

## Data Sheet | Item Number: 891-8994/016-101

pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05Z1Z1-F  
4G 1.5 mm<sup>2</sup>; 1 m; 1,50 mm<sup>2</sup>; black

<https://www.wago.com/891-8994/016-101>



Color: ■ black



Dimensions in mm

### Cable assembly WINSTA® MINI with strain relief

The WINSTA® MINI cable assembly with protection against mismatching is the pluggable solution for your application in control cabinets, for lighting connections or on PCBs. WAGO pluggable installation connectors are useful when specifications repeat or are planned on a specific pattern, for example for installing grid lighting or flush-mount lighting. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The WINSTA® MINI pluggable installation connector with A coding in black or white is usually used for general mains applications in power distribution. Where space is tight, our smallest pluggable connection system, WINSTA® MINI, consistently displays its strengths. It saves space, and, with Push-in CAGE CLAMP® spring pressure connection technology, it also can be installed quickly, since the connection is low-maintenance and requires no screw connections. According to the European CPR, the fire class of the cables used for construction is critical for building safety as well. For buildings with medium-level safety requirements, cable assemblies with fire class E are suitable. The cable assembly is halogen-free. This eliminates the addition of environmental pollutants during production. It also achieves a higher fire class, since halogen-free materials are flame-resistant.

### Fast, error-free assembly thanks to cable assemblies from WAGO

The cable is pre-assembled with a socket and a plug. WINSTA® is the pluggable connection system that is perfectly tailored to the strict requirements of electrical installation. It allows error-free installation of cables and components, quickly and reliably. Now you can also reduce installation expenses without compromising quality and safety: with strain relief hosting reduces the need for servicing and prevents unnecessary downtime.

- protection against mismatching eliminates errors
- consistent IP40 protection
- with A coding for use in a large number of general mains applications
- custom-engineered solutions
- convenient installation and commissioning

### Notes

Note

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

## Electrical data

| Ratings per                     | IEC/EN 60664-1 |     |    | General information        |  |
|---------------------------------|----------------|-----|----|----------------------------|--|
|                                 | III            | III | II |                            |  |
| 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 | 4                    | <b>Connection 1</b> |                     |
| PE function                | Preceding PE contact | Pole number         | 4                   |
|                            |                      | Wire cross-section  | 1.5 mm <sup>2</sup> |
|                            |                      | Connection type     | Socket - Plug       |

## Physical data

|              |                        |
|--------------|------------------------|
| Pin spacing  | 4.4 mm / 0.173 inches  |
| Width        | 23.2 mm / 0.913 inches |
| Height       | 16 mm / 0.63 inches    |
| Total length | 1 m                    |

## Mechanical data

|   |   |
|---|---|
| Use                                     | General mains applications                                    |
| Coding                                  | A   |
| Variable coding                         | No  |
| Marking                                 | N ⊕ 2/L 1/L'  |
| Potential marking                       | N ⊕ 2/L 1/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 - Plug   |
| Type of pre-assembled cable             | Interconnecting cable   |
| Cable type                              | H05Z1Z1-F 4G1.5   |
| Protection type                         | IP20; IP40 when mated   |

## 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                              | black  |
| 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                          | 29.835 MJ  |
| Connector color                    | black  |
| 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                             | 136.8 g  |
| Copper weight of the raw cable     | 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

|                       |               |
|-----------------------|---------------|
| PU (SPU)              | 1 pcs         |
| Packaging type        | unpacked      |
| Country of origin     | PL            |
| GTIN                  | 4055143404983 |
| Customs tariff number | 85444290900   |

### Product Classification

|             |                      |
|-------------|----------------------|
| UNSPSC      | 26121629             |
| eCl@ss 10.0 | 27-44-06-04          |
| eCl@ss 9.0  | 27-44-06-04          |
| 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>891-8994/016-101 | <a href="#">↓</a> |
|--|-------------------|

## Documentation

### Bid Text

|                  |            |                 |                   |
|------------------|------------|-----------------|-------------------|
| 891-8994/016-101 | 19.02.2019 | xml<br>2.93 KB  | <a href="#">↓</a> |
| 891-8994/016-101 | 01.12.2014 | doc<br>24.00 KB | <a href="#">↓</a> |

## CAD/CAE-Data

### CAE data

|                                       |                   |
|---------------------------------------|-------------------|
| EPLAN Data Portal<br>891-8994/016-101 | <a href="#">↓</a> |
| WSCAD Universe<br>891-8994/016-101    | <a href="#">↓</a> |

## 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