

## Item description

### Male connector/plug *WINSTA*® MIDI 5-pole

The *WINSTA*® MIDI male connector/plug with locking latch offers secure, easy handling to support drive and control technology tasks. The pluggable PCB connectors with spring pressure connection technology and Push-in CAGE CLAMP® technology from WAGO allow impact-resistant, maintenance-free, fast terminal connections. The coding options reduce installation errors, allowing fast, secure wiring of all components. B coding enables the *WINSTA*® MIDI pcb connectors to be used for application control in automation, robotics, and mechanical engineering. This pcb

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



connectors can be used for a current load of up to 25 A. Thus, pcb connectors can also be used for high power loads. The *WINSTA*® MIDI product line achieves maximum flexibility for the electrical installation. Through its Push-in CAGE CLAMP® spring pressure connection technology, it achieves error-free, time-saving installation and offers flexibility and customization for meeting all installation requirements.

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

WINSTA® is the pluggable connection system that is perfectly tailored to the strict requirements of electrical installation. It offers fast, secure and, above all, error-free installation of components and cables. Choose durability and quality – with locking lever from WAGO makes the installation of electrical components significantly easier.

- protection against mismating eliminates errors
- for automation controllers
- for automation controllers
- quick replacement of defective units during ongoing operation

### **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
Nominal voltage (III/3)	400 V
Rated impulse voltage (III/3)	6 kV
Rated current	25 A
Legend (ratings)	(III / 3) ≙ 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 mΩ of contact resistance  
approx. 0.25 mΩ contact transition plug/socket

## Connection data

Total number of potentials	5
Number of levels	1

## Connection 1

Pole number	5
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## Physical data

Pin spacing	10 mm / 0.394 inches
Width	47 mm / 1.85 inches
Height	18.1 mm / 0.713 inches
Height from the surface	14.6 mm / 0.575 inches
Depth	26 mm / 1.024 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

## Mechanical data

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

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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	angled

## Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
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
Mating direction to the PCB	0 °
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

## Material data

Note (material data)	Information on material specifications can be found here
Color	pink
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

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Contact plating	Tin
Fire load	0.231 MJ
Weight	10.7 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
ECCN	NO DATA
PU (SPU)	50 pcs
Packaging type	box
Country of origin	PL
GTIN	4050821445920
Customs tariff number	85366990990

## Environmental Product Compliance

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

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	IEC 61984	NL-32104
	CCA DEKRA Certification B.V.	EN 61984	2173495.01
	cURus Underwriters Laboratories Inc.	UL 1977	E45171

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cURus  
Underwriters Laboratories Inc.




UL 1059

E 45172




#### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

#### Approvals for marine applications

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

#### Counterpart

	Item no.770-285 Socket; 5-pole; Cod. B; 4,00 mm <sup>2</sup> ; pink	<a href="http://www.wago.com/770-285">www.wago.com/770-285</a>
	Item no.771-9995/005-107 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> ; pink	<a href="http://www.wago.com/771-9995/005-107">www.wago.com/771-9995/005-107</a>
	Item no.771-9995/105-107 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> ; pink	<a href="http://www.wago.com/771-9995/105-107">www.wago.com/771-9995/105-107</a>

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## 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

#### CAD data

2D/3D Models 770-895/011-000

URL

Download

#### PCB Design

Symbol and Footprint 770-895/011-000

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
- 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

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- 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

ZUKEN Portal 770-895/011-000	URL	Download
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Asset Administration Shell

Asset Administration Shell 770-895/011-000	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-895/011-000	URL	Download
Plug for PCBs; angled; 5-pole; Cod. B; pink		

Installation Notes

Product family

WINSTA® MIDI  
[Show all products from the family](#)

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