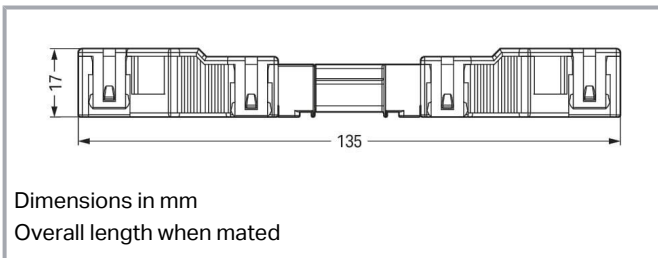
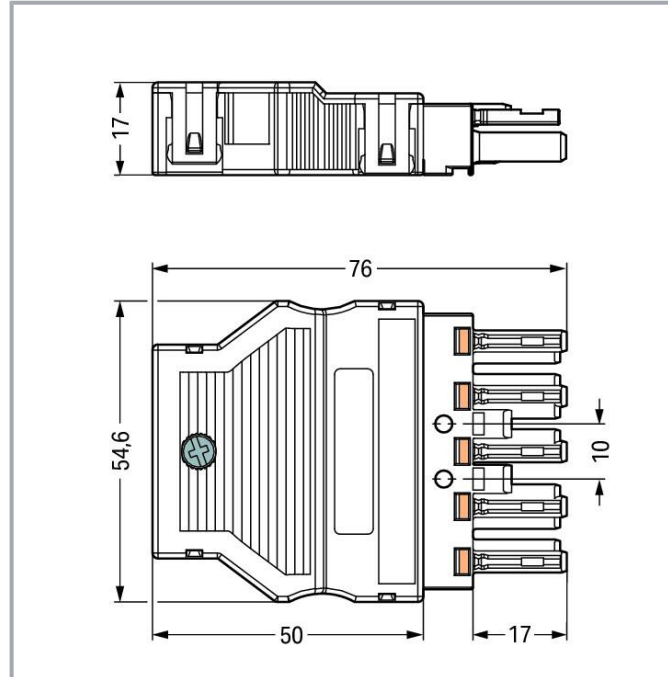
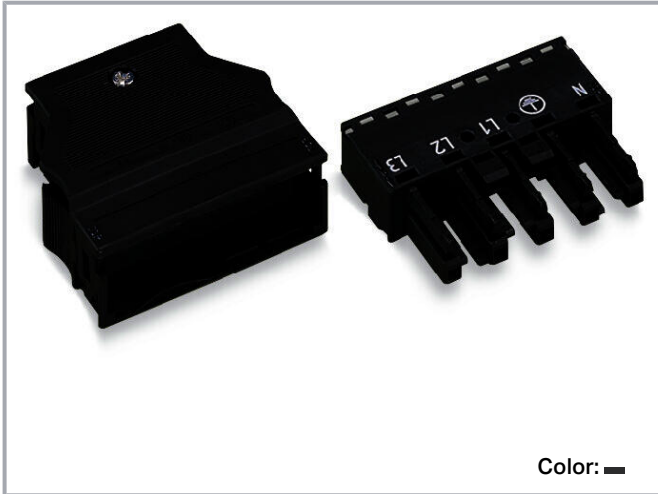


Data sheet | Item number: 770-305

Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black

www.wago.com/770-305



Item description

Female connector/socket WINSTA® MIDI 5-pole

The WINSTA® MIDI female connector/socket A coding is the pluggable solution for your application in control cabinets, for lighting connections or on PCBs. 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 next to no time. For greater security in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismatching. The pluggable installation connector is protected against ingress by solid objects 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!)). Thanks to the color coding and mechanical A coding of WINSTA® MIDI pluggable installation connectors, you

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

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can clearly distinguish different circuits. This pluggable installation connector can be employed for a current 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 precise electrification. Thanks to the included test slot, it is possible to check connections even when they are plugged in. That saves time and reduces installation labor and expense. The strip length is 55 mm.

Lower costs through fast commissioning and elimination of service expenses – solutions from *WINSTA*® MIDI

The *WINSTA*® Pluggable Connection System is ideally tailored to the strict requirements of building installation. It makes electrical installation pluggable, and thus faster, even more reliable, and error-free. Using this pre-assembled system reduces assembly times and errors during installation at the construction site. Choose durability and quality – with protection type IP20 from WAGO makes the installation of electrical components substantially easier.

- effective protection against mismatching
- simple circuits
- with A coding for a great number of applications
- custom-engineered solutions
- 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 |

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 |

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



General information

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

Connection data

| | |
|----------------------------|---|
| Connection points | 5 |
| 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° |
| Strip length (outer insulation) | 55 mm |

Physical data

| | |
|-------------|-----------------------|
| Pin spacing | 10 mm / 0.394 inches |
| Width | 54.6 mm / 2.15 inches |
| Height | 17 mm / 0.669 inches |
| Depth | 76 mm / 2.992 inches |

Mechanical Data

| | |
|-----------------|----------------------------|
| Application | General mains applications |
| Coding | A |
| Variable coding | Yes |

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

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| | |
|---|---|
| Marking | N ⚡ L1 L2 L3 |
| Potential marking | N ⚡ 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 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). |
| Strain relief | strain relief housing |

Material data

| | |
|-----------------------------|--|
| Note (material data) | Information on material specifications can be found here |
| 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 |

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

| | |
|-----------------|----------|
| Contact plating | Tin |
| Fire load | 0.648 MJ |
| Weight | 29.2 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 |
| ECCN | NO DATA |
| PU (SPU) | 25 pcs |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4044918252478 |
| 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. | IEC 61535 | NL -84761 |
|  | CCA DEKRA Certification B.V. | EN 61535 | 71- 123228 |
| | cURus Underwriters Laboratories Inc. | UL 1977 | E45171 |

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



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 |

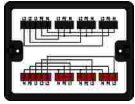
Counterpart

| | | |
|--|---|--|
|  | 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.770-315 Plug; with strain relief housing; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-315 |

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

| | | |
|--|--|--|
|  | Item no.770-415 Plug; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-415 |
|  | Item no.770-215 Plug; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-215 |
|  | 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.770-609 3-way distribution connector; 5-pole; Cod. A; 1 input; 3 outputs; black | www.wago.com/770-609 |
|  | 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.770-640 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.770-715 Snap-in plug; 5-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-715 |
|  | 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 Plug for PCBs; straight; 5-pole; Cod. A; black | www.wago.com/770-815 |
|  | 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.770-815/011-000 Plug for PCBs; angled; 5-pole; Cod. A; black | www.wago.com/770-815/011-000 |
|  | 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.899-631/105-000 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.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.899-631/187-000 Distribution box; Three-phase current (400 V); 1 input; 5 outputs; Cod. A; MIDI; black | www.wago.com/899-631/187-000 |

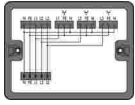
Subject to changes. Please also observe the further product documentation!



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

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

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

Optional accessories

Cover

Cover



Item no.: 897-2005

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

www.wago.com/897-2005

Tool

Wiring aid

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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



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

Downloads

Documentation

Bid Text

| | | | |
|------------------------|-------------|----------------|----------|
| 770-305 X81 - Datei | 2019 Feb 19 | xml 3.1 kB | Download |
| 770-305 doc - Datei | 2015 Jun 8 | doc 24.6 kB | Download |

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

CAD/CAE-Data

CAD data

| | | |
|----------------------|---------------------|--------------------------|
| 2D/3D Models 770-305 | URL | Download |
|----------------------|---------------------|--------------------------|

CAE data

| | | |
|---------------------------|---------------------|--------------------------|
| EPLAN Data Portal 770-305 | URL | Download |
|---------------------------|---------------------|--------------------------|

| | | |
|------------------------|---------------------|--------------------------|
| WSCAD Universe 770-305 | URL | Download |
|------------------------|---------------------|--------------------------|

| | | |
|----------------------|---------------------|--------------------------|
| ZUKEN Portal 770-305 | URL | Download |
|----------------------|---------------------|--------------------------|

Asset Administration Shell

| | | |
|------------------------------------|---------------------|--------------------------|
| Asset Administration Shell 770-305 | URL | Download |
|------------------------------------|---------------------|--------------------------|

Environmental Product Compliance

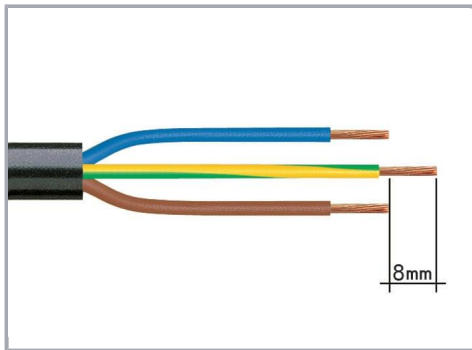
Compliance Search

| | | |
|--|---------------------|--------------------------|
| Environmental Product Compliance 770-305 | URL | Download |
|--|---------------------|--------------------------|

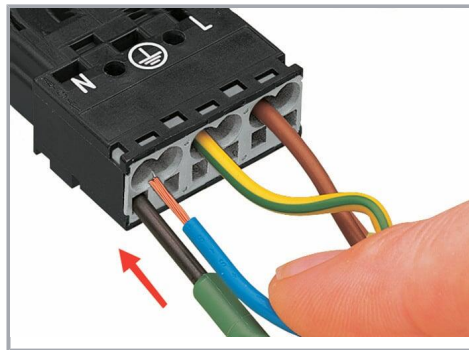
Socket; with strain relief housing; 5-pole; Cod. A; 4,00 mm²; black

Installation Notes

Conductor termination

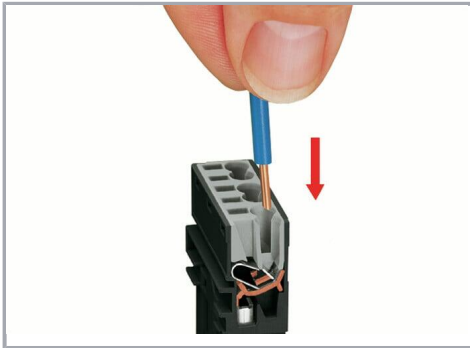


1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm

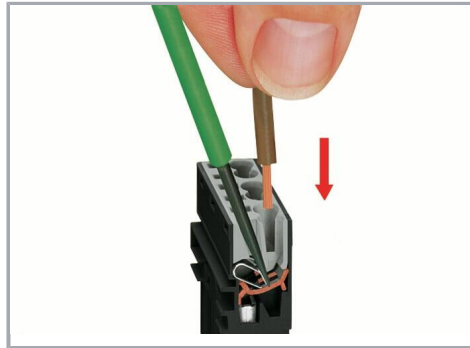


To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

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

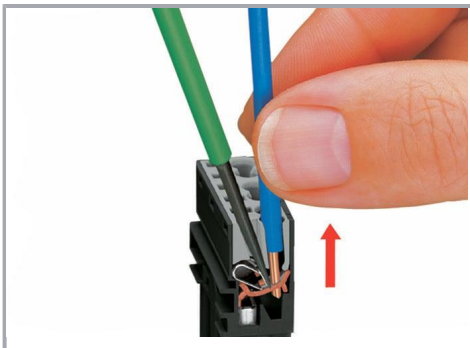


Insert the stripped solid conductor until it hits the backstop.



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.

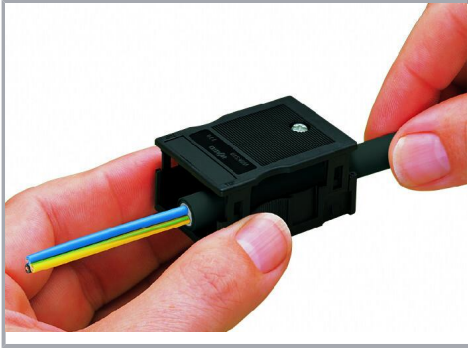
Conductor removal



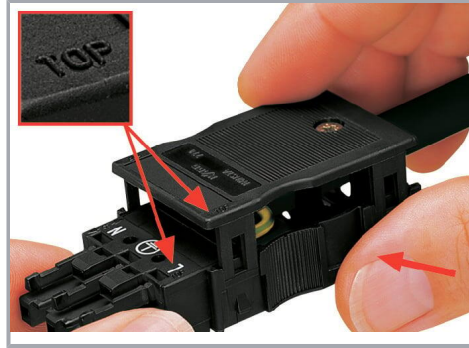
To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.

Installation

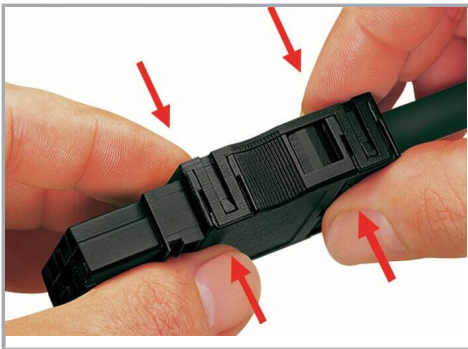
Subject to changes. Please also observe the further product documentation!



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.



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!