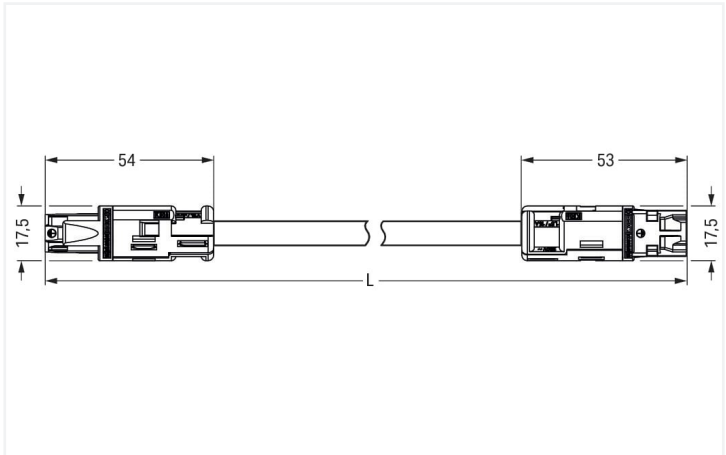




Color: ■ black



Dimensions in mm

Cable assembly WINSTA® RD rated current 20 A

The WINSTA® RD cable assembly with protection against mismatching is the pluggable solution for your application in control cabinets, for lighting connections or on PCBs. For greater security in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismatching. 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!)). This means that users' fingers will never come into contact with energised contact elements. This pluggable installation connector is used for electrical currents up to 20 A. Thus the product is especially suitable for high power loads. WINSTA® RD: Solutions from this product line fit into drill holes and conduits with diameters up to 20 mm. According to the European CPR, the fire class of the cables used in construction is critical for the safety of buildings 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, secure pluggable connections – cable assemblies from WAGO

A socket and a plug are available. WINSTA® is the pluggable connection system that is perfectly tailored to the strict requirements of electrical installation. It ensures error-free installation of cables and components, quickly and reliably. Now you can also cut installation costs without compromising quality and safety: with strain relief hosting eliminates the need for servicing and prevents unnecessary downtime.

- protection against mismatching eliminates errors
- saves time, since no wiring is required at the construction site
- for any mains application
- custom-engineered solutions
- rapid, structured electrical 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 |                            |                                                                                          |
| Pollution degree     |  | 3              | 2   | 2  | Note on contact resistance | approx. 1 mΩ of contact resistance<br>approx. 0.25 mΩ contact transition plug/<br>socket |
| Nominal voltage      |  | 250 V          | -   | -  |                            |                                                                                          |
| Rated surge voltage  |  | 4 kV           | -   | -  |                            |                                                                                          |
| Rated current        |  | 20 A           | -   | -  |                            |                                                                                          |



| Connection data                         |                                                                                                                                                                                                  |                                                                                                                                                                                |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total number of potentials              | 3                                                                                                                                                                                                | <div>Connection 1</div> <div>Pole number3</div> <div>Sheathed cable diameter9.2 ... 11.4 mm</div> <div>Wire cross-section2.5 mm²</div> <div>Connection typeSocket - Plug</div> |
| PE function                             | Preceding PE contact                                                                                                                                                                             |                                                                                                                                                                                |
|                                         |                                                                                                                                                                                                  |                                                                                                                                                                                |
|                                         |                                                                                                                                                                                                  |                                                                                                                                                                                |
|                                         |                                                                                                                                                                                                  |                                                                                                                                                                                |
| Physical data                           |                                                                                                                                                                                                  |                                                                                                                                                                                |
| Width                                   | 17.5 mm / 0.689 inches                                                                                                                                                                           |                                                                                                                                                                                |
| Height                                  | 17.5 mm / 0.689 inches                                                                                                                                                                           |                                                                                                                                                                                |
| Total length                            | 7 m                                                                                                                                                                                              |                                                                                                                                                                                |
|                                         |                                                                                                                                                                                                  |                                                                                                                                                                                |
| Mechanical data                         |                                                                                                                                                                                                  |                                                                                                                                                                                |
| Application                             | General mains applications                                                                                                                                                                       |                                                                                                                                                                                |
| Coding                                  | A                                                                                                                                                                                                |                                                                                                                                                                                |
| Variable coding                         | No                                                                                                                                                                                               |                                                                                                                                                                                |
| Marking                                 | L N                                                                                                                                                                                              |                                                                                                                                                                                |
| Mating force of a plug-in connection    | Approx. 30 ... 70 N (depending on pole number)                                                                                                                                                   |                                                                                                                                                                                |
| Retention force of a plug-in connection | when locked: > 80N                                                                                                                                                                               |                                                                                                                                                                                |
| Unmating force of a plug-in connection  | Unlocked: approx. 30 ... 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 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 incorrectly rotated<br>c.) plugging while laterally staggered |                                                                                                                                                                                |
| Locking of plug-in connection           | Locking lever                                                                                                                                                                                    |                                                                                                                                                                                |
|                                         |                                                                                                                                                                                                  |                                                                                                                                                                                |
| Material data                           |                                                                                                                                                                                                  |                                                                                                                                                                                |
| Note (material data)                    | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a>                                                                           |                                                                                                                                                                                |
| Color                                   | black                                                                                                                                                                                            |                                                                                                                                                                                |
| Insulation material                     | Polyamide (PA66)                                                                                                                                                                                 |                                                                                                                                                                                |
| Fire class per EN 50575                 | E <sub>ca</sub>                                                                                                                                                                                  |                                                                                                                                                                                |
| Contact material                        | Copper or copper alloy; surface-treated                                                                                                                                                          |                                                                                                                                                                                |
| Contact plating                         | Tin                                                                                                                                                                                              |                                                                                                                                                                                |
| Fire load                               | 208.82 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                                  | 1043.5 g                                                                                                                                                                                         |                                                                                                                                                                                |



| Material data             |  |            |
|---------------------------|--|------------|
| 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                  |  | 4045454321093 |
| 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 |
| CCA<br>DEKRA Certification B.V.                                                                                                                                                                                                                                                                                                                | EN 61535 | NTR NL-7969 | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| CCA<br>DEKRA Certification B.V.                                                                                                                                                                                                                                                                                                                | EN 61984 | NTR NL-7848 | UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| KEMA/KEUR<br>DEKRA Certification B.V.                                                                                                                                                                                                                                                                                                          | EN 61535 | 71-123229   |                                                            |          |                  |
| KEMA/KEUR<br>DEKRA Certification B.V.                                                                                                                                                                                                                                                                                                          | EN 61984 | 71-114944   |                                                            |          |                  |
| KEMA/KEUR<br>DEKRA Certification B.V.                                                                                                                                                                                                                                                                                                          | -        | 2118353.01  |                                                            |          |                  |



|                                  |                  |  |  |
|----------------------------------|------------------|--|--|
| Downloads                        |                  |  |  |
| Environmental Product Compliance |                  |  |  |
| Compliance Search                |                  |  |  |
| Environmental Product Compliance | 774-9993/017-701 |  |  |
|                                  |                  |  |  |

|                  |            |                 |  |
|------------------|------------|-----------------|--|
| Documentation    |            |                 |  |
| Bid Text         |            |                 |  |
| 774-9993/017-701 | 19.02.2019 | xml<br>2.97 KB  |  |
| 774-9993/017-701 | 08.01.2015 | doc<br>23.00 KB |  |

|                   |                  |  |  |
|-------------------|------------------|--|--|
| CAD/CAE-Data      |                  |  |  |
| CAE data          |                  |  |  |
| EPLAN Data Portal | 774-9993/017-701 |  |  |
|                   |                  |  |  |
| WSCAD Universe    | 774-9993/017-701 |  |  |
|                   |                  |  |  |