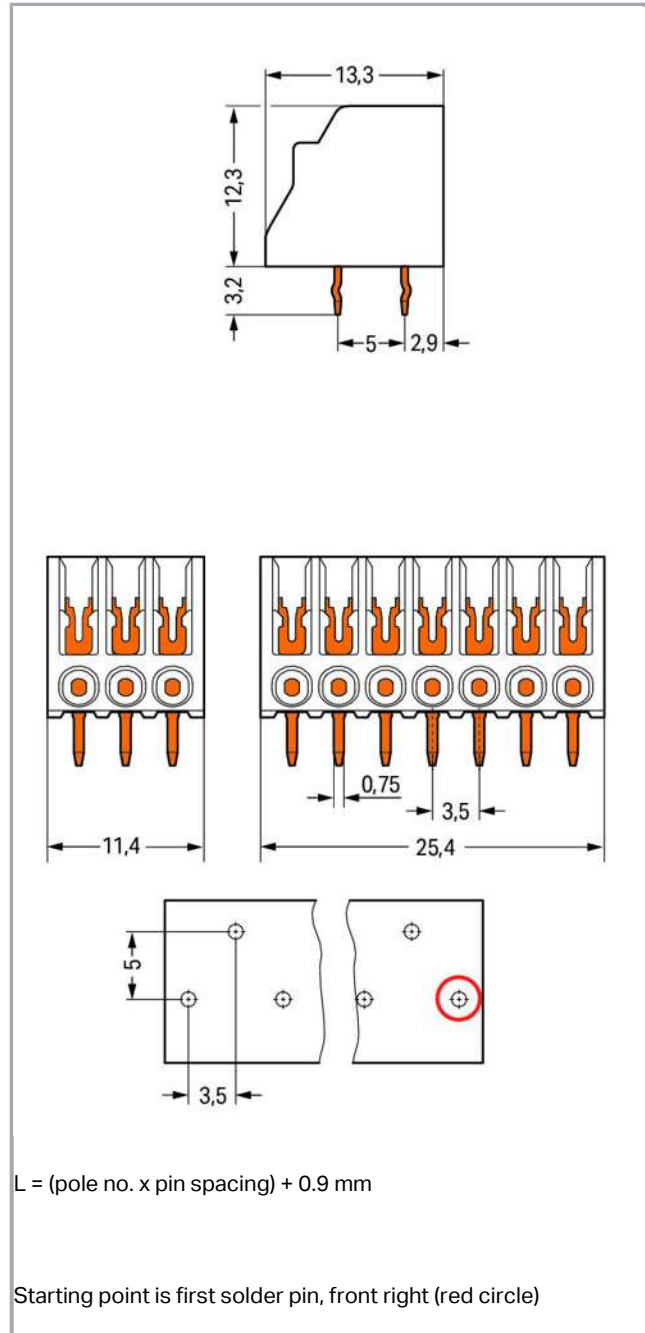


**Data sheet | Item number: 251-310**

PCB terminal block; 1 mm<sup>2</sup>; Pin spacing 3.5 mm; 10-pole; PUSH WIRE® & FIT CLAMP®; 1,00 mm<sup>2</sup>; white



[www.wago.com/251-310](http://www.wago.com/251-310)



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

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## Item description

- Compact Combi PCB terminal blocks ideal for automated wiring in the lighting industry
- Low conductor insertion forces
- PUSH WIRE® and IDC connections – ideal for automated wiring systems.

## Data

### Electrical data

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

Ratings per	IEC/EN 60664-1
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	6 A
Legend (ratings)	(III / 2) ± Overvoltage category III / Pollution degree 2

#### Approvals per UL 1059

Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	4 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	4 A
Approvals per	UL 1059

### Connection data

Connection technology	PUSH WIRE®
Number of connection points (connection type)	1
Actuation type	Operating tool
Solid conductor	0,5 ... 1 mm <sup>2</sup> / 20 ... 18 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Conductor entry angle to the PCB	0°
No. of poles	10
Connection technology 2	IDC

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



Number of connection points	1
Solid conductor (2)	0,5 mm <sup>2</sup> / 20 AWG
Fine-stranded conductor (2)	0,75 mm <sup>2</sup> / 18 ... 18 AWG
Note (conductor cross-section) 2	IDC connection: PVC insulation, single
Strip length (2)	7.5 ... 8.5 mm / 0.3 ... 0.33 inch
Conductor entry angle to the PCB 2	0°
Total number of connection points	10
Total number of potentials	10
Number of connection types	2
Number of levels	2
Note (conductor cross-section)	IDC-Anschluss: PVC-Isolierung, einfach

### Geometrical Data

Pin spacing	3,5 mm / 0.138 inch
Width	35,9 mm / 1.413 inch
Height	15,5 mm / 0.61 inch
Height from the surface	12,3 mm / 0.484 inch
Depth	13,3 mm / 0.524 inch
Solder pin length	3.2 mm
Solder pin dimensions	0,5 x 0,75 mm
Drilled hole diameter (tolerance)	1,1 <sup>(+0,1)</sup> mm

### Mechanical data

Design	Low Version
--------	-------------

### PCB contact

PCB contact	THT
Solder pin arrangement	over the entire terminal strip (staggered)
Number of solder pins per potential	1

### Material Data

Color	white
Material group	I
Insulating material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)

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Contact material	Copper alloy
Contact plating	tin-plated
Fire load	0.077 MJ
Weight	4 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	CH
GTIN	4044918836494
Customs Tariff No.	85369010000

### Approvals / Certificates

#### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60998	2110204.10
	CCA DEKRA Certification B.V.	EN 60998	NTR-NL 6286
	VDE VDE Prüf- und Zertifizierungsinstitut	EN 60998	40028031

### Counterpart

### Compatible products

tools

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

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Item no.: 206-830  
Disconnection tool

[www.wago.com/206-830](http://www.wago.com/206-830)



Item no.: 206-831  
Operating tool

[www.wago.com/206-831](http://www.wago.com/206-831)

## 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 251-310	URL	Download
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### CAE data

EPLAN Data Portal 251-310	URL	Download
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### PCB Design

Symbol and Footprint 251-310	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
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0

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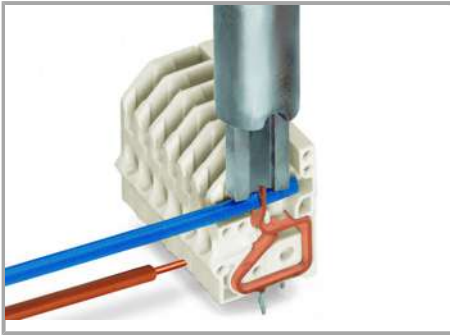
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

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

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## Installation Notes

### Conductor termination



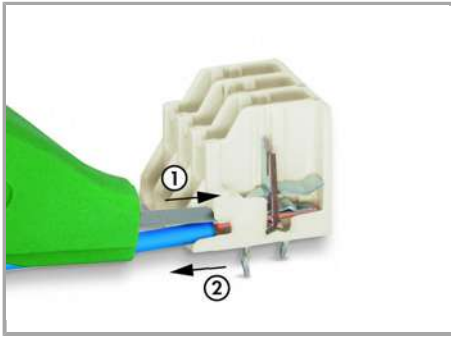
Conductor termination:

PUSH WIRE®: Simply push in conductor.

IDC: Push in conductor via 206-831  
Operating Tool.

### Conductor removal

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



Conductor removal:

**PUSH WIRE®:** Twist conductor and pull out, or fully insert 206-830 Disconnection Tool over the conductor (1) and pull it out (2).

**IDC:** Pull up vertically on conductor to remove it (10x reconnection cycles possible when used properly – before re-using, cut off old contact point from conductor).

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