

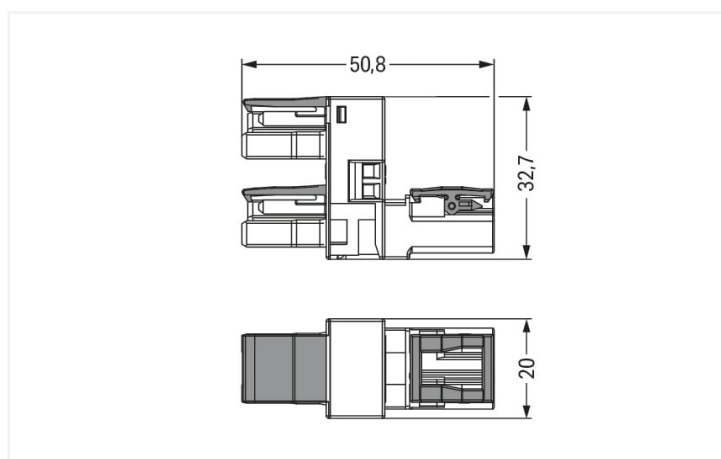
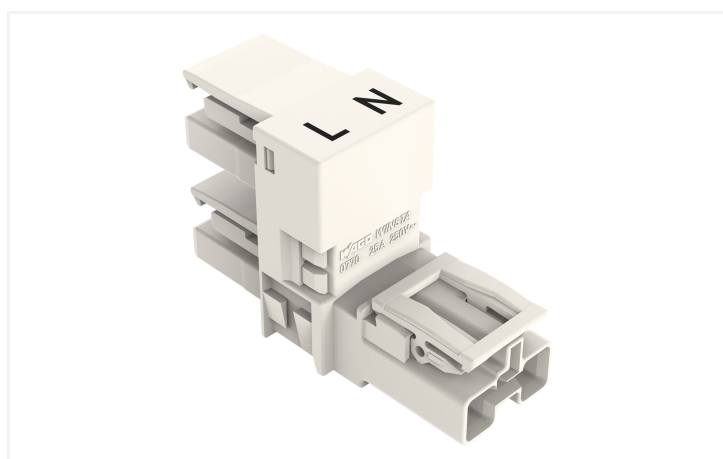
## Data Sheet | Item Number: 770-1686

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

<https://www.wago.com/770-1686>



Color: ■ white



Dimensions in mm

### Distribution connector WINSTA® MIDI rated current 25 A

The WINSTA® MIDI distribution connector 2-pole provides the foundation for installation of solid and fine-stranded conductors. Our pluggable installation connectors with spring pressure connection technology work entirely without screw connections. They allow fast, efficient, error-free installation in a large number of possible uses. For greater protection in electrical installations, the pluggable installation connector is provided with mechanical protection against mismatching. The pluggable installation connector offers protection against contact with live components in accordance with protection type IP20 (When mated: 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 is designed for a voltage load of up to 25 A. As a result, it can also be used for high power loads. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in a broad range of individual products you can use for quick, easy, flexible, and secure electrical installation.

WINSTA® MIDI solutions for your electrical installation – protected against mismatching and maintenance-free

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Now you can also cut installation expenses without compromising safety and quality: The WINSTA® MIDI pluggable installation connector with marking eliminates the need for servicing and prevents unnecessary downtime.

- protection against mismatching eliminates errors
- pre-assembled versions
- with A coding for a great number of applications
- flexible installation to save space
- quick replacement of defective units during ongoing operation

## 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

Total number of potentials	2	<b>Connection 1</b>	
		Pole number	2

## Physical data

Pin spacing	10 mm / 0.394 inches
Width	20 mm / 0.787 inches
Height	32.7 mm / 1.287 inches
Depth	50.8 mm / 2 inches

## Mechanical data

Application	General mains applications
Coding	A
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	When 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
Type of distribution box	h-distribution connector, outputs at one end
Protection type	IP20; When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)
Suitable	for flying leads

## Plug-in connection

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	Yes
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).
Number of locking levers	3

### Material data

Note (material data)	<a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a>
Color	white
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.269 MJ
Weight	15.5 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	27-44-06-03
eCl@ss 9.0	27-44-06-03
ETIM 8.0	EC002567
ETIM 7.0	EC002567
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821531357
Customs tariff number	85366990990

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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### Approvals / Certificates

#### General approvals



Approval	Standard	Certificate Name
cURus Underwriters Laboratories Inc.	UL 1977	E45171
cURus Underwriters Laboratories Inc.	UL 1059	E 45172

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-1686



Documentation

Bid Text

770-1686	19.02.2019	xml 2.85 KB	
770-1686	12.03.2015	doc 23.00 KB	

CAD/CAE-Data

CAD data

2D/3D Models  
770-1686



CAE data

WSCAD Universe  
770-1686



ZUKEN Portal  
770-1686



1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



**Item No.: 771-8992/206-102**  
pre-assembled connecting cable; Eca; Plug/open-ended; 2-pole; Cod. A; H05VV-F 2 x 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; white



**Item No.: 771-8992/106-102**  
pre-assembled connecting cable; Eca; Socket/open-ended; 2-pole; Cod. A; H05VV-F 2 x 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; white



**Item No.: 771-8992/006-102**  
pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. A; H05VV-F 2 x 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; white

1.1.2 Female connector/socket



**Item No.: 770-222**  
Socket; 2-pole; Cod. A; 4,00 mm<sup>2</sup>; white



**Item No.: 770-122/041-000**  
Socket; with strain relief housing; 2-pole; Cod. A; 4,00 mm<sup>2</sup>; white

1.1.3 Male connector/plug



**Item No.: 770-232**  
Plug; 2-pole; Cod. A; 4,00 mm<sup>2</sup>; white



**Item No.: 770-132/041-000**  
Plug; with strain relief housing; 2-pole; Cod. A; 4,00 mm<sup>2</sup>; white

## 1.2 Optional Accessories

### 1.2.1 Cover

#### 1.2.1.1 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



**Item No.: 770-360**

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

## 1.2.2 Installation

### 1.2.2.1 Mounting accessories



**Item No.: 770-1626**

Mounting plate; 2-pole; for distribution connectors; Plastic; black

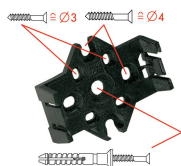


**Item No.: 770-1627**

Mounting plate; 2-pole; for distribution connectors; Plastic; white

## Installation Notes

### Installation



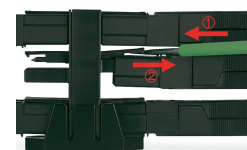
Mounting plates can be secured using commercially available screws or nail-drive anchors.



The distribution connectors snap together when attached to the mounting plate.



To release the distribution connector, unlock the latch using a screwdriver.



All distribution connector connections are locked and protected against accidental disconnection directly after mating. Locking of any connection is released using a screwdriver, even if all connections are used.