

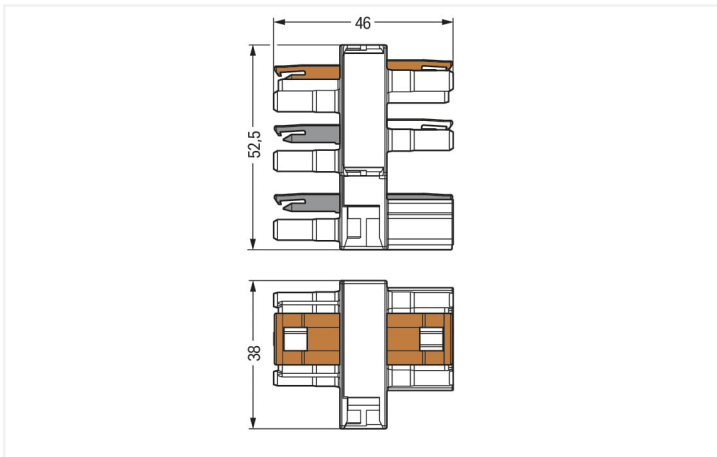
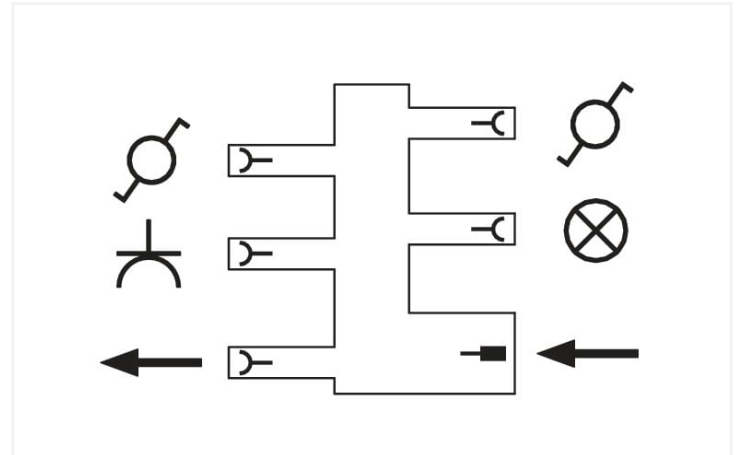
Data Sheet | Item Number: 770-638

Distribution connector for switches; Single-pole and throttle two-way circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; black

<https://www.wago.com/770-638>



Color: ■ black



Dimensions in mm

Distribution connector *WINSTA*® MIDI rated current 25 A

The *WINSTA*® MIDI distribution connector with protection type IP20 supports rapid, correct installation. The pluggable installation connectors with spring pressure connection technology work without screw connections. They allow flexible, error-free installation in a large number of applications. For greater security in electrical installations, the pluggable installation connector is provided with mechanical protection against mismatching. 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!)). 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 used for a load of up to 25 A. Therefore, it can also be used for high power loads. The *WINSTA*® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates exemplary electrification. Due to the included test slot, connections can be checked even when they are plugged in. That saves time and reduces installation labor and expense.

Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

The *WINSTA*® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Choose durability and quality – with protection type IP20 from WAGO makes the electrical installation of electrical components visibly easier.

- effective protection against mismatching
- for automation controllers
- with A coding for a large number of applications
- custom-engineered solutions
- convenient installation and commissioning



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

Connection data

Total number of potentials	3	Connection 1	
		Pole number	3

Physical data

Pin spacing	10 mm / 0.394 inches
Width	38 mm / 1.496 inches
Height	52.5 mm / 2.067 inches
Depth	46 mm / 1.811 inches

Mechanical data

Application	General mains applications
Coding	A
Marking	plain
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 for single-pole switch and two-way circuits
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	black
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.772 MJ
Weight	43 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	4045454251505
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	
CCA DEKRA Certification B.V.	IEC 61535	NL -84761	
cURus Underwriters Laboratories Inc.	UL 1059	E 45172	

Approval	Standard	Certificate Name	
EU-Declaration of Confor- mity 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

Downloads

Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 770-638	

Documentation

Bid Text			
770-638	19.02.2019	xml 2.93 KB	
770-638	12.03.2015	doc 23.50 KB	

CAD/CAE-Data

CAD data	CAE data
2D/3D Models 770-638 	EPLAN Data Portal 770-638 
	WSCAD Universe 770-638 

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly

 Item No.: 771-9993/206-101 pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. A; H05VV- F 3G 1.5 mm²; 1 m; 1,50 mm²; black	 Item No.: 771-9973/206-105 pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. S; H05VV- F 3 x 1.5 mm²; 1 m; 1,50 mm²; brown	 Item No.: 771-9993/106-101 pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. A; H05VV-F 3G 1.5 mm²; 1 m; 1,50 mm²; black	 Item No.: 771-9993/006-101 pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; H05VV- F 3G 1.5 mm²; 1 m; 1,50 mm²; black
 Item No.: 771-9973/006-105 pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. S; H05VV-F 3 x 1.5 mm²; 1 m; 1,50 mm²; brown			



1.1.2 Female connector/socket



Item No.: 770-203
Socket; 3-pole; Cod. A; 4,00 mm²; black



Item No.: 770-103
Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black



Item No.: 770-203/035-000
Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black

1.1.3 Male connector/plug



Item No.: 770-1373
Plug; 3-pole; 4,00 mm²; brown



Item No.: 770-213
Plug; 3-pole; Cod. A; 4,00 mm²; black



Item No.: 770-113
Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black



Item No.: 770-213/035-000
Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black

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.: 770-623
Mounting plate; 3-pole; for distribution connectors; Plastic; black



Item No.: 770-673
Mounting plate; 3-pole; for distribution connectors; Plastic; white

1.2.3 Jumper

1.2.3.1 Jumper



Item No.: 770-1373/149-000
Shorting plug; with assembled strain relief housing; 3-pole; Cod. S; Bridge 1-2, 2-L; 4,00 mm²; brown



Item No.: 770-1373/146-000
Shorting plug; with assembled strain relief housing; 3-pole; Cod. S; Bridge 1-2; 4,00 mm²; brown

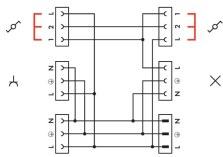


Item No.: 770-1373/147-000
Shorting plug; with assembled strain relief housing; 3-pole; Cod. S; Bridge 1-L; 4,00 mm²; brown



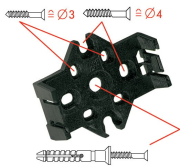
Item No.: 770-1373/148-000
Shorting plug; with assembled strain relief housing; 3-pole; Cod. S; Bridge 2-L; 4,00 mm²; brown

Installation Notes



Internal circuit of 770-638 Distribution Connector with possible insertion positions of 770-1373/14x-000 Shorting Plug

Installation



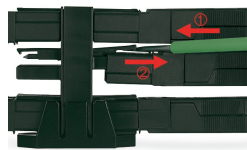
Mounting plates can be secured using commercially available screws or nail-drive anchors.



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.