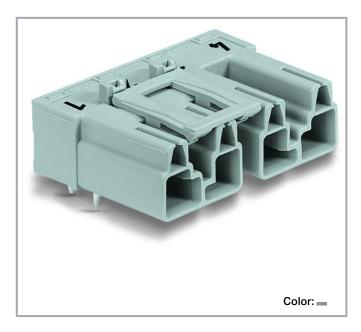
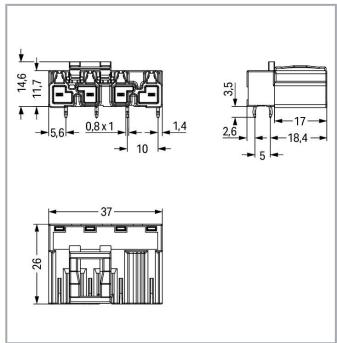
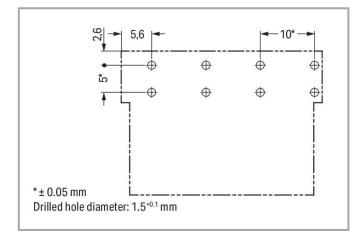
Plug for PCBs; angled; 4-pole; Cod. B; gray

www.wago.com/770-854/011-000









# Item description

# Male connector/plug WINSTA® MIDI with protection against mismating

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

WAGO GmbH & Co. KG Hansastr. 27 32423 Minden

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www.wago.com/770-854/011-000



The *WINSTA*® MIDI male connector/plug B coding are compact but outstanding PCB terminal blocks. They offer easy operation and the greatest flexibility for installation. Our pluggable PCB connectors give you a universal pluggable connection system for your devices that meets all the requirements for a stable device connection that is easy to put into operation. The color coding and mechanical coding of the pcb connectors ensure error-free installation of the individual components – including protection against mismating. B coding enables the *WINSTA*® MIDI pcb connectors to be used for application control in the domains of automation, robotics, and mechanical engineering. The rated current and voltage are important criteria for selecting a pcb connectors: They tell us about the product's domains of use. This product has a current rating of 25 A – as a result it is suitable for robust loads. Our *WINSTA*® MIDI product line allows total flexibility for the installation. Through its Push-in CAGE CLAMP® spring pressure connection technology, it ensures time-saving, error-free installation and offers customization and flexibility for meeting all installation requirements.

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

WINSTA® is the pluggable connection system that is perfectly tailored to the strict requirements of electrical installation. It ensures fast, secure and, above all, error-free installation of components and cables. Take advantage of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with locking lever from WAGO.

- pcb connectors with protection against mismating
- simple circuits
- for automation controllers
- rapid, structured electrical installation

## 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

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## Ratings per IEC/EN – Notes

Note (rated current)	25 A for 3-pole load
	20 A for 4-pole load
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	4
Number of levels	1
Connection 1	
Pole number	4
Physical data	
Pin spacing	10 mm / 0.394 inches
Width	37 mm / 1.457 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</sup> +0.1) mm

Application	Control technology
Coding	В

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Variable coding	Yes
Marking	4321
Potential marking	4321
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 WINSTA® 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	ТНТ
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	gray
Insulation material	Polyamide (PA66)

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Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.206 MJ
Weight	8.7 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

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	4017332802543
Customs tariff number	85366990990

## **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption
--

## Approvals / Certificates

#### General approvals

Logo	Approval	Additional Approval Text	Certificate name
KEMA	CCA DEKRA Certification B.V.	EN 61984	2173495.01
	CCA DEKRA Certification B.V.	IEC 61984	NL-32104

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**cURus** Underwriters Laboratories Inc. E45171



Declarations of conformity and manufacturer's declarations

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

UL 1977

#### Approvals for marine applications

			Certificate
Logo	Approval	Additional Approval Text	name
ABS.	ABS	-	19-
THE ROYAL PROPERTY OF THE PARTY	American Bureau of Shipping		HG1868589-
			PDA
ANDWED WAS	DNV GL	-	TAE00001Z6
DNV	Det Norske Veritas, Germanischer Lloyd		
	LR	IEC 61984	LR22429487TA
15	Lloyds Register		

#### Counterpart

=0.00	Sec.
-3	56

Item no.771-9994/005-103

pre-assembled interconnecting cable; Eca; Socket/plug; 4-pole; Cod. B; Control cable 4 x 1.0 mm²; 1 m; 1,00 mm<sup>2</sup>; gray

www.wago.com/771-9994 /005-103



Item no.770-244

Socket; 4-pole; Cod. B; 4,00 mm<sup>2</sup>; gray

www.wago.com/770-244



Item no.771-9994/105-103

pre-assembled connecting cable; Eca; Socket/open-ended; 4-pole; Cod. B; Control cable  $4 \times 1.0 \text{ mm}^2$ ; www.wago.com/771-9994 1 m; 1,00 mm²; gray

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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

## Optional accessories

Coding

Coding



Item no.: 770-401

Coding pin; for plugs; Plastic; gray

www.wago.com/770-401

# Downloads CAD/CAE-Data

CAD data

2D/3D Models 770-854/011-000

URL

Download

**CAE** data

EPLAN Data Portal 770-854/011-000

URL

Download

ZUKEN Portal 770-854/011-000

URL

Download

EPLAN Data Portal 770-854/011-000

URL

Download

## **PCB** Design

Symbol and Footprint 770-854/011-000

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

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

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- 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

#### **Asset Administration Shell**

Asset Administration Shell 770-854/011-000 URL Download

#### **Environmental Product Compliance**

#### Compliance Search

Environmental Product Compliance 770-854/011-000 URL Download Plug for PCBs; angled; 4-pole; Cod. B; gray

#### Installation Notes

#### **Product family**

WINSTA® MIDI

Show all products from the family

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