

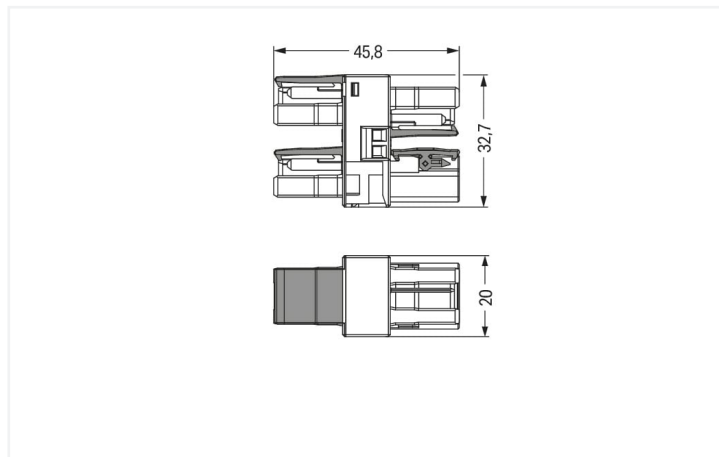
## Data Sheet | Item Number: 770-1704

3-way distribution connector; 2-pole; Cod. B; 1 input; 3 outputs; gray

<https://www.wago.com/770-1704>



Color: ■ gray



Dimensions in mm

Distribution connector *WINSTA*® MIDI with protection against mismatching

Use effective pluggable connections instead of laborious screw connections: With the *WINSTA*® MIDI distribution connector B coding, WAGO pluggable installation connectors are useful when requirements repeat or are distributed on a specific grid, for example for installing grid lighting or flush-mount lighting. The coding options reduce installation errors, allowing fast, secure wiring of all components. The pluggable installation connector offers protection against contact with live components in accordance with protection type IP20 (When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). B coding enables the *WINSTA*® MIDI pluggable installation connectors to be used for application control in automation, mechanical engineering and robotics. This pluggable installation connector can be used for a current load of up to 25 A. Therefore, it can also be used for high power loads. The *WINSTA*® MIDI product line guarantees flexibility for the electrical installation. With its Push-in CAGE CLAMP® spring pressure connection technology, it ensures time-saving, error-free installation and offers customization and flexibility for meeting various installation requirements.

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 more efficient, even more reliable, and error-free. Use of this pre-assembled system decreases assembly times and installation errors at the construction site. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with marking from WAGO.

- pluggable installation connectors with protection against mismatching
- pre-assembled versions
- for automation controllers
- ready to install and use immediately
- quick replacement of defective units during ongoing operation

### Notes

Variants:

Other pole markings

Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

### Electrical data

| Ratings per          | IEC/EN 60664-1 |     |    |
|----------------------|----------------|-----|----|
| Overvoltage category | III            | III | II |
| Pollution degree     | 3              | 2   | 2  |
| Nominal voltage      | 250 V          | -   | -  |
| Rated surge voltage  | 4 kV           | -   | -  |
| Rated current        | 25 A           | -   | -  |

| Approvals per | UL 1977 |
|---------------|---------|
| Rated voltage | 600 V   |
| Rated current | 23 A    |

### General information

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

### Connection data

|                            |   |                     |   |
|----------------------------|---|---------------------|---|
| Total number of potentials | 2 | <b>Connection 1</b> |   |
|                            |   | Pole number         | 2 |

### Physical data

|             |                        |
|-------------|------------------------|
| Pin spacing | 10 mm / 0.394 inches   |
| Width       | 20 mm / 0.787 inches   |
| Height      | 32.7 mm / 1.287 inches |
| Depth       | 45.8 mm / 1.803 inches |

### Mechanical data

|   |   |
|---|---|
| Application                             | Control technology  |
| Coding                                  | B   |
| Variable coding                         | No  |
| Marking                                 | 1 2   |
| Potential marking                       | 1 2   |
| 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, 3-way   |
| Protection type                         | IP20; When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!) |

### Plug-in connection

|                               |  |
|-------------------------------|--|
| Mismating protection          | Yes  |
| Note on mismating protection  | All <i>WINSTA</i> ® 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  |
| 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      | 4  |

### Material data

|                             |  |
|-----------------------------|--|
| Note (material data)        | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       | gray   |
| Insulation material         | Polyamide (PA66)   |
| Flammability class per UL94 | V0   |
| Contact material            | Copper or copper alloy; surface-treated  |
| Contact plating             | Tin  |
| Fire load                   | 0.31 MJ  |
| Weight                      | 17.8 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)              | 50 pcs        |
| Packaging type        | Box           |
| Country of origin     | DE            |
| GTIN                  | 4055143297806 |
| Customs tariff number | 85366990990   |

### Environmental Product Compliance

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

### Approvals / Certificates

#### General approvals



| Approval                                   | Standard | Certificate Name |
|--|----------|------------------|
| cURus<br>Underwriters Laboratories<br>Inc. | UL 1977  | E45171           |
| cURus<br>Underwriters Laboratories<br>Inc. | UL 1059  | E 45172          |

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-1704



Documentation

Bid Text

|          |            |                 |  |
|----------|------------|-----------------|--|
| 770-1704 | 19.02.2019 | xml<br>2.74 KB  |  |
| 770-1704 | 13.04.2017 | doc<br>23.00 KB |  |

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



**Item No.: 771-8992/205-103**

pre-assembled connecting cable; Eca; Plug/open-ended; 2-pole; Cod. B; Control cable 2 x 1.0 mm<sup>2</sup>; 1 m; 1,00 mm<sup>2</sup>; gray

**Item No.: 771-8992/105-103**

pre-assembled connecting cable; Eca; Socket/open-ended; 2-pole; Cod. B; Control cable 2 x 1.0 mm<sup>2</sup>; 1 m; 1,00 mm<sup>2</sup>; gray

**Item No.: 771-8992/005-103**

pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. B; Control cable 2 x 1.0 mm<sup>2</sup>; 1 m; 1,00 mm<sup>2</sup>; gray

1.1.2 Female connector/socket



**Item No.: 770-242**

Socket; 2-pole; Cod. B; 4,00 mm<sup>2</sup>; gray

1.1.3 Male connector/plug



**Item No.: 770-252**

Plug; 2-pole; Cod. B; 4,00 mm<sup>2</sup>; gray

## 1.2 Optional Accessories

### 1.2.1 Cover

#### 1.2.1.1 Cover



**Item No.: 770-201**

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



**Item No.: 770-221**

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



**Item No.: 770-360**

Lockout cap; for plugs; 5-pole; separable; yellow

## 1.2.2 Installation

### 1.2.2.1 Mounting accessories



**Item No.: 770-1626**

Mounting plate; 2-pole; for distribution connectors; Plastic; black

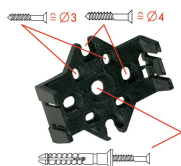


**Item No.: 770-1627**

Mounting plate; 2-pole; for distribution connectors; Plastic; white

## Installation Notes

### Installation



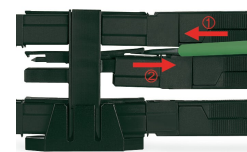
Mounting plates can be secured using commercially available screws or nail-drive anchors.



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.