

Data sheet | Item number: 770-205

Socket; 5-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-205



Color:

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

WAGO GmbH & Co. KG
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Item description

Female connector/socket WINSTA® MIDI rated current 25 A

The WINSTA® MIDI female connector/socket A coding allows installation of fine-stranded and solid conductors. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to various requirements in seconds. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector is protected 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!)). That results in the fact that users' fingers will never come into contact with electrified contact elements. The WINSTA® MIDI pluggable installation connector with A coding in black or white is usually used for general mains applications in power distribution. This pluggable installation connector can be used for electrical currents up to 25 A. Thus the product is especially suitable for high power loads. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is found in a variety of projects you can use for quick, easy, flexible, and secure installation.

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

WINSTA® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It allows fast, secure and, above all, error-free installation of components and cables. Choose durability and quality – the WINSTA® MIDI pluggable installation connector with protection against mismatching from WAGO makes the electrical installation of electrical components visibly easier.

- pluggable installation connectors with protection against mismatching
- pre-assembled versions
- with A coding for a large number of applications
- custom-engineered solutions
- quick replacement of defective units during ongoing operation

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 |

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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 |

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 |
| Height | 12.9 mm / 0.508 inches |

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| | |
|-------|------------------------|
| Depth | 37.5 mm / 1.476 inches |
|-------|------------------------|

Mechanical Data

| | |
|---|---|
| Application | General mains applications |
| Coding | A |
| Variable coding | Yes |
| Marking | N \perp L1 L2 L3 |
| Potential marking | N \perp L1 L2 L3 |
| 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) | Female connector/socket |
| 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 |
| Color | black |

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| | |
|-----------------------------|---|
| 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 | 0.3 MJ |
| Weight | 15.7 g |

Environmental requirements

| | |
|--|---|
| Processing temperature | -5 ... +40 °C |
| Continuous operating temperature | -35 ... +85 °C |
| Note on continuous operating temperature | Insulating parts for temperatures \leq 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 | 4044918252324 |
| 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 |
| | CCA | IEC 61535 | NL -84761 |

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DEKRA Certification B.V.

| | | |
|---|----------|----------|
| 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.770-115 Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-115 |
| Item no.770-215 Plug; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-215 |
| Item no.770-315 Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-315 |
| 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.770-609 3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; black | www.wago.com/770-609 |
| Item no.770-415 Plug; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-415 |
| Item no.770-622 T-distribution connector; 5-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; black | www.wago.com/770-622 |
| 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 |

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| | |
|--|--|
| Item no.770-659 3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; white | www.wago.com/770-659 |
| Item no.770-715 Snap-in plug; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-715 |
| Item no.770-815 Plug for PCBs; straight; 5-pole; Cod. A; black | www.wago.com/770-815 |
| Item no.770-715/007-000 Snap-in plug; with direct ground contact; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-715/007-000 |
| Item no.770-815/011-000 Plug for PCBs; angled; 5-pole; Cod. A; black | www.wago.com/770-815/011-000 |
| 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.771-9995/206-101 pre-assembled connecting cable; Eca; Plug/open-ended; 5-pole; Cod. A; H05VV-F 5G 1.5 mm ² ; 1 m; 1,50 mm ² ; black | www.wago.com/771-9995/206-101 |
| 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.899-631/187-000 Distribution box; Three-phase current (400 V); 1 input; 5 outputs; Cod. A; MIDI; black | www.wago.com/899-631/187-000 |
| Item no.899-631/105-000 Distribution box; Three-phase to single-phase current (400 V/230 V); 1 input; 6 outputs; Cod. A; MIDI; black | www.wago.com/899-631/105-000 |
| Item no.899-631/302-000 Distribution box; Three-phase to single-phase current (400 V/230 V); 2 inputs; 6 outputs; Cod. A, P; MIDI; black | www.wago.com/899-631/302-000 |
| 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

Cover

| | |
|--|--|
| Cover | |
| Item no.: 770-201 Lockout cap; 12-pole, separable; for sockets; Plastic; black | www.wago.com/770-201 |
| Item no.: 770-221 Lockout cap; 12-pole, separable; for sockets; Plastic; white | www.wago.com/770-221 |

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 |

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



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

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

Marking accessories

Marker

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

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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

Cover

Cover

Item no.: 897-2005
Protective cap; Type4; for sockets and plugs; PVC; red

www.wago.com/897-2005

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

Downloads**Documentation****Bid Text**

| | | | |
|------------------------|-------------|----------------|----------|
| 770-205 X81 - Datei | 19 Feb 2019 | xml 3.0 kB | Download |
| 770-205 doc - Datei | 8 Jun 2015 | doc 24.1 kB | Download |

CAD/CAE-Data

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CAD data

| | | |
|----------------------|---------------------|--------------------------|
| 2D/3D Models 770-205 | URL | Download |
|----------------------|---------------------|--------------------------|

CAE data

| | | |
|----------------------|---------------------|--------------------------|
| ZUKEN Portal 770-205 | URL | Download |
|----------------------|---------------------|--------------------------|

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|---------------------------|---------------------|--------------------------|
| EPLAN Data Portal 770-205 | URL | Download |
|---------------------------|---------------------|--------------------------|

| | | |
|------------------------|---------------------|--------------------------|
| WSCAD Universe 770-205 | URL | Download |
|------------------------|---------------------|--------------------------|

Environmental Product Compliance

Compliance Search

| | | |
|--|---------------------|--------------------------|
| Environmental Product Compliance 770-205 | URL | Download |
|--|---------------------|--------------------------|

Socket; 5-pole; Cod. A; 4,00 mm²; black

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.

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Insert the stripped solid conductor until it hits the backstop.



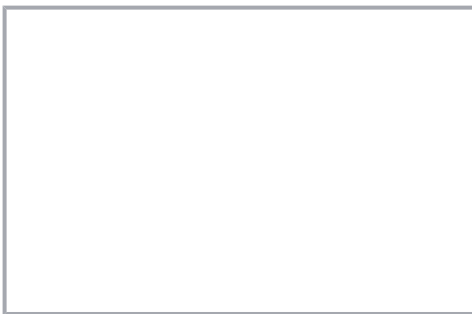
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

Conductor removal

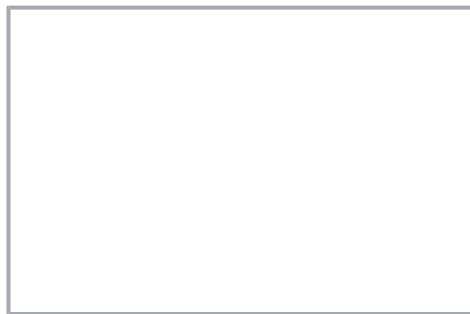


To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

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!