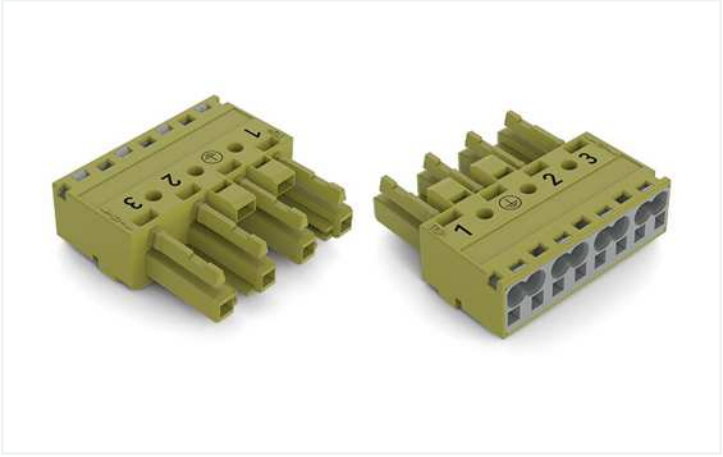
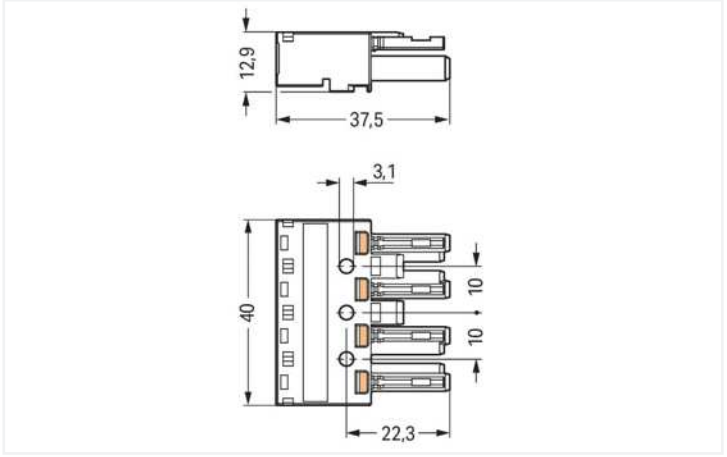
# Data Sheet | Item Number: 770-264/073-000

Socket; 4-pole; Cod. B; 4,00 mm²; light green

https://www.wago.com/770-264/073-000



Color: light green




Dimensions in mm

Female connector/socket *WINSTA*® MIDI with protection type IP20

The *WINSTA*® MIDI female connector/socket with protection type IP20 supports fast, reliable installation. Our pluggable installation connectors with spring pressure connection technology work entirely without screw connections. They allow flexible, error-free installation in a large number of possible uses. The mechanical coding and color coding of the pluggable installation connector ensure error-free installation of the individual components – including protection against mismating. The pluggable installation connector offers touch-proof protection with live components in accordance with protection type IP20 (When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). B coding enables the *WINSTA*® MIDI pluggable installation connectors to be used for application control in the domains of automation, mechanical engineering and robotics. This pluggable installation connector can be used for a voltage load of up to 25 A. As a result, it can also be used for high power loads. *WINSTA*® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is found in can be found in a variety of projects you can use for quick, easy and maximally flexible installation.

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 saves time, lowers costs, and reduces the need for servicing. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with *WINSTA*® MIDI pluggable installation connectors with protection against mismating from WAGO.

- pluggable installation connectors with protection against mismating
- pre-assembled versions
- for automation controllers
- custom-engineered solutions
- convenient installation and commissioning

## Notes

| | |
|---|---|
| Variants: | Other pole markings<br>Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/. |

## 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 |
| Note (rated current) | 25 A for 3-pole load<br>20 A for 4-pole load |
| 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

| | |
|---|---|
| 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 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 | 4 |
| Conductor entry direction to mating direction | 0 ° |

## Physical data

| | |
|---|---|
| Pin spacing | 10 mm / 0.394 inches |
| Width | 40 mm / 1.575 inches |
| Height | 12.9 mm / 0.508 inches |
| Depth | 37.5 mm / 1.476 inches |

## Mechanical Data

| | |
|---|---|
| Application | Control technology |
| Coding | B |
| Variable coding | Yes |
| Marking | 1 ⏚ 2 3 |
| Potential marking | 1 ⏚ 2 3 |
| 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 |
| Protection type | IP20; When mated and secured with a strain relief housing: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!) |


Continued on next page

## 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:<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 | Can be retrofitted |
| 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) | Information on material specifications can be found here |
| Color | light green |
| Cover color | gray |
| Material group | I |
| 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 | 0.214 MJ |
| Weight | 12.6 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 | 27-44-06-05 |
| eCl@ss 9.0 | 27-44-06-05 |
| ETIM 8.0 | EC002560 |
| ETIM 7.0 | EC002560 |
| PU (SPU) | 50 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4050821555766 |
| Customs tariff number | 85366990990 |

## Approvals / Certificates

## General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| cURus<br>Underwriters Laboratories Inc. | UL 1977 | E45171 |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance
770-264/073-000

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 770-264/073-000 | 19.02.2019 | xml<br>2.97 KB |
| 770-264/073-000 | 08.06.2015 | doc<br>24.50 KB |

### CAD/CAE-Data

**CAD data**

2D/3D Models
770-264/073-000

**CAE data**

WSCAD Universe
770-264/073-000

ZUKEN Portal
770-264/073-000

## 1 Compatible Products

### 1.1 System counterpart

#### 1.1.1 Male connector/plug



Item No.: 770-874/011-000/073-000
Plug for PCBs; angled; 4-pole; Cod. B; light green



Item No.: 770-874/073-000
Plug for PCBs; straight; 4-pole; Cod. B; light green



Item No.: 770-274/073-000
Plug; 4-pole; Cod. B; 4,00 mm²; light green



Item No.: 770-774/073-000
Snap-in plug; 4-pole; Cod. B; 4,00 mm²; light green

### 1.2 Required Accessories

#### 1.2.1 Locking system

#### 1.2.1.1 Locking system



Item No.: 770-101
Locking lever; for flying leads; for manual operation; black



Item No.: 770-121
Locking lever; for flying leads; for manual operation; white



Item No.: 770-111
Locking lever; for flying leads; for tool operation; black



Item No.: 770-131
Locking lever; for flying leads; for tool operation; white

### 1.2.2 Strain relief

#### 1.2.2.1 Strain relief housing



Item No.: 770-504/023-000
Strain relief housing; 4-pole; for 2 cables; 5.0 … 9.0 mm; 55 mm; black



Item No.: 770-514/023-000
Strain relief housing; 4-pole; for 2 cables; 5.0 … 9.0 mm; 55 mm; white



Item No.: 770-504
Strain relief housing; 4-pole; for 2 cables; 9.0 … 13.0 mm; 55 mm; black



Item No.: 770-514
Strain relief housing; 4-pole; for 2 cables; 9.0 … 13.0 mm; 55 mm; white

## 1.3 Optional Accessories

### 1.3.1 Cover

#### 1.3.1.1 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.: 897-2005
Protective cap; Type4; for sockets and plugs; PVC; red

### 1.3.2 Installation

#### 1.3.2.1 Snap-in frame



Item No.: 770-319
Snap-in frame; 4-pole; 1.0 … 3.0 mm; black



Item No.: 770-339
Snap-in frame; 4-pole; 1.0 … 3.0 mm; black

### 1.3.3 Marking

#### 1.3.3.1 Marker



Item No.: 770-450/000-006
Marker card; Plastic; blue



Item No.: 770-450/000-001
Marker card; Plastic; green



Item No.: 770-450/000-012
Marker card; Plastic; orange



Item No.: 770-450/000-005
Marker card; Plastic; red



Item No.: 770-450
Marker card; Plastic; white



Item No.: 770-450/000-002
Marker card; Plastic; yellow

### 1.3.4 Tool

### 1.3.4.1 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.

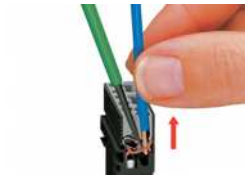


Insert the stripped solid conductor until it hits the backstop.



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.

### Installation



We recommend pulling the pre-latched strain relief housing over the cable prior to termination. However, the strain relief can be mounted at a later time as well.




Latch the strain relief housing onto the plug/socket. Note the “TOP” inscription.



Prepare strain relief housing by snapping together upper and bottom part.



Tighten strain relief screw with screwdriver (2.5 mm blade width).

## Coding



Simply cut off the coding pin from the socket.



Insert coding pin into plug (break first) until it engages.

## Mismating protection



B-coded connectors with different colors can be plugged together.

Important note:
Different colors and/or pole markings are used for circuit identification.
Only connectors of the same color and same pole marking must be plugged together.



B-coded connectors (shown in gray) not only differ in color, but also in their design, making them incompatible with other coded connectors.



Easy circuit identification via different marking and colors