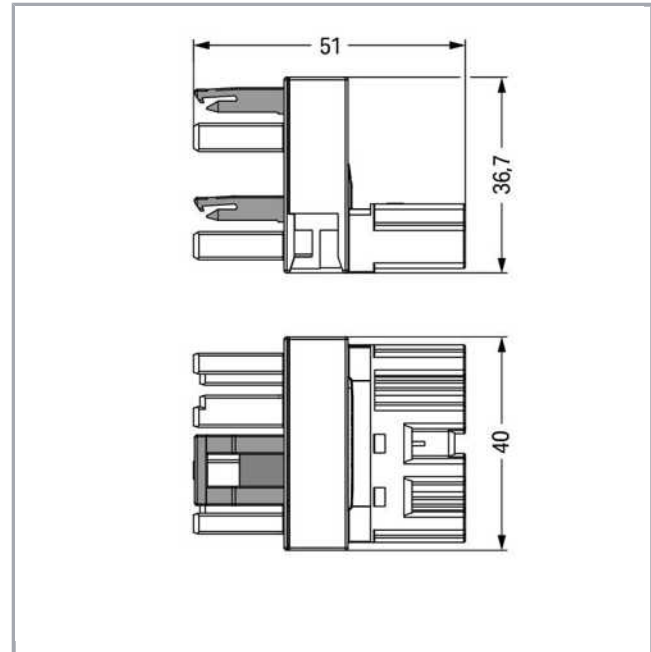
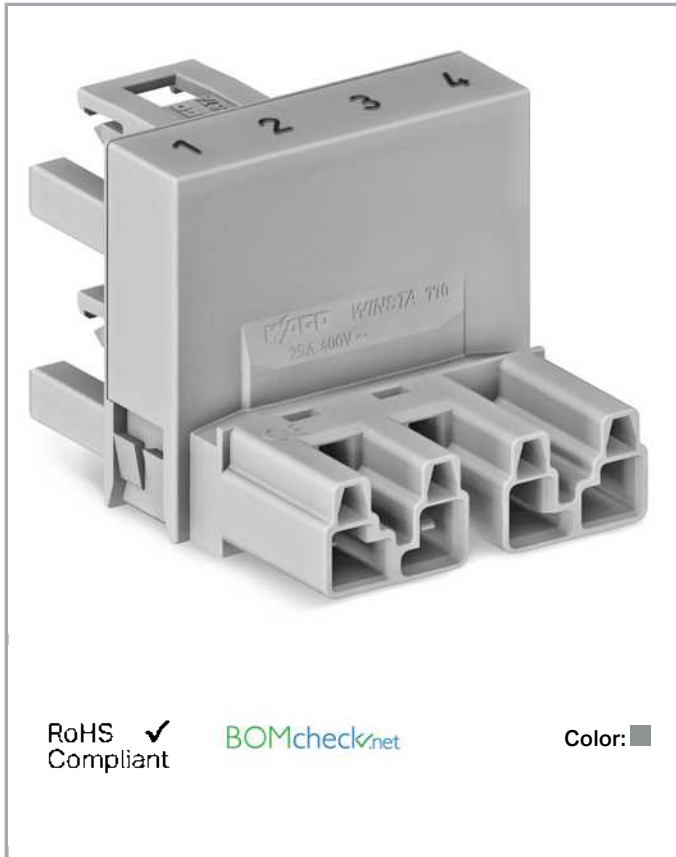


## Data sheet | Item number: 770-1681

h-distribution connector; 4-pole; Cod. B; 1 input; 2 outputs; outputs on one side; 2 locking levers; gray

[www.wago.com/770-1681](http://www.wago.com/770-1681)



RoHS Compliant

BOMcheck.net

Color:

### Item description

- Protected against mismatching and maintenance-free
- Additional variable coding is possible
- Components can be clearly printed on and color-coded to meet custom requirements

#### 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:

- a.) plugging different numbers of poles
- b.) plugging while rotated 180

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

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c.) plugging while laterally staggered

d.) 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

**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
Legend (ratings)	(III / 3) ≙ 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**

No. of poles	4
Total number of potentials	4

**Geometrical Data**

Pin spacing	10 mm / 0.394 inch
Width	40 mm / 1.575 inch
Height	36,7 mm / 1.445 inch
Depth	51 mm / 2.008 inch

**Mechanical data**

Coding	B
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)

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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	h-distribution connector (unidirectional)
Marking	1 2 3 4
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	1 2 3 4

## Plug connection

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

## Material Data

Color	gray
Insulating material	Polyamide 66 (PA 66)
Contact material	Copper or copper alloy (surface-treated)
Fire load	0.544 MJ
Weight	32 g

## Environmental Requirements

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

## Commercial data

Product Group	20 (WINSTA)
Packaging type	BOX
Country of origin	DE
GTIN	4050821687740
Customs Tariff No.	85366990990


## Approvals / Certificates

### UL-Approvals






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Logo	Approval	Additional Approval Text	Certificate name
	cURus Underwriters Laboratories Inc.	UL 1977	E45171 Sec. 9

## Counterpart




	<b>Item no. 770-254</b> Plug; 4-pole; Cod. B; 4,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/770-254">www.wago.com/770-254</a>
	<b>Item no. 770-244</b> Socket; 4-pole; Cod. B; 4,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/770-244">www.wago.com/770-244</a>
	<b>Item no. 771-9994/005-103</b> pre-assembled interconnecting cable; Socket/plug; 4-pole; Cod. B; Control cable 4 x 1.0 mm <sup>2</sup> ; 1 m; 1,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/771-9994/005-103">www.wago.com/771-9994/005-103</a>
	<b>Item no. 771-9994/105-103</b> pre-assembled connecting cable; Eca; Socket/open-ended; 4-pole; Cod. B; Control cable 4 x 1.0 mm <sup>2</sup> ; 1 m; 1,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/771-9994/105-103">www.wago.com/771-9994/105-103</a>
	<b>Item no. 771-9994/205-103</b> pre-assembled connecting cable; Eca; Plug/open-ended; 4-pole; Cod. B; Control cable 4 x 1.0 mm <sup>2</sup> ; 1 m; 1,00 mm <sup>2</sup> ; gray	<a href="http://www.wago.com/771-9994/205-103">www.wago.com/771-9994/205-103</a>

## Compatible products

### assembling

	<b>Item no.: 770-624</b> Mounting plate; 4-pole; for distribution connectors; Plastic; black	<a href="http://www.wago.com/770-624">www.wago.com/770-624</a>
	<b>Item no.: 770-674</b> Mounting plate; 4-pole; for distribution connectors; Plastic; white	<a href="http://www.wago.com/770-674">www.wago.com/770-674</a>

### protection

	<b>Item no.: 770-201</b> Lockout cap; 12-pole, separable; 12-pole; for sockets; black	<a href="http://www.wago.com/770-201">www.wago.com/770-201</a>
	<b>Item no.: 770-221</b> Lockout cap; for socket; 12-pole; separable; white	<a href="http://www.wago.com/770-221">www.wago.com/770-221</a>
	<b>Item no.: 770-360</b> Lockout cap; for plugs; 5-pole; separable; yellow	<a href="http://www.wago.com/770-360">www.wago.com/770-360</a>

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## Downloads

### Documentation

#### Bid Text

770-1681 doc - Datei	Mar 12, 2015	doc 24.1 kB	Download
770-1681 GAEB X81 - Datei	Feb 19, 2019	xml 2.8 kB	Download

## CAD/CAE-Data

### CAD data

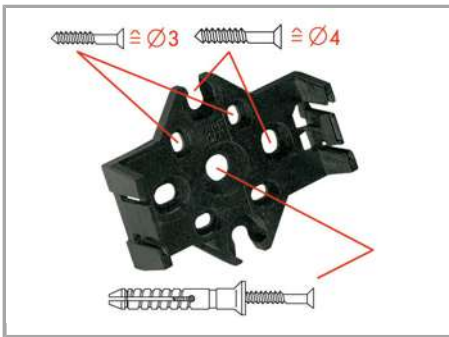
2D/3D Models 770-1681	URL	Download
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### CAE data

WSCAD Universe 770-1681	URL	Download
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## Installation Notes

### 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.

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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.

## Product family

**<i>WINSTA</i>® MIDI special**

[Show all products from the family](#)

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