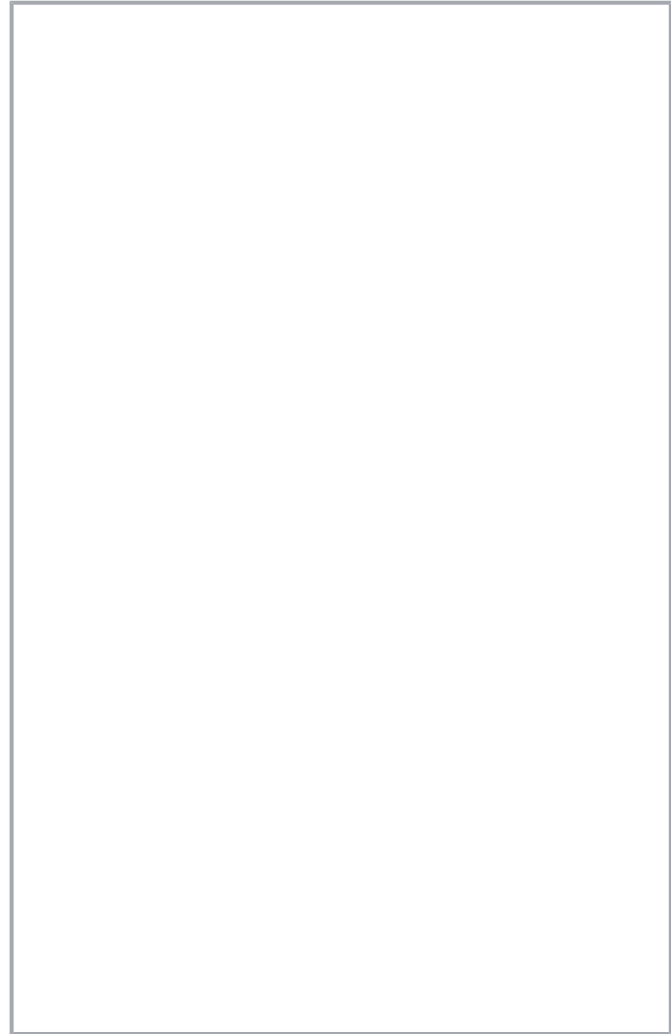


Data sheet | Item number: 770-687

Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; white

www.wago.com/770-687



Color:

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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Item description

Distribution connector *WINSTA*® MIDI with protection type IP20

The *WINSTA*® MIDI distribution connector A coding allows installation of fine-stranded and solid conductors. The pluggable installation connectors with spring pressure connection technology function without screw connections. They allow resource-efficient, error-free installation in a large number of applications. The color coding and mechanical coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. The pluggable installation connector is protected in accordance with protection type IP20 (When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). That results in the fact that users' fingers will never come into contact with live contact elements. Thanks to the color coding and mechanical A coding of *WINSTA*® MIDI pluggable installation connectors, you can clearly distinguish different circuits. The rated current and voltage are important criteria for selecting a pluggable installation connector: They tell us about the product's domains of use. This product has a current rating of 25 A – therefore it is suitable for powerful loads. *WINSTA*® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in can be found in a variety of

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projects you can use for quick, easy and maximally flexible electrical installation.

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

The WINSTA® Pluggable Connection System is perfectly tailored to the strict requirements of building installation. It makes electrical installation pluggable, and consequently faster, even more reliable, and error-free. Using this pre-assembled system decreases assembly times and installation errors at the construction site. Now you can also cut installation costs without compromising quality and safety: The WINSTA® MIDI pluggable installation connector with locking lever reduces the need for servicing and prevents unnecessary downtime.

- pluggable installation connectors with protection against mismatching
- pre-assembled versions
- with A coding for use in many general mains applications
- exact dimensions
- rapid, structured electrical installation

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

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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 or series 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 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

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



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	0.705 MJ
Weight	44.3 g

Environmental requirements

Processing temperature	-5 ... +40 °C
Continuous operating temperature	-35 ... +85 °C
Note on continuous operating temperature	Insulating parts for temperatures \leq 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	4045454251598
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Subject to changes. Please also observe the further product documentation!



Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	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

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.770-123 Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-123
Item no.770-133 Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-133
Item no.770-1373 Plug; 3-pole; 4,00 mm ² ; brown	www.wago.com/770-1373
Item no.770-223 Socket; 3-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-223
Item no.770-223/035-050 Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-223/035-050
Item no.770-233 Plug; 3-pole; Cod. A; 4,00 mm ² ; white	www.wago.com/770-233
Item no.770-233/035-050	www.wago.com/770-233/035-050

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

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Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm ² ; white	050
Item no.771-9973/006-105 pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. S; H05VV-F 3 x 1.5 mm ² ; 1 m; 1,50 mm ² ; 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 mm ² ; 1 m; 1,50 mm ² ; brown	www.wago.com/771-9973/206-105
Item no.771-9993/006-102 pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; H05VV-F 3G 1.5 mm ² ; 1 m; 1,50 mm ² ; white	www.wago.com/771-9993/006-102
Item no.771-9993/106-102 pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. A; H05VV-F 3G 1.5 mm ² ; 1 m; 1,50 mm ² ; white	www.wago.com/771-9993/106-102
Item no.771-9993/206-102 pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. A; H05VV-F 3G 1.5 mm ² ; 1 m; 1,50 mm ² ; white	www.wago.com/771-9993/206-102

Optional accessories

Jumpers

Jumper	
Item no.: 770-113/147-000 Shorting plug; with assembled strain relief housing; 3-pole; Cod. A; Bridge L-N; 4,00 mm ² ; black	www.wago.com/770-113/147-000
Item no.: 770-1373/146-000 Shorting plug; with assembled strain relief housing; 3-pole; Cod. S; Bridge 1-2; 4,00 mm ² ; 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 mm ² ; 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 mm ² ; 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 mm ² ; brown	www.wago.com/770-1373/149-000

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

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



Item no.: 770-221

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

www.wago.com/770-221

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

770-687 X81 - Datei	2019 年2月19 日	xml 3.0 kB	Download
770-687 doc - Datei	2015 年3月12 日	doc 24.1 kB	Download

CAD/CAE-Data

CAE data

WSCAD Universe 770-687	URL	Download
EPLAN Data Portal 770-687	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-687 Distribution connector for switches; Single-pole switch and series circuit; 3-pole; Cod. A/S; 1 input; 5 outputs; white	URL	Download
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Installation Notes

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Internal circuit of 770-637 Distribution Connector with possible insertion position of 770-1373/14x-000 Shorting Plug

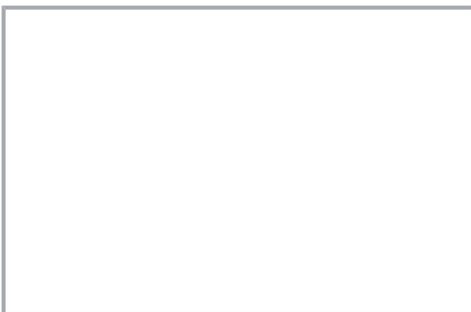


Internal circuit of 770-637 Distribution Connector with insertion position of 770-113 /147-000 Shorting Plug for connecting a motion sensor

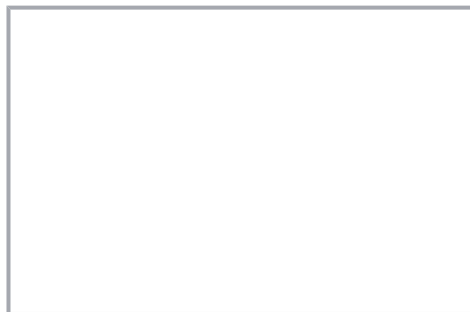


Internal circuit of 770-637 Distribution Connector with insertion position of 770-113 /147-000 Shorting Plug for connecting a switch with control lamp

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.

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



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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