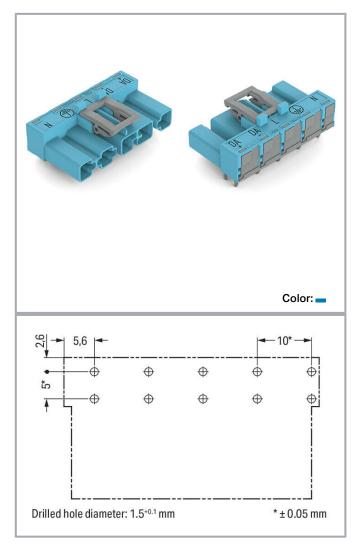
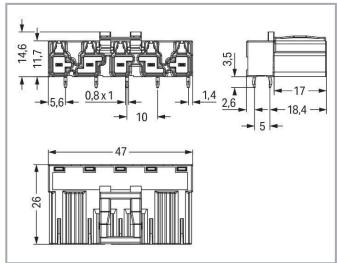
Plug for PCBs; angled; 5-pole; Cod. I; blue

www.wago.com/770-3115/011-000







# Item description

# Male connector/plug WINSTA® MIDI I coding

WAGO offers various connection technology solutions for connecting devices, for example, the WINSTA® MIDI male connector/plug. Our pluggable PCB connectors give you a universal pluggable connection system for your devices that meets all the conditions for a stable device connection that

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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. I coding in blue is used to identify WINSTA® MIDI pcb connectors, which are used predominantly in automation of buildings for activating lighting. Important parameters in the selection of a pcb connectors are the rated current and voltage: They provide information about possible domains of use and applications. This product has a current rating of 25 A – therefore it is 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. That saves time and reduces installation labor and costs.

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

The WINSTA® Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with locking lever from WAGO.

- effective protection against mismating
- simple circuits
- with I coding for controlling light (DALI standard)
- quick replacement of defective units during ongoing operation

# Data

# 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 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

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#### General information

Note on contact resistance	approx. 1 m $\Omega$ of contact resistance
	approx. $0.25 \text{ m}\Omega$ contact transition plug/socket

# Connection data

Total number of potentials	5
Number of levels	1
PE function	Preceding PE contact

#### Connection 1

Pole number	5

# 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**

DALI, Lighting Management
ı
No
DA+ DA- L
DA+ DA- L
approx. 20 70 N (depending on pole number)
Locked: > 80 N
Unlocked: approx. 20 70 N (depending on pole number)
200, without resistive load
angled

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# 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	blue
Insulation material	Polyamide (PA66)
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	0.226 MJ
Weight	9.9 g

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

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# **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	4045454819699
Customs tariff number	85366990990

# **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

## Approvals / Certificates

#### General approvals

Logo	Approval	Additional Approval Text	Certificate name
c <b>SN</b> us	cURus Underwriters Laboratories Inc.	UL 1977	E45171



**cURus** UL 1059 E 45172

# Approvals for marine applications

			Certificate
Logo	Approval	Additional Approval Text	name
	LR	IEC 61984	LR22429487TA
	Lloyds Register		

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Underwriters Laboratories Inc.

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# Counterpart

Control of the second	Item no.770-1105 Socket; 5-pole; Cod. I; 4,00 mm²; blue	www.wago.com/770-1105
	Item no.771-9985/006-101  pre-assembled interconnecting cable; Eca; Socket/plug; 5-pole; Cod. I; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; blue	www.wago.com/771-9985 /006-101
	Item no.770-1105/022-000 Socket; with strain relief housing; 5-pole; Cod. I; 4,00 mm²; blue	www.wago.com/770-1105 /022-000
	Item no.771-9985/106-101  pre-assembled connecting cable; Eca; Socket/open-ended; 5-pole; Cod. I; H05VV-F 5G 1.5 mm²; 1 m; 1,50 mm²; blue	www.wago.com/771-9985 /106-101

#### Required accessories

C	n	v	е	ı

Cover



Item no.: 770-360

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

www.wago.com/770-360

# Downloads CAD/CAE-Data

#### **CAD** data

2D/3D Models 770-3115/011-000	URL	Download	
CAE data			
EPLAN Data Portal 770-3115/011-000	URL	Download	
WSCAD Universe 770-3115/011-000	URL	Download	
ZUKEN Portal 770-3115/011-000	URL	Download	
WSCAD Universe 770-3115/011-000	URL	Download	
EPLAN Data Portal 770-3115/011-000	URL	Download	
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#### **PCB** Design

Symbol and Footprint 770-3115/011-000

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

#### **Asset Administration Shell**

Asset Administration Shell 770-3115/011-000

URL

Download

# **Environmental Product Compliance**

#### Compliance Search

Environmental Product Compliance 770-3115/011-000

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Plug for PCBs; angled; 5-pole; Cod. I; blue

Installation Notes

**Product family** 

WINSTA® MIDI

Show all products from the family

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