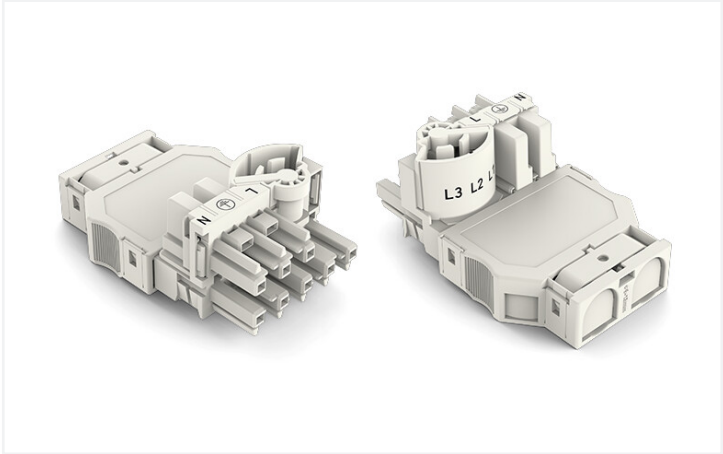


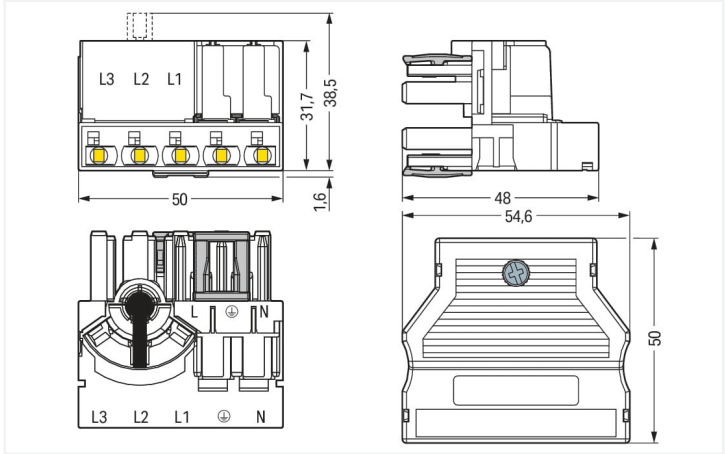
Data Sheet | Item Number: 770-661

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

<https://www.wago.com/770-661>



Color: ■ white



Dimensions in mm

Distribution connector *WINSTA*® MIDI with protection type IP20

The *WINSTA*® MIDI distribution connector with protection type IP20 supports fast, reliable installation. Our pluggable installation connectors with spring pressure connection technology work without screw connections. They allow flexible, error-free installation in a large number of possible uses. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. The pluggable installation connector offers touch-proof protection 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!)). The *WINSTA*® MIDI pluggable installation connector with A coding in black or white is usually used for general mains applications in power distribution. This pluggable installation connector is designed for a current 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 and maximally flexible installation.

Lower costs through fast commissioning and elimination of service expenses – solutions from *WINSTA*® MIDI

The *WINSTA*® Pluggable Connection System is ideally tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and thus faster, more reliable, and error-free. Use of this pre-assembled system reduces assembly times and installation errors at the construction site. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with *WINSTA*® MIDI pluggable installation connectors with protection against mismatching from WAGO.

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

Electrical data						
Ratings per		IEC/EN 60664-1			Ratings per IEC/EN 2	
Overvoltage category		III	III	II	Rated voltage (III/3) 2	250 V
Pollution degree		3	2	2	Rated surge voltage (III/3) 2	4 kV
Nominal voltage		400 V	-	-		
Rated surge voltage		6 kV	-	-		
Rated current		25 A	-	-		
Approvals per		UL 1977			General information	
Rated voltage		600 V			Note on contact resistance	approx. 1 mΩ of contact resistance
Rated current		23 A				approx. 0.25 mΩ contact transition plug/socket

Connection data

Connection points	5
Total number of potentials	5
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	5
Connectable sheathed cable diameter	9 ... 13 mm

Physical data

Pin spacing	10 mm / 0.394 inches
Width	54.6 mm / 2.15 inches
Height	31.7 mm / 1.248 inches
Depth	48 mm / 1.89 inches

Mechanical data

Application	General mains applications
Coding	A
Variable coding	Yes
Marking	N L1 L2 L3
Potential marking	N L1 L2 L3
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	Distribution connector with phase selection
Protection type	IP20; When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)

Plug-in connection

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	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	2



Material data	
Note (material data)	Information on material specifications can be found here
Color	white
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	1.024 MJ
Weight	45.9 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	
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)	10 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454558451
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	EN 61535	71-123228	EU-Declaration of Confor- mity	-	-
DEKRA Certification B.V.			WAGO GmbH & Co. KG		

Approvals for marine applications

		
Approval	Standard	Certificate Name
ABS	-	19-HG1868589-PDA
American Bureau of Ship- ping		



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-661

Download icon

Documentation				
Bid Text				
770-661	08.06.2015	doc	24.00 KB	Download icon
770-661	19.02.2019	xml	3.08 KB	Download icon

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 770-661	EPLAN Data Portal 770-661
Download icon	Download icon
	WSCAD Universe 770-661
	Download icon
	ZUKEN Portal 770-661
	Download icon

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



Item No.: 771-9993/206-102
pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; white



Item No.: 771-9995/206-102
pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. A; H05VV-F 5G 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



Item No.: 771-9995/006-102
pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; white

1.1.2 Male connector/plug



Item No.: 770-233
Plug; 3-pole; Cod. A; 4,00 mm²; white



Item No.: 770-235
Plug; 5-pole; Cod. A; 4,00 mm²; white



Item No.: 770-435
Plug; 5-pole; Cod. A; 4,00 mm²; white



Item No.: 770-133
Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; white



Item No.: 770-233/035-050
Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; white



Item No.: 770-135
Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; white



Item No.: 770-335
Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; 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.: 770-625
Mounting plate; 5-pole; for distribution connectors; Plastic; black



Item No.: 770-675
Mounting plate; 5-pole; for distribution connectors; Plastic; white

1.2.3 Tool

1.2.3.1 Operating tool



Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

1.2.3.2 Wiring aid



Item No.: 770-100
Wiring aid; 2- to 5-pole; Plastic; orange

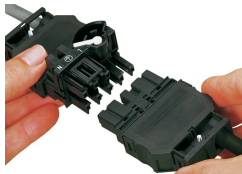
Installation Notes



Lift jumper out of delivery position (L2) using a screwdriver and move it into the desired position.



Push down jumper in its new position (picture shows L3).

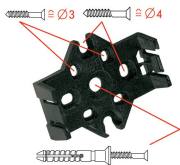


The 5-pole energy circuit can be extended using pluggable cable assemblies.



Plugging a 3-pole tap-off cable.

Installation



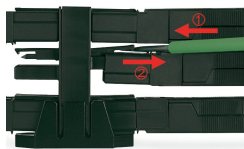
Mounting plates can be secured using commercially available screws or nail-drive anchors.



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.