

Data sheet | Item number: 770-2334

Snap-in plug; 4-pole; Cod. Q; 4,00 mm<sup>2</sup>; green

[www.wago.com/770-2334](http://www.wago.com/770-2334)



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

### Male connector/plug *WINSTA*® MIDI rated current 32 A

The *WINSTA*® MIDI male connector/plug rated current 32 A supports fast, reliable installation. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to many different requirements in next

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to no time. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismatching. The pluggable installation connector is protected in accordance with protection type IP20 (When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). This means that users' fingers will never come into contact with live contact elements. Important parameters in the selection of a pluggable installation connector are the rated current and voltage: They provide information about possible domains of use and applications. This product has a current rating of 32 A – as a result it is suitable for high power loads. The *WINSTA*® MIDI product line offers flexibility for the electrical installation. Through its Push-in CAGE CLAMP® spring pressure connection technology, it ensures time-saving, error-free installation and offers customization and flexibility for meeting all installation requirements.

## 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 consequently faster, even more reliable, and error-free. Using this pre-assembled system reduces assembly times and errors during installation at the construction site. Now you can also cut installation costs without compromising quality and safety: The *WINSTA*® MIDI pluggable installation connector with protection type IP20 eliminates the need for servicing and prevents unnecessary downtime.

- pluggable installation connectors with protection against mismatching
- simple circuits
- custom-engineered solutions
- rapid, structured electrical installation

## Data

### Notes

|      |  |
|------|--|
| Note | The snap-in connectors must be relieved of tensile and transverse forces.<br>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.<br>In addition, the punched edge should be on the inside for punched cutouts.<br>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). |
|------|--|

## Electrical data

### Ratings per IEC/EN

|                         |                |
|-------------------------|----------------|
| Ratings per             | IEC/EN 60664-1 |
| Nominal voltage (III/3) | 400 V          |

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|                               |   |
|-------------------------------|---|
| Rated impulse voltage (III/3) | 6 kV  |
| Rated current                 | 32 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   |

### General information

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

### Connection data

|                            |   |
|----------------------------|---|
| Connection points          | 8 |
| Total number of potentials | 4 |

### Connection 1

|  |  |
|--|--|
| Connection technology                                      | Push-in CAGE CLAMP®                          |
| Actuation type   | Operating tool<br>Push-in                    |
| Nominal cross-section                                      | 4 mm <sup>2</sup> / 12 AWG                   |
| Solid conductor  | 0.5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG    |
| Solid conductor; push-in termination                       | 1.5 ... 4 mm <sup>2</sup> / 16 ... 12 AWG    |
| Stranded conductor   | 0.5 ... 2.5 mm <sup>2</sup> / 20 ... 14 AWG  |
| Fine-stranded conductor                                    | 0.5 ... 4 mm <sup>2</sup> / 20 ... 12 AWG    |
| Fine-stranded conductor; with insulated ferrule            | 0.25 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG |
| Fine-stranded conductor; with uninsulated ferrule          | 0.25 ... 2.5 mm <sup>2</sup> / 20 ... 14 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 1.5 mm <sup>2</sup> / 16 AWG                 |
| Strip length   | 9 mm / 0.35 inches                           |
| Pole number  | 4  |
| 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       | 45.5 mm / 1.791 inches |
| Height      | 18.5 mm / 0.728 inches |
| Depth       | 41.1 mm / 1.618 inches |

## Mechanical Data

|   |   |
|---|---|
| Application                             | for "Clean Ground" applications   |
| Coding                                  | Q   |
| Variable coding                         | No  |
| Marking                                 | L PE2 PE1 N   |
| Potential marking                       | L PE2 PE1 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) | Male connector/plug  |
| Connector (connection type)        | for conductor  |
| Mismating protection               | Yes  |
| Note on mismating protection       | All <b>WINSTA</b> <sup>®</sup> components are 100% protected against mismating when:<br>a.) plugging different numbers of poles<br>b.) plugging while rotated 180<br>c.) plugging while laterally staggered<br>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  |

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



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                       | green                                   |
| 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                   | 0.342 MJ                                |
| Weight                      | 15.5 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

|                       |               |
|-----------------------|---------------|
| 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                  | 4044918792974 |
| Customs tariff number | 85366990990   |

## Environmental Product Compliance

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

## Approvals / Certificates

### General approvals

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| Logo | Approval                                       | Additional Approval Text | Certificate name |
|------|--|--------------------------|------------------|
|      | <b>CCA</b><br>DEKRA Certification B.V.         | IEC 61535                | NL -84761        |
|      | <b>CCA</b><br>DEKRA Certification B.V.         | EN 61535                 | 71-<br>123228    |
|      | <b>cURus</b><br>Underwriters Laboratories Inc. | UL 1977                  | E45171           |
|      | <b>cURus</b><br>Underwriters Laboratories Inc. | UL 1059                  | E 45172          |

#### Declarations of conformity and manufacturer's declarations

| Logo | Approval  | Additional Approval Text | Certificate name |
|------|---|--------------------------|------------------|
|      | <b>EU-Declaration of Conformity</b><br>WAGO GmbH & Co. KG | -                        | -                |

#### Approvals for marine applications

| Logo | Approval  | Additional Approval Text | Certificate name         |
|------|---|--------------------------|--------------------------|
|      | <b>ABS</b><br>American Bureau of Shipping               | -                        | 19-<br>HG1868589-<br>PDA |
|      | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001Z6               |
|      | <b>LR</b><br>Lloyds Register                            | IEC 61984                | LR22429487TA             |

#### Counterpart

Item no.770-1324

Socket; 4-pole; Cod. Q; 4,00 mm<sup>2</sup>; green[www.wago.com/770-1324](http://www.wago.com/770-1324)

#### Optional accessories

##### Cover

| Cover   |  |
|---|--|
| <b>Item no.: 770-694</b><br>Lockout cap; 4-pole; for cutouts; Plastic; white  | <a href="http://www.wago.com/770-694">www.wago.com/770-694</a> |
| <b>Item no.: 770-644</b><br>Lockout cap; 4-pole; for cutouts; Plastic; black  | <a href="http://www.wago.com/770-644">www.wago.com/770-644</a> |
| <b>Item no.: 770-360</b><br>Lockout cap; for plugs; 5-pole; separable; yellow | <a href="http://www.wago.com/770-360">www.wago.com/770-360</a> |

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## 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](http://www.wago.com/210-719)

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## Downloads

### Documentation

#### Bid Text

|                         |              |                |          |
|-------------------------|--------------|----------------|----------|
| 770-2334<br>X81 - Datei | 2019 年2月19 日 | xml<br>3.1 kB  | Download |
| 770-2334<br>doc - Datei | 2015 年6月8 日  | doc<br>24.1 kB | Download |

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## CAD/CAE-Data

### CAE data

|                            |     |          |
|----------------------------|-----|----------|
| EPLAN Data Portal 770-2334 | URL | Download |
| WSCAD Universe 770-2334    | URL | Download |

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## Environmental Product Compliance

### Compliance Search

|   |     |          |
|---|-----|----------|
| Environmental Product Compliance 770-2334<br>Snap-in plug; 4-pole; Cod. Q; 4,00 mm <sup>2</sup> ; green | URL | Download |
|---|-----|----------|

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## Installation Notes

### Conductor termination

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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

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



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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