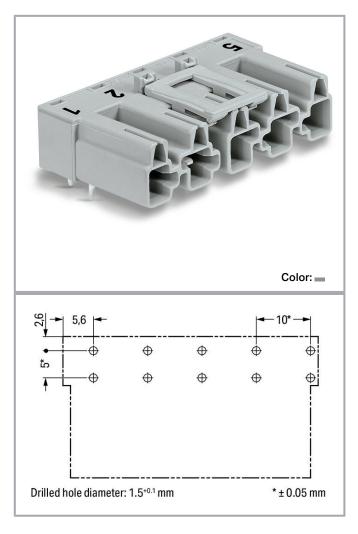
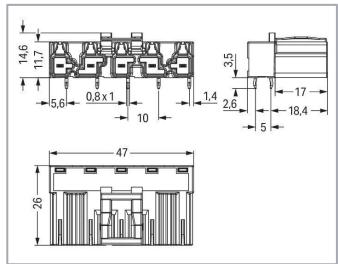
Plug for PCBs; angled; 5-pole; Cod. B; gray

www.wago.com/770-855/011-000







# Item description

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

WAGO offers various connection technology solutions for connecting devices, for example, the WINSTA® MIDI male connector/plug. Our pluggable PCB connectors give you a versatile pluggable connection system for your devices that meets all the conditions for a robust device connection that is easy to put into operation. For greater protection in electrical installations, the pcb connector is equipped with mechanical protection against mismating. B coding enables the WINSTA® MIDI pcb connectors to be used for control in applications in the domains of automation, robotics, and

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

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mechanical engineering. This pcb connector can be employed for a current load of up to 25 A. Therefore, pcb connector can also be used for high power loads. The *WINSTA®* MIDI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology facilitates exemplary electrification. Thanks to the built-in test slot, it is possible to check connections even when they are plugged in. That saves time and reduces installation labor and expense.

#### Lower costs through fast commissioning and elimination of service expenses - solutions from WINSTA® MIDI

WINSTA® is the pluggable connection system that is perfectly tailored to the strict requirements of electrical installation. It offers error-free installation of cables and components, quickly and reliably. Choose quality and durability – the *WINSTA®* MIDI pcb connector with protection against mismating from WAGO makes the installation of electrical components noticeably easier.

- protection against mismating eliminates errors
- simple circuits
- 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
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
	20 A for 4- and 5-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

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	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

approx. 0.25 m $\Omega$ contact transition plug/socket	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
i dic number	J

# 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</sup> <sup>+0.1)</sup> mm

#### **Mechanical Data**

Application	Control technology
Coding	В
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

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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).

THT

2

2 in-line solder pins/pole

# Material Data

PCB contact

Note (material data)

Solder pin arrangement

Number of solder pins per potential

Information on material specifications can be found here

Color	gray
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	0.241 MJ
Weight	10.7 g

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#### **Environmental requirements**

Processing temperature	-5 +40 °C
Continuous operating temperature	-35 +85 ℃
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
PU (SPU)	50 pcs
Packaging type	box
Country of origin	PL
GTIN	4017332802673
Customs tariff number	85366990990

### **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

# Approvals / Certificates

cURus

#### General approvals

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



Underwriters Laboratories Inc.

UL 1977 E45171

# Declarations of conformity and manufacturer's declarations

			Certificate
Logo	Approval	Additional Approval Text	name
	EU-Declaration of Conformity	-	-

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

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Certificate



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UK-Declaration of Conformity WAGO GmbH & Co. KG

. KG

# Approvals for marine applications

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

#### Counterpart



Item no.770-245 Socket; 5-pole; Cod. B; 4,00 mm<sup>2</sup>; gray

www.wago.com/770-245

Item no.771-9995/005-103

pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. B; 1 m; 1,00 mm²; gray

www.wago.com/771-9995/005-103

Item no.771-9995/105-103

pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. B; 1 m; 1,00 mm²; gray

www.wago.com/771-9995/105-103

# Downloads CAD/CAE-Data

CAD data

2D/3D Models 770-855/011-000

URL

Download

#### **CAE** data

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EPLAN Data Portal 770-855/011-000		Download
ZUKEN Portal 770-855/011-000	URL	Download
EPLAN Data Portal 770-855/011-000	URL	Download
PCB Design		

Symbol and Footprint 770-855/011-000

**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
- 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

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# **Environmental Product Compliance**

Compliance Search

Environmental Product Compliance 770-855/011-000

Plug for PCBs; angled; 5-pole; Cod. B; gray

URL

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**Installation Notes** 

**Product family** 

WINSTA® MIDI

Show all products from the family

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