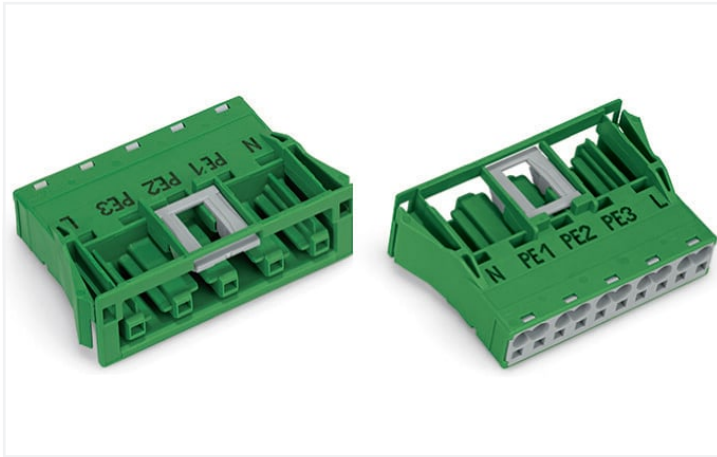


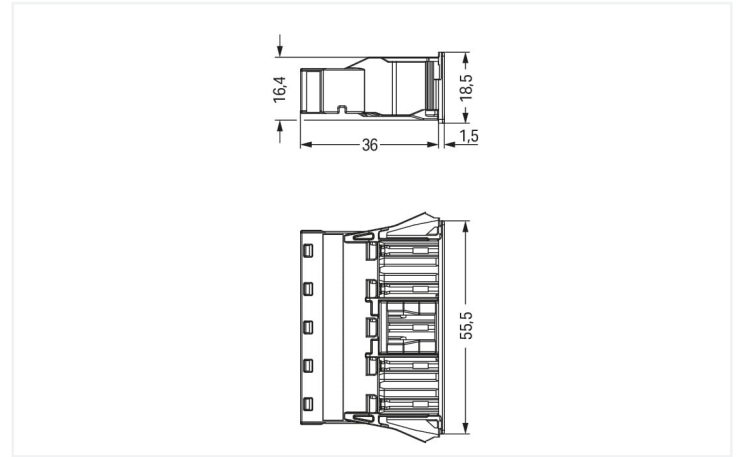
## Data Sheet | Item Number: 770-2325

Snap-in socket; 5-pole; Cod. Q; 4,00 mm<sup>2</sup>; green

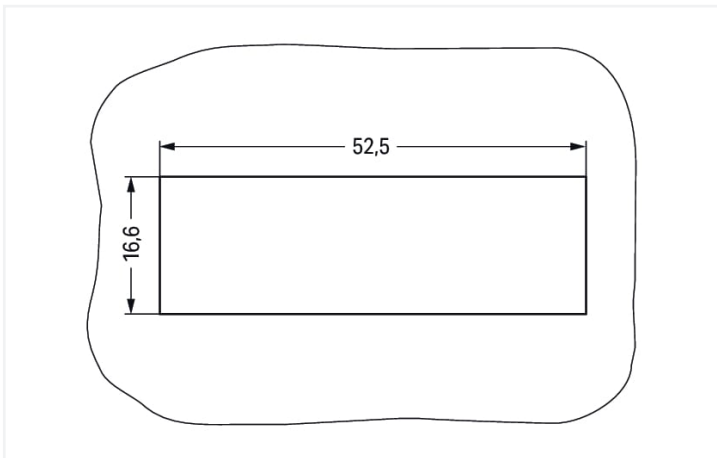
<https://www.wago.com/770-2325>



Color: ■ green



Dimensions in mm



Dimensions in mm

Plate thickness: 0.5 ... 2 mm

Cutout tolerance: + 0.1 mm

Please note!

Female connector/socket *WINSTA*® MIDI rated current 32 A

The *WINSTA*® MIDI female connector/socket with protection type IP20 is the pluggable solution for your use in control cabinets, on PCBs or for lighting connections. Our pluggable installation connectors with spring pressure connection technology function entirely without screw connections. They allow resource-efficient, error-free installation in a large number of possible uses. For greater protection in electrical installations, the pluggable installation connector is provided with mechanical 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 energised contact elements. This pluggable installation connector can be employed for a current load of up to 32 A. Therefore, it can also be used for high power loads. *WINSTA*® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is used in a broad range of individual products you can use for quick, easy and maximally flexible electrical installation.

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

The *WINSTA*® Pluggable Connection System allows pluggable electrical installation. This significantly reduces the need for servicing and lowers costs. Now you can also cut installation costs without compromising safety and quality: The *WINSTA*® MIDI pluggable installation connector with locking lever eliminates the need for servicing and prevents unnecessary downtime.

- protection against mismatching eliminates errors
- pre-assembled versions
- ready for immediate use
- rapid, structured electrical installation



| Notes |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note  | The snap-in connectors must be relieved of tensile and transverse forces. 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. In addition, the punched edge should be on the inside for punched cutouts. 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 60664-1 |    |  |
| Overvoltage category | III   | III            | II |  |
| Pollution degree     | 3     | 2              | 2  |  |
| Nominal voltage      | 400 V | -              | -  |  |
| Rated surge voltage  | 6 kV  | -              | -  |  |
| Rated current        | 32 A  | -              | -  |  |

| Approvals per |  | UL 1977 |
|---------------|--|---------|
| Rated voltage |  | 600 V   |
| Rated current |  | 23 A    |

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

| Connection data            |    |  |
|----------------------------|----|--|
| Connection points          | 10 |  |
| Total number of potentials | 5  |  |

| Connection 1                                               |                                  |
|------------------------------------------------------------|----------------------------------|
| Connection technology                                      | Push-in CAGE CLAMP®              |
| Actuation type                                             | Operating tool<br>Push-in        |
| Nominal cross-section                                      | 4 mm² / 12 AWG                   |
| Solid conductor                                            | 0.5 ... 4 mm² / 20 ... 12 AWG    |
| Solid conductor; push-in termination                       | 1.5 ... 4 mm² / 16 ... 12 AWG    |
| Stranded conductor                                         | 0.5 ... 2.5 mm² / 20 ... 14 AWG  |
| Fine-stranded conductor                                    | 0.5 ... 4 mm² / 20 ... 12 AWG    |
| Fine-stranded conductor; with insulated ferrule            | 0.25 ... 1.5 mm² / 20 ... 16 AWG |
| Fine-stranded conductor; with uninsulated ferrule          | 0.25 ... 2.5 mm² / 20 ... 14 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 1.5 mm² / 16 AWG                 |
| Strip length                                               | 9 mm / 0.35 inches               |
| Pole number                                                | 5                                |
| Conductor entry direction to mating direction              | 0 °                              |

| Physical data |                        |
|---------------|------------------------|
| Pin spacing   | 10 mm / 0.394 inches   |
| Width         | 55.5 mm / 2.185 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 PE3 L                                                                                               |
| Potential marking                       | N PE1 PE2 PE3 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> ® 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)        | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| 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                   | 0.384 MJ                                                                                                               |
| Weight                      | 18.5 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       |               |  |
|-----------------------|---------------|--|
| 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)              | 50 pcs        |  |
| Packaging type        | Box           |  |
| Country of origin     | DE            |  |
| GTIN                  | 4055143594820 |  |
| Customs tariff number | 85366990990   |  |

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

Approvals / Certificates

| General approvals                                                                                                                                                                                                                                    |           |           | Declarations of conformity and manufacturer's declarations |          |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|------------------------------------------------------------|----------|------------------|
|    |           |           | Approval                                                   | Standard | Certificate Name |
| CCA                                                                                                                                                                                                                                                  | EN 61535  | 71-123228 | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| DEKRA Certification B.V.                                                                                                                                                                                                                             |           |           |                                                            |          |                  |
| CCA                                                                                                                                                                                                                                                  | IEC 61535 | NL -84761 |                                                            |          |                  |
| DEKRA Certification B.V.                                                                                                                                                                                                                             |           |           |                                                            |          |                  |
| cURus                                                                                                                                                                                                                                                | UL 1977   | E45171    |                                                            |          |                  |
| Underwriters Laboratories Inc.                                                                                                                                                                                                                       |           |           |                                                            |          |                  |
| cURus                                                                                                                                                                                                                                                | UL 1059   | E 45172   |                                                            |          |                  |
| Underwriters Laboratories Inc.                                                                                                                                                                                                                       |           |           |                                                            |          |                  |

Approvals for marine applications

|    |           |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|
| Approval                                                                                                                                                                                                                                                   | Standard  | Certificate Name |
| ABS                                                                                                                                                                                                                                                        | -         | 19-HG1868589-PDA |
| American Bureau of Ship-<br>ping                                                                                                                                                                                                                           |           |                  |
| DNV GL                                                                                                                                                                                                                                                     | -         | TAE00001Z6       |
| Det Norske Veritas, Ger-<br>manischer Lloyd                                                                                                                                                                                                                |           |                  |
| LR                                                                                                                                                                                                                                                         | IEC 61984 | LR22429487TA     |
| Lloyds Register                                                                                                                                                                                                                                            |           |                  |



Downloads

Environmental Product Compliance

|                                           |  |  |  |
|-------------------------------------------|--|--|--|
| Compliance Search                         |  |  |  |
| Environmental Product Compliance 770-2325 |  |  |  |

Documentation

|          |            |                 |  |
|----------|------------|-----------------|--|
| Bid Text |            |                 |  |
| 770-2325 | 19.02.2019 | xml<br>2.98 KB  |  |
| 770-2325 | 08.06.2015 | doc<br>23.50 KB |  |

CAD/CAE-Data

|                            |  |  |  |
|----------------------------|--|--|--|
| CAE data                   |  |  |  |
| EPLAN Data Portal 770-2325 |  |  |  |
| WSCAD Universe 770-2325    |  |  |  |

1 Compatible Products

1.1 System counterpart

1.1.1 Male connector/plug



[Item No.: 770-1335](#)  
Plug; 5-pole; Cod. Q; 4,00 mm²; green

1.2 Optional Accessories

1.2.1 Cover

1.2.1.1 Cover



[Item No.: 770-201](#)  
Lockout cap; 12-pole, separable; for sockets; Plastic; black



[Item No.: 770-221](#)  
Lockout cap; 12-pole, separable; for sockets; Plastic; white



[Item No.: 770-645](#)  
Lockout cap; 5-pole; for cutouts; Plastic; black



[Item No.: 770-695](#)  
Lockout cap; 5-pole; for cutouts; Plastic; white

1.2.2 Tool

1.2.2.1 Operating tool

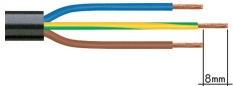


Item No.: 210-719

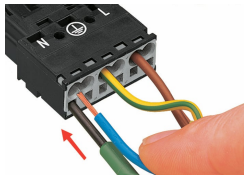
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Installation Notes

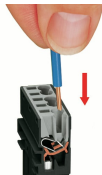
Conductor termination



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.

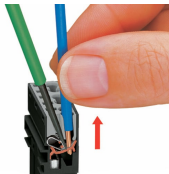


Insert the stripped solid conductor until it hits the backstop.



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



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.