

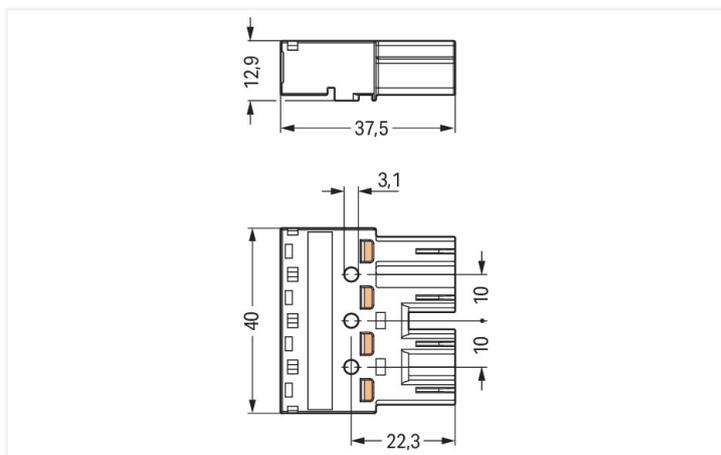
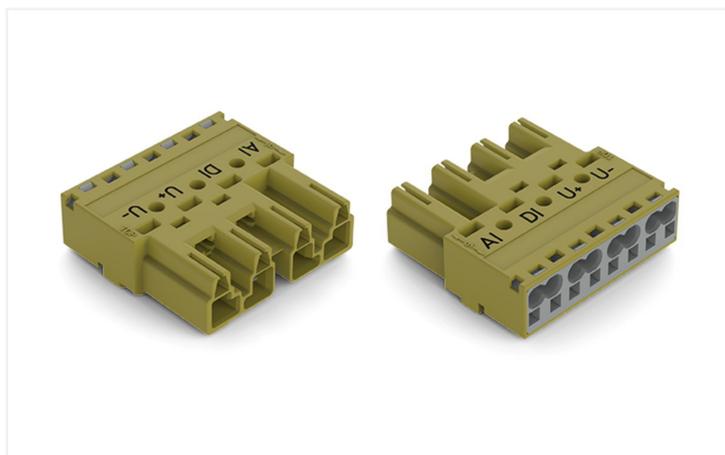
## Data Sheet | Item Number: 770-274/072-000

Plug; 4-pole; Cod. B; 4,00 mm<sup>2</sup>; light green

<https://www.wago.com/770-274/072-000>



Color: ■ light green



Dimensions in mm

### Male connector/plug WINSTA® MIDI 4-pole

The WINSTA® MIDI male connector/plug B coding supports fast, reliable installation. On PCBs, in control cabinets or for connecting lights – pluggable installation connectors from WAGO allow you to make connections according to various requirements in no time flat. For greater protection in electrical installations, the pluggable installation connector is equipped with mechanical protection against mismating. The pluggable installation connector is protected 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!)). This means that users' fingers will never come into contact with live elements. Solutions like the WINSTA® MIDI pluggable installation connectors with B coding are appropriate for applications involving process control, such as for lighting or within data networks. This pluggable installation connector can be used for electrical currents up to 25 A. Thus the product is also suitable for high power loads. The WINSTA® MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates safe electrification. Due to the integrated test slot, it is possible to check connections even when they are plugged in. This saves time, labor, and money.

WINSTA® MIDI solutions for your electrical installation – protected against mismating and maintenance-free

WINSTA® is the pluggable connection system that is optimally tailored to the strict requirements of electrical installation. It ensures error-free installation of cables and components, quickly and reliably. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with marking from WAGO.

- effective protection against mismating
- simple circuits
- for automation controllers
- ready to install and use immediately

- convenient installation and commissioning

## Notes

General safety information

**NOTICE: Observe installation and safety instructions!**

- Nur von Elektrofachkraft oder einer für die Tätigkeit elektrisch unterwiesenen Person (EUP nach DIN VDE 0105-100) anzuwenden!
- Nicht unter Spannung/Last installieren!
- Nur für bestimmungsgemäßen Gebrauch einsetzen!
- Nationale Vorschriften/Normen/Richtlinien beachten!
- Technische Daten der Produkte beachten!
- Auf die richtige Polbelegung achten!
- Keine beschädigten/verschmutzten Komponenten verwenden!
- Leiterarten, -querschnitte, Abisolierlängen und Leitungsdurchmesser beachten!
- Leiter bis zum Anschlag einführen!
- Nur mit Verriegelungsklinke und Zugentlastung verwenden!
- Originalzubehör verwenden!

**To be sold only with installation instructions!**

Variants:

Other pole markings

Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

## Electrical data

Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	400 V	-	-
Rated impulse withstand voltage	6 kV	-	-
Rated current	25 A	-	-

## Ratings per IEC/EN – Notes

Rated current (note)	25 A for 3-pole load 20 A for 4-pole load
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Approvals per	UL 1977
Rated voltage	600 V
Rated current	23 A

## General information

Note on contact resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket
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## Connection Data

Clamping units	8
Total number of potentials	4

## Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool 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
Width	40 mm / 1.575 inches
Height	12.9 mm / 0.508 inches
Depth	37.5 mm / 1.476 inches

### Mechanical data

Use	Control technology
Coding	B
Variable coding	Yes
Marking	AI DI U+ U-
Potential marking	AI DI U+ U-
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!)

### Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for conductor
Mismating protection	Yes
Note on mismating protection	All <i>WINSTA</i> ® 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	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)	<a href="#">Information on material specifications can be found here</a>
Color	light green
Cover color	gray
Material group	I
Insulation material (main housing)	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	0.253 MJ
Weight	13.1 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**

PU (SPU)	50 pcs
Packaging type	Box
Country of origin	PL
GTIN	4050821555698
Customs tariff number	85366990990

**Product Classification**

UNSPSC	39121402
eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 9.0	EC002560
ETIM 10.0	EC002560
ECCN	NO US CLASSIFICATION

**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
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**Approvals / Certificates**

**General approvals**



Approval	Standard	Certificate Name
cURus Underwriters Laboratories Inc.	UL 1977	E45171
cURus Underwriters Laboratories Inc.	UL 1059	E 45172

**Downloads**

**Environmental Product Compliance**

<b>Compliance Search</b>	
Environmental Product Compliance 770-274/072-000	<a href="#">↓</a>

## Documentation

Bid Text			
770-274/072-000	19.02.2019	xml 2.97 KB	
770-274/072-000	08.06.2015	doc 24.00 KB	

## CAD/CAE-Data

CAD data	CAE data
2D/3D Models 770-274/072-000	WSCAD Universe 770-274/072-000
	ZUKEN Portal 770-274/072-000

## 1 Compatible Products

### 1.1 Required Accessories

#### 1.1.1 Locking system

##### 1.1.1.1 Locking system

<a href="#">Item No.: 770-101</a> Locking lever; for flying leads; for manual operation; black	<a href="#">Item No.: 770-121</a> Locking lever; for flying leads; for manual operation; white	<a href="#">Item No.: 770-111</a> Locking lever; for flying leads; for tool operation; black	<a href="#">Item No.: 770-131</a> Locking lever; for flying leads; for tool operation; white

#### 1.1.2 Strain relief

##### 1.1.2.1 Strain relief housing

<a href="#">Item No.: 770-504/023-000</a> Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; black	<a href="#">Item No.: 770-514/023-000</a> Strain relief housing; 4-pole; for 2 cables; 5.0 ... 9.0 mm; 55 mm; white	<a href="#">Item No.: 770-504</a> Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; black	<a href="#">Item No.: 770-514</a> Strain relief housing; 4-pole; for 2 cables; 9.0 ... 13.0 mm; 55 mm; white

## 1.2 Optional Accessories

### 1.2.1 Cover

#### 1.2.1.1 Cover

<a href="#">Item No.: 770-360</a> Lockout cap; for plugs; 5-pole; separable; yellow	<a href="#">Item No.: 897-2005</a> Protective cap; Type4; for sockets and plugs; PVC; red

## 1.2.2 Installation

### 1.2.2.1 Mounting accessories



**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; white

## 1.2.3 Marking

### 1.2.3.1 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

## 1.2.4 Strain relief

### 1.2.4.1 Strain relief housing



**Item No.: 770-504/020-000**

Strain relief housing; 4-pole; for 1 cable; 11.5 ... 16.5 mm; 71 mm; black

## 1.2.5 Tool

### 1.2.5.1 Operating tool

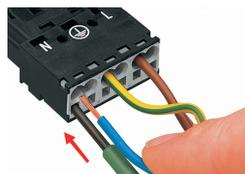


**Item No.: 210-719**

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

## Installation Notes

### Conductor termination



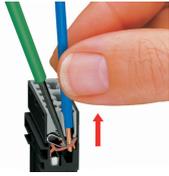
1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 5-pole)
2. Strip length = 9 mm
3. Extended ground conductor = 8 mm

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.

### Mismatching 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