

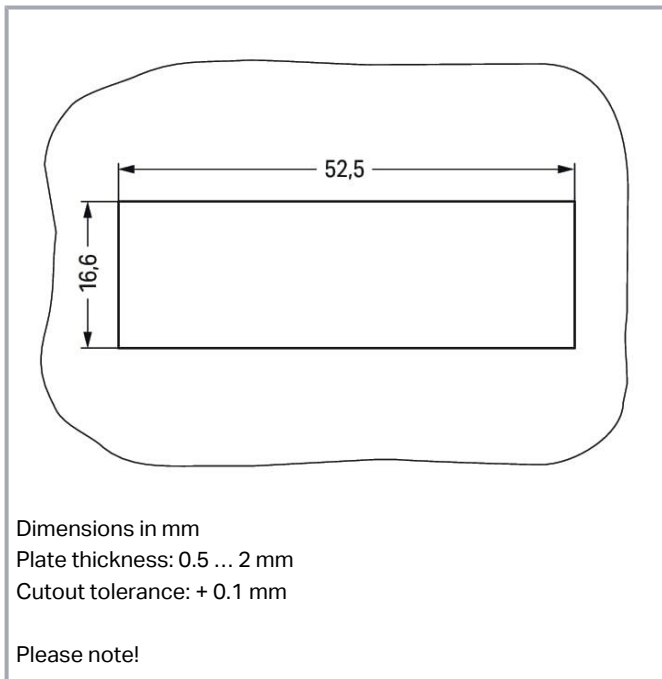
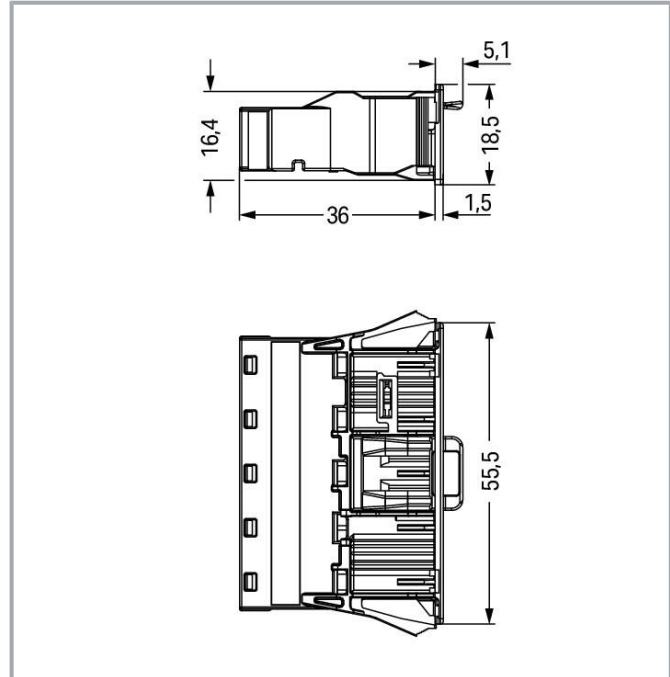
**Data sheet | Item number: 770-735**

Snap-in plug; 5-pole; Cod. A; 4,00 mm<sup>2</sup>; white

[www.wago.com/770-735](http://www.wago.com/770-735)



Color: 



Dimensions in mm

Plate thickness: 0.5 ... 2 mm

Cutout tolerance: + 0.1 mm

Please note!

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

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We are always happy to take your call at +49 (571) 887-44222.



Item description

Male connector/plug *WINSTA*® MIDI with protection type IP20

The *WINSTA*® MIDI male connector/plug with locking latch allows assembly of solid and fine-stranded conductors. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to a huge variety of requirements in seconds. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector is protected against ingress by solid objects in accordance with protection type IP20 (When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). Thanks to the color coding and mechanical A coding of *WINSTA*® MIDI pluggable installation connectors, you can clearly distinguish different circuits. 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 exemplary electrification. Due to the integrated 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. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with protection against mismatching from WAGO.

- effective protection against mismatching
- for automation controllers
- with A coding for use in a large number of general mains applications
- ready to install and use immediately
- quick replacement of defective units during ongoing operation

Data  
Notes

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note | <p>The snap-in connectors must be relieved of tensile and transverse forces.</p> <p>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.</p> <p>In addition, the punched edge should be on the inside for punched cutouts.</p> <p>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).</p> |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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



## Electrical data

### Ratings per IEC/EN

| Ratings per                   | IEC/EN 60664-1                                                       |
|-------------------------------|----------------------------------------------------------------------|
| Nominal voltage (III/3)       | 400 V                                                                |
| Rated impulse voltage (III/3) | 6 kV                                                                 |
| Rated current                 | 25 A                                                                 |
| Legend (ratings)              | (III / 3) $\triangleq$ 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 information

|                            |                                                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------|
| Note on contact resistance | approx. 1 m $\Omega$ of contact resistance<br>approx. 0.25 m $\Omega$ contact transition plug/socket |
|----------------------------|------------------------------------------------------------------------------------------------------|

### Connection data

|                            |                      |
|----------------------------|----------------------|
| Connection points          | 10                   |
| Total number of potentials | 5                    |
| PE function                | Preceding PE contact |

### Connection 1

|                                                 |                                              |
|-------------------------------------------------|----------------------------------------------|
| Connection technology                           | Push-in CAGE CLAMP®                          |
| Actuation type                                  | Operating tool<br>Push-in                    |
| Nominal cross-section                           | 4 mm <sup>2</sup> / 12 AWG                   |
| Solid conductor                                 | 0.5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG    |
| Solid conductor; push-in termination            | 1.5 ... 4 mm <sup>2</sup> / 16 ... 12 AWG    |
| Stranded conductor                              | 0.5 ... 2.5 mm <sup>2</sup> / 20 ... 14 AWG  |
| Fine-stranded conductor                         | 0.5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG    |
| Fine-stranded conductor; with insulated ferrule | 0.25 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG |

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



|                                                            |                                              |
|------------------------------------------------------------|----------------------------------------------|
| Fine-stranded conductor; with uninsulated ferrule          | 0.25 ... 2.5 mm <sup>2</sup> / 20 ... 14 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 1.5 mm <sup>2</sup> / 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       | 41.1 mm / 1.618 inches |

## Mechanical Data

|                                         |                                                                                                               |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Application                             | General mains applications                                                                                    |
| Coding                                  | A                                                                                                             |
| Variable coding                         | Yes                                                                                                           |
| Marking                                 | L3 L2 L1 $\perp$ N                                                                                            |
| Potential marking                       | L3 L2 L1 $\perp$ 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                                                                          |
| 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 <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                                                       |
| Clamping spring material    | Chrome-nickel spring steel (CrNi)                        |
| Contact material            | Copper or copper alloy; surface-treated                  |
| Contact plating             | Tin                                                      |
| Fire load                   | 0.444 MJ                                                 |
| Weight                      | 19.1 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                  | 4055143375917 |
| Customs tariff number | 85366990990   |

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## Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

## Approvals / Certificates

### General approvals

| Logo                                                                             | Approval                                       | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|------------------------------------------------|--------------------------|------------------|
|                                                                                  | <b>CCA</b><br>DEKRA Certification B.V.         | IEC 61535                | NL -84761        |
|  | <b>CCA</b><br>DEKRA Certification B.V.         | EN 61535                 | 71-<br>123228    |
|  | <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-<br>HG1868589-<br>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.770-125</b><br>Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white                                                                    | <a href="http://www.wago.com/770-125">www.wago.com/770-125</a>                   |
|  | <b>Item no.770-225</b><br>Socket; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white                                                                                                | <a href="http://www.wago.com/770-225">www.wago.com/770-225</a>                   |
|  | <b>Item no.770-325</b><br>Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white                                                                    | <a href="http://www.wago.com/770-325">www.wago.com/770-325</a>                   |
|  | <b>Item no.770-425</b><br>Socket; 5-pole; Cod. A; 4,00 mm <sup>2</sup> ; white                                                                                                | <a href="http://www.wago.com/770-425">www.wago.com/770-425</a>                   |
|  | <b>Item no.771-9995/006-102</b><br>pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; white  | <a href="http://www.wago.com/771-9995/006-102">www.wago.com/771-9995/006-102</a> |
|  | <b>Item no.771-9995/106-102</b><br>pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm <sup>2</sup> ; 1 m; 1,50 mm <sup>2</sup> ; white | <a href="http://www.wago.com/771-9995/106-102">www.wago.com/771-9995/106-102</a> |

## Optional accessories

### Cover

#### Cover

|                                                                                    |                                                                               |                                                                |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Item no.: 770-695</b><br>Lockout cap; 5-pole; for cutouts; Plastic; white  | <a href="http://www.wago.com/770-695">www.wago.com/770-695</a> |
|  | <b>Item no.: 770-645</b><br>Lockout cap; 5-pole; for cutouts; Plastic; black  | <a href="http://www.wago.com/770-645">www.wago.com/770-645</a> |
|  | <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> |

### Tool

#### Operating tool

|                                                                                    |                                                                                                   |                                                                |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Item no.: 210-719</b><br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft | <a href="http://www.wago.com/210-719">www.wago.com/210-719</a> |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------|

## Downloads

### Documentation

#### Bid Text

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



|             |             |               |          |
|-------------|-------------|---------------|----------|
| 770-735     | 2019 Feb 19 | xml<br>3.0 kB | Download |
| X81 - Datei |             |               |          |

|             |            |                |          |
|-------------|------------|----------------|----------|
| 770-735     | 2015 Jun 8 | doc<br>23.6 kB | Download |
| doc - Datei |            |                |          |

## CAD/CAE-Data

### CAD data

|                      |     |          |
|----------------------|-----|----------|
| 2D/3D Models 770-735 | URL | Download |
|----------------------|-----|----------|

### CAE data

|                           |     |          |
|---------------------------|-----|----------|
| EPLAN Data Portal 770-735 | URL | Download |
|---------------------------|-----|----------|

|                        |     |          |
|------------------------|-----|----------|
| WSCAD Universe 770-735 | URL | Download |
|------------------------|-----|----------|

|                      |     |          |
|----------------------|-----|----------|
| ZUKEN Portal 770-735 | URL | Download |
|----------------------|-----|----------|

### Asset Administration Shell

|                                    |     |          |
|------------------------------------|-----|----------|
| Asset Administration Shell 770-735 | URL | Download |
|------------------------------------|-----|----------|

## Environmental Product Compliance

### Compliance Search

|                                               |     |          |
|-----------------------------------------------|-----|----------|
| Environmental Product Compliance 770-735      | URL | Download |
| Snap-in plug; 5-pole; Cod. A; 4,00 mm²; white |     |          |

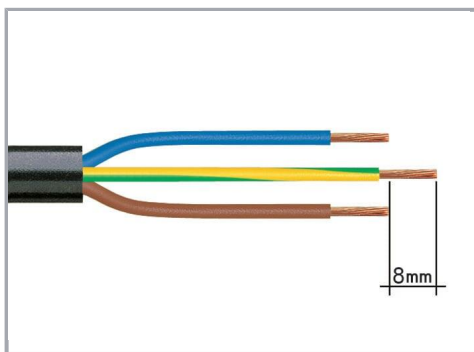
## Installation Notes

### Conductor termination

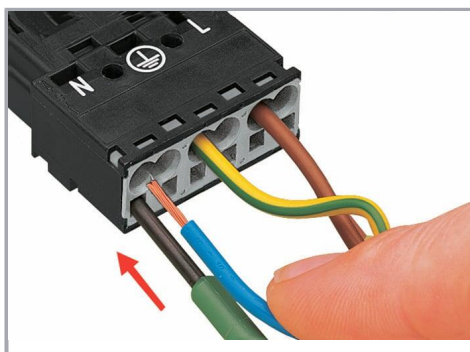
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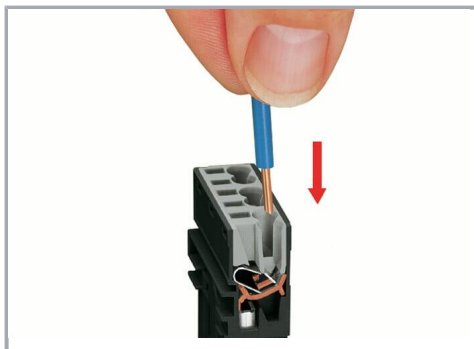
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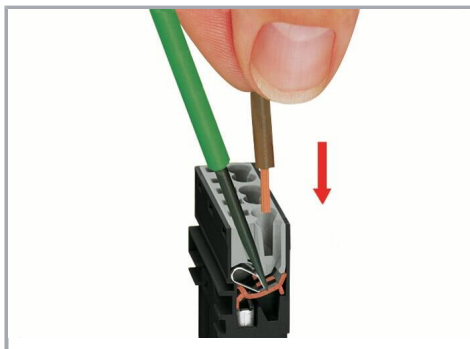
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm



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.

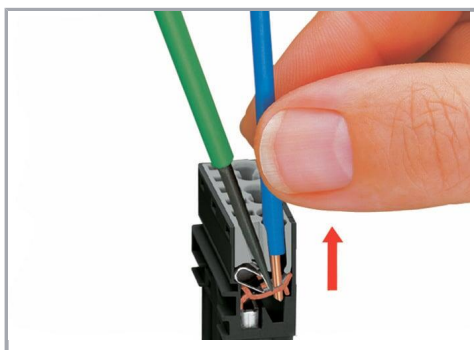


Insert the stripped solid conductor until it hits the backstop.



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.

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



Seal unused cutout with lockout cap.

## Product family

**WINSTA® MIDI**

[Show all products from the family](#)

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