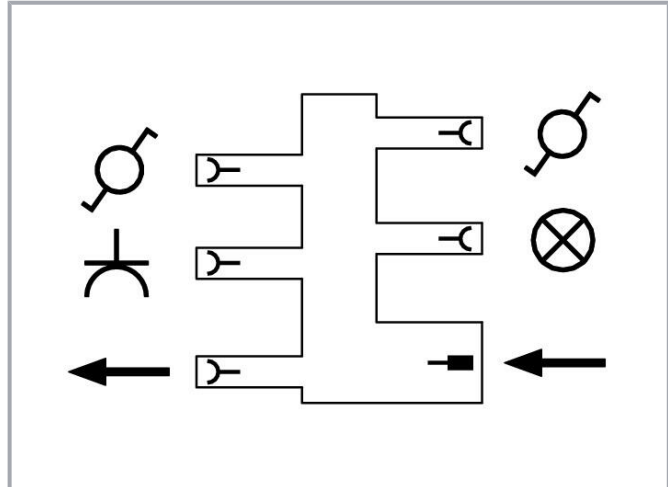


Data sheet | Item number: 770-638

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

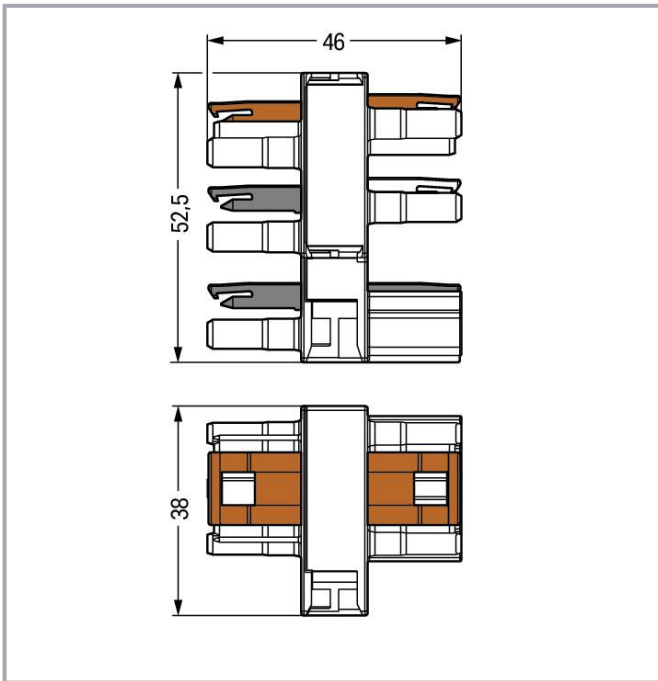
www.wago.com/770-638



Subject to changes. Please also observe the further product documentation!

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Item description

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.

—
Subject to changes. Please also observe the further product documentation!



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

Data

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	250 V
Rated impulse voltage (III/3)	4 kV
Rated current	25 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

Ratings per UL 1977

Note for the US market	Some versions may also be used for current interruption in accordance with the UL certificate in select applications with currents below 16 A and voltages up to 600 V. For further information, please contact your local sales office.
Rated voltage (UL 1977)	600 V
Rated current UL 1977	23 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	3
----------------------------	---

Connection 1

Pole number	3
-------------	---

Subject to changes. Please also observe the further product documentation!



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

Contact type (pluggable connector)	Socket/plug
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	6

Subject to changes. Please also observe the further product documentation!



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
ECCN	NO DATA
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
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Approvals / Certificates



General approvals

Logo	Approval	Additional Approval Text	Certificate name
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	CCA DEKRA Certification B.V.	IEC 61535	NL -84761
	CCA DEKRA Certification B.V.	EN 61535	71- 123228
	cURus Underwriters Laboratories Inc.	UL 1059	E 45172

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19- HG1868589- PDA
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	LR Lloyds Register	IEC 61984	LR22429487TA

Counterpart



Item no.770-103

Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; blackwww.wago.com/770-103

Item no.770-113

Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; blackwww.wago.com/770-113

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**Item no. 770-1373**

Plug; 3-pole; 4,00 mm²; brown

www.wago.com/770-1373**Item no. 770-203**

Socket; 3-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-203**Item no. 770-213**

Plug; 3-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-213**Item no. 770-203/035-000**

Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-203/035-000**Item no. 770-213/035-000**

Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-213/035-000**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

www.wago.com/771-9973/006-105**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

www.wago.com/771-9973/206-105**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

www.wago.com/771-9993/106-101**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

www.wago.com/771-9993/006-101**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

www.wago.com/771-9993/206-101

Optional accessories

Cover

Cover

**Item no.: 770-360**

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

www.wago.com/770-360**Item no.: 770-201**

Lockout cap; 12-pole, separable; for sockets; Plastic; black

www.wago.com/770-201**Item no.: 770-221**

Lockout cap; 12-pole, separable; for sockets; Plastic; white

www.wago.com/770-221

Jumpers

Jumper

Subject to changes. Please also observe the further product documentation!

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	Item no.: 770-1373/146-000 Shorting plug; with assembled strain relief housing; 3-pole; Cod. S; Bridge 1-2; 4,00 mm²; brown	www.wago.com/770-1373/146-000
	Item no.: 770-1373/147-000 Shorting plug; with assembled strain relief housing; 3-pole; Cod. S; Bridge 1-L; 4,00 mm²; brown	www.wago.com/770-1373/147-000
	Item no.: 770-1373/148-000 Shorting plug; with assembled strain relief housing; 3-pole; Cod. S; Bridge 2-L; 4,00 mm²; brown	www.wago.com/770-1373/148-000
	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	www.wago.com/770-1373/149-000
Mounting		
Mounting accessories		
	Item no.: 770-623 Mounting plate; 3-pole; for distribution connectors; Plastic; black	www.wago.com/770-623
	Item no.: 770-673 Mounting plate; 3-pole; for distribution connectors; Plastic; white	www.wago.com/770-673

Downloads
Documentation

Bid Text			
770-638 X81 - Datei	2019 年2月19 日	xml 3.0 kB	Download
770-638 doc - Datei	2015 年3月12 日	doc 24.1 kB	Download

CAD/CAE-Data

CAE data			
EPLAN Data Portal 770-638		URL	Download

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WSCAD Universe 770-638	URL	Download
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CAD data

2D/3D Models 770-638	URL	Download
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Asset Administration Shell

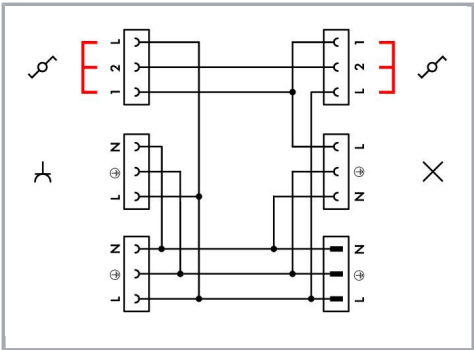
Asset Administration Shell 770-638	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-638	URL	Download
Distribution connector for switches; Single-pole and throttle two-way circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; black		

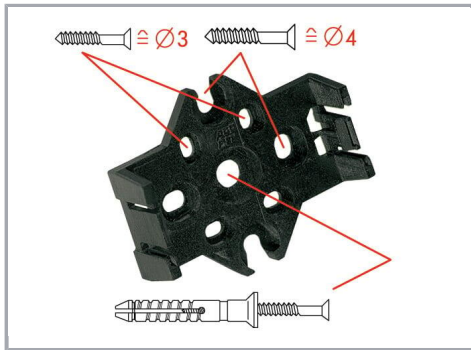
Installation Notes



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

Installation

Subject to changes. Please also observe the further product documentation!



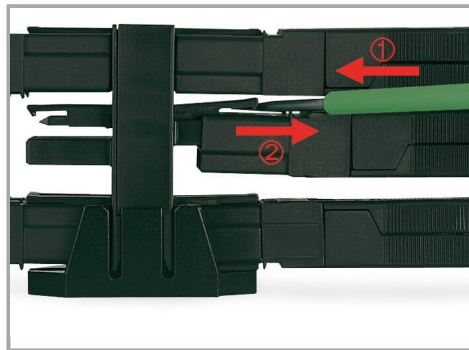
Mounting plates can be secured using commercially available screws or nail-drive anchors.



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.

Product family

WINSTA® MIDI

[Show all products from the family](#)

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