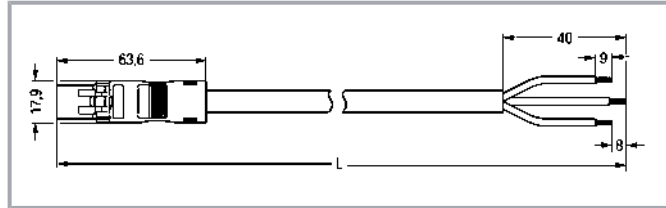


Data sheet | Item number: 891-8993/216-201

pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. A;
H05Z1Z1-F 3G 1.5 mm²; 2 m; 1,50 mm²; black

www.wago.com/891-8993_216-201



Item description

Cable assembly **WINSTA®** MINI with protection against mismating

The **WINSTA®** MINI cable assembly 3-pole supports rapid, correct installation. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish connections according to many different requirements in seconds. For greater security in electrical installations, the pluggable installation connector is provided with mechanical protection against mismating. Standard mains applications for almost any domain of use can be realised with **WINSTA®** MINI pluggable installation connectors with A coding. Where space is tight, our smallest pluggable connection system, **WINSTA®** MINI, consistently displays its advantageous properties. It is very compact, and, thanks to Push-in CAGE CLAMP® spring pressure connection technology, it additionally can be installed quickly, since the connection is low-maintenance and requires no screw connections. This product meets all the relevant safety requirements of fire class E; therefore it can be used in domains where fire safety is relevant. Not using halogen additives in the production of this cable assembly noticeably improves fire safety and minimises environmental pollution.

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

The cable assembly is provided with a plug and a free end. The **WINSTA®** Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Now you can also lower installation costs without compromising quality and safety: The **WINSTA®** MINI pluggable installation connector with marking reduces the need for servicing and prevents unnecessary downtime.

- effective protection against mismating
- consistent IP40 protection
- for any mains application
- custom-engineered solutions
- convenient installation and commissioning

Subject to changes. Please also observe the further product documentation!

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



Data Notes

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

Electrical data

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

IEC Approvals

| | |
|-------------------------------|---|
| Ratings per | IEC/EN 60664-1 |
| Rated voltage (III / 3) | 250 V |
| Rated impulse voltage (III/3) | 4 kV |
| Rated current | 16 A |
| Legend (ratings) | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

Ratings per UL

| | |
|------------------------|---|
| Note for the US market | Some versions may also be used for current interruption in accordance with the UL certificate in select applications with currents below 5 A and voltages up to 600 V. For further information, please contact your local sales office. |
|------------------------|---|

Connection data

| | |
|----------------------------|---------------------------|
| Total number of potentials | 3 |
| PE function | Preceding PE contact |
| Conductor preparation | ultrasonically tip-bonded |

Connection 1

| | |
|---------------------------------|---------------------|
| Strip length | 9 mm / 0.35 inch |
| Number of poles | 3 |
| Sheathed cable diameter | 7.4 ... 9.4 mm |
| Wire cross-section | 1.5 mm ² |
| Strip length (outer insulation) | 40 mm |
| Connection type | Plug - Free end |

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Physical data

| | |
|--------------|---------------------|
| Pin spacing | 4.4 mm / 0.173 inch |
| Total length | 2 m |

Mechanical data

| | |
|---|---|
| Application | General mains applications |
| Coding | A |
| Variable coding | No |
| Marking | L \perp N |
| Potential Marking | L \perp 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 3G1.5 |
| Protection type | IP20; IP40 when mated |

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 |

Material data

| | |
|-------------------------|--|
| Note (material data) | Information on material data can be found here |
| Color | black |
| Insulation material | Polyamide (PA66) |
| Fire class per EN 50575 | E _{ca} |
| Contact material | Copper or copper alloy; surface-treated |

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| | |
|----------------------------------|--------------|
| Fire load | 59.724 MJ |
| Connector color | black |
| Printing color of mating face | white |
| Strain relief color | black |
| Sheathed cable color | black |
| Printing color of sheathed cable | white |
| Halogen-free | Yes |
| Sheath material | Halogen-free |
| Weight | 201.1 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 | PVC cable for temperatures ≤ 70 °C (including halogen-free) Insulating parts for temperatures ≤ 105 °C |

Commercial data

| | |
|-------------------------------------|---------------|
| PU (SPU) | 1 Stück |
| Packaging type | unpacked |
| Country of origin VKOrg Germany | PL |
| GTIN | 4055143397629 |
| Customs tariff number VKOrg Germany | 85444290900 |

Approvals / Certificates

Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|---------------------------------------|--------------------------|------------------|
|  | CCA DEKRA Certification B.V. | EN 61535 | NTR NL-7823 |
|  | KEMA/KEUR DEKRA Certification B.V. | EN 61535 | 71-112995 |

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Required accessories

Locking levers


| | | |
|--|--|--|
| Locking system | | |
| Item no.: 890-111 | | www.wago.com/890-111 |
| Locking lever; for flying leads; for tool operation; black | | |
| Item no.: 890-101 | | www.wago.com/890-101 |
| Locking lever; for manual operation; black | | |
| Item no.: 890-121 | | www.wago.com/890-121 |
| Locking lever; for manual operation; white | | |
| Item no.: 890-131 | | www.wago.com/890-131 |
| Locking lever; for flying leads; for tool operation; white | | |

Optional accessories

Mounting

| | | |
|---|--|--|
| Mounting accessories | | |
| Item no.: 890-310 | | www.wago.com/890-310 |
| Mounting carrier; 2- to 5-pole; for flying leads; black | | |
| Item no.: 890-311 | | www.wago.com/890-311 |
| Mounting carrier; 2- to 5-pole; for flying leads; white | | |

Cover

| | | |
|---|---------------------------|--|
| Other | | |
|  | Item no.: 897-2001 | www.wago.com/897-2001 |
| Protective cap; Type1; for sockets and plugs; PVC; red | | |

Downloads

Documentation

Bid Text

| | | | |
|------------------|-------------|---------|----------|
| 891-8993/216-201 | 2019 Feb 19 | xml | Download |
| X81 - Datei | | 3.1 kB | |
| 891-8993/216-201 | 2014 Nov 26 | doc | Download |
| doc - Datei | | 26.1 kB | |

CAD files

CAE data

Subject to changes. Please also observe the further product documentation!

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| | | |
|---------------------------------|-----|----------|
| WSCAD Universe 891-8993/216-201 | URL | Download |
| WSCAD Universe 891-8993/216-201 | URL | Download |
| ZUKEN Portal 891-8993/216-201 | URL | Download |
| CAD data | | |
| 2D/3D Models 891-8993/216-201 | URL | Download |

Environmental Product Compliance

Compliance Search

| | | |
|---|-----|----------|
| Environmental Product Compliance 891-8993/216-201 | URL | Download |
| pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. A; H05Z1Z1-F 3G 1.5 mm ² ; 2 m; 1,50 mm ² ; black | | |

Installation Notes

Product family

WINSTA® MINI

[Show all products from the family](#)

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