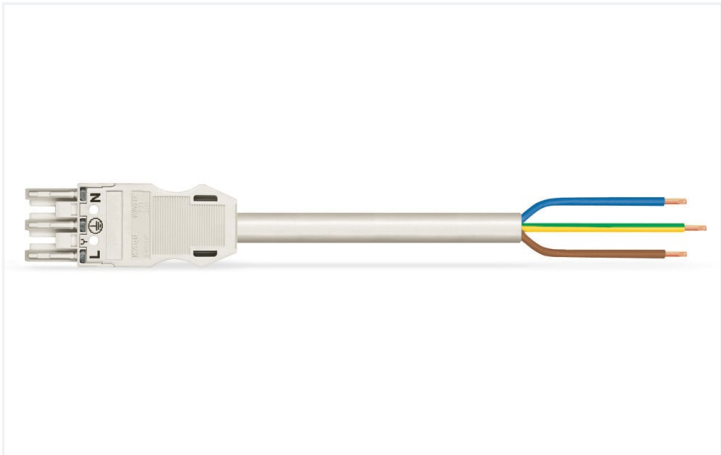
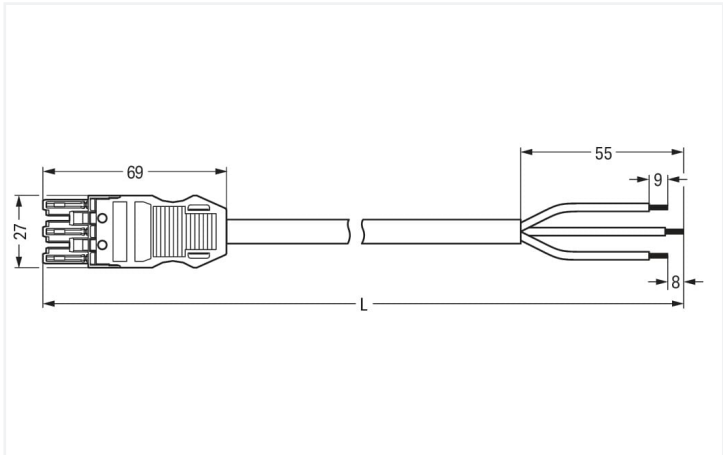




Color:   white



Dimensions in mm

Cable assembly WINSTA® MIDI with protection type IP20

For signal and power transmission: The WINSTA® MIDI cable assembly A coding. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to an enormous variety of requirements in seconds. The color coding and mechanical coding of the pluggable installation connector ensure error-free installation of the individual components – including 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!)). The WINSTA® MIDI pluggable installation connector with A coding in white or black is normally used for general mains applications in power distribution. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is found in can be found in a variety of projects you can use for quick, easy, flexible, and secure electrical installation. According to the European CPR, the fire class of the cables used for construction is critical for the safety of buildings, too. For houses with average safety requirements, cable assemblies with fire class E are suitable. Not using halogen additives in the production of this cable assembly noticeably increases fire safety and reduces environmental contamination.

Pluggable connections instead of screw connections – cable assemblies from WAGO

The cable is pre-assembled with a socket and a free end. The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Now you can also reduce installation costs without compromising quality and safety: The WINSTA® MIDI pluggable installation connector with protection type IP20 eliminates the need for servicing and prevents unnecessary downtime.

- pluggable installation connectors with protection against mismatching
- pre-assembled versions
- suitable for any application
- custom-engineered solutions
- rapid, structured electrical installation

| Notes |                                                               |
|-------|---------------------------------------------------------------|
| Note  | Cables with a different fire class can be found in the eShop. |

| 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          | 16 A  | -                                                                                                                                                                                                                                        | -   | -  |
| 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. |     |    |

### 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 | 3                         | <b>Connection 1</b>             |                    |
| PE function                | Preceding PE contact      | Strip length                    | 9 mm / 0.35 inches |
| Conductor preparation      | ultrasonically tip-bonded | Pole number                     | 3                  |
|                            |                           | Sheathed cable diameter         | 7.4 ... 9.4 mm     |
|                            |                           | Wire cross-section              | 1.5 mm²            |
|                            |                           | Strip length (outer insulation) | 55 mm              |
|                            |                           | Connection type                 | Socket - free end  |

### Physical data

|              |                        |
|--------------|------------------------|
| Pin spacing  | 10 mm / 0.394 inches   |
| Width        | 27 mm / 1.063 inches   |
| Height       | 12.9 mm / 0.508 inches |
| Total length | 3 m                    |

### Mechanical data

|                                         |                                                                                                               |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Application                             | General mains applications                                                                                    |
| Coding                                  | A                                                                                                             |
| Variable coding                         | Yes                                                                                                           |
| Marking                                 | L N                                                                                                           |
| Potential marking                       | L 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: > 80N                                                                                            |
| Unmating force of a plug-in connection  | when unlocked: approx. 20 ... 70 N (depending on pole number)                                                 |
| Number of mating cycles                 | 200, without resistive load                                                                                   |
| Connection type                         | Socket - free end                                                                                             |
| Type of pre-assembled cable             | Connecting cable                                                                                              |
| Cable type                              | H05Z1Z1-F 3G1.5                                                                                               |
| 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                 | Can be retrofitted                                                                                                                                                                                                                                                                                               |
| 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)                                                                                                       |
| Fire class per EN 50575          | E <sub>ca</sub>                                                                                                        |
| Contact material                 | Copper or copper alloy; surface-treated                                                                                |
| Contact plating                  | Tin                                                                                                                    |
| Fire load                        | 89.722 MJ                                                                                                              |
| Connector color                  | white                                                                                                                  |
| Strain relief color              | white                                                                                                                  |
| Printing color of strain relief  | black                                                                                                                  |
| Sheathed cable color             | white                                                                                                                  |
| Printing color of sheathed cable | black                                                                                                                  |
| Halogen-free                     | Yes                                                                                                                    |
| Silicon-free                     | Yes                                                                                                                    |
| Sheath material                  | Halogen-free                                                                                                           |
| Rubber cable                     | No                                                                                                                     |
| Weight                           | 303.9 g                                                                                                                |
| Copper weight of the pipe        | 0.043 kg/m                                                                                                             |

| Environmental requirements               |                                                                                                       |
|------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Processing temperature                   | -5 ... +40 °C                                                                                         |
| Continuous operating temperature         | -35 ... +85 °C                                                                                        |
| Note on continuous operating temperature | Cable for temperatures ≤ 70 °C (including halogen-free)<br>Insulating parts for temperatures ≤ 105 °C |

| Commercial data       |               |
|-----------------------|---------------|
| eCl@ss 10.0           | 27-44-06-04   |
| eCl@ss 9.0            | 27-44-06-04   |
| ETIM 8.0              | EC002587      |
| ETIM 7.0              | EC002587      |
| PU (SPU)              | 1 pcs         |
| Packaging type        | unpacked      |
| Country of origin     | DE            |
| GTIN                  | 4044918587846 |
| Customs tariff number | 85444290900   |

| 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 | NTR NL-7355                                                |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 61535 | 71-123834                                                  |
|                                       |          | Approval                                                   |
|                                       |          | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    |
|                                       |          | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    |



|                                  |  |  |   |
|----------------------------------|--|--|---|
| Downloads                        |  |  |   |
| Environmental Product Compliance |  |  |   |
| Compliance Search                |  |  |   |
| Environmental Product Compliance |  |  | ↓ |
| 771-9993/116-302                 |  |  |   |

|                  |            |                 |   |
|------------------|------------|-----------------|---|
| Documentation    |            |                 |   |
| Bid Text         |            |                 |   |
| 771-9993/116-302 | 19.02.2019 | xml<br>3.00 KB  | ↓ |
| 771-9993/116-302 | 04.12.2014 | doc<br>25.50 KB | ↓ |

|                  |   |                   |   |
|------------------|---|-------------------|---|
| CAD/CAE-Data     |   |                   |   |
| CAD data         |   | CAE data          |   |
| 2D/3D Models     |   | EPLAN Data Portal | ↓ |
| 771-9993/116-302 | ↓ | 771-9993/116-302  |   |
|                  |   | WSCAD Universe    | ↓ |
|                  |   | 771-9993/116-302  |   |
|                  |   | ZUKEN Portal      | ↓ |
|                  |   | 771-9993/116-302  |   |

|                                                                                                   |                                                                                                   |                                                                                                 |                                                                                                 |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1 Compatible Products                                                                             |                                                                                                   |                                                                                                 |                                                                                                 |
| 1.1 Required Accessories                                                                          |                                                                                                   |                                                                                                 |                                                                                                 |
| 1.1.1 Locking system                                                                              |                                                                                                   |                                                                                                 |                                                                                                 |
| 1.1.1.1 Locking system                                                                            |                                                                                                   |                                                                                                 |                                                                                                 |
|                |                |             |            |
| <a href="#">Item No.: 770-101</a><br>Locking lever; for flying leads; for manual operation; black | <a href="#">Item No.: 770-121</a><br>Locking lever; for flying leads; for manual operation; white | <a href="#">Item No.: 770-111</a><br>Locking lever; for flying leads; for tool operation; black | <a href="#">Item No.: 770-131</a><br>Locking lever; for flying leads; for tool operation; white |

|                                                                                                   |                                                                                                   |                                                                                              |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 1.2 Optional Accessories                                                                          |                                                                                                   |                                                                                              |
| 1.2.1 Cover                                                                                       |                                                                                                   |                                                                                              |
| 1.2.1.1 Cover                                                                                     |                                                                                                   |                                                                                              |
|                |                |          |
| <a href="#">Item No.: 770-201</a><br>Lockout cap; 12-pole, separable; for sockets; Plastic; black | <a href="#">Item No.: 770-221</a><br>Lockout cap; 12-pole, separable; for sockets; Plastic; white | <a href="#">Item No.: 897-2003</a><br>Protective cap; Type2; for sockets and plugs; PVC; red |

1.2.2 Installation

1.2.2.1 Mounting accessories



[Item No.: 770-310](#)  
Mounting carrier; 2- to 5-pole; for flying leads; black

1.2.3 Marking

1.2.3.1 Marker



[Item No.: 770-450/000-006](#)  
Marker card; Plastic; blue



[Item No.: 770-450/000-001](#)  
Marker card; Plastic; green



[Item No.: 770-450/000-012](#)  
Marker card; Plastic; orange



[Item No.: 770-450/000-005](#)  
Marker card; Plastic; red



[Item No.: 770-450](#)  
Marker card; Plastic; white



[Item No.: 770-450/000-002](#)  
Marker card; Plastic; yellow

1.2.3.2 Marking strip



[Item No.: 210-334](#)  
Marking strips; as a DIN A4 sheet; Strip width 5 mm; Strip length 182 mm; plain; Self-adhesive; white