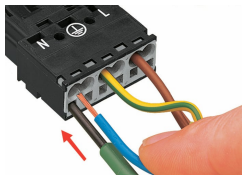
Item No.: 210-719  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

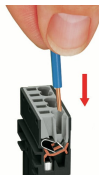
Conductor termination



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.

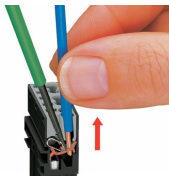


Insert the stripped solid conductor until it hits the backstop.



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

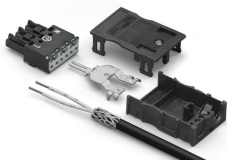


Simply cut off the coding pin from the socket.



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.