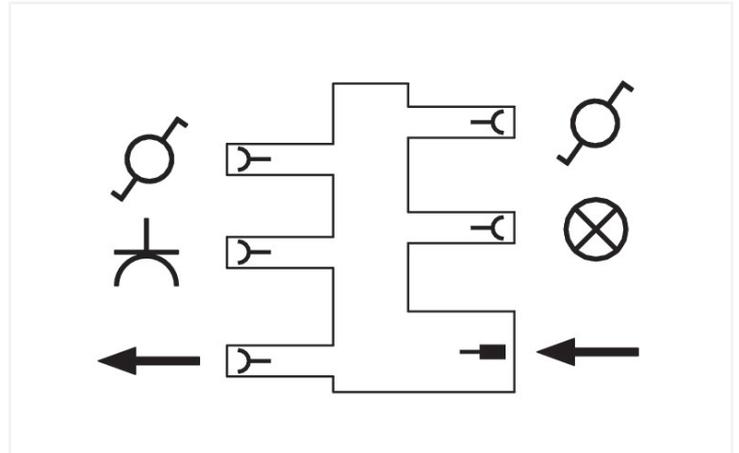


Data Sheet | Item Number: 770-638

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

Use	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 (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Copper or copper alloy; surface-treated
Contact Plating	Tin
Fire load	0.805 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

PU (SPU)	10 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454251505
Customs tariff number	85366990990

Product Classification

UNSPSC	39121406
eCl@ss 10.0	27-44-06-03
eCl@ss 9.0	27-44-06-03
ETIM 9.0	EC002567
ETIM 8.0	EC002567
ECCN	NO US CLASSIFICATION

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 1059	E 45172

Declarations of conformity and manufacturer's declarations

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

2D/3D Models 770-638



CAE data

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

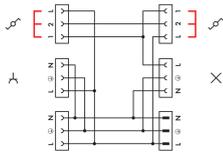
Item No.: 770-1373/147-000

Shorting plug; with assembled strain relief housing; 3-pole; Cod. S; Bridge 1-L; 4,00 mm²; brown

Item No.: 770-1373/148-000

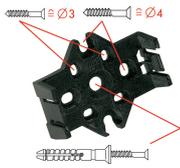
Shorting plug; with assembled strain relief housing; 3-pole; Cod. S; Bridge 2-L; 4,00 mm²; brown

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.