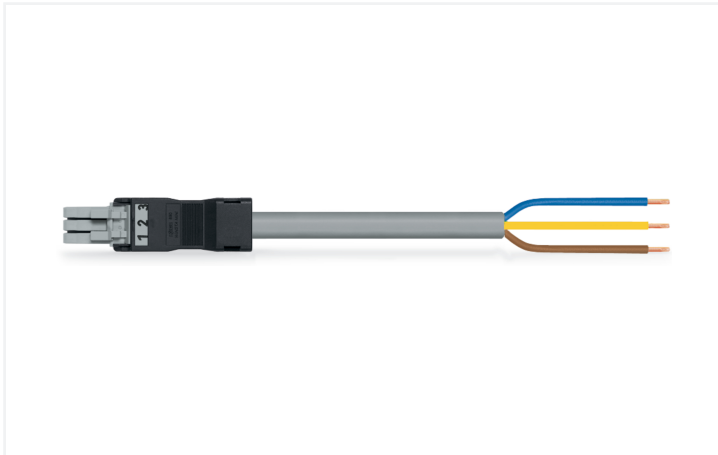


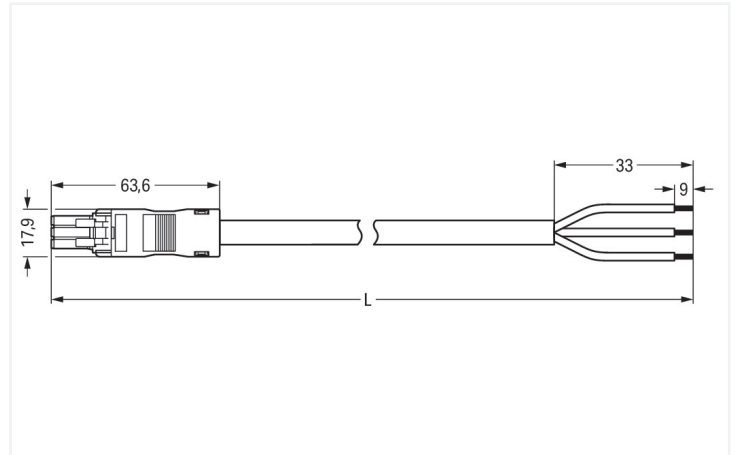
Data Sheet | Item Number: 891-8993/106-603

pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. B; (H)
05VV-F 3x1,5 mm²; 6 m; 1,50 mm²; gray

<https://www.wago.com/891-8993/106-603>



Color: ■ gray



Dimensions in mm

Cable assembly WINSTA® MINI with protection type IP40

The WINSTA® MINI cable assembly with protection type IP40 is the pluggable solution for your application in control cabinets, for lighting connections or on PCBs. The pluggable installation connectors with spring pressure connection technology function entirely 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 mismatching. The pluggable installation connector is protected against ingress by solid granular objects with a diameter below 1 mm in accordance with protection type IP40. Pluggable installation connectors with B coding from the WINSTA® MINI line are available in gray, light green, or pink, allowing you to distinguish different circuits, for example for pumps, lighting, or sun blinds. Your own pole marking is possible as well. WINSTA® MINI satisfies the demand for miniaturisation. Our smallest pluggable connection system is very good for lights, for example, since as a result of LED technology; due to complex systems, these offer less and less space for the connection technology. According to the European CPR, the fire class of the cables used in construction is essential for the safety of buildings, too. For houses with medium-level safety requirements, cable assemblies with fire class E are suitable.

Fast, secure pluggable connections – cable assemblies from WAGO

A socket and a free end are provided. WINSTA® is the pluggable connection system that is ideally tailored to the strict requirements of electrical installation. It allows fast, secure and, above all, error-free installation of components and cables. Now you can also cut installation costs without compromising safety and quality: with strain relief hosting 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 mm²
- for automation controllers
- ready for immediate use
- quick replacement of defective units during ongoing operation

Notes

Note

Variants:

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

Other pole markings

Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

Electrical data

| Ratings per | IEC/EN 60664-1 | | | Ratings per IEC/EN – Notes | |
|---------------------------------|----------------|-----|----|----------------------------|----------------------|
| Overvoltage category | III | III | II | Rated current (note) | 13 A for 3-pole load |
| Pollution degree | 3 | 2 | 2 | | |
| Nominal voltage | 250 V | - | - | | |
| Rated impulse withstand voltage | 4 kV | - | - | | |
| Rated current | 16 A | - | - | | |

General information

| | |
|----------------------------|--|
| Note on contact resistance | approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/ socket |
|----------------------------|--|

Connection Data

| | | | |
|----------------------------|---------------------------|---------------------------------|---------------------|
| Total number of potentials | 3 | Connection 1 | |
| Conductor preparation | ultrasonically tip-bonded | Strip length | 9 mm / 0.35 inches |
| | | Pole number | 3 |
| | | Wire cross-section | 1.5 mm ² |
| | | Strip length (outer insulation) | 33 mm |
| | | Connection type | Socket - free end |

Physical data

| | |
|--------------|------------------------|
| Pin spacing | 4.4 mm / 0.173 inches |
| Width | 17.9 mm / 0.705 inches |
| Height | 14 mm / 0.551 inches |
| Total length | 6 m |

Mechanical data

| | |
|---|---|
| Use | Control technology |
| Coding | B |
| Variable coding | No |
| Marking | 1 2 3 |
| Potential marking | 1 2 3 |
| 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 | H05VV-F 3x1.5 |
| Protection type | IP40 |

Plug-in connection

| | |
|-------------------------------|--|
| Mismating protection | Yes |
| Note on mismating protection | All WINSTA® components are 100% protected against mismating when: a.) plugging different numbers of poles b.) plugging while rotated 180 c.) plugging while laterally staggered 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) | Information on material specifications can be found here |
| Color | gray |
| Insulation material (main housing) | Polyamide (PA66) |
| Fire class per EN 50575 | E _{ca} |
| Contact material | Copper or copper alloy; surface-treated |
| Contact Plating | Tin |
| Fire load | 0.186 MJ |
| Connector color | gray |
| Strain relief color | black |
| Sheathed cable color | gray |
| Printing color of sheathed cable | black |
| Halogen-free | No |
| Silicon-free | Yes |
| Sheath material | PVC |
| Rubber cable | No |
| Weight | 600.6 g |
| Copper weight of the raw cable | 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) Insulating parts for temperatures ≤ 105 °C |

Commercial data

| | |
|-----------------------|---------------|
| PU (SPU) | 1 pcs |
| Packaging type | unpacked |
| Country of origin | PL |
| GTIN | 4055143514965 |
| 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 |
|------------------------|-------------------------|

Downloads

Environmental Product Compliance

Compliance Search

| | |
|--|-------------------|
| Environmental Product Compliance 891-8993/106-603 | ↓ |
|--|-------------------|

Documentation

Bid Text

| | | | |
|------------------|------------|-----------------|-------------------|
| 891-8993/106-603 | 19.02.2019 | xml 3.02 KB | ↓ |
| 891-8993/106-603 | 02.12.2014 | doc 25.50 KB | ↓ |

CAD/CAE-Data

CAE data

| | |
|---------------------------------------|-------------------|
| EPLAN Data Portal 891-8993/106-603 | ↓ |
|---------------------------------------|-------------------|

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.: 897-2001

Protective cap; Type1; 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