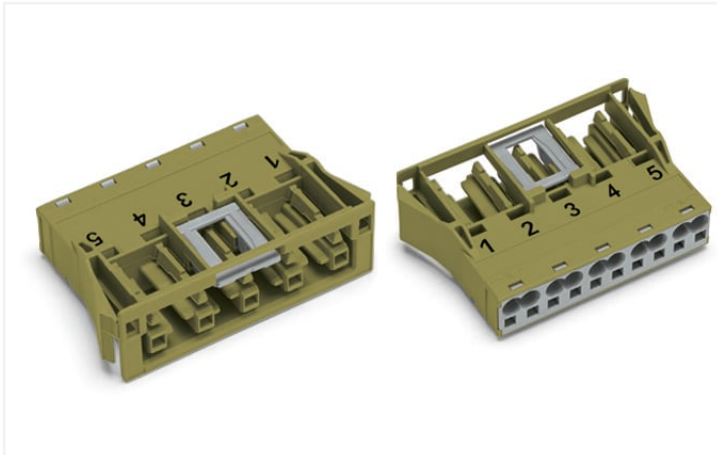


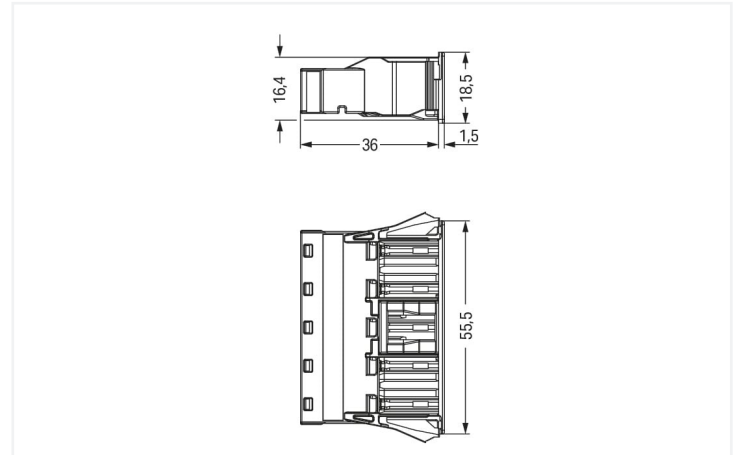
## Data Sheet | Item Number: 770-765

Snap-in socket; 5-pole; Cod. B; 4,00 mm<sup>2</sup>; light green

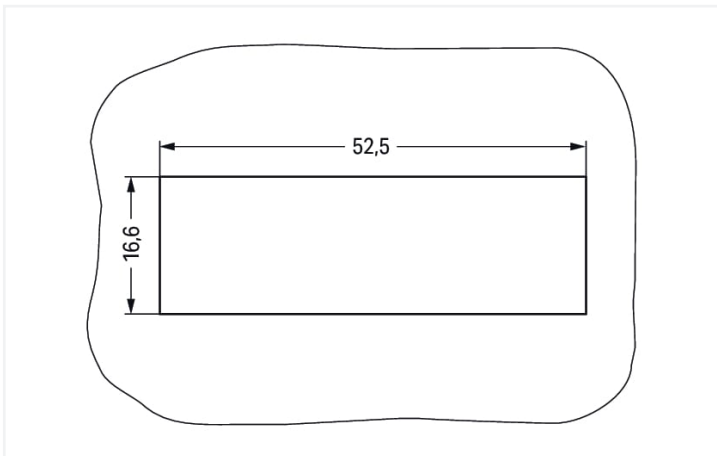
<https://www.wago.com/770-765>



Color: ■ light green



Dimensions in mm



Dimensions in mm

Plate thickness: 0.5 ... 2 mm

Cutout tolerance: + 0.1 mm

Please note!

Female connector/socket WINSTA® MIDI with protection type IP20

For signal and power transmission: The WINSTA® MIDI female connector/socket with protection type IP20. Our pluggable installation connectors with spring pressure connection technology work completely without screw connections. They allow resource-efficient, error-free installation in a large number of possible uses. For greater protection in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismatching. 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 control in applications in automation, robotics, and mechanical engineering. This pluggable installation connector can be used for electrical currents up to 25 A. Thus the product is ideally suitable for high power loads. The WINSTA® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates precise electrification. Thanks to the built-in test slot, it is possible to check connections even when they are plugged in. That saves time and reduces installation labor and costs.

Lower costs through fast commissioning and elimination of service expenses – solutions from WINSTA® MIDI

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Choose quality and durability – the WINSTA® MIDI pluggable installation connector with marking from WAGO makes the installation of electrical components significantly easier.

- pluggable installation connectors with protection against mismatching
- for automation controllers
- with B coding for controllers, for example lighting fixtures and sun blinds
- ready for immediate use
- convenient installation and commissioning



| Notes     |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note      | The snap-in connectors must be relieved of tensile and transverse forces. A surface finish can influence the edge radius of the cutouts. This may affect the snap-in socket fit, so ensure an adequate fit before use. In addition, the punched edge should be on the inside for punched cutouts. The wings of the snap-in connectors must not be mechanically stressed for a long period before use (e.g., due to a pre-locking position). |
| Variants: | Other pole markings<br>Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .                                                                                                                                                                                                                                                         |

| Electrical data      |  |                |     |    |
|----------------------|--|----------------|-----|----|
| Ratings per          |  | IEC/EN 60664-1 |     |    |
| Overvoltage category |  | III            | III | II |
| Pollution degree     |  | 3              | 2   | 2  |
| Nominal voltage      |  | 400 V          | -   | -  |
| Rated surge voltage  |  | 6 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            |    |  |
|----------------------------|----|--|
| Connection points          | 10 |  |
| Total number of potentials | 5  |  |

| Connection 1                                               |                                  |
|------------------------------------------------------------|----------------------------------|
| Connection technology                                      | Push-in CAGE CLAMP®              |
| Actuation type                                             | Operating tool<br>Push-in        |
| Nominal cross-section                                      | 4 mm² / 12 AWG                   |
| 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 insulated ferrule            | 0.25 ... 1.5 mm² / 20 ... 16 AWG |
| Fine-stranded conductor; with uninsulated ferrule          | 0.25 ... 2.5 mm² / 20 ... 14 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 1.5 mm² / 16 AWG                 |
| Strip length                                               | 9 mm / 0.35 inches               |
| Pole number                                                | 5                                |
| Conductor entry direction to mating direction              | 0°                               |

| Physical data |                        |
|---------------|------------------------|
| Pin spacing   | 10 mm / 0.394 inches   |
| Width         | 55.5 mm / 2.185 inches |
| Height        | 18.5 mm / 0.728 inches |
| Depth         | 37.5 mm / 1.476 inches |

## Mechanical data

|                                         |                                                                                                               |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Application                             | Control technology                                                                                            |
| Coding                                  | B                                                                                                             |
| Variable coding                         | Yes                                                                                                           |
| Marking                                 | 1 2 3 4 5                                                                                                     |
| Potential marking                       | 1 2 3 4 5                                                                                                     |
| Mating force of a plug-in connection    | approx. 20 ... 70 N (depending on pole number)                                                                |
| Retention force of a plug-in connection | 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                                                                                   |
| Housing sheet thickness                 | 0.5 ... 2 mm / 0.02 ... 0.079 inches                                                                          |
| Mounting type                           | Snap-in flange                                                                                                |
| 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) | Female connector/socket                                                                                                                                                                                                                                                                                          |
| Connector (connection type)        | for conductor                                                                                                                                                                                                                                                                                                    |
| 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). |

## Material data

|                             |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| Note (material data)        | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       | light green                                                                                                            |
| 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                   | 0.355 MJ                                                                                                               |
| Weight                      | 18.7 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       |               |  |
|-----------------------|---------------|--|
| Product Group         | 20 (Winsta)   |  |
| eCl@ss 10.0           | 27-44-06-02   |  |
| eCl@ss 9.0            | 27-44-06-02   |  |
| ETIM 8.0              | EC002566      |  |
| ETIM 7.0              | EC002566      |  |
| PU (SPU)              | 50 pcs        |  |
| Packaging type        | Box           |  |
| Country of origin     | DE            |  |
| GTIN                  | 4055143594370 |  |
| Customs tariff number | 85366990990   |  |

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

Approvals / Certificates

| General approvals                                                                                                                                                                                                                                    |           |            | Declarations of conformity and manufacturer's declarations |          |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|------------------------------------------------------------|----------|------------------|
|    |           |            | Approval                                                   | Standard | Certificate Name |
| CCA<br>DEKRA Certification B.V.                                                                                                                                                                                                                      | IEC 61984 | NL-32104   | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| CCA<br>DEKRA Certification B.V.                                                                                                                                                                                                                      | EN 61984  | 2173495.01 | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| cURus<br>Underwriters Laboratories<br>Inc.                                                                                                                                                                                                           | UL 1977   | E45171     |                                                            |          |                  |
| cURus<br>Underwriters Laboratories<br>Inc.                                                                                                                                                                                                           | UL 1059   | E 45172    |                                                            |          |                  |

Approvals for marine applications

|    |           |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|
| Approval                                                                                                                                                                                                                                                   | Standard  | Certificate Name |
| ABS<br>American Bureau of Ship-<br>ping                                                                                                                                                                                                                    | -         | 19-HG1868589-PDA |
| DNV GL<br>Det Norske Veritas, Ger-<br>manischer Lloyd                                                                                                                                                                                                      | -         | TAE00001Z6       |
| LR<br>Lloyds Register                                                                                                                                                                                                                                      | IEC 61984 | LR22429487TA     |



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-765

↓

Documentation

| Bid Text |            |     |          |   |
|----------|------------|-----|----------|---|
| 770-765  | 19.02.2019 | xml | 2.92 KB  | ↓ |
| 770-765  | 08.06.2015 | doc | 23.50 KB | ↓ |

CAD/CAE-Data

CAD data

2D/3D Models 770-765

↓

CAE data

EPLAN Data Portal 770-765

↓

WSCAD Universe 770-765

↓

ZUKEN Portal 770-765

↓

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



[Item No.: 771-9995/205-105](#)  
pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. B; 1 m; 1,00 mm²; light green

[Item No.: 771-9995/005-105](#)  
pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. B; 1 m; 1,00 mm²; light green

1.1.2 Male connector/plug

[Item No.: 770-275](#)  
Plug; 5-pole; Cod. B; 4,00 mm²; light green

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.: 770-645**  
Lockout cap; 5-pole; for cutouts; Plastic; black



**Item No.: 770-695**  
Lockout cap; 5-pole; for cutouts; Plastic; white

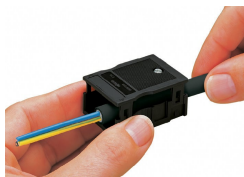
1.2.2 Tool

1.2.2.1 Operating tool

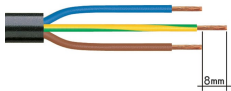


**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

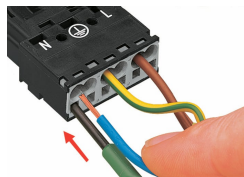
Installation Notes



We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



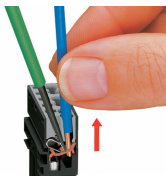
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.



Insert the stripped solid conductor until it hits the backstop.



To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.



To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.