

## Data sheet | Item number: 252-110

2-conductor modular PCB connector; for individual solder pins; push-button;  
0.8 mm Ø; Pin spacing 3.5 mm; 10-pole; 0,80 mm<sup>2</sup>; gray



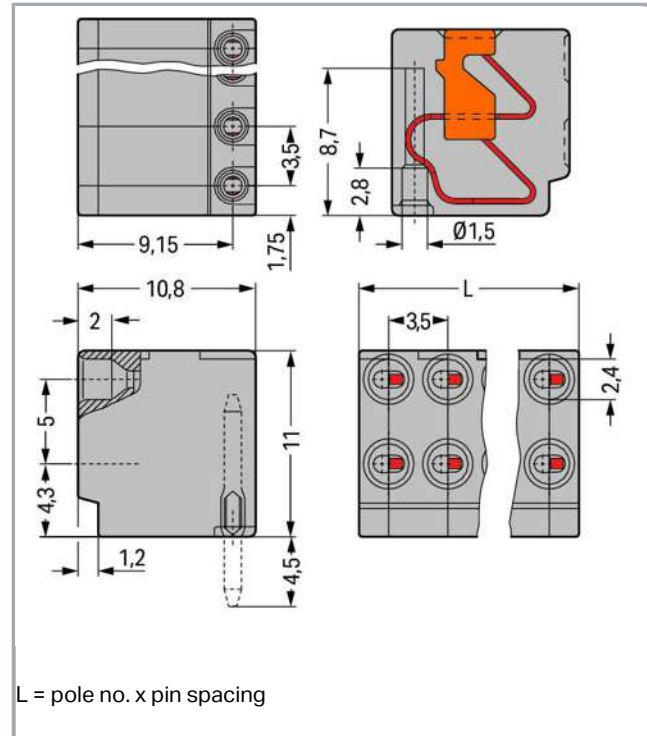
[www.wago.com/252-110](http://www.wago.com/252-110)



RoHS  Compliant

BOMcheck.net

Color: ■



### Item description

- Compact, 2-conductor PCB connectors with push-buttons and PUSH WIRE<sup>®</sup> connection
- Push-in termination of solid conductors – conductor removal via push-buttons
- Double entries for power supply and distribution
- Quick and easy PCB replacement
- Loop connection is retained, even when unmated
- Group arrangement is possible without losing any poles

### Data

#### Electrical data

#### Ratings per IEC/EN 60664-1

Ratings per

IEC/EN 60664-1

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

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Rated voltage (III / 3)	320 V
Rated impulse voltage (III / 3)	4 kV
Rated voltage (III / 2)	320 V
Rated impulse voltage (III / 2)	4 kV
Rated voltage (II / 2)	630 V
Rated impulse voltage (II / 2)	4 kV
Rated current	2 A
Legend (ratings)	(III / 2) $\triangleq$ Overvoltage category III / Pollution degree 2

### Approvals per UL 1059

Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	2 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	2 A
Approvals per	UL 1059

### Connection data

Connection technology	PUSH WIRE <sup>®</sup>
Actuation type	Push-button
Solid conductor	0,14 ... 0,5 mm <sup>2</sup> / 26 ... 20 AWG
Conductor diameter	0,4 ... 0,8 mm
Strip length	6 ... 7 mm / 0.24 ... 0.28 inch
Conductor entry angle to the PCB	0°
No. of poles	10
Total number of connection points	20
Total number of potentials	10
Number of connection types	1
Number of levels	1

### Geometrical Data

Pin spacing	3,5 mm / 0.138 inch
Width	35 mm / 1.378 inch
Height	11 mm / 0.433 inch
Depth	10,5 mm / 0.413 inch

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## Plug connection

Contact type (pluggable connector)	Female connector/socket
Connector connection type	for PCB
Mating direction to the PCB	90°

## PCB contact

PCB contact	THT
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## Material Data

Color	gray
Material group	I
Insulating material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Clamping spring material	Copper alloy
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.12 MJ
Weight	4.5 g

## Environmental Requirements

Limit temperature range	-60 ... +105 °C
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## Commercial data

Product Group	4 (Printed Circuit)
Packaging type	BOX
Country of origin	PL
GTIN	4045454039783
Customs Tariff No.	85369010000

## Approvals / Certificates

### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	NTR NL- 7110

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

CCA



CCA

DEKRA Certification B.V.

EN 60947

2169331.15

CCA


CCA

DEKRA Certification B.V.

EN 60947-7-4

NTR NL-7382

## UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	cURus Underwriters Laboratories Inc.	UL 1059	E45172 sec. 6

## Counterpart

## Compatible products

## tools



Item no.: 210-647

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

[www.wago.com/210-647](http://www.wago.com/210-647)

Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

[www.wago.com/210-719](http://www.wago.com/210-719)

## General accessories



Item no.: 243-131

Board-to-Board Link; 1-pole

[www.wago.com/243-131](http://www.wago.com/243-131)

## Marking accessories

Item no.: 210-332/350-202

Marking strips; as a DIN A4 sheet; MARKED; 1-16 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[www.wago.com/210-332/350-202](http://www.wago.com/210-332/350-202)

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**Item no.: 210-332/350-204**

Marking strips; as a DIN A4 sheet; MARKED; 17-32 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[www.wago.com/210-332/350-204](http://www.wago.com/210-332/350-204)

**Item no.: 210-332/350-206**

Marking strips; as a DIN A4 sheet; MARKED; 33-48 (240x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[www.wago.com/210-332/350-206](http://www.wago.com/210-332/350-206)

## Downloads

### Documentation

#### Additional Information

Technical explanations	Apr 3, 2019	pdf 3.6 MB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 252-110	URL	Download
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### CAE data

EPLAN Data Portal 252-110	URL	Download
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### PCB Design

Symbol and Footprint 252-110	URL	Download
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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

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

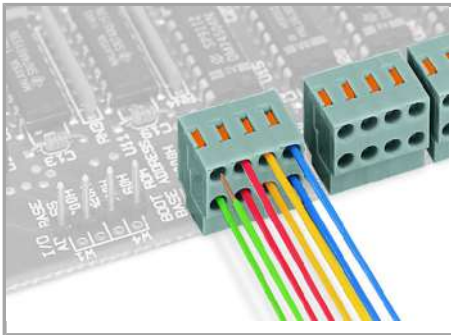
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

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

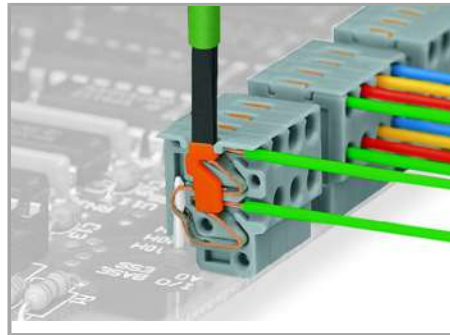
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## Installation Notes

### Conductor termination



Conductor termination directly on the PCB or wiring prior to mounting on PCB – 252 Series



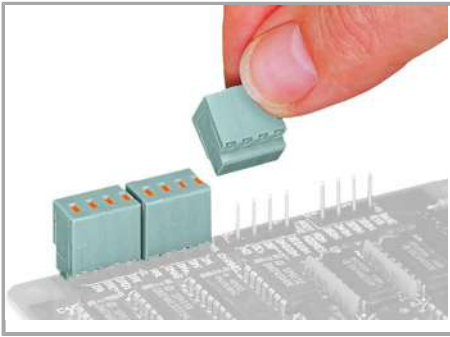
Removing a conductor via push-button – 252 Series

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Plugging a compact PCB connector – 252 Series.

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