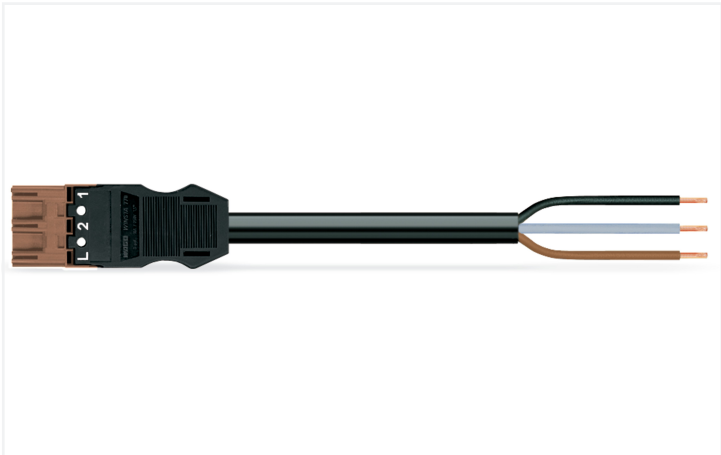
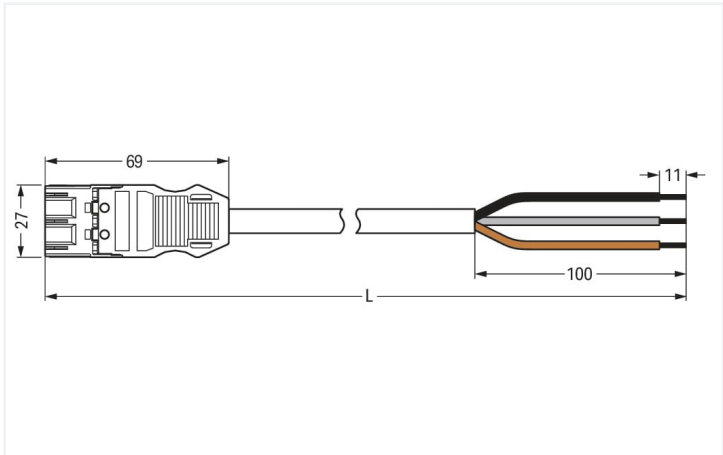




Color: ■ brown



Dimensions in mm

Cable assembly WINSTA® MIDI rated current 16 A

The WINSTA® MIDI cable assembly with protection against mismatching provides the foundation for installation of fine-stranded and solid conductors. Our pluggable installation connectors with spring pressure connection technology function entirely without screw connections. They allow fast, efficient, error-free installation in numerous possible uses. 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 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!)). WINSTA® MIDI pluggable installation connectors with S coding in brown are primarily used in AC systems. The WINSTA® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates exemplary electrification. Thanks to the included test slot, connections can be checked even when they are plugged in. This saves time, labor, and money. This product meets all the mandatory fire protection requirements of fire class E; as a result it can be used in areas where fire safety is relevant. Not using halogen additives in the manufacture of this cable assembly significantly increases fire safety and minimises environmental contamination.

Fast, secure pluggable connections – cable assemblies from WAGO

A plug and a free end are provided. The WINSTA® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Now you can also cut installation costs without compromising safety and quality: with marking eliminates the need for servicing and prevents unnecessary downtime.

- effective protection against mismatching
- simple circuits
- with S coding for AC applications of distributed components
- 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                                                                        |    |  |
| Overvoltage category       | III   | III                                                                                   | II |  |
| Pollution degree           | 3     | 2                                                                                     | 2  |  |
| Nominal voltage            | 250 V | -                                                                                     | -  |  |
| Rated surge voltage        | 4 kV  | -                                                                                     | -  |  |
| Rated current              | 16 A  | -                                                                                     | -  |  |
| General information        |       |                                                                                       |    |  |
| Note on contact resistance |       | approx. 1 mΩ of contact resistance<br>approx. 0.25 mΩ contact transition plug/ socket |    |  |



| Connection data            |                           |                                 |                     |
|----------------------------|---------------------------|---------------------------------|---------------------|
| Total number of potentials | 3                         | Connection 1                    |                     |
| Conductor preparation      | ultrasonically tip-bonded | Strip length                    | 11 mm / 0.43 inches |
|                            |                           | Pole number                     | 3                   |
|                            |                           | Wire cross-section              | 1.5 mm²             |
|                            |                           | Strip length (outer insulation) | 100 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  |  | 7 m                    |  |

| Mechanical data                         |  |                                                                                                               |  |
|-----------------------------------------|--|---------------------------------------------------------------------------------------------------------------|--|
| Use                                     |  | Switching function                                                                                            |  |
| Coding                                  |  | S                                                                                                             |  |
| Variable coding                         |  | No                                                                                                            |  |
| Marking                                 |  | 1 2 L                                                                                                         |  |
| Potential marking                       |  | 1 2 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                         |  | Plug - free end                                                                                               |  |
| Type of pre-assembled cable             |  | Connecting cable                                                                                              |  |
| Cable type                              |  | H05Z1Z1-F 3x1.5                                                                                               |  |
| Protection type                         |  | IP20; When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!) |  |
| Suitable                                |  | for distribution connectors; series and two-way circuits                                                      |  |

| 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                              | brown                                   |                                                                          |
| 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                          | 209.588 MJ                              |                                                                          |
| Connector color                    | brown                                   |                                                                          |
| Strain relief color                | black                                   |                                                                          |
| Printing color of strain relief    | white                                   |                                                                          |
| Sheathed cable color               | black                                   |                                                                          |
| Printing color of sheathed cable   | white                                   |                                                                          |
| Halogen-free                       | Yes                                     |                                                                          |
| Silicon-free                       | Yes                                     |                                                                          |
| Sheath material                    | Halogen-free                            |                                                                          |
| Rubber cable                       | No                                      |                                                                          |
| Weight                             | 692.1 g                                 |                                                                          |
| Copper weight of the pipe          | 0.043 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 9.0              | EC002587      |  |
| ETIM 8.0              | EC002587      |  |
| PU (SPU)              | 1 pcs         |  |
| Packaging type        | unpacked      |  |
| Country of origin     | DE            |  |
| GTIN                  | 4050821311041 |  |
| Customs tariff number | 85444290900   |  |

| 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 | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| CCA<br>DEKRA Certification B.V.                                                                                                                                        | EN 61535 | NTR NL-7355      | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| KEMA/KEUR<br>DEKRA Certification B.V.                                                                                                                                  | EN 61535 | 71-123834        |                                                            |          |                  |



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance  
771-9973/216-705

↓

Documentation

Bid Text

|                  |            |                 |   |
|------------------|------------|-----------------|---|
| 771-9973/216-705 | 19.02.2019 | xml<br>3.09 KB  | ↓ |
| 771-9973/216-705 | 13.08.2018 | doc<br>26.00 KB | ↓ |

CAD/CAE-Data

CAD data

2D/3D Models  
771-9973/216-705

↓

CAE data

WSCAD Universe  
771-9973/216-705

↓

ZUKEN Portal  
771-9973/216-705

↓

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.: [770-360](#)  
Lockout cap; for plugs; 5-pole; separable; yellow



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.: 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