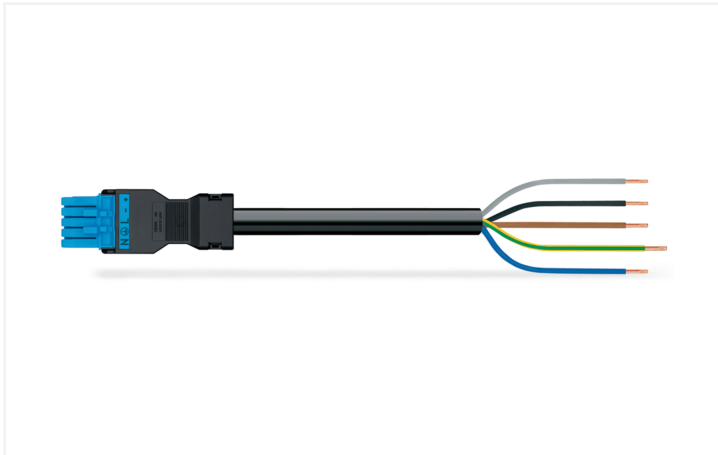


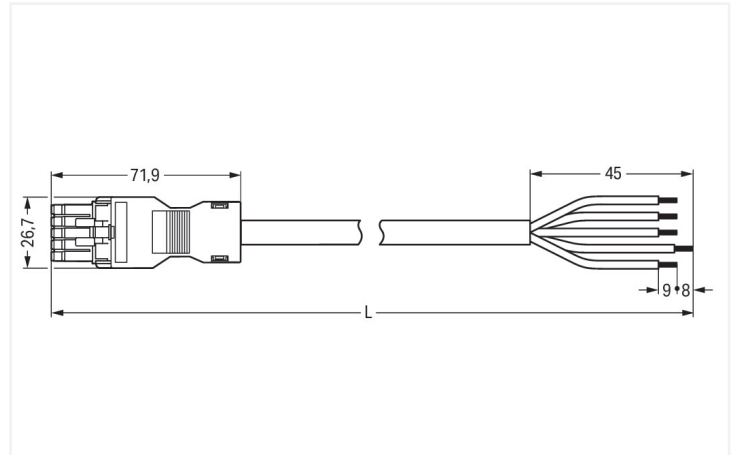
## Data Sheet | Item Number: 891-8985/116-401

pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. I;  
H05Z1Z1-F 5G 1.5 mm<sup>2</sup>; 4 m; 1,50 mm<sup>2</sup>; blue

<https://www.wago.com/891-8985/116-401>



Color: ■ blue



Dimensions in mm

### Cable assembly WINSTA® MINI with protection against mismatching

For signal and power transmission: The WINSTA® MINI cable assembly 5-pole. WAGO pluggable installation connectors are useful when specifications repeat or are distributed on a specified pattern, for example for installing grid lighting or flush-mount lighting. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. The pluggable installation connector is protected in accordance with protection type IP40. Users' hands and tools will never come into contact with live elements. I coding in blue is used to label WINSTA® MINI pluggable installation connectors, which are used above all in automation of buildings for controlling lighting. Especially if only limited space is available, our smallest pluggable connection system, WINSTA® MINI, conveniently displays its advantages. It is very compact, and, with Push-in CAGE CLAMP® spring pressure connection technology, it also saves time, since the installation is low-maintenance and requires no screw connections. According to the European CPR, the fire class of the cables used for construction is essential for building safety as well. For houses with medium-level safety requirements, cable assemblies with fire class E are suitable. In the production of this cable assembly, halogens were deliberately omitted. That is an important contribution to environmental protection.

### Fast, secure pluggable connections – cable assemblies from WAGO

The cable assembly is equipped with a socket and a free end. The WINSTA® Pluggable Connection System is ideally tailored to the strict requirements of building installation. It makes electrical installation pluggable, and therefore faster, more reliable, and error-free. Using this pre-assembled system decreases assembly times and errors during installation at the construction site. Now you can also cut installation expenses without compromising quality and safety: with protection type IP40 reduces the need for servicing and prevents unnecessary downtime.

- effective protection against mismatching
- compact design for conductors with a cross-section up to 1.5 mm<sup>2</sup>
- with I coding for use in the automation of buildings (lighting control)
- custom-engineered solutions
- quick replacement of defective units during ongoing operation

## Notes

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

## Electrical data

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

## 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                   |
|                            |                           | Wire cross-section              | 1.5 mm <sup>2</sup> |
|                            |                           | Strip length (outer insulation) | 45 mm               |
|                            |                           | Connection type                 | Socket - free end   |

## Physical data

|              |                        |
|--------------|------------------------|
| Pin spacing  | 4.4 mm / 0.173 inches  |
| Width        | 26.7 mm / 1.051 inches |
| Height       | 15.8 mm / 0.622 inches |
| Total length | 4 m                    |

## Mechanical data

|   |   |
|---|---|
| Use                                     | DALI, Lighting Management                                     |
| Coding                                  | I   |
| Variable coding                         | No  |
| Marking                                 | N ⊕ L - +   |
| Potential marking                       | N ⊕ L - +   |
| 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                         | IP40  |

### 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                              | blue   |
| 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                          | 119.938 MJ   |
| Connector color                    | blue   |
| Strain relief color                | black  |
| Sheathed cable color               | black  |
| Printing color of sheathed cable   | white  |
| Halogen-free                       | Yes  |
| Silicon-free                       | Yes  |
| Sheath material                    | Halogen-free   |
| Rubber cable                       | No   |
| Weight                             | 592.3 g  |
| Copper weight of the raw cable     | 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

|                       |               |
|-----------------------|---------------|
| PU (SPU)              | 1 pcs         |
| Packaging type        | unpacked      |
| Country of origin     | PL            |
| GTIN                  | 4050821018209 |
| Customs tariff number | 85444290900   |

**Product Classification**

|           |                      |
|-----------|----------------------|
| UNSPSC    | 26121629             |
| ETIM 9.0  | EC002587             |
| ETIM 10.0 | EC002587             |
| ECCN      | NO US CLASSIFICATION |

**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-7971      |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 61535 | 71-123232        |

**Downloads**

**Environmental Product Compliance**

| Compliance Search                                    |
|--|
| Environmental Product Compliance<br>891-8985/116-401 |

**Documentation**

| Bid Text         |            |                 |  |
|------------------|------------|-----------------|--|
| 891-8985/116-401 | 19.02.2019 | xml<br>3.05 KB  |  |
| 891-8985/116-401 | 02.12.2014 | doc<br>25.50 KB |  |

**CAD/CAE-Data**

| CAE data                           |
|------------------------------------|
| WSCAD Universe<br>891-8985/116-401 |

## 1 Compatible Products

### 1.1 Required Accessories

#### 1.1.1 Locking system

##### 1.1.1.1 Locking system



**Item No.: 890-111**

Locking lever; for flying leads; for tool operation; black

**Item No.: 890-131**

Locking lever; for flying leads; for tool operation; white

**Item No.: 890-101**

Locking lever; for manual operation; black

**Item No.: 890-121**

Locking lever; for manual operation; white

### 1.2 Optional Accessories

#### 1.2.1 Cover

##### 1.2.1.1 Cover



**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.: 890-310**

Mounting carrier; 2- to 5-pole; for flying leads; black

**Item No.: 890-311**

Mounting carrier; 2- to 5-pole; for flying leads; white