

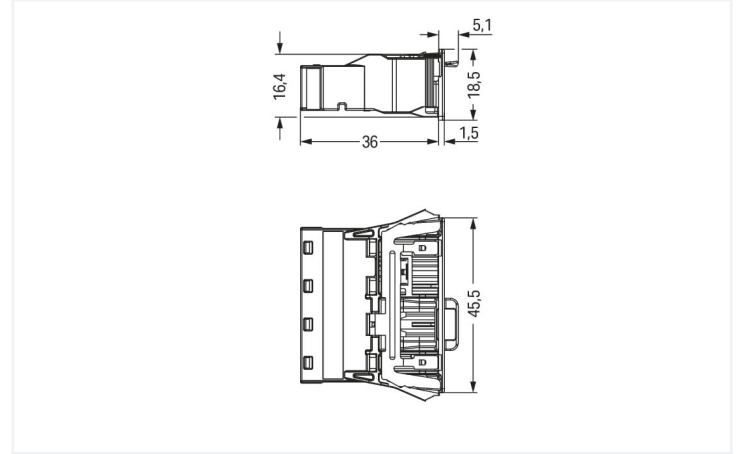
## Data Sheet | Item Number: 770-734/007-000

Snap-in plug; with direct ground contact; 4-pole; Cod. A; 4,00 mm<sup>2</sup>; white

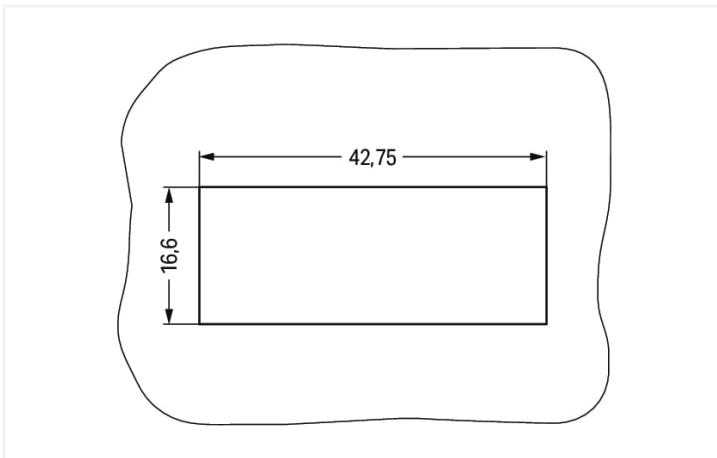
<https://www.wago.com/770-734/007-000>



Color: ■ white



Dimensions in mm



Dimensions in mm

Plate thickness: 0.5 ... 2 mm

Cutout tolerance: + 0.1 mm

Please note!

Male connector/plug WINSTA® MIDI with protection type IP20

The WINSTA® MIDI male connector/plug with protection type IP20 supports fast, reliable installation. Our pluggable installation connectors with spring pressure connection technology function entirely without screw connections. They allow resource-efficient, error-free installation in numerous applications. The coding options reduce installation errors, allowing fast, secure 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 electrified contact elements. The WINSTA® MIDI pluggable installation connector with A coding in black or white is normally used for general mains applications in power distribution. The rated current and voltage are important criteria for selecting a pluggable installation connector: They provide information about possible domains of use and applications. This product has a current rating of 25 A – as a result it is suitable for robust loads. The WINSTA® MIDI product line achieves total flexibility for the installation of applications. With its Push-in CAGE CLAMP® spring pressure connection technology, it ensures error-free, time-saving installation and offers flexibility and customization for meeting all installation requirements.

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

WINSTA® is the pluggable connection system that is ideally tailored to the strict requirements of electrical installation. It ensures fast, secure and, above all, error-free installation of components and cables. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with marking from WAGO.

- protection against mismatching eliminates errors
- simple circuits
- for any mains application
- exact dimensions
- 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). |

| 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          | 8                    |  |
| Total number of potentials | 4                    |  |
| PE function                | Preceding PE contact |  |

| 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                                                | 4                                |
| Conductor entry direction to mating direction              | 0 °                              |

| Physical data |                        |
|---------------|------------------------|
| Pin spacing   | 10 mm / 0.394 inches   |
| Width         | 45.5 mm / 1.791 inches |
| Height        | 18.5 mm / 0.728 inches |
| Depth         | 41.1 mm / 1.618 inches |

## Mechanical data

|                                                        |                                                                                                               |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Application                                            | General mains applications                                                                                    |
| Coding                                                 | A                                                                                                             |
| Variable coding                                        | Yes                                                                                                           |
| Marking                                                | 1/L' 2/L N                                                                                                    |
| Potential marking                                      | 1/L' 2/L N                                                                                                    |
| 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                                                                          |
| Direct ground contact to DIN-rail/drilled hole/housing | Yes                                                                                                           |
| Design                                                 | with direct ground contact                                                                                    |
| 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) | Male connector/plug                                                                                                                                                                                                                                                                                              |
| Connector (connection type)        | for conductor                                                                                                                                                                                                                                                                                                    |
| Mismating protection               | Yes                                                                                                                                                                                                                                                                                                              |
| Note on mismating protection       | All WINSTA® 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                       | white                                                                                                                  |
| 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                   | 0.347 MJ                                                                                                               |
| Weight                      | 17.7 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       |  |               |
|-----------------------|--|---------------|
| 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)              |  | 100 pcs       |
| Packaging type        |  | Box           |
| Country of origin     |  | DE            |
| GTIN                  |  | 4045454408466 |
| 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.                                                                                                                                                                                                                      | EN 61535  | 71-123228                                                  |  |
| CCA<br>DEKRA Certification B.V.                                                                                                                                                                                                                      | IEC 61535 | NL -84761                                                  |  |
| cURus<br>Underwriters Laboratories Inc.                                                                                                                                                                                                              | UL 1977   | E45171                                                     |  |
| cURus<br>Underwriters Laboratories Inc.                                                                                                                                                                                                              | UL 1059   | E 45172                                                    |  |

Declarations of conformity and manufacturer's declarations

| Approval                                                | Standard | Certificate Name |
|---------------------------------------------------------|----------|------------------|
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |

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 | 770-734/007-000 |  |  |

Documentation

|                 |            |                 |  |
|-----------------|------------|-----------------|--|
| Bid Text        |            |                 |  |
| 770-734/007-000 | 19.02.2019 | xml<br>2.95 KB  |  |
| 770-734/007-000 | 08.06.2015 | doc<br>23.50 KB |  |

CAD/CAE-Data

|                                      |  |
|--------------------------------------|--|
| CAE data                             |  |
| EPLAN Data Portal<br>770-734/007-000 |  |
| WSCAD Universe<br>770-734/007-000    |  |

1 Compatible Products

1.1 System counterpart

1.1.1 Cable assembly



**Item No.: 771-9994/106-102**  
pre-assembled connecting cable; Eca; Socket/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m; 1,50 mm²; white

**Item No.: 771-9994/006-102**  
pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m; 1,50 mm²; white

1.1.2 Female connector/socket



**Item No.: 770-224**  
Socket; 4-pole; Cod. A; 4,00 mm²; white

**Item No.: 770-124**  
Socket; with strain relief housing; 4-pole; Cod. A; 4,00 mm²; white

1.2 Optional Accessories

1.2.1 Cover

1.2.1.1 Cover



**Item No.: 770-644**  
Lockout cap; 4-pole; for cutouts; Plastic; black



**Item No.: 770-694**  
Lockout cap; 4-pole; for cutouts; Plastic; white



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

1.2.2 Tool

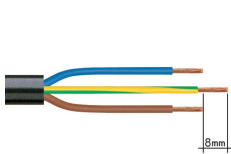
1.2.2.1 Operating tool



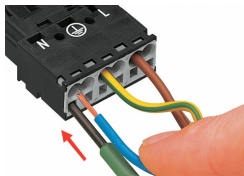
**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

Conductor termination



- 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.

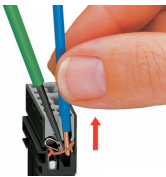


Insert the stripped solid conductor until it hits the backstop.



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.

Conductor removal



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



Varnish-piercing direct ground contact