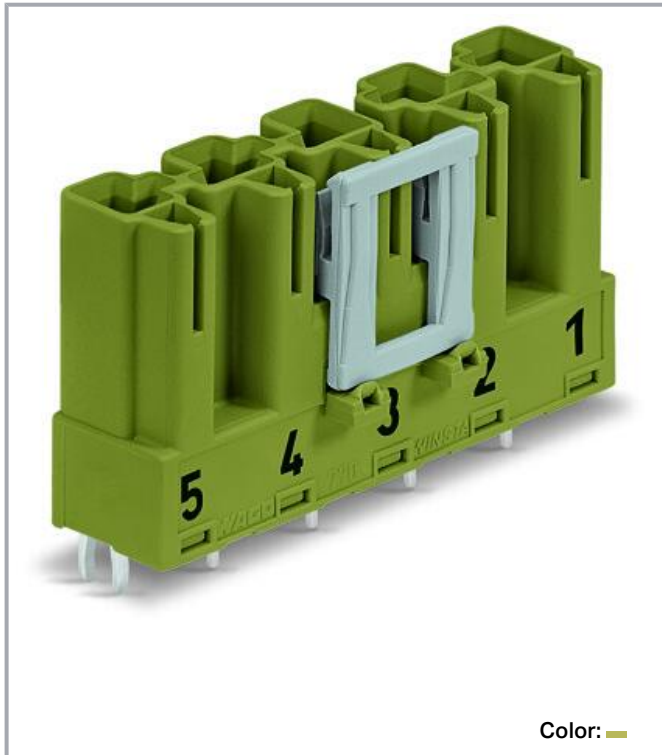


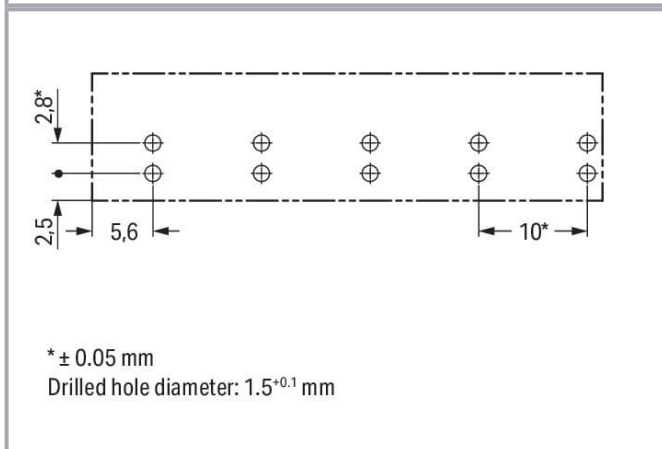
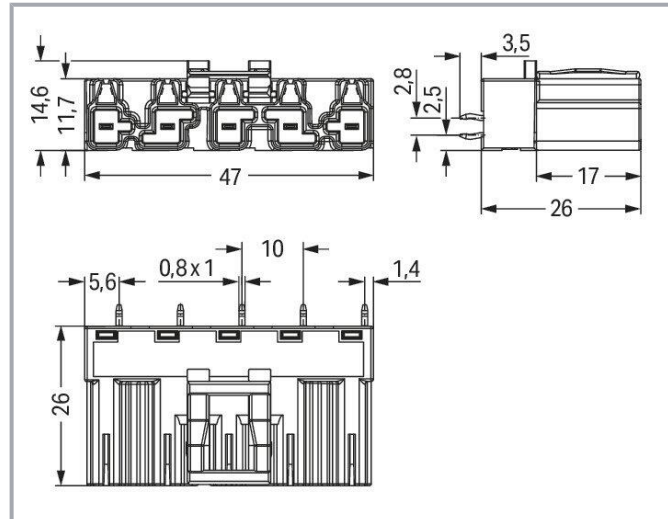
## Data sheet | Item number: 770-875

Plug for PCBs; straight; 5-pole; Cod. B; light green

[www.wago.com/770-875](http://www.wago.com/770-875)



Color:



\*  $\pm 0.05$  mm

Drilled hole diameter:  $1.5^{+0.1}$  mm

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

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## Item description

### Male connector/plug *WINSTA*® MIDI rated current 25 A

Permanently secure installations connection technology: The *WINSTA*® MIDI male connector/plug. Our large selection of pluggable PCB connectors with various insertion directions and operating variants offers you the perfect solution for your application at all times. The mechanical coding and color coding of the pcb connectors ensure error-free installation of the individual components – including protection against mismatching. B coding enables the *WINSTA*® MIDI pcb connectors to be used for control in applications in the domains of automation, mechanical engineering and robotics. This pcb connectors is used for electrical currents up to 25 A. Thus the product is also suitable for high power loads. Our *WINSTA*® MIDI product line allows total flexibility for the electrical installation. With its Push-in CAGE CLAMP® spring pressure connection technology, it guarantees time-saving, error-free installation and offers flexibility and customization for meeting all installation requirements.

### Push-in CAGE CLAMP® spring pressure connection technology – pluggable installation instead of laborious screw connections!

The *WINSTA*® Pluggable Connection System is ideally tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and therefore more efficient, more reliable, and error-free. Use of this pre-assembled system reduces time spent on assembly and errors during installation at the construction site. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with marking from WAGO.

- 
- protection against mismatching eliminates errors
- for automation controllers
- with B coding for use in automation of processes, such as lighting technology
- convenient installation and commissioning

## Data Notes

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

Ratings per

IEC/EN 60664-1

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Nominal voltage (III/3)	400 V
Rated impulse voltage (III/3)	6 kV
Rated current	25 A
Legend (ratings)	(III / 3) $\triangleq$ Overvoltage category III / Pollution degree 3

### Ratings per IEC/EN – Notes

Note (rated current)	25 A for 3-pole load 20 A for 4- and 5-pole load
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### 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 approx. 0.25 m $\Omega$ contact transition plug/socket
----------------------------	--

### Connection data

Total number of potentials	5
Number of levels	1

### Connection 1

Pole number	5
-------------	---

### Physical data

Pin spacing	10 mm / 0.394 inches
Width	47 mm / 1.85 inches
Height	29.5 mm / 1.161 inches
Height from the surface	26 mm / 1.024 inches
Depth	14.6 mm / 0.575 inches
Solder pin length	3.5 mm
Solder pin dimensions	1 x 0.8 mm
Drilled hole diameter with tolerance	1.5 <sup>(-0.1 ... +0.1)</sup> mm

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## Mechanical Data

Application	Control technology
Coding	B
Variable coding	Yes
Marking	5 4 3 2 1
Potential marking	5 4 3 2 1
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
Design	straight

## Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	Yes
Note on mismating protection	All WINSTA <sup>®</sup> 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
Mating direction to the PCB	90 °
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).

## PCB contact

PCB contact	THT
Solder pin arrangement	2 in-line solder pins/pole
Number of solder pins per potential	2

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## Material data

Note (material data)

Information on material specifications can be found here

Color	light 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	0.234 MJ
Weight	10.8 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

Product Group	20 (Winsta)
eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 8.0	EC002560
ETIM 7.0	EC002560
ECCN	NO DATA
PU (SPU)	50 pcs
Packaging type	box
Country of origin	PL
GTIN	4050821446668
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> DEKRA Certification B.V.	EN 61984	2173495.01
	<b>CCA</b> DEKRA Certification B.V.	IEC 61984	NL-32104
	<b>cURus</b> Underwriters Laboratories Inc.	UL 1977	E45171
	<b>cURus</b> 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> WAGO GmbH & Co. KG	-	-
	<b>UK-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

## Approvals for marine applications

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

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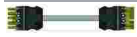
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## Counterpart



Item no.770-265

Socket; 5-pole; Cod. B; 4,00 mm<sup>2</sup>; light green[www.wago.com/770-265](http://www.wago.com/770-265)

Item no.771-9995/005-105

pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. B; (H)05VV-F 5x1,0 mm<sup>2</sup>; 1 m; 1,00 mm<sup>2</sup>; light green[www.wago.com/771-9995/005-105](http://www.wago.com/771-9995/005-105)

Item no.771-9995/105-105

pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. B; (H)05VV-F 5x1,0 mm<sup>2</sup>; 1 m; 1,00 mm<sup>2</sup>; light green[www.wago.com/771-9995/105-105](http://www.wago.com/771-9995/105-105)

## Required accessories

### Cover

Cover



Item no.: 770-360

Lockout cap; for plugs; 5-pole; separable; yellow

[www.wago.com/770-360](http://www.wago.com/770-360)

## Optional accessories

### Coding

Coding



Item no.: 770-401

Coding pin; for plugs; Plastic; gray

[www.wago.com/770-401](http://www.wago.com/770-401)

## Downloads

### CAD/CAE-Data

#### PCB Design

Symbol and Footprint 770-875

URL

Download

CAX data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

#### Supported formats:

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries

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- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

#### CAE data

	URL	Download
ZUKEN Portal 770-875		

#### CAD data

	URL	Download
2D/3D Models 770-875		

#### Asset Administration Shell

	URL	Download
Asset Administration Shell 770-875		

### Environmental Product Compliance

#### Compliance Search

	URL	Download
Environmental Product Compliance 770-875		
Plug for PCBs; straight; 5-pole; Cod. B; light green		

### Installation Notes

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## Product family

### WINSTA® MIDI

[Show all products from the family](#)

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