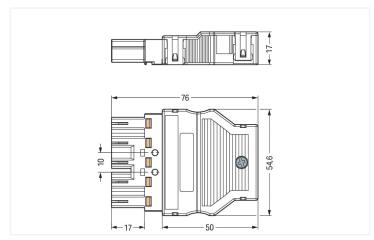
Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; black

https://www.wago.com/770-315

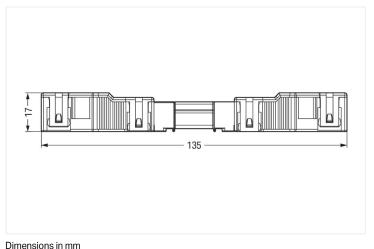






Color: ■ black

Dimensions in mm



Overall length when mated

Male connector/plug WINSTA® MIDI with protection type IP20

Use effective pluggable connections instead of laborious screw connections: With the WINSTA® MIDI male connector/plug with protection type IP20. The pluggable installation connectors with spring pressure connection technology work without screw connections. They allow fast, efficient, error-free installation in a large number of applications. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector offers protection against contact with live components 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. This pluggable installation connector can be employed for a 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 a broad range of individual products 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

WINSTA® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It allows fast, secure and, above all, error-free installation of components and cables. Now you can also lower installation costs without compromising quality and safety: with protection type IP20 reduces the need for servicing and prevents unnecessary downtime.

- pluggable installation connectors with protection against mismating
- · for automation controllers
- · with A coding for a large number of applications
- · ready for immediate use
- rapid, structured electrical installation

https://www.wago.com/770-315



## This item includes:





Item No.: 770-505

1

Item No.: 770-415

1

Strain relief housing; 5-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; black

Plug; 5-pole; Cod. A; 4,00 mm²; black

Electrical data			
Ratings per	IEC	/EN 60664	<b>⊦-1</b>
Overvoltage category	III	III	II
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

55 mm

General information	
Note on contact resistance	approx. 1 m $\Omega$ of contact resistance approx. 0.25 m $\Omega$ contact transition plug/ socket

Connection data			
Connection points	5	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 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	5
	Connectable sheathed cable diameter	9 13 mm	
	Conductor entry direction to mating direction	0°	

Physical data	
Pin spacing	10 mm / 0.394 inches
Width	54.6 mm / 2.15 inches
Height	17 mm / 0.669 inches
Depth	76 mm / 2.992 inches

Strip length (outer insulation)

# Data Sheet | Item Number: 770-315 https://www.wago.com/770-315



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!)

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="https://www.wago.com/us/material-specifications">Information on material</a>
	specifications can be found here
Color	black
Cover color	gray
Material group	I
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	0.752 MJ
Weight	29.8 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/770-315



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	4044918254663
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

## 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/770-315



## **Downloads**

## **Environmental Product Compliance**

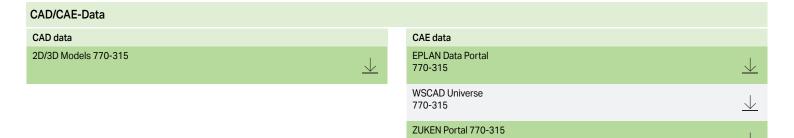
#### Compliance Search

**Environmental Product** Compliance 770-315



#### Documentation

Bid Text			
770-315	19.02.2019	xml 3.04 KB	<u>↓</u>
770-315	08.06.2015	doc 23.50 KB	$\downarrow$



## 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 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; black

#### Item No.: 771-9995/006-101

pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; black

## 1.1.2 Distribution box







## 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/770-315



#### 1.1.3 Distribution connector







Item No.: 770-621

Item No.: 770-622

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

Item No.: 770-659 3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; white

T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black



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; 5-pole; Cod. A; 4,00 mm<sup>2</sup>;

Item No.: 770-705/009-000

Snap-in socket; with protruding mating face; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; black



Socket for PCBs; angled; 5-pole; Cod. A; black

#### Item No.: 770-805

Socket for PCBs; straight; 5-pole; Cod. A; black



Item No.: 770-205

Item No.: 770-705

black

Socket; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; black

Item No.: 770-405

Socket; 5-pole; Cod. A; 4,00 mm²; black

#### Item No.: 770-105

Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; black

#### Item No.: 770-305

Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; black

## 1.1.5 Tap-off module



Item No.: 772-262

Tap-off module; for flat cable; 5 x 2.5 mm<sup>2</sup> + 2 x 1.5 mm<sup>2</sup>; 5-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.: 770-121

Locking lever; for flying leads; for manual



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

Item No.: 770-101

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

operation; white

https://www.wago.com/770-315



## 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

Item No.: 897-2005

Protective cap; Type4; for sockets and plugs; PVC; red

## 1.3.3 Marking

#### 1.3.3.1 Marker







1

Item No.: 770-450/000-006

Marker card; Plastic; blue





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

9

<u>Item No.: 770-450</u>

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.: 210-719

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

## 1.3.4.2 Wiring aid



Item No.: 770-100

Wiring aid; 2- to 5-pole; Plastic; orange

https://www.wago.com/770-315



#### **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).

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

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

Page 8/8 Version 15.11.2023