Data sheet | Item number: 251-304

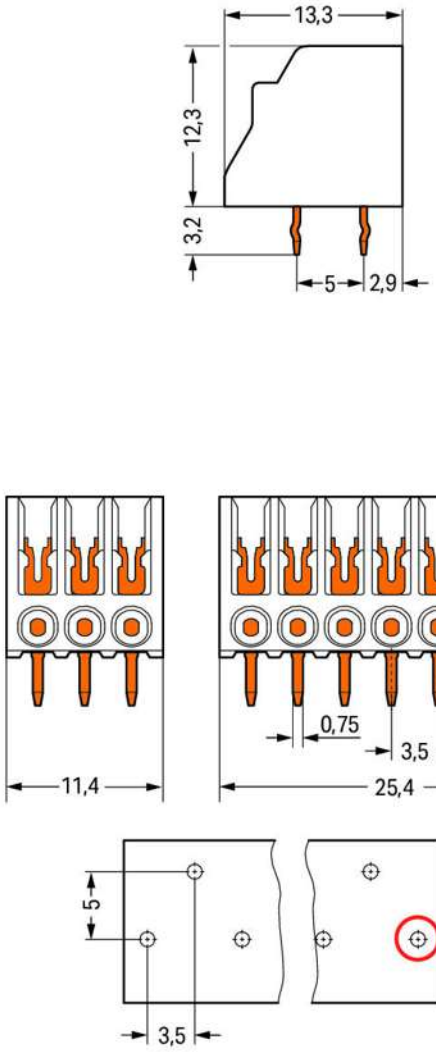
PCB terminal block; 1 mm²; Pin spacing 3.5 mm; 4-pole; PUSH WIRE® & FIT CLAMP®; 1,00 mm²; white

www.wago.com/251-304

RoHS ✓ Compliant

BOMcheck.net

Color:



L = (pole no. x pin spacing) + 0.9 mm

Starting point is first solder pin, front right (red circle)

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 mm² / 20 … 18 AWG
Strip length	8 … 9 mm / 0.31 … 0.35 inch
Conductor entry angle to the PCB	0 °
No. of poles	4
Connection technology 2	IDC

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Number of connection points	1
Solid conductor (2)	0,5 mm² / 20 AWG
Fine-stranded conductor (2)	0,75 mm² / 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	4
Total number of potentials	4
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	14,9 mm / 0.587 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 $^{(+0,1)}$ 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	0.033 MJ
Weight	1.7 g

Environmental Requirements

Limit temperature range	-60 … +105 °C

Commercial data

Product Group	4 (Printed Circuit)
Packaging type	BOX
Country of origin	CH
GTIN	4055143636162
Customs Tariff No.	85369010000

Approvals / Certificates

Country specific Approvals

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

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Germany GmbH	UL 1059	20160630-E45172

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Counterpart

Compatible products

tools

	**Item no.: 206-830** Disconnection tool	www.wago.com/206-830
	**Item no.: 206-831** Operating tool	www.wago.com/206-831

Downloads

Documentation

Additional Information

Technical explanations	Apr 3, 2019	pdf 3.6 MB	Download

CAD/CAE-Data

CAD data

2D/3D Models 251-304	URL	Download

CAE data

EPLAN Data Portal 251-304	URL	Download

PCB Design

Symbol and Footprint 251-304 CAx data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.	URL	Download

Supported formats:

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad

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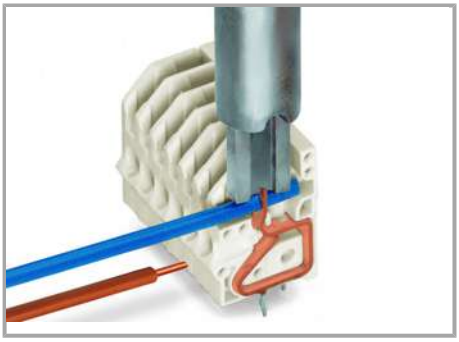
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 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

Installation Notes

Conductor termination



Conductor termination:

PUSH WIRE®: Simply push in conductor.

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

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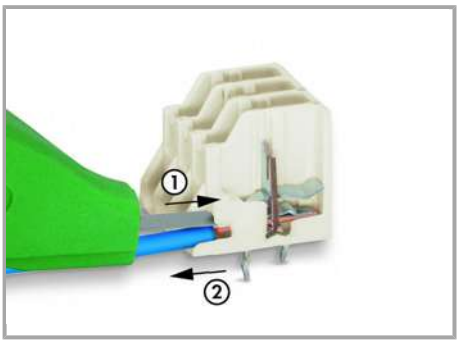
Conductor removal



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).

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