

Data sheet | Item number: 770-945

h-distribution connector; 4-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; black



www.wago.com/770-945



Color:

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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



Item description

Distribution connector *WINSTA*® MIDI with protection type IP20

The *WINSTA*® MIDI distribution connector with protection type IP20 allows installation of fine-stranded and solid conductors. WAGO pluggable installation connectors can be used when specifications repeat or are distributed on a defined grid, for example for installing grid lighting or flush-mount lighting. The coding options reduce installation errors, allowing fast, secure wiring of all components. The pluggable installation connector is protected against ingress by solid objects in accordance with protection type IP20 (When mated: 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 can clearly distinguish different circuits. This pluggable installation connector can be used for electrical currents up to 25 A. Thus the product is also suitable 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 built-in test slot, connections can be checked even when they are plugged in. This saves time, labor, and money.

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

The *WINSTA*® Pluggable Connection System is perfectly 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 decreases time spent on assembly and installation errors at the construction site. Choose quality and durability – the *WINSTA*® MIDI pluggable installation connector with protection type IP20 from WAGO makes the electrical installation of electrical components noticeably easier.

- protection against mismatching eliminates errors
- simple circuits
- with A coding for use in a large number of general mains 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 |

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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

General information

Note on contact resistance

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

Connection data

Total number of potentials

4

PE function

Preceding PE contact

Connection 1

Pole number

4

Physical data

Pin spacing

10 mm / 0.394 inches

Width

40 mm / 1.575 inches

Height

36.7 mm / 1.445 inches

Depth

51 mm / 2.008 inches

Mechanical Data

Application

General mains applications

Coding

A

Marking

N $\frac{2}{L}$ 1/L'

Potential marking

N $\frac{2}{L}$ 1/L'

Mating force of a plug-in connection

approx. 20 ... 70 N (depending on pole number)

Retention force of a plug-in connection

When 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

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| | |
|--------------------------|---|
| Type of distribution box | h-distribution connector, outputs at one end |
| Protection type | IP20; When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!) |
| Suitable | for flying leads |

Plug-in connection

| | |
|------------------------------------|--|
| Contact type (pluggable connector) | Socket/plug |
| 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 | yes |
| 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). |
| Number of locking levers | 3 |

Material Data

| | |
|-----------------------------|--|
| Note (material data) | Information on material specifications can be found here |
| Color | black |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Contact material | Copper or copper alloy; surface-treated |
| Contact plating | Tin |
| Fire load | 2.968 MJ |
| Weight | 32 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 |

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Commercial data

| | |
|-----------------------|---------------|
| Product Group | 20 (Winsta) |
| eCl@ss 10.0 | 27-44-06-03 |
| eCl@ss 9.0 | 27-44-06-03 |
| ETIM 8.0 | EC002567 |
| ETIM 7.0 | EC002567 |
| PU (SPU) | 25 (22) pcs |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4045454997229 |
| Customs tariff number | 85366990990 |

Environmental Product Compliance

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

Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|--|--------------------------|------------------|
| | cURus Underwriters Laboratories Inc. | UL 1977 | E45171 |
| | cURus Underwriters Laboratories Inc. | UL 1059 | E 45172 |

Counterpart

| | |
|---|--|
| Item no.770-104 Socket; with strain relief housing; 4-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-104 |
| Item no.770-114 Plug; with strain relief housing; 4-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-114 |
| Item no.770-214 Plug; 4-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-214 |
| Item no.770-204 Socket; 4-pole; Cod. A; 4,00 mm ² ; black | www.wago.com/770-204 |
| Item no.771-9994/106-101 pre-assembled connecting cable; Eca; Socket/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm ² ; 1 m; 1,50 mm ² ; black | www.wago.com/771-9994/106-101 |
| Item no.771-9994/006-101 pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. A; H05VV-F 4G 1.5 mm ² ; 1 m; 1,50 mm ² ; black | www.wago.com/771-9994/006-101 |

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**Item no. 771-9994/206-101**pre-assembled connecting cable; Eca; Plug/open-ended; 4-pole; Cod. A; H05VV-F 4G 1.5 mm²; 1 m;
1,50 mm²; blackwww.wago.com/771-9994/206-101**Optional accessories****Cover**

| Cover | |
|--|--|
| Item no.: 770-360 Lockout cap; for plugs; 5-pole; separable; yellow | www.wago.com/770-360 |
| 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 |

Mounting

| Mounting accessories | |
|---|--|
| Item no.: 770-624 Mounting plate; 4-pole; for distribution connectors; Plastic; black | www.wago.com/770-624 |
| Item no.: 770-674 Mounting plate; 4-pole; for distribution connectors; Plastic; white | www.wago.com/770-674 |

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

| | | | |
|-------------------------|--------------|----------------|----------|
| 770-945 X81 - Datei | 2019 年2月19 日 | xml 2.9 kB | Download |
| 770-945 doc - Datei | 2015 年3月12 日 | doc 23.6 kB | Download |
| ausschreiben.de 770-945 | | URL | Download |

CAD/CAE-Data**CAE data**

| | | | |
|------------------------|--|-----|----------|
| WSCAD Universe 770-945 | | URL | Download |
| ZUKEN Portal 770-945 | | URL | Download |

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CAD data

2D/3D Models 770-945

[URL](#)

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-945

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Installation Notes

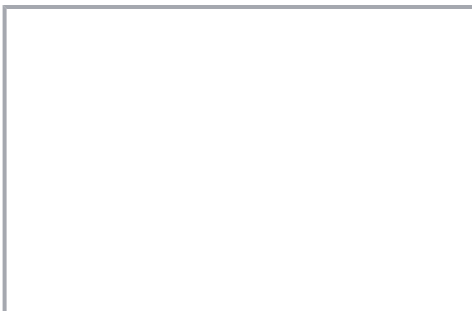
Installation



Mounting plates can be secured using commercially available screws or nail-drive anchors.



The distribution connectors snap together when attached to the mounting plate.



To release the distribution connector, unlock the latch using a screwdriver.

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All distribution connector connections are locked and protected against accidental disconnection directly after mating. Locking of any connection is released using a screwdriver, even if all connections are used.

Product family

WINSTA® MIDI

[Show all products from the family](#)

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