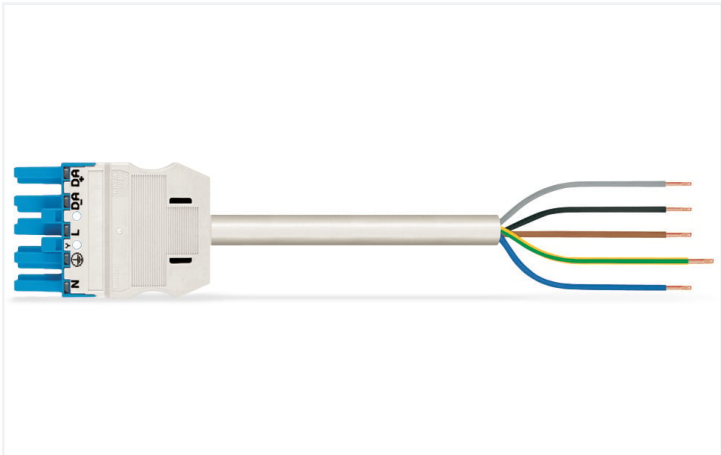




Color: ■ blue



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. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to an enormous variety of requirements in next to no time. For greater security in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismating. 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 live contact elements. I coding in blue is used to identify WINSTA® MIDI pluggable installation connectors, which are used primarily in automation of buildings for controlling lighting. 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, flexible, and secure electrical installation. This product meets all the mandatory fire protection requirements of fire class E; thus it can be used in areas where fire safety is relevant. In the production of this cable assembly, we eliminated the use of halogen. That is an important contribution to environmental protection.

Fast, secure pluggable connections – cable assemblies from WAGO

A socket and a free end are available. The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Now you can also lower installation costs without compromising safety and quality: The WINSTA® MIDI pluggable installation connector with strain relief hosting eliminates the need for servicing and prevents unnecessary downtime.

- protection against mismating eliminates errors
- for automation controllers
- with I coding for use in the automation of buildings (lighting control)
- custom-engineered solutions
- fast, secure 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        |  | 400 V                                                                                                                                                                                                                                    | -   | -  |
| Rated surge voltage    |  | 6 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 | 5                         | <b>Connection 1</b>             |                    |
| PE function                | Preceding PE contact      | Strip length                    | 9 mm / 0.35 inches |
| Conductor preparation      | ultrasonically tip-bonded | Pole number                     | 5                  |
|                            |                           | Sheathed cable diameter         | 9.3 ... 11.6 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        | 47 mm / 1.85 inches     |
| Height       | 15.38 mm / 0.606 inches |
| Total length | 7 m                     |

### Mechanical data

|                                         |                                                                                                               |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Application                             | DALI, Lighting Management                                                                                     |
| Coding                                  | I                                                                                                             |
| Variable coding                         | No                                                                                                            |
| Marking                                 | N L DA- DA+                                                                                                   |
| Potential marking                       | N L DA- DA+                                                                                                   |
| 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 5G1.5                                                                                               |
| 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                            | blue                                                                                                                   |
| Insulation material              | 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                        | 210.197 MJ                                                                                                             |
| Connector color                  | blue                                                                                                                   |
| 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                           | 1099.3 g                                                                                                               |
| Copper weight of the pipe        | 0.072 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                  | 4055143407106 |
| 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        |

Declarations of conformity and manufacturer's declarations

| Approval                                                | Standard | Certificate Name |
|---------------------------------------------------------|----------|------------------|
| 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<br>Compliance<br>771-9985/116-702 |



Documentation

| Bid Text         |
|------------------|
| 771-9985/116-702 |
| 19.02.2019       |
| xml<br>3.05 KB   |
| 771-9985/116-702 |
| 11.12.2014       |
| doc<br>26.50 KB  |



CAD/CAE-Data

| CAD data                         |
|----------------------------------|
| 2D/3D Models<br>771-9985/116-702 |



| CAE data                           |
|------------------------------------|
| WSCAD Universe<br>771-9985/116-702 |
| ZUKEN Portal<br>771-9985/116-702   |



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.: 770-201**  
Lockout cap; 12-pole, separable; for sockets; Plastic; black



**Item No.: 770-221**  
Lockout cap; 12-pole, separable; for sockets; Plastic; white



**Item No.: 897-2005**  
Protective cap; Type4; 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