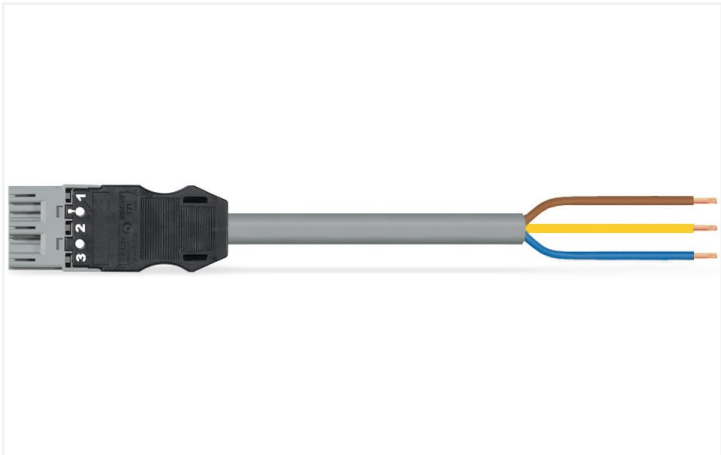
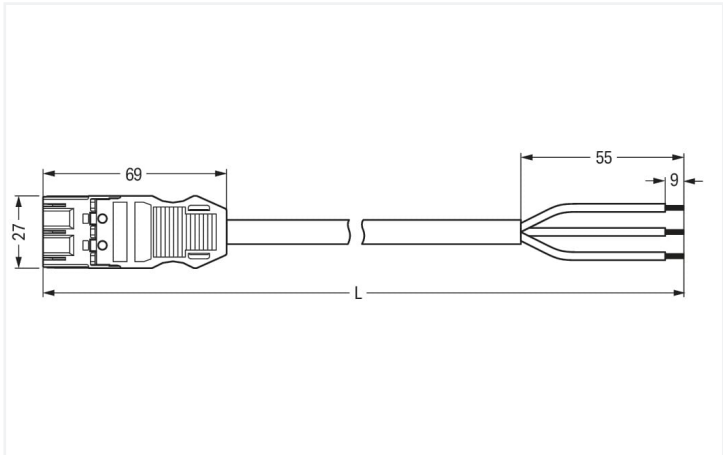




Color: ■ gray



Dimensions in mm

Cable assembly WINSTA® MIDI with protection type IP20

The WINSTA® MIDI cable assembly B coding supports rapid, correct installation. 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 next to no time. For greater protection in electrical installations, the pluggable installation connector is provided with mechanical protection against mismatching. 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!)). B coding enables the WINSTA® MIDI pluggable installation connectors to be used for application control in automation, mechanical engineering and robotics. The WINSTA® MIDI product line allows maximum flexibility for the electrical installation. Through its Push-in CAGE CLAMP® spring pressure connection technology, it guarantees time-saving, error-free installation and offers flexibility for meeting all installation requirements. This product meets all the relevant safety requirements of fire class E; as a result it can be used in domains where fire safety is relevant.

Pluggable connections instead of screw connections – cable assemblies from WAGO

A plug and a free end are available. The WINSTA® Pluggable Connection System is perfectly tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and thus more efficient, even more reliable, and error-free. Use of this pre-assembled system reduces assembly times and installation errors at the construction site. Now you can also lower installation expenses without compromising safety and quality: with protection type IP20 reduces the need for servicing and prevents unnecessary downtime.

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

| Notes     |                                                                                                                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note      | Cables with a different fire class can be found in the eShop.                                                                                                                       |
| 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            |  | 250 V                                                                                 | -   | -  |
| Rated surge voltage        |  | 4 kV                                                                                  | -   | -  |
| Rated current              |  | 16 A                                                                                  | -   | -  |
| General information        |  |                                                                                       |     |    |
| Note on contact resistance |  | approx. 1 mΩ of contact resistance<br>approx. 0.25 mΩ contact transition plug/ socket |     |    |



| Connection data            |                           |                                 |                    |
|----------------------------|---------------------------|---------------------------------|--------------------|
| Total number of potentials | 3                         | Connection 1                    |                    |
| Conductor preparation      | ultrasonically tip-bonded | Strip length                    | 9 mm / 0.35 inches |
|                            |                           | 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                 | Plug - 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  |  | 6 m                    |  |

| Mechanical data                         |  |                                                                                                               |  |
|-----------------------------------------|--|---------------------------------------------------------------------------------------------------------------|--|
| Use                                     |  | Control technology                                                                                            |  |
| Coding                                  |  | B                                                                                                             |  |
| Variable coding                         |  | Yes                                                                                                           |  |
| Marking                                 |  | 1 2 3                                                                                                         |  |
| Potential marking                       |  | 1 2 3                                                                                                         |  |
| 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                         |  | Plug - free end                                                                                               |  |
| Type of pre-assembled cable             |  | Connecting cable                                                                                              |  |
| Cable type                              |  | Control line 3 x 1.5                                                                                          |  |
| 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 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                 |  | 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="#">Information on material specifications can be found here</a> |
| Color                              | gray                                    |                                                                          |
| Insulation material (main housing) | Polyamide (PA66)                        |                                                                          |
| Fire class per EN 50575            | E <sub>ca</sub>                         |                                                                          |
| Contact material                   | Copper or copper alloy; surface-treated |                                                                          |
| Contact Plating                    | Tin                                     |                                                                          |
| Fire load                          | 0.328 MJ                                |                                                                          |
| Connector color                    | gray                                    |                                                                          |
| Strain relief color                | black                                   |                                                                          |
| Printing color of strain relief    | white                                   |                                                                          |
| Sheathed cable color               | gray                                    |                                                                          |
| Printing color of sheathed cable   | black                                   |                                                                          |
| Halogen-free                       | No                                      |                                                                          |
| Silicon-free                       | Yes                                     |                                                                          |
| Sheath material                    | PVC                                     |                                                                          |
| Rubber cable                       | No                                      |                                                                          |
| Weight                             | 604.4 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                  | 4050821274421 |  |
| Customs tariff number | 85444290900   |  |

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

Approvals / Certificates

General approvals



| 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        |



Downloads

Environmental Product Compliance

|                                  |  |  |   |
|----------------------------------|--|--|---|
| Compliance Search                |  |  |   |
| Environmental Product Compliance |  |  | ↓ |
| 771-9993/206-603                 |  |  |   |

Documentation

|                  |            |                 |   |
|------------------|------------|-----------------|---|
| Bid Text         |            |                 |   |
| 771-9993/206-603 | 19.02.2019 | xml<br>3.00 KB  | ↓ |
| 771-9993/206-603 | 02.06.2015 | doc<br>27.50 KB | ↓ |

CAD/CAE-Data

|                   |  |  |   |
|-------------------|--|--|---|
| CAE data          |  |  |   |
| EPLAN Data Portal |  |  | ↓ |
| 771-9993/206-603  |  |  |   |

1 Compatible Products

1.1 Required Accessories

1.1.1 Locking system

1.1.1.1 Locking system



[Item No.: 770-101](#)  
Locking lever; for flying leads; for manual operation; black



[Item No.: 770-121](#)  
Locking lever; for flying leads; for manual operation; white



[Item No.: 770-111](#)  
Locking lever; for flying leads; for tool operation; black



[Item No.: 770-131](#)  
Locking lever; for flying leads; for tool operation; white

1.2 Optional Accessories

1.2.1 Cover

1.2.1.1 Cover



[Item No.: 770-360](#)  
Lockout cap; for plugs; 5-pole; separable; yellow



[Item No.: 897-2003](#)  
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