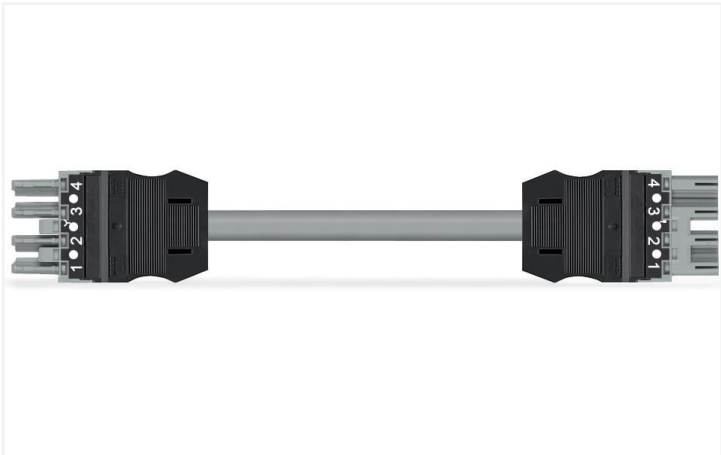
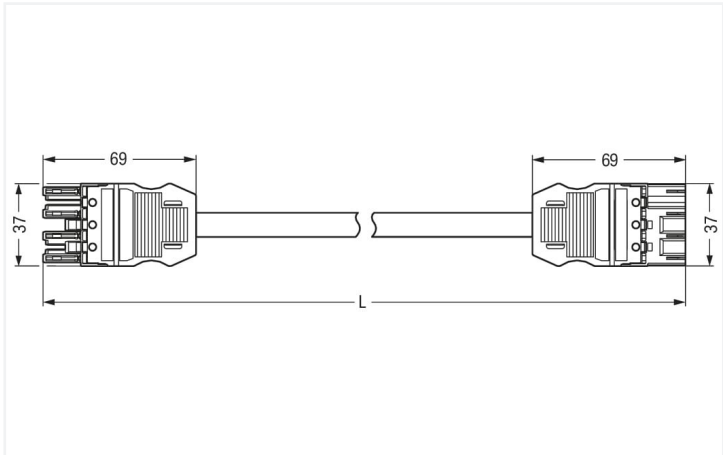




Color: ■ gray



Dimensions in mm

Cable assembly WINSTA® MIDI with protection against mismating

The WINSTA® MIDI cable assembly with protection type IP20 is the pluggable solution for your application in control cabinets, for lighting connections or on PCBs. WAGO pluggable installation connectors are used when specifications repeat or are distributed on a specific grid, for example for installing grid lighting or flush-mount lighting. For greater security in electrical installations, the pluggable installation connector is provided with mechanical protection against mismating. 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 control in applications in automation, mechanical engineering and robotics. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is found in a broad range of individual products you can use for quick, easy, secure, tailored electrical installation. Of course, the safety of buildings must always be ensured, even after the electrical installation has been performed. The mandatory safety requirements in connection with EU CPR are met by this product through fire class E.

Fast, secure pluggable connections – cable assemblies from WAGO

The cable assembly is provided with a socket and a plug. The WINSTA® Pluggable Connection System is ideally tailored to the strict requirements of building installation. It makes electrical installation pluggable, and thus faster, more reliable, and error-free. Use of this pre-assembled system decreases time spent on assembly and installation errors at the construction site. Now you can also reduce installation costs without compromising quality and safety: with protection type IP20 reduces the need for servicing and prevents unnecessary downtime.

- protection against mismating eliminates errors
- for automation controllers
- with B coding for controllers, for example sun blinds and lighting fixtures
- flexible installation to save space
- rapid, structured electrical installation

| 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      |  |                |     |    | General information                             |  |
|----------------------|--|----------------|-----|----|-------------------------------------------------|--|
| Ratings per          |  | IEC/EN 60664-1 |     |    | Note on contact resistance                      |  |
| Overvoltage category |  | III            | III | II | approx. 1 mΩ of contact resistance              |  |
| Pollution degree     |  | 3              | 2   | 2  | approx. 0.25 mΩ contact transition plug/ socket |  |
| Nominal voltage      |  | 400 V          | -   | -  |                                                 |  |
| Rated surge voltage  |  | 6 kV           | -   | -  |                                                 |  |
| Rated current        |  | 16 A           | -   | -  |                                                 |  |



| Connection data            |                 |
|----------------------------|-----------------|
| Total number of potentials | 4               |
| Connection 1               |                 |
| Pole number                | 4               |
| Sheathed cable diameter    | 8.4 ... 10.5 mm |
| Wire cross-section         | 1.5 mm²         |
| Connection type            | Socket - Plug   |

| Physical data |                      |
|---------------|----------------------|
| Pin spacing   | 10 mm / 0.394 inches |
| Width         | 37 mm / 1.457 inches |
| Total length  | 5 m                  |

| Mechanical data                         |                                                                                                               |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Use                                     | Control technology                                                                                            |
| Coding                                  | B                                                                                                             |
| Variable coding                         | Yes                                                                                                           |
| Marking                                 | 1 2 3 4                                                                                                       |
| Potential marking                       | 1 2 3 4                                                                                                       |
| 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 - Plug                                                                                                 |
| Type of pre-assembled cable             | Interconnecting cable                                                                                         |
| Cable type                              | Control line 4 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 <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="#">Information on material specifications can be found here</a> |
| Color                              | gray                                                                     |
| Insulation material (main housing) | Polyamide (PA66)                                                         |
| Flammability class per UL94        | V0                                                                       |
| Fire class per EN 50575            | E <sub>ca</sub>                                                          |
| Contact material                   | Copper or copper alloy; surface-treated                                  |
| Contact Plating                    | Tin                                                                      |
| Fire load                          | 0.894 MJ                                                                 |
| Connector color                    | gray                                                                     |
| Strain relief color                | black                                                                    |
| Printing color of strain relief    | white                                                                    |



| Material data                    |            |  |
|----------------------------------|------------|--|
| Sheathed cable color             | gray       |  |
| Printing color of sheathed cable | black      |  |
| Halogen-free                     | No         |  |
| Silicon-free                     | Yes        |  |
| Sheath material                  | PVC        |  |
| Rubber cable                     | No         |  |
| Weight                           | 530 g      |  |
| Copper weight of the pipe        | 0.058 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       |               |  |
|-----------------------|---------------|--|
| Product Group         | 20 (Winsta)   |  |
| 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                  | 4055143099271 |  |
| Customs tariff number | 85444290900   |  |

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

## Downloads

### Environmental Product Compliance

| Compliance Search                |                                                                                     |  |  |
|----------------------------------|-------------------------------------------------------------------------------------|--|--|
| Environmental Product Compliance |  |  |  |
| 771-9994/006-503                 |                                                                                     |  |  |

## Documentation

| Bid Text         |            |                 |                                                                                     |
|------------------|------------|-----------------|-------------------------------------------------------------------------------------|
| 771-9994/006-503 | 19.02.2019 | xml<br>2.92 KB  |  |
| 771-9994/006-503 | 02.06.2015 | doc<br>25.50 KB |  |



|                                       |  |
|---------------------------------------|--|
| CAD/CAE-Data                          |  |
| CAE data                              |  |
| EPLAN Data Portal<br>771-9994/006-503 |  |

|                          |
|--------------------------|
| 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.: 770-360</a><br>Lockout cap; for plugs; 5-pole; separable; yellow |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|

|                                                                                              |
|----------------------------------------------------------------------------------------------|
| 1.2.2 Installation                                                                           |
| 1.2.2.1 Mounting accessories                                                                 |
|                                                                                              |
| <a href="#">Item No.: 770-310</a><br>Mounting carrier; 2- to 5-pole; for flying leads; black |

| 1.2.3 Marking                                                                       |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1.2.3.1 Marker                                                                      |                                                                                     |                                                                                      |                                                                                       |
|  |  |  |  |
| <a href="#">Item No.: 770-450/000-006</a><br>Marker card; Plastic; blue             | <a href="#">Item No.: 770-450/000-001</a><br>Marker card; Plastic; green            | <a href="#">Item No.: 770-450/000-012</a><br>Marker card; Plastic; orange            | <a href="#">Item No.: 770-450/000-005</a><br>Marker card; Plastic; red                |
|  |  |                                                                                      |                                                                                       |
| <a href="#">Item No.: 770-450</a><br>Marker card; Plastic; white                    | <a href="#">Item No.: 770-450/000-002</a><br>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