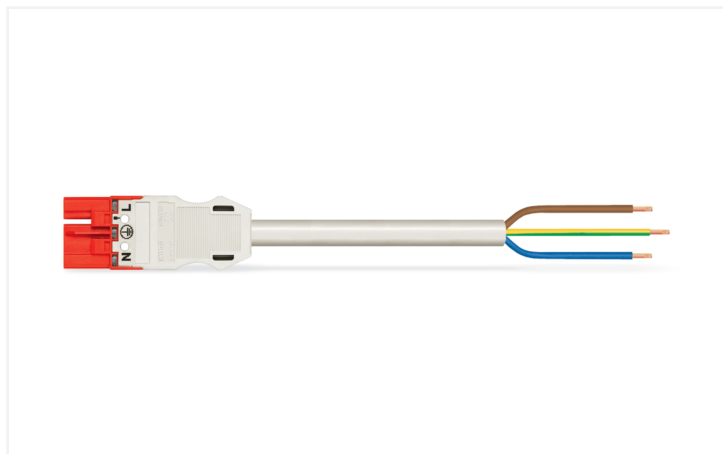


## Data Sheet | Item Number: 771-9973/217-402

pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. P; H05Z1Z1-F 3G 2.5 mm<sup>2</sup>; 4 m; 2,50 mm<sup>2</sup>; red

<https://www.wago.com/771-9973/217-402>



Color: ■ red



Dimensions in mm

### Cable assembly WINSTA® MIDI with protection against mismating

The WINSTA® MIDI cable assembly with protection against mismating is the pluggable solution for your use in control cabinets, for lighting connections or on PCBs. Our pluggable installation connectors with spring pressure connection technology work without screw connections. They allow resource-efficient, error-free installation in numerous applications. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including 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 electrified elements. UPS applications for data exchange almost always use the red WINSTA® MIDI pluggable installation connectors with P coding. This pluggable installation connector can be used for a voltage load of up to 20 A. Thus, it can also be used for high power loads. The WINSTA® MIDI product line offers total flexibility for the installation. With its Push-in CAGE CLAMP® spring pressure connection technology, it guarantees time-saving, error-free installation and offers flexibility for meeting various installation requirements. According to the European CPR, the fire class of the cables used in construction is essential for building safety, too. For houses 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 do not easily ignite.

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

The cable is pre-assembled with a plug and a free end. The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Choose durability and quality – with protection against mismating from WAGO makes the installation of electrical components significantly easier.

- pluggable installation connectors with protection against mismating
- pre-assembled versions
- with P coding for uninterruptible power supply
- flexible installation to save space
- 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 |     |    | 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                 | 250 V          | -   | -  |                            |  |
| Rated impulse withstand voltage | 4 kV           | -   | -  |                            |  |
| Rated current                   | 20 A           | -   | -  |                            |  |

## Connection Data

|                            |                           |                                 |                     |
|----------------------------|---------------------------|---------------------------------|---------------------|
| Total number of potentials | 3                         | <b>Connection 1</b>             |                     |
| PE function                | Preceding PE contact      | Strip length                    | 9 mm / 0.35 inches  |
| Conductor preparation      | ultrasonically tip-bonded | Pole number                     | 3                   |
|                            |                           | Wire cross-section              | 2.5 mm <sup>2</sup> |
|                            |                           | 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 | 4 m                    |

## Mechanical data

|   |   |
|---|---|
| Use                                     | EDV (UPS)   |
| Coding                                  | P   |
| Variable coding                         | No  |
| Marking                                 | L ⊕ N   |
| Potential marking                       | L ⊕ N   |
| 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                              | H05Z1Z1-F 3G2.5   |
| 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                              | red  |
| 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                          | 119.745 MJ   |
| Connector color                    | red  |
| 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                             | 601.3 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     | DE            |
| GTIN                  | 4055143486347 |
| 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                     |          |                  | Declarations of conformity and manufacturer's declarations |          |                  |
|---------------------------------------|----------|------------------|--|----------|------------------|
|                                       |          |                  |  |          |                  |
| Approval                              | Standard | Certificate Name | Approval   | Standard | Certificate Name |
| CCA<br>DEKRA Certification B.V.       | EN 61535 | NTR NL-7972      | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 61535 | 71-123834        | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |

**Downloads**

**Environmental Product Compliance**

|  |   |
|--|---|
| Compliance Search                                    |   |
| Environmental Product Compliance<br>771-9973/217-402 | ↓ |

**Documentation**

|                  |            |                 |   |
|------------------|------------|-----------------|---|
| Bid Text         |            |                 |   |
| 771-9973/217-402 | 19.02.2019 | xml<br>3.00 KB  | ↓ |
| 771-9973/217-402 | 05.12.2014 | doc<br>26.00 KB | ↓ |

**CAD/CAE-Data**

|                                  |   |                                    |   |
|----------------------------------|---|------------------------------------|---|
| CAD data                         |   | CAE data                           |   |
| 2D/3D Models<br>771-9973/217-402 | ↓ | WSCAD Universe<br>771-9973/217-402 | ↓ |

## 1 Compatible Products

### 1.2 Optional Accessories

#### 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