

Data sheet | Item number: 770-2303

Snap-in socket; 3-pole; Cod. P; 4,00 mm²; red

www.wago.com/770-2303



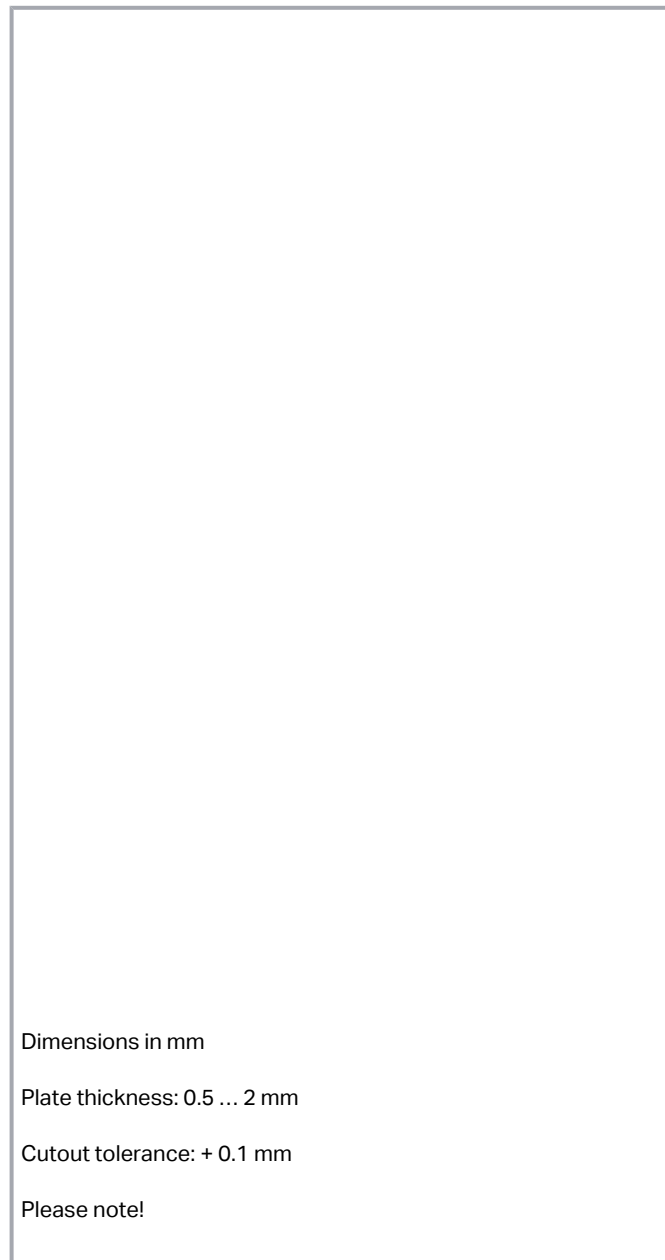
Color:



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

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Dimensions in mm

Plate thickness: 0.5 ... 2 mm

Cutout tolerance: + 0.1 mm

Please note!

Item description

Female connector/socket *WINSTA*® MIDI 3-pole

The *WINSTA*® MIDI female connector/socket with protection type IP20 is the pluggable solution for your application in control cabinets, on PCBs or for lighting connections. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to establish

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connections according to many different requirements in seconds. For greater protection in electrical installations, the pluggable installation connector is provided with mechanical protection against mismatching. The pluggable installation connector offers protection against contact with live components in accordance with protection type IP20 (When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). *WINSTA*® MIDI pluggable installation connectors with P coding are used for implementing uninterruptible power supplies. This pluggable installation connector can be employed for a voltage load of up to 25 A. As a result, 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. Due to the integrated test slot, connections can be checked even when they are plugged in. This saves time, labor, and money.

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

The *WINSTA*® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with locking lever from WAGO.

-
- pluggable installation connectors with protection against mismatching
- pre-assembled versions
- with P coding for uninterruptible power supply
- ready to install and use immediately
- rapid, structured electrical installation

Data Notes

| | |
|------|---|
| Note | <p>The snap-in connectors must be relieved of tensile and transverse forces.</p> <p>A surface finish can influence the edge radius of the cutouts. This may affect the snap-in socket fit, so ensure an adequate fit before use.</p> <p>In addition, the punched edge should be on the inside for punched cutouts.</p> <p>The wings of the snap-in connectors must not be mechanically stressed for a long period before use (e.g., due to a pre-locking position).</p> |
|------|---|

Electrical data

Ratings per IEC/EN

| | |
|-------------|----------------|
| Ratings per | IEC/EN 60664-1 |
|-------------|----------------|

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



| | |
|-------------------------------|--|
| Nominal voltage (III/3) | 250 V |
| Rated impulse voltage (III/3) | 4 kV |
| Rated current | 25 A |
| Legend (ratings) | (III / 3) \triangleq 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 m Ω of contact resistance approx. 0.25 m Ω contact transition plug/socket |
|----------------------------|--|

Connection data

| | |
|----------------------------|---|
| Connection points | 6 |
| Total number of potentials | 3 |

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 | 3 |
| Conductor entry direction to mating direction | 0° |

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



Physical data

| | |
|-------------|------------------------|
| Pin spacing | 10 mm / 0.394 inches |
| Width | 35.5 mm / 1.398 inches |
| Height | 17.5 mm / 0.689 inches |
| Depth | 37.5 mm / 1.476 inches |

Mechanical Data

| | |
|---|---|
| Application | EDV (UPS) |
| Coding | P |
| Variable coding | No |
| Marking | L ⊥ N |
| Potential marking | L ⊥ 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 |
| Housing sheet thickness | 0.5 ... 2 mm / 0.02 ... 0.079 inches |
| Mounting type | Snap-in flange |
| Protection type | IP20; When mated: 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 | 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). |

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Material Data

Note (material data)

Information on material specifications can be found here

| | |
|-----------------------------|---|
| Color | red |
| 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 | 0.252 MJ |
| Weight | 11.9 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 \leq 105 °C |

Commercial data

| | |
|-----------------------|---------------|
| Product Group | 20 (Winsta) |
| eCl@ss 10.0 | 27-44-06-02 |
| eCl@ss 9.0 | 27-44-06-02 |
| ETIM 8.0 | EC002566 |
| ETIM 7.0 | EC002566 |
| PU (SPU) | 100 pcs |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4045454435059 |
| Customs tariff number | 85366990990 |

Environmental Product Compliance

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

Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
|------|----------|--------------------------|------------------|

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| | | |
|---|-----------|---------------|
| 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 |

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.770-1313 Plug; 3-pole; Cod. P; 4,00 mm ² ; red | www.wago.com/770-1313 |
| Item no.771-9973/006-101 pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. P; H05VV-F 3G 1.5 mm ² ; 1 m; 1,50 mm ² ; red | www.wago.com/771-9973/006-101 |
| Item no.771-9973/206-101 pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. P; H05VV-F 3G 1.5 mm ² ; 1 m; 1,50 mm ² ; red | www.wago.com/771-9973/206-101 |

Optional accessories

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 |

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



Item no.: 770-383
Operating tool; 3-way; green

www.wago.com/770-383**Cover**

Cover

Item no.: 770-693
Lockout cap; 3-pole; for cutouts; Plastic; white

www.wago.com/770-693

Item no.: 770-643
Lockout cap; 3-pole; for cutouts; Plastic; black

www.wago.com/770-643

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

| | | | |
|-------------------------|--------------|----------------|----------|
| 770-2303 X81 - Datei | 2019 年2月19 日 | xml 3.0 kB | Download |
| 770-2303 doc - Datei | 2015 年6月8 日 | doc 23.6 kB | Download |

CAD/CAE-Data**CAE data**

| | | |
|----------------------------|-----|----------|
| EPLAN Data Portal 770-2303 | URL | Download |
| ZUKEN Portal 770-2303 | URL | Download |
| WSCAD Universe 770-2303 | URL | Download |

CAD data

| | | |
|-----------------------|-----|----------|
| 2D/3D Models 770-2303 | URL | Download |
|-----------------------|-----|----------|

Environmental Product Compliance**Compliance Search**

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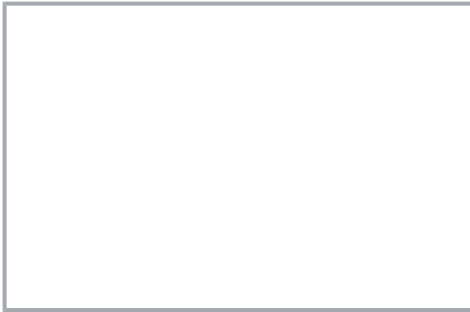
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Installation Notes

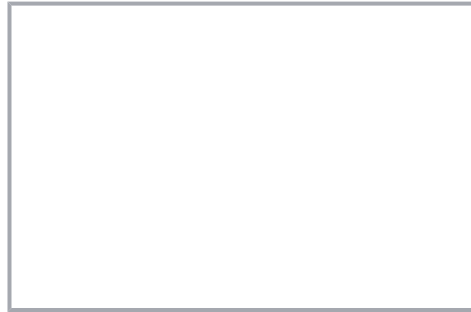
Conductor termination



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.



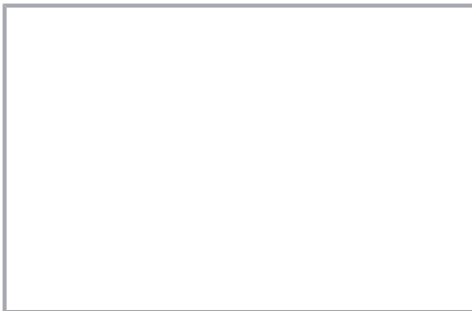
To terminate fine-stranded conductors, open the clamping unit via screwdriver (2.5 mm blade width) and insert a stripped conductor until it hits the backstop.

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.



Seal unused cutout with lockout cap.

Product family

WINSTA® MIDI

[Show all products from the family](#)

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