

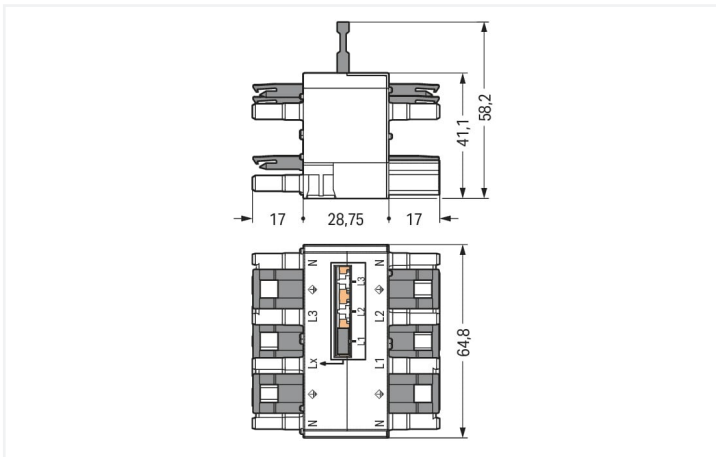
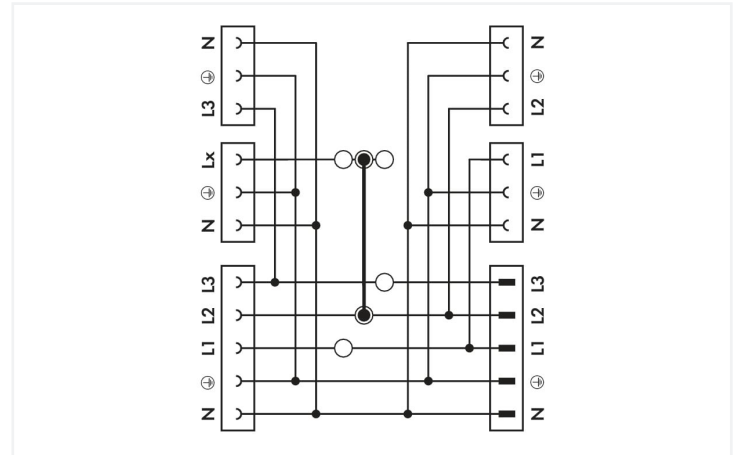
Data Sheet | Item Number: 770-690

Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 5 outputs; white

<https://www.wago.com/770-690>



Color: ■ white



Dimensions in mm

Distribution connector WINSTA® MIDI with protection type IP20

For power and signal transmission: The WINSTA® MIDI distribution connector 5-pole. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to many different requirements in seconds. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector is protected against ingress by solid objects 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 white or black is normally used for general mains applications in power distribution. This pluggable installation connector is used for electrical currents up to 25 A. Thus the product is especially suitable for high power loads. The WINSTA® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates safe electrification. Thanks to the built-in test slot, connections can be checked even when they are plugged in. This saves time, labor, and money.

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

The WINSTA® Pluggable Connection System is perfectly tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and thus faster, more reliable, and error-free. Using this pre-assembled system decreases time spent on assembly and installation errors at the construction site. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with protection against mismatching from WAGO.

- pluggable installation connectors with protection against mismatching
- for automation controllers
- for any mains application
- exact dimensions
- fast, secure installation



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

Connection data	
Total number of potentials	5
Connection 1	
Pole number	5

Physical data	
Pin spacing	10 mm / 0.394 inches
Width	64.8 mm / 2.551 inches
Height	58.2 mm / 2.291 inches
Depth	62.75 mm / 2.47 inches

Mechanical data	
Application	General mains applications
Coding	A
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	Three-phase to single-phase distribution connector
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	6



Material data	
Note (material data)	Information on material specifications can be found here
Color	white
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	1.412 MJ
Weight	87.5 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	
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	4045454530945
Customs tariff number	85366990990

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 770-690	

Documentation			
Bid Text			
770-690	10.12.2014	doc 23.50 KB	
770-690	19.02.2019	xml 3.13 KB	
ausschreiben.de 770-690			








CAD/CAE-Data	
<div>CAD data</div> <div>2D/3D Models 770-690</div> <div>↓</div>	<div>CAE data</div> <div>EPLAN Data Portal 770-690</div> <div>↓</div>
	<div>WSCAD Universe 770-690</div> <div>↓</div>
	<div>ZUKEN Portal 770-690</div> <div>↓</div>





1 Compatible Products

1.1 System counterpart








1.1.1 Cable assembly

			
<div>Item No.: 771-9993/206-102</div> <div>pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; white</div>	<div>Item No.: 771-9995/206-102</div> <div>pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; white</div>	<div>Item No.: 771-9995/106-102</div> <div>pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; white</div>	<div>Item No.: 771-9993/006-102</div> <div>pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; white</div>
			
<div>Item No.: 771-9995/006-102</div> <div>pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; white</div>			

1.1.2 Female connector/socket

			
<div>Item No.: 770-225</div> <div>Socket; 5-pole; Cod. A; 4,00 mm²; white</div>	<div>Item No.: 770-425</div> <div>Socket; 5-pole; Cod. A; 4,00 mm²; white</div>	<div>Item No.: 770-125</div> <div>Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; white</div>	<div>Item No.: 770-325</div> <div>Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; white</div>

1.1.3 Male connector/plug

			
<div>Item No.: 770-233</div> <div>Plug; 3-pole; Cod. A; 4,00 mm²; white</div>	<div>Item No.: 770-235</div> <div>Plug; 5-pole; Cod. A; 4,00 mm²; white</div>	<div>Item No.: 770-435</div> <div>Plug; 5-pole; Cod. A; 4,00 mm²; white</div>	<div>Item No.: 770-133</div> <div>Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; white</div>
			
<div>Item No.: 770-233/035-050</div> <div>Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; white</div>	<div>Item No.: 770-135</div> <div>Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; white</div>	<div>Item No.: 770-335</div> <div>Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; white</div>	

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

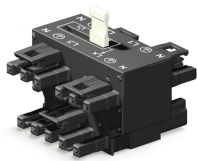


Item No.: 770-625
Mounting plate; 5-pole; for distribution connectors; Plastic; black

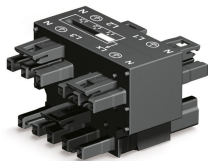


Item No.: 770-675
Mounting plate; 5-pole; for distribution connectors; Plastic; white

Installation Notes



Movable jumper

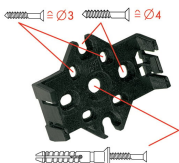


Jumper pushed down, flush with the housing (position L1)



Additional h-distribution connectors double L1 and L3.
This results in the following connection option:
L1/L1/L2/L2/L3/L3 with jumper in position L2
Notice: h-distribution connectors can only be plugged on L1 and L3.

Installation



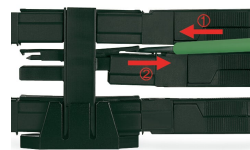
Mounting plates can be secured using commercially available screws or nail-drive anchors.



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.