

Data sheet | Item number: 770-134

Plug; with strain relief housing; 4-pole; Cod. A; 4,00 mm²; white

www.wago.com/770-134

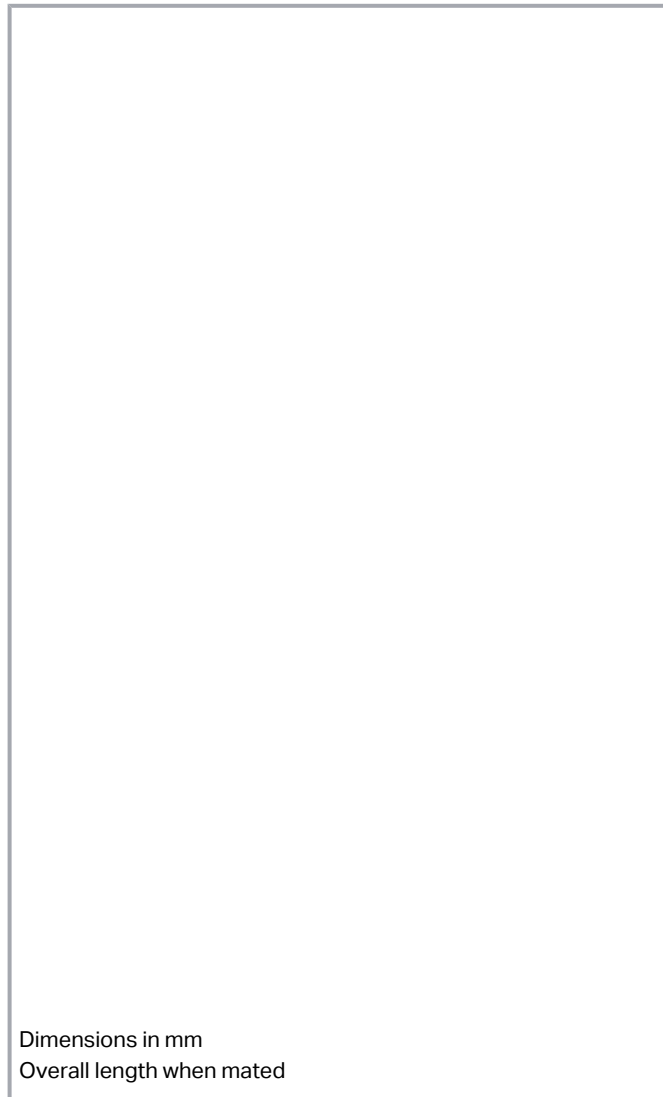


Color:

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Item description

Male connector/plug *WINSTA*® MIDI with protection type IP20

The *WINSTA*® MIDI male connector/plug A coding supports fast, reliable installation. Whether 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. The color coding and mechanical coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. 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!)). The *WINSTA*® MIDI pluggable installation connector with A coding in white or black is normally used for general mains applications in power distribution. This pluggable installation connector is used for electrical currents up to 25 A. Thus the product is ideally suitable

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for high power loads. WINSTA® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in can be found in a variety of projects you can use for quick, easy and maximally flexible installation. A range up to 55 mm can be used for the strip length.

Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

The WINSTA® Pluggable Connection System is perfectly tailored to the strict requirements of building installation. It makes electrical installation pluggable, and therefore faster, more reliable, and error-free. Use of this pre-assembled system reduces assembly times and installation errors at the construction site. Now you can also cut installation costs without compromising safety and quality: The WINSTA® MIDI pluggable installation connector with protection against mismatching reduces the need for servicing and prevents unnecessary downtime.

- effective protection against mismatching
- for automation controllers
- with A coding for a large number of uses
- 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 |

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 |

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General information

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

Connection data

| | |
|----------------------------|----------------------|
| Connection points | 8 |
| Total number of potentials | 4 |
| 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 | 4 |
| Connectable sheathed cable diameter | 9 ... 13 mm |
| Conductor entry direction to mating direction | 0° |
| Strip length (outer insulation) | 55 mm |

Physical data

| | |
|-------------|------------------------|
| Pin spacing | 10 mm / 0.394 inches |
| Width | 44.6 mm / 1.756 inches |
| Height | 17 mm / 0.669 inches |
| Depth | 76 mm / 2.992 inches |

Mechanical Data

| | |
|-------------|----------------------------|
| Application | General mains applications |
|-------------|----------------------------|

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| | |
|---|---|
| Coding | A |
| Variable coding | Yes |
| Marking | 1/L' 2/L' $\frac{1}{2}$ N |
| Potential marking | 1/L' 2/L' $\frac{1}{2}$ 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 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 | white |
| Cover color | gray |
| Material group | I |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |

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| | |
|--------------------------|---|
| Clamping spring material | Chrome-nickel spring steel (CrNi) |
| Contact material | Copper or copper alloy; surface-treated |
| Contact plating | Tin |
| Fire load | 0.584 MJ |
| Weight | 24.9 g |

Environmental requirements

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|--|--|
| 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) | 25 pcs |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4044918254489 |
| 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 DEKRA Certification B.V. | IEC 61535 | NL -84761 |
| | cURus Underwriters Laboratories Inc. | UL 1977 | E45171 |
| | cURus Underwriters Laboratories Inc. | UL 1059 | E 45172 |

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| | | |
|--|----------|----------|
| VDE VDE Prüf- und Zertifizierungsinstitut | EN 61535 | 40029808 |
| 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.770-124 Socket; with strain relief housing; 4-pole; Cod. A; 4,00 mm ² ; white | www.wago.com/770-124 |
| Item no.770-224 Socket; 4-pole; Cod. A; 4,00 mm ² ; white | www.wago.com/770-224 |
| Item no.770-6224 Linect® T-connector; 4-pole; Cod. A; 1 input; 2 outputs; white | www.wago.com/770-6224 |
| Item no.770-676 T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white | www.wago.com/770-676 |
| Item no.770-677 T-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white | www.wago.com/770-677 |
| Item no.770-724/009-000 Snap-in socket; with protruding mating face; 4-pole; Cod. A; 4,00 mm ² ; white | www.wago.com/770-724/009-000 |
| Item no.770-724 Snap-in socket; 4-pole; Cod. A; 4,00 mm ² ; white | www.wago.com/770-724 |
| Item no.770-824 Socket for PCBs; straight; 4-pole; Cod. A; white | www.wago.com/770-824 |
| Item no.770-824/011-000 Socket for PCBs; angled; 4-pole; Cod. A; white | www.wago.com/770-824/011-000 |
| Item no.770-994 | |

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h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 2 locking levers; white www.wago.com/770-994

Item no.770-995

h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white www.wago.com/770-995

Item no.771-9994/006-102

pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m; 1,50 mm²; white www.wago.com/771-9994/006-102

Item no.771-9994/106-102

pre-assembled connecting cable; Eca; Socket/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m; 1,50 mm²; white www.wago.com/771-9994/106-102

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

Optional accessories**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

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

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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

Tool

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

| | | | |
|-------------------------|-------------|----------------|----------|
| 770-134 X81 - Datei | 2019 年2月19日 | xml 3.1 kB | Download |
| 770-134 doc - Datei | 2015 年6月8日 | doc 24.1 kB | Download |
| ausschreiben.de 770-134 | | URL | Download |

CAD/CAE-Data

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 770-134 | URL | Download |
|----------------------|-----|----------|

CAE data

| | | |
|---------------------------|-----|----------|
| EPLAN Data Portal 770-134 | URL | Download |
| WSCAD Universe 770-134 | URL | Download |
| ZUKEN Portal 770-134 | URL | Download |

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-134

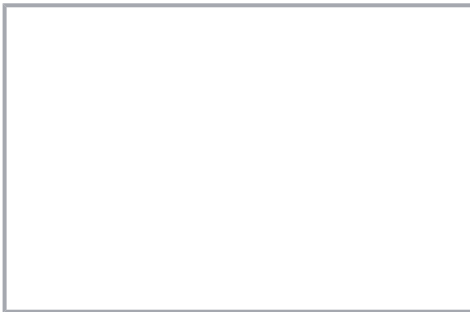
URL

Download

Plug; with strain relief housing; 4-pole; Cod. A; 4,00 mm²; white

Installation Notes

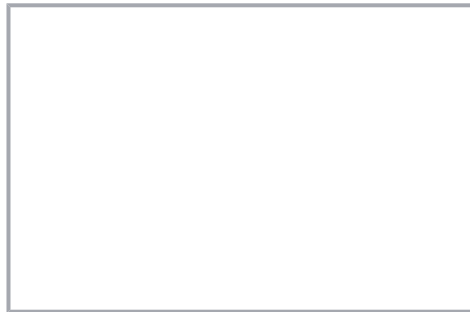
Conductor termination



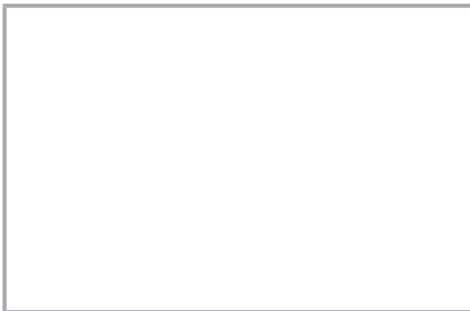
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)

2. Strip length = 9 mm

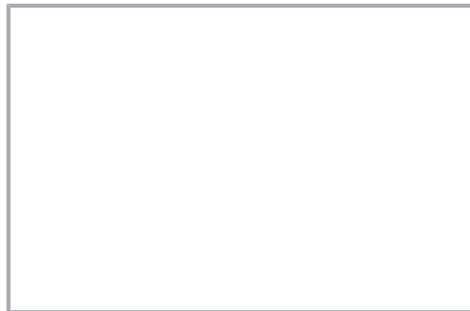
3. Extended ground conductor = 8 mm



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.



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

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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.



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

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[Show all products from the family](#)

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