

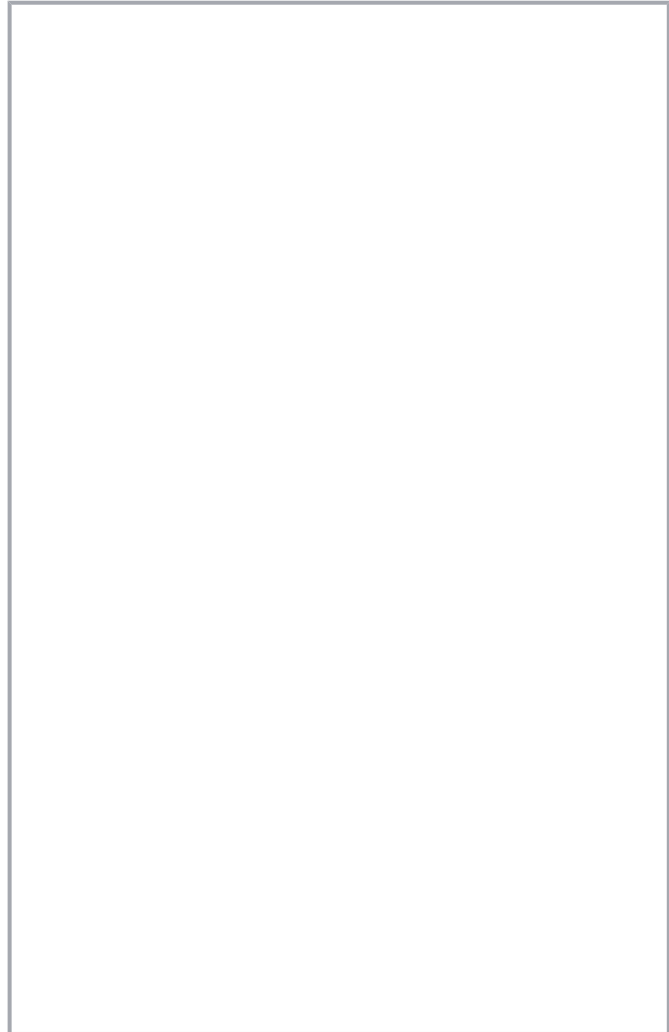
Data sheet | Item number: 770-2324

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

[www.wago.com/770-2324](http://www.wago.com/770-2324)



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 with protection type IP20

The *WINSTA*® MIDI female connector/socket 4-pole supports rapid, correct installation. Whether on PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to various requirements in seconds. The

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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 electrified contact elements. This pluggable installation connector is used for electrical currents up to 32 A. Thus the product is also suitable for high power loads. The *WINSTA*® MIDI product line offers maximum flexibility for the installation of applications. With its Push-in CAGE CLAMP® spring pressure connection technology, it achieves time-saving, error-free installation and offers flexibility and customization for meeting all installation requirements.

## **WINSTA® MIDI solutions for your electrical installation – protected against mismatching and maintenance-free**

WINSTA® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It allows fast, secure and, above all, error-free installation of components and cables. Choose quality and durability – the *WINSTA*® MIDI pluggable installation connector with marking from WAGO makes the electrical installation of electrical components substantially easier.

- 
- protection against mismatching eliminates errors
- simple circuits
- custom-engineered solutions
- convenient installation and commissioning

### **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          |
| Rated impulse voltage (III/3) | 6 kV           |

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|                  |   |
|------------------|---|
| Rated current    | 32 A  |
| Legend (ratings) | (III / 3) $\hat{=}$ 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 $\Omega$ of contact resistance<br>approx. 0.25 m $\Omega$ contact transition plug/socket |
|----------------------------|--|

### Connection data

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

### Connection 1

|  |  |
|--|--|
| Connection technology                                      | Push-in CAGE CLAMP <sup>®</sup>              |
| 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°   |

### Physical data

|             |                      |
|-------------|----------------------|
| Pin spacing | 10 mm / 0.394 inches |
|-------------|----------------------|

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



|        |                        |
|--------|------------------------|
| Width  | 45.5 mm / 1.791 inches |
| Height | 18.5 mm / 0.728 inches |
| Depth  | 37.5 mm / 1.476 inches |

## Mechanical Data

|   |   |
|---|---|
| Application                             | for "Clean Ground" applications   |
| Coding                                  | Q   |
| Variable coding                         | No  |
| Marking                                 | N PE1 PE2 L   |
| Potential marking                       | N PE1 PE2 L   |
| 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 <i>WINSTA</i> <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 plugs and sockets are securely locked. Additional locking levers are only required for flying leads (plug/socket). |

## Material Data

Note (material data)

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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                   | 0.309 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 ≤ 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                  | 4045454299170 |
| Customs tariff number | 85366990990   |

### Environmental Product Compliance

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

### Approvals / Certificates

#### General approvals

| Logo | Approval                               | Additional Approval Text | Certificate name |
|------|--|--------------------------|------------------|
|      | <b>CCA</b><br>DEKRA Certification B.V. | EN 61535                 | 71-<br>123228    |
|      | <b>CCA</b><br>DEKRA Certification B.V. | IEC 61535                | NL -84761        |

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|   |         |         |
|---|---------|---------|
| cURus<br>Underwriters Laboratories Inc. | UL 1977 | E45171  |
| cURus<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.770-1334

Plug; 4-pole; Cod. Q; 4,00 mm<sup>2</sup>; green[www.wago.com/770-1334](http://www.wago.com/770-1334)

## Optional accessories

## Tool

| Operating tool  |  |
|---|--|
| <b>Item no.: 210-719</b><br>Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft | <a href="http://www.wago.com/210-719">www.wago.com/210-719</a> |

## 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.: 770-201</b><br>Lockout cap; 12-pole, separable; for sockets; Plastic; black | <a href="http://www.wago.com/770-201">www.wago.com/770-201</a> |
| <b>Item no.: 770-221</b>   |  |

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## Downloads

### Documentation

#### Bid Text

|                         |              |                |          |
|-------------------------|--------------|----------------|----------|
| 770-2324<br>X81 - Datei | 2019 年2月19 日 | xml<br>3.1 kB  | Download |
| 770-2324<br>doc - Datei | 2015 年6月8 日  | doc<br>24.1 kB | Download |

## CAD/CAE-Data

### CAE data

|                            |     |          |
|----------------------------|-----|----------|
| EPLAN Data Portal 770-2324 | URL | Download |
| WSCAD Universe 770-2324    | URL | Download |

## Environmental Product Compliance

### Compliance Search

|   |     |          |
|---|-----|----------|
| Environmental Product Compliance 770-2324<br>Snap-in socket; 4-pole; Cod. Q; 4,00 mm <sup>2</sup> ; green | URL | Download |
|---|-----|----------|

## Installation Notes

### Conductor termination

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





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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