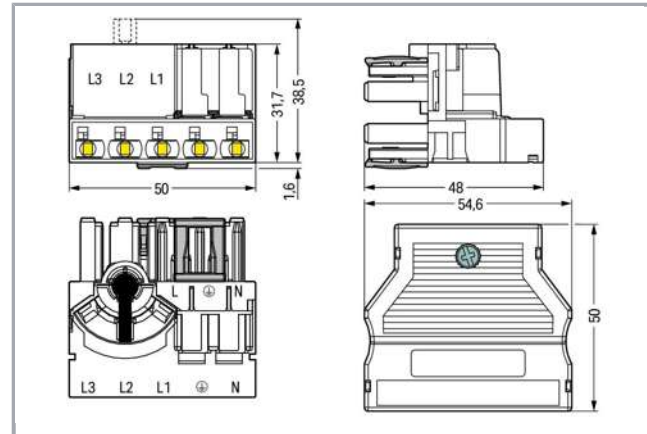


## Data sheet | Item number: 770-611

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](http://www.wago.com/770-611)



### Item description

- Protected against mismatching and maintenance-free
- Additional variable coding is possible

#### Note:

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).

#### Note on mismatching protection:

All WINSTA<sup>®</sup> components are 100% protected against mismatching when:

- plugging different numbers of poles
- plugging while rotated 180
- plugging while laterally staggered
- plugging one pole

#### Safety information 1:

Application note for the U.S. market (USR): 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.

## Data

### Electrical data

Note on Contact Resistance

approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket

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

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## Ratings per IEC/EN 60664-1

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	400 V
Rated impulse voltage (III / 3)	6 kV
Rated current	25 A
Rated voltage (III / 3) 2	250 V
Rated impulse voltage (III / 3) 2	4 kV
Legend (ratings)	(III / 3) $\triangleq$ Overvoltage category III / Pollution degree 3

## Approvals per UL 1977

Rated voltage per UL 1977 (factory wiring only)	600 V
Rated current per UL 1977 (factory wiring only)	23 A

## Connection data

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool Push-in
Nominal cross section	4 mm²
Solid conductor	0,5 ... 4 mm² / 20 ... 12 AWG
Solid conductor, push-in termination	1,5 ... 4 mm² / 16 ... 12 AWG
Stranded conductor	0,5 ... 2,5 mm² / 20 ... 14 AWG
Fine-stranded conductor	0,5 ... 4 mm² / 20 ... 12 AWG
Fine-stranded conductor with ferrule with plastic collar	0,25 ... 1,5 mm² / 20 ... 16 AWG
Fine-stranded conductor with ferrule without plastic collar	0,25 ... 2,5 mm² / 20 ... 14 AWG
Fine-stranded conductor with ferrule, push-in termination, from	1,5 mm² / 16 AWG
Strip length	9 mm / 0.35 inch
No. of poles	5
Total number of connection points	5
Total number of potentials	5
Ground function	with preceding ground contact
Connectable sheathed cable diameter	9 ... 13 mm

## Geometrical Data

Pin spacing	10 mm / 0.394 inch
Width	50 mm / 1.969 inch

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Height	31,7 mm / 1.248 inch
Depth	48 mm / 1.89 inch

## Mechanical data

Coding	A
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	when unlocked: approx. 20 ... 70 N (depending on pole number)
Number of mating cycles	200, without resistive load 100, with resistive load $I_N = 25$ A, tested (4 mm <sup>2</sup> /AWG 12)
Type of distribution connector	Distribution connector with phase selection
Marking	N L1 L2 L3
Protection class	IP20
Note on protection class	Only when mated (these compact connectors are not designed for use in open, easily accessible areas).
Potential marking	N L1 L2 L3
Application	General mains applications

## Plug connection

Contact type (pluggable connector)	Socket/plug
Mismating protection	Yes
Locking of plug-in connection	locking lever
Locking lever	yes

## Material Data

Color	black
Insulating material	Polyamide 66 (PA 66)
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper or copper alloy (surface-treated)
Fire load	1.008 MJ
Weight	47.3 g

## Environmental Requirements

Processing temperature	-5 ... +40 °C
Continuous operating temperature	-35 ... +85 °C
Note on Continuous Service Temperature	Insulating parts for temperatures ≤ 105 °C

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## Commercial data


Packaging type	BOX
Country of origin	DE
GTIN	4045454558406
Customs Tariff No.	85366990990

## Approvals / Certificates

### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	EN 61535	2173495.02

### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>ABS</b> American Bureau of Shipping	-	19-HG1868589-PDA

## Counterpart



**Item no.770-113**  
Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm<sup>2</sup>; black

[www.wago.com/770-113](http://www.wago.com/770-113)



**Item no.770-115**  
Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; black

[www.wago.com/770-115](http://www.wago.com/770-115)



**Item no.770-213/035-000**  
Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm<sup>2</sup>; black

[www.wago.com/770-213/035-000](http://www.wago.com/770-213/035-000)



**Item no.770-213**  
Plug; 3-pole; Cod. A; 4,00 mm<sup>2</sup>; black

[www.wago.com/770-213](http://www.wago.com/770-213)



**Item no.770-215**  
Plug; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; black

[www.wago.com/770-215](http://www.wago.com/770-215)



**Item no.770-315**  
Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; black

[www.wago.com/770-315](http://www.wago.com/770-315)

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



**Item no. 770-415**  
Plug; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; black

[www.wago.com/770-415](http://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<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; black

[www.wago.com/771-9993/006-101](http://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<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; black

[www.wago.com/771-9993/206-101](http://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<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; black

[www.wago.com/771-9995/006-101](http://www.wago.com/771-9995/006-101)



**Item no. 771-9995/206-101**  
pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; black

[www.wago.com/771-9995/206-101](http://www.wago.com/771-9995/206-101)

## Compatible products

### assembling



**Item no.: 770-625**  
Mounting plate; 5-pole; for distribution connectors; Plastic; black

[www.wago.com/770-625](http://www.wago.com/770-625)



**Item no.: 770-675**  
Mounting plate; 5-pole; for distribution connectors; Plastic; white

[www.wago.com/770-675](http://www.wago.com/770-675)

### protection



**Item no.: 770-201**  
Lockout cap; 12-pole, separable; 12-pole; for sockets; black

[www.wago.com/770-201](http://www.wago.com/770-201)



**Item no.: 770-221**  
Lockout cap; for socket; 12-pole; separable; white

[www.wago.com/770-221](http://www.wago.com/770-221)



**Item no.: 770-360**  
Lockout cap; for plugs; 5-pole; separable; yellow

[www.wago.com/770-360](http://www.wago.com/770-360)

### tools



**Item no.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft

[www.wago.com/210-720](http://www.wago.com/210-720)



**Item no.: 770-100**  
Wiring aid; for solid and stranded conductors; orange

[www.wago.com/770-100](http://www.wago.com/770-100)

## Downloads

### Documentation

#### Bid Text

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

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770-611 GAEB X81 - Datei	Feb 19, 2019	xml 3.2 kB	Download
770-611 doc - Datei	Jun 8, 2015	doc 24.6 kB	Download

## CAD/CAE-Data

### CAD data

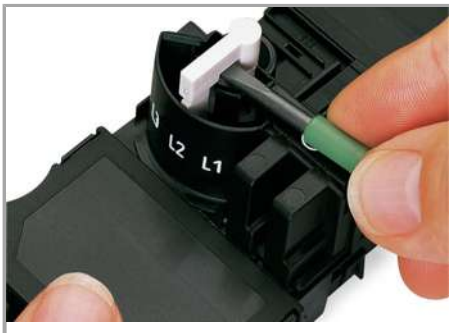
2D/3D Models 770-611	URL	Download
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### CAE data

EPLAN Data Portal 770-611	URL	Download
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WSCAD Universe 770-611	URL	Download
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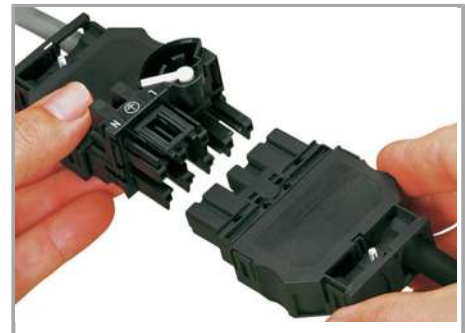
## Installation Notes



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).



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

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

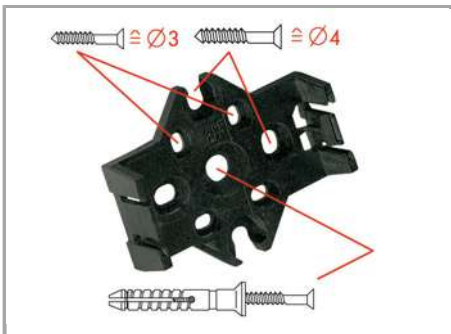
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Plugging a 3-pole tap-off cable.

### Installation



The mounting plate for distribution connectors can be mounted using commercially available screws or nail-drive anchors.



The distribution connectors are latched when mounted on the mounting plate.



To release the distribution connector, unlock the latch using a screwdriver.



All distributor 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 in use.

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



## Product family

*WINSTA*® MIDI

[Show all products from the family](#)

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