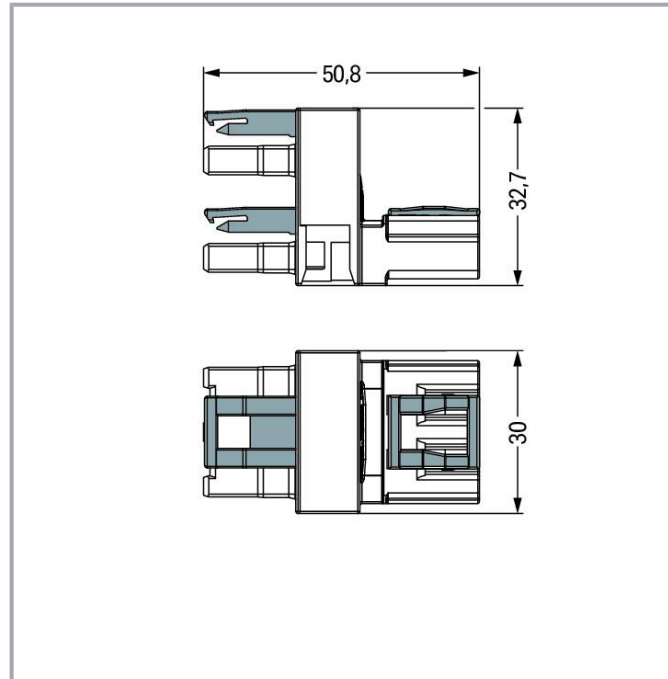
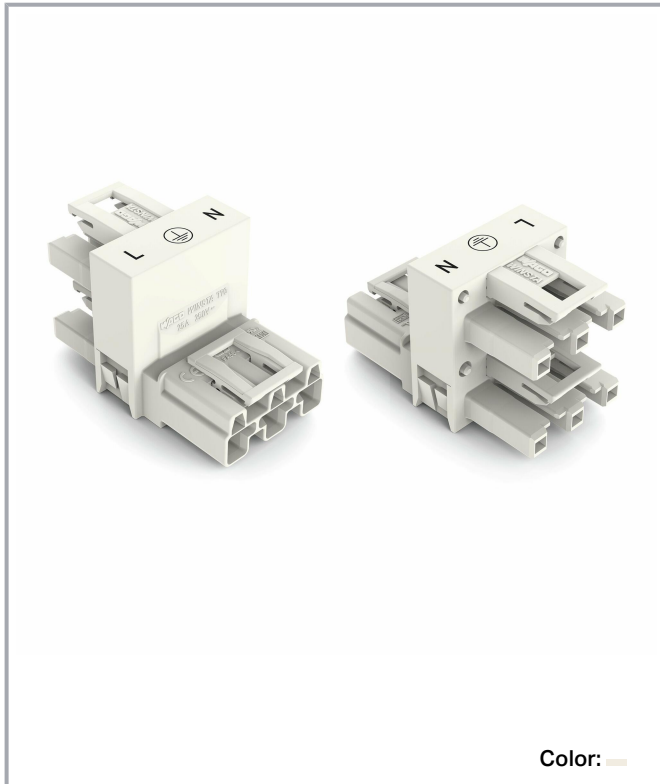


## Data sheet | Item number: 770-686

h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white

[www.wago.com/770-686](http://www.wago.com/770-686)



### Item description

#### Distribution connector *WINSTA*® MIDI A coding

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA*® MIDI distribution connector with locking latch. Our pluggable installation connectors with spring pressure connection technology work without screw connections. They allow flexible, error-free installation in a large number of possible uses. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. 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 energised elements. Standard 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 safe electrification. Thanks to the included test slot, connections can be checked even when they are plugged in. That saves time and reduces installation labor and costs.

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

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



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

WINSTA® is the pluggable connection system that is perfectly tailored to the strict requirements of electrical installation. It allows fast, secure and, above all, error-free installation of components and cables. Choose quality and durability – the WINSTA® MIDI pluggable installation connector with protection against mismatching from WAGO makes the electrical installation of electrical components visibly easier.

- 
- pluggable installation connectors with protection against mismatching
- pre-assembled versions
- suitable for any application
- flexible installation to save space
- fast, secure 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

|                            |  |
|----------------------------|--|
| Note on contact resistance | approx. 1 mΩ of contact resistance<br>approx. 0.25 mΩ contact transition plug/socket |
|----------------------------|--|

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



## Connection data

|                            |                      |
|----------------------------|----------------------|
| Total number of potentials | 3                    |
| PE function                | Preceding PE contact |

## Connection 1

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

## Physical data

|             |                        |
|-------------|------------------------|
| Pin spacing | 10 mm / 0.394 inches   |
| Width       | 30 mm / 1.181 inches   |
| Height      | 32.7 mm / 1.287 inches |
| Depth       | 51 mm / 2.008 inches   |

## Mechanical Data

|   |   |
|---|---|
| Application                             | General mains applications  |
| Coding                                  | A   |
| Marking                                 | L $\perp$ N   |
| Potential marking                       | L $\perp$ N   |
| 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                | h-distribution connector, outputs on one side   |
| Protection type                         | IP20; When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!) |
| Suitable                                | for flying leads  |

## Plug-in connection

|                                    |  |
|------------------------------------|--|
| Contact type (pluggable connector) | Socket/plug  |
| Mismating protection               | Yes  |
| Note on mismating protection       | All <i>WINSTA</i> <sup>®</sup> components are 100% protected against mismating when:<br>a.) plugging different numbers of poles<br>b.) plugging while rotated 180<br>c.) plugging while laterally staggered<br>d.) plugging one pole |
| Locking lever                      | yes  |

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



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).

## 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                   | 0.387 MJ                                |
| Weight                      | 22.8 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)              | 50 pcs        |
| Packaging type        | box           |
| Country of origin     | DE            |
| GTIN                  | 4045454251581 |
| Customs tariff number | 85366990990   |


## Environmental Product Compliance

|                        |                         |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|


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

## Approvals / Certificates




### General approvals

| Logo   | Approval                                       | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | <b>CCA</b><br>DEKRA Certification B.V.         | EN 61535                 | 71-123228        |
|  | <b>CCA</b><br>DEKRA Certification B.V.         | IEC 61535                | NL -84761        |
|  | <b>cURus</b><br>Underwriters Laboratories Inc. | UL 1977                  | E45171           |

### Declarations of conformity and manufacturer's declarations

| Logo   | Approval  | Additional Approval Text | Certificate name |
|--|---|--------------------------|------------------|
|  | <b>EU-Declaration of Conformity</b><br>WAGO GmbH & Co. KG | -                        | -                |

### Approvals for marine applications










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

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## Counterpart

|  |   |  |
|--|---|--|
|    | <b>Item no.770-123</b><br>Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; white  | <a href="http://www.wago.com/770-123">www.wago.com/770-123</a>                   |
|    | <b>Item no.770-133</b><br>Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; white  | <a href="http://www.wago.com/770-133">www.wago.com/770-133</a>                   |
|    | <b>Item no.770-223/035-050</b><br>Socket; with strain relief housing; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; white  | <a href="http://www.wago.com/770-223/035-050">www.wago.com/770-223/035-050</a>   |
|    | <b>Item no.770-233</b><br>Plug; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; white  | <a href="http://www.wago.com/770-233">www.wago.com/770-233</a>                   |
|    | <b>Item no.770-223</b><br>Socket; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; white  | <a href="http://www.wago.com/770-223">www.wago.com/770-223</a>                   |
|   | <b>Item no.770-233/035-050</b><br>Plug; with strain relief housing; 3-pole; Cod. A; 4,00 mm <sup>2</sup> ; white  | <a href="http://www.wago.com/770-233/035-050">www.wago.com/770-233/035-050</a>   |
|  | <b>Item no.771-9993/006-102</b><br>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> ; white  | <a href="http://www.wago.com/771-9993/006-102">www.wago.com/771-9993/006-102</a> |
|  | <b>Item no.771-9993/106-102</b><br>pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. A; H05VV-F 3G 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; white | <a href="http://www.wago.com/771-9993/106-102">www.wago.com/771-9993/106-102</a> |
|  | <b>Item no.771-9993/206-102</b><br>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> ; white   | <a href="http://www.wago.com/771-9993/206-102">www.wago.com/771-9993/206-102</a> |

## Optional accessories

### Cover

#### Cover

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

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](http://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](http://www.wago.com/770-623)



Item no.: 770-673

Mounting plate; 3-pole; for distribution connectors; Plastic; white

[www.wago.com/770-673](http://www.wago.com/770-673)

## Downloads

### Documentation

#### Bid Text

|                         |             |                |          |
|-------------------------|-------------|----------------|----------|
| 770-686<br>X81 - Datei  | 2019 Feb 19 | xml<br>2.9 kB  | Download |
| 770-686<br>doc - Datei  | 2015 Mar 12 | doc<br>23.6 kB | Download |
| ausschreiben.de 770-686 |             | URL            | Download |

### CAD/CAE-Data

#### CAD data

|                      |  |     |          |
|----------------------|--|-----|----------|
| 2D/3D Models 770-686 |  | URL | Download |
|----------------------|--|-----|----------|

#### CAE data

|                           |  |     |          |
|---------------------------|--|-----|----------|
| EPLAN Data Portal 770-686 |  | URL | Download |
|---------------------------|--|-----|----------|

|                        |  |     |          |
|------------------------|--|-----|----------|
| WSCAD Universe 770-686 |  | URL | Download |
|------------------------|--|-----|----------|

|                      |  |     |          |
|----------------------|--|-----|----------|
| ZUKEN Portal 770-686 |  | URL | Download |
|----------------------|--|-----|----------|

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 770-686

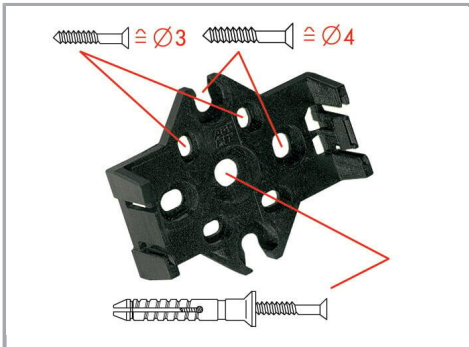
URL

Download

h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white

## Installation Notes

### Installation



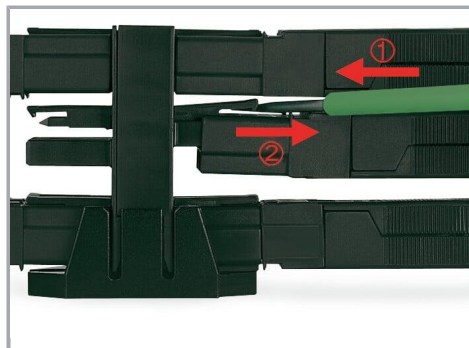
Mounting plates can be secured using commercially available screws or nail-drive anchors.



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

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





**WINSTA® MIDI**

[Show all products from the family](#)

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