

Data sheet | Item number: 770-611

Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 2 outputs; with cable connection on the input side; black



www.wago.com/770-611



Color:

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

WAGO GmbH & Co. KG
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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 A coding

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA*® MIDI distribution connector with protection type IP20. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to various requirements in no time flat. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including 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!)). General mains applications for almost any domain of use can be implemented with *WINSTA*® MIDI pluggable installation connectors with A coding. This pluggable installation connector can be 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 exemplary electrification. Thanks to the integrated test slot, it is possible to check connections even when they are plugged in. That saves time and reduces installation labor and expense.

WINSTA® MIDI solutions for your electrical installation – protected against mismatching and maintenance-free

The *WINSTA*® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Now you can also cut installation costs without compromising safety and quality: The *WINSTA*® MIDI pluggable installation connector with marking eliminates the need for servicing and prevents unnecessary downtime.

- effective protection against mismatching
- simple circuits
- with A coding for a great number of uses
- ready to install and use immediately
- convenient installation and commissioning

Data

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	400 V
Rated impulse voltage (III/3)	6 kV
Rated current	25 A

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Legend (ratings)

(III / 3) ≙ Overvoltage category III / Pollution degree 3

Ratings per IEC/EN 2

Rated voltage (III/3) 2	250 V
Rated surge voltage (III/3) 2	4 kV

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

Connection points	5
Total number of potentials	5
PE function	Preceding PE contact

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross-section	4 mm ² / 12 AWG
Solid conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
Solid conductor; push-in termination	1.5 ... 4 mm ² / 16 ... 12 AWG
Stranded conductor	0.5 ... 2.5 mm ² / 20 ... 14 AWG
Fine-stranded conductor	0.5 ... 4 mm ² / 20 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm ² / 20 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm ² / 20 ... 14 AWG
Fine-stranded conductor; with ferrule; push-in termination	1.5 mm ² / 16 AWG
Strip length	9 mm / 0.35 inches
Pole number	5

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Connectable sheathed cable diameter 9 ... 13 mm

Physical data

Pin spacing	10 mm / 0.394 inches
Width	54.6 mm / 2.15 inches
Height	31.7 mm / 1.248 inches
Depth	48 mm / 1.89 inches

Mechanical Data

Application	General mains applications
Coding	A
Variable coding	Yes
Marking	N ∇ L1 L2 L3
Potential 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	Distribution connector with phase selection
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
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	2

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Material Data

Note (material data)

Information on material specifications can be found here

Color	black
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	1.167 MJ
Weight	47.3 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	4045454558406
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.	EN 61535	71- 123228
CCA DEKRA Certification B.V.	IEC 61535	NL -84761

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

Counterpart

Item no.770-113 Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm ² ; black	www.wago.com/770-113
Item no.770-115 Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm ² ; black	www.wago.com/770-115
Item no.770-213/035-000 Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm ² ; black	www.wago.com/770-213/035-000
Item no.770-213 Plug; 3-pole; Cod. A; 4,00 mm ² ; black	www.wago.com/770-213
Item no.770-215 Plug; 5-pole; Cod. A; 4,00 mm ² ; black	www.wago.com/770-215
Item no.770-315 Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm ² ; black	www.wago.com/770-315
Item no.770-415 Plug; 5-pole; Cod. A; 4,00 mm ² ; black	www.wago.com/770-415
Item no.771-9993/006-101 pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; H05VV-F 3G 1.5 mm ² ; 1 m; 1,50 mm ² ; 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 mm ² ; 1 m; 1,50 mm ² ; black	www.wago.com/771-9993/206-101
Item no.771-9995/006-101 pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm ² ; 1 m; 1,50 mm ² ; black	www.wago.com/771-9995/006-101
Item no.771-9995/206-101	www.wago.com/771-9995

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pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm²; 1 m; /206-101
1,50 mm²; black

Optional accessories

Tool

Wiring aid

Item no.: 770-100

Wiring aid; 2- to 5-pole; Plastic; orange

www.wago.com/770-100

Operating tool

Item no.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-720

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

Mounting

Mounting accessories

Item no.: 770-625

Mounting plate; 5-pole; for distribution connectors; Plastic; black

www.wago.com/770-625

Item no.: 770-675

Mounting plate; 5-pole; for distribution connectors; Plastic; white

www.wago.com/770-675

Downloads

Documentation

Bid Text

770-611 X81 - Datei	2019 年2月19 日	xml 3.2 kB	Download
770-611 doc - Datei	2015 年6月8 日	doc 24.6 kB	Download

CAD/CAE-Data

CAE data

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WSCAD Universe 770-611	URL	Download
ZUKEN Portal 770-611	URL	Download
EPLAN Data Portal 770-611	URL	Download
CAD data		
2D/3D Models 770-611	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-611	URL	Download
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Installation Notes



Lift jumper out of delivery position (L2) using a screwdriver and move it into the desired position.



Push down jumper in its new position (picture shows L3).

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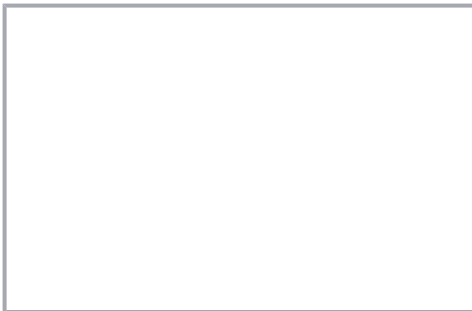


The 5-pole energy circuit can be extended using pluggable cable assemblies.



Plugging a 3-pole tap-off cable.

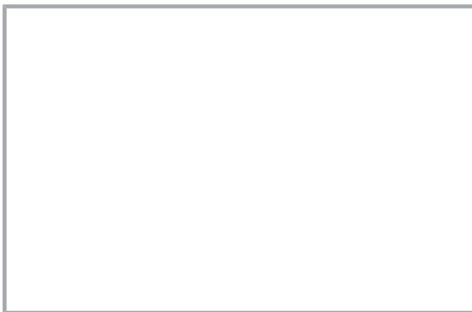
Installation



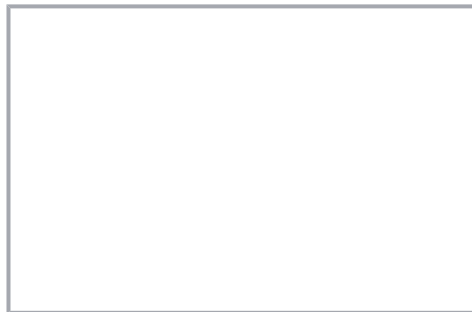
Mounting plates can be secured using commercially available screws or nail-drive anchors.



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.

Product family

WINSTA® MIDI

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



[Show all products from the family](#)

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