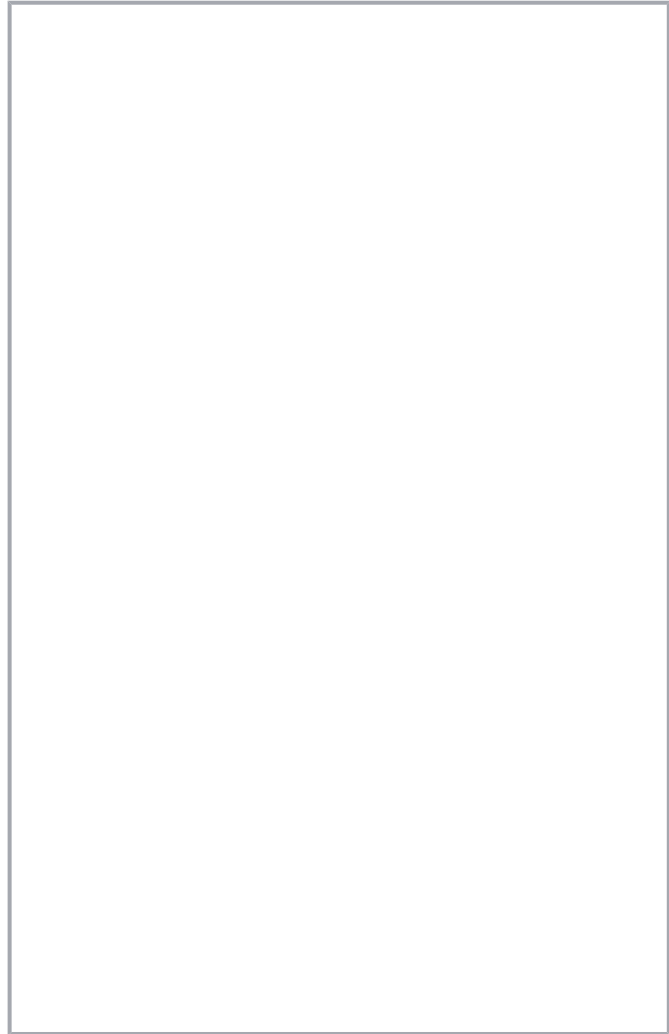
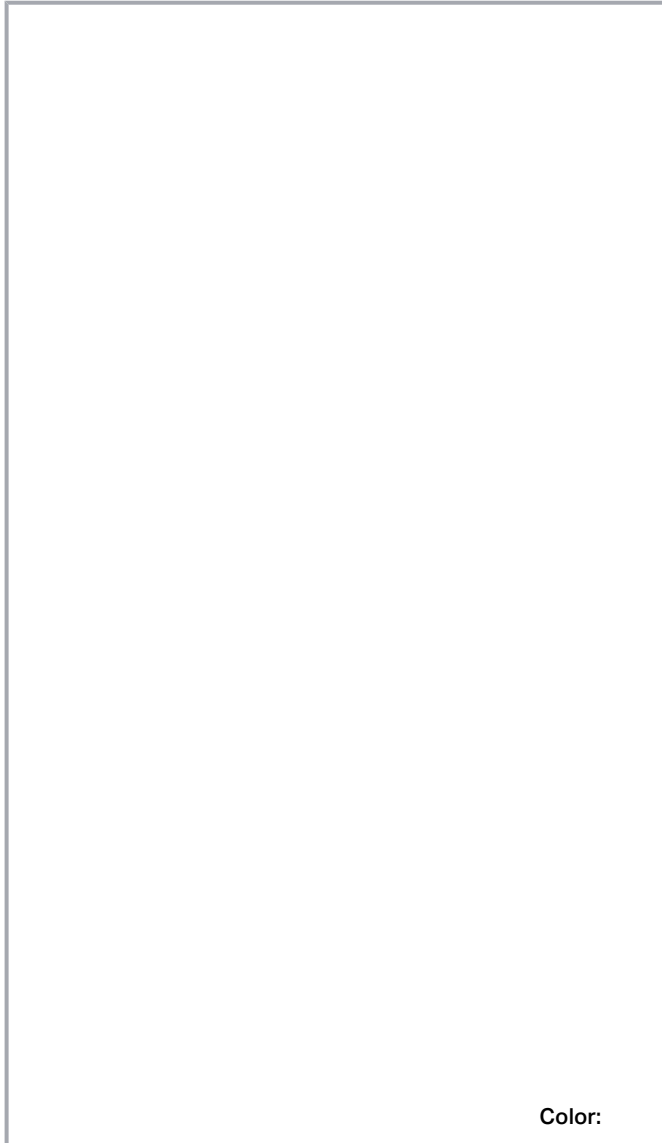


Data sheet | Item number: 770-215
Plug; 5-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-215



Color:

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

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Item description

Male connector/plug *WINSTA*® MIDI with protection against mismatching

The *WINSTA*® MIDI male connector/plug A coding allows installation of fine-stranded and solid conductors. Our pluggable installation connectors with spring pressure connection technology work completely without screw connections. They allow flexible, error-free installation in numerous applications. The coding options reduce installation errors, allowing fast, secure wiring of all components. The pluggable installation connector offers protection against contact with live components in accordance with protection type IP20 (When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). General mains applications for almost any domain of use can be implemented with *WINSTA*® MIDI pluggable installation connectors with A coding. This pluggable installation connector can be employed for a load of up to 25 A. Thus, it can also be used for high power loads. The *WINSTA*® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates safe electrification. Due to the integrated test slot, connections can be checked even when they are plugged in. That saves time and reduces installation labor and costs.

WINSTA® MIDI solutions for your electrical installation – protected against mismatching and maintenance-free

The *WINSTA*® Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with *WINSTA*® MIDI pluggable installation connectors with marking from WAGO.

- protection against mismatching eliminates errors
- simple circuits
- suitable for any application
- exact dimensions
- convenient installation and commissioning

Data

Electrical data

Ratings per IEC/EN

| | |
|-------------------------------|---|
| Ratings per | IEC/EN 60664-1 |
| Nominal voltage (III/3) | 400 V |
| Rated impulse voltage (III/3) | 6 kV |
| Rated current | 25 A |
| Legend (ratings) | (III / 3) ± Overvoltage category III / Pollution degree 3 |

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

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Ratings per UL 1977

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 16 A and voltages up to 600 V. For further information, please contact your local sales office.

| | |
|-------------------------|-------|
| Rated voltage (UL 1977) | 600 V |
| Rated current UL 1977 | 23 A |

General information

Note on contact resistance

approx. 1 mΩ of contact resistance
approx. 0.25 mΩ contact transition plug/socket

Connection data

| | |
|----------------------------|----------------------|
| Connection points | 10 |
| Total number of potentials | 5 |
| PE function | Preceding PE contact |

Connection 1

| | |
|--|--|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Operating tool Push-in |
| Nominal cross-section | 4 mm ² / 12 AWG |
| Solid conductor | 0.5 ... 4 mm ² / 20 ... 12 AWG |
| Solid conductor; push-in termination | 1.5 ... 4 mm ² / 16 ... 12 AWG |
| Stranded conductor | 0.5 ... 2.5 mm ² / 20 ... 14 AWG |
| Fine-stranded conductor | 0.5 ... 4 mm ² / 20 ... 12 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 ... 1.5 mm ² / 20 ... 16 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm ² / 20 ... 14 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 1.5 mm ² / 16 AWG |
| Strip length | 9 mm / 0.35 inches |
| Pole number | 5 |
| Conductor entry direction to mating direction | 0° |

Physical data

| | |
|-------------|----------------------|
| Pin spacing | 10 mm / 0.394 inches |
| Width | 50 mm / 1.969 inches |

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| | |
|--------|------------------------|
| Height | 12.9 mm / 0.508 inches |
| Depth | 37.5 mm / 1.476 inches |

Mechanical Data

| | |
|---|---|
| Application | General mains applications |
| Coding | A |
| Variable coding | Yes |
| Marking | L3 L2 L1 \perp N |
| Potential marking | L3 L2 L1 \perp N |
| Mating force of a plug-in connection | approx. 20 ... 70 N (depending on pole number) |
| Retention force of a plug-in connection | Locked: > 80 N |
| Unmating force of a plug-in connection | Unlocked: approx. 20 ... 70 N (depending on pole number) |
| Number of mating cycles | 200, without resistive load |
| Protection type | IP20; When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!) |

Plug-in connection

| | |
|------------------------------------|--|
| Contact type (pluggable connector) | Male connector/plug |
| Connector (connection type) | for conductor |
| Mismating protection | Yes |
| Note on mismating protection | All <i>WINSTA</i> [®] 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 |
|----------------------|--|

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



| | |
|-----------------------------|---|
| Color | black |
| Cover color | gray |
| Material group | I |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Clamping spring material | Chrome-nickel spring steel (CrNi) |
| Contact material | Copper or copper alloy; surface-treated |
| Contact plating | Tin |
| Fire load | 0.412 MJ |
| Weight | 16.3 g |

Environmental requirements

| | |
|--|--|
| Processing temperature | -5 ... +40 °C |
| Continuous operating temperature | -35 ... +85 °C |
| Note on continuous operating temperature | Insulating parts for temperatures ≤ 105 °C |

Commercial data

| | |
|-----------------------|---------------|
| Product Group | 20 (Winsta) |
| eCl@ss 10.0 | 27-44-06-05 |
| eCl@ss 9.0 | 27-44-06-05 |
| ETIM 8.0 | EC002560 |
| ETIM 7.0 | EC002560 |
| PU (SPU) | 50 pcs |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4044918254557 |
| Customs tariff number | 85366990990 |

Environmental Product Compliance

| | |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---------------------------------|--------------------------|------------------|
| | CCA DEKRA Certification B.V. | EN 61535 | 71- 123228 |

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



| | | |
|---|-----------|-----------|
| CCA DEKRA Certification B.V. | IEC 61535 | NL -84761 |
| cURus Underwriters Laboratories Inc. | UL 1977 | E45171 |
| cURus Underwriters Laboratories Inc. | UL 1059 | E 45172 |
| VDE VDE Prüf- und Zertifizierungsinstitut | EN 61984 | 40002889 |

Declarations of conformity and manufacturer's declarations

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---|--------------------------|------------------|
| | EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

Approvals for marine applications

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---|--------------------------|--------------------------|
| | ABS American Bureau of Shipping | - | 19- HG1868589- PDA |
| | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE00001Z6 |
| | LR Lloyds Register | IEC 61984 | LR22429487TA |

Counterpart

| | |
|---|--|
| Item no.770-105 Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-105 |
| Item no.770-305 Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-305 |
| Item no.770-205 Socket; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-205 |
| Item no.770-405 Socket; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-405 |
| Item no.770-609 3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; black | www.wago.com/770-609 |
| Item no.770-611 Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 2 outputs; with cable connection on the input side; black | www.wago.com/770-611 |
| Item no.770-621 T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; black | www.wago.com/770-621 |
| Item no.770-622 | www.wago.com/770-622 |

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| | |
|---|--|
| T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black | 622 |
| Item no.770-640 Three-phase to single-phase distribution connector; with phase selection; 5-pole/3-pole; Cod. A; 1 input; 5 outputs; black | www.wago.com/770-640 |
| Item no.770-659 3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; white | www.wago.com/770-659 |
| Item no.770-705 Snap-in socket; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-705 |
| Item no.770-705/009-000 Snap-in socket; with protruding mating face; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-705/009-000 |
| Item no.770-805 Socket for PCBs; straight; 5-pole; Cod. A; black | www.wago.com/770-805 |
| Item no.770-805/011-000 Socket for PCBs; angled; 5-pole; Cod. A; black | www.wago.com/770-805/011-000 |
| Item no.771-9995/006-101 pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. A; H05VV-F 5G 1.5 mm ² ; 1 m; 1,50 mm ² ; black | www.wago.com/771-9995/006-101 |
| Item no.772-262 Tap-off module; for flat cable; 5 x 2.5 mm ² + 2 x 1.5 mm ² ; 5-pole; Cod. A; with cable connection on the output side; black | www.wago.com/772-262 |
| Item no.771-9995/106-101 pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm ² ; 1 m; 1,50 mm ² ; black | www.wago.com/771-9995/106-101 |
| Item no.899-631/187-000 Distribution box; Three-phase current (400 V); 1 input; 5 outputs; Cod. A; MIDI; black | www.wago.com/899-631/187-000 |
| Item no.899-631/100-000 Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 7 outputs; Cod. A; MIDI; black | www.wago.com/899-631/100-000 |
| Item no.899-631/346-000 Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 4 outputs; Cod. A; MIDI; black | www.wago.com/899-631/346-000 |

Required accessories

Strain relief

| | |
|--|--|
| Strain relief housing | |
| Item no.: 770-505/021-000 Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; black | www.wago.com/770-505/021-000 |
| Item no.: 770-505/023-000 Strain relief housing; 5-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; black | www.wago.com/770-505/023-000 |
| Item no.: 770-505 Strain relief housing; 5-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; black | www.wago.com/770-505 |
| Item no.: 770-515 Strain relief housing; 5-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; white | www.wago.com/770-515 |

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

**Item no.: 770-515/023-000**

Strain relief housing; 5-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; white

www.wago.com/770-515/023-000**Item no.: 770-515/021-000**

Strain relief housing; 5-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; white

www.wago.com/770-515/021-000

Locking levers

Locking system

Item no.: 770-121

Locking lever; for flying leads; for manual operation; white

www.wago.com/770-121**Item no.: 770-131**

Locking lever; for flying leads; for tool operation; white

www.wago.com/770-131**Item no.: 770-101**

Locking lever; for flying leads; for manual operation; black

www.wago.com/770-101**Item no.: 770-111**

Locking lever; for flying leads; for tool operation; black

www.wago.com/770-111

Optional accessories

Mounting

Mounting accessories

Item no.: 770-320

Snap-in frame; 5-pole; 1.0 ... 3.0 mm; black

www.wago.com/770-320**Item no.: 770-321**

Snap-in frame; 5-pole; 0.5 ... 2.0 mm; black

www.wago.com/770-321**Item no.: 770-340**

Snap-in frame; 5-pole; 1.0 ... 3.0 mm; white

www.wago.com/770-340**Item no.: 770-341**

Snap-in frame; 5-pole; 0.5 ... 2.0 mm; white

www.wago.com/770-341

Tool

Wiring aid

Item no.: 770-100

Wiring aid; 2- to 5-pole; Plastic; orange

www.wago.com/770-100

Operating tool

Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719

Marking accessories

Marker

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Item no.: 770-450/000-002

Marker card; Plastic; yellow

www.wago.com/770-450/000-002

Item no.: 770-450/000-001

Marker card; Plastic; green

www.wago.com/770-450/000-001

Item no.: 770-450/000-005

Marker card; Plastic; red

www.wago.com/770-450/000-005

Item no.: 770-450

Marker card; Plastic; white

www.wago.com/770-450

Item no.: 770-450/000-006

Marker card; Plastic; blue

www.wago.com/770-450/000-006

Item no.: 770-450/000-012

Marker card; Plastic; orange

www.wago.com/770-450/000-012

Coding

Coding

Item no.: 770-401

Coding pin; for plugs; Plastic; gray

www.wago.com/770-401

Cover

Cover

Item no.: 770-360

Lockout cap; for plugs; 5-pole; separable; yellow

www.wago.com/770-360

Item no.: 897-2005

Protective cap; Type4; for sockets and plugs; PVC; red

www.wago.com/897-2005

Downloads

Documentation

Bid Text

| | | | |
|------------------------|--------------|---------------|----------|
| 770-215 X81 - Datei | 2019 年2月19 日 | xml 3.0 kB | Download |
|------------------------|--------------|---------------|----------|

| | | | |
|------------------------|-------------|----------------|----------|
| 770-215 doc - Datei | 2015 年6月8 日 | doc 24.1 kB | Download |
|------------------------|-------------|----------------|----------|

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CAD/CAE-Data

CAE data

| | | |
|---------------------------|---------------------|--------------------------|
| EPLAN Data Portal 770-215 | URL | Download |
| ZUKEN Portal 770-215 | URL | Download |
| WSCAD Universe 770-215 | URL | Download |

CAD data

| | | |
|----------------------|---------------------|--------------------------|
| 2D/3D Models 770-215 | URL | Download |
|----------------------|---------------------|--------------------------|

Environmental Product Compliance

Compliance Search

| | | |
|--|---------------------|--------------------------|
| Environmental Product Compliance 770-215 Plug; 5-pole; Cod. A; 4,00 mm ² ; black | URL | Download |
|--|---------------------|--------------------------|

Installation Notes

Conductor termination



1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm

To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

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

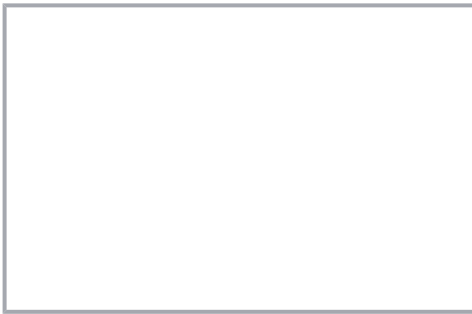


Insert the stripped solid conductor until it hits the backstop.



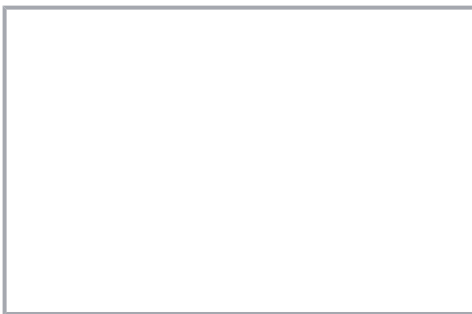
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

Conductor removal

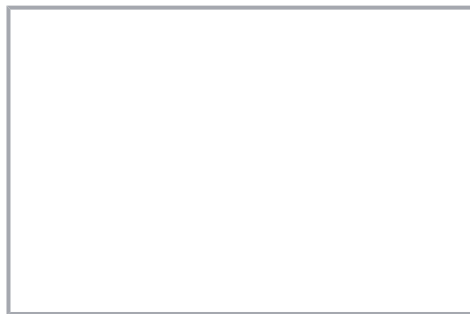


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

Installation



We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.



Latch the strain relief housing onto the plug /socket. Note the "TOP" inscription.

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



Prepare strain relief housing by snapping together upper and bottom part.



Tighten strain relief screw with screwdriver (2.5 mm blade width).

Product family

WINSTA® MIDI

[Show all products from the family](#)

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