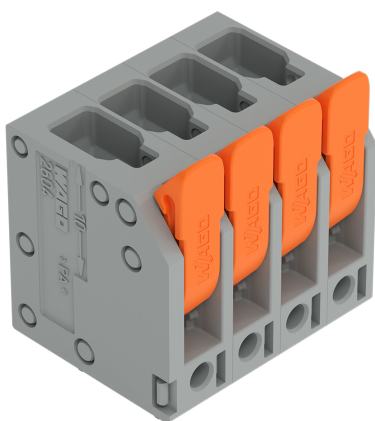


Data Sheet | Item Number: 2604-3104

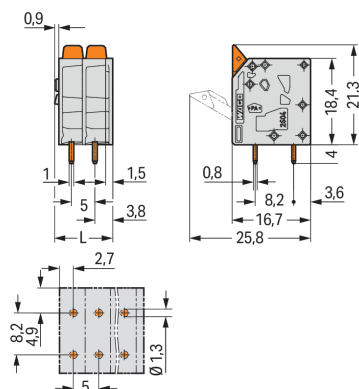
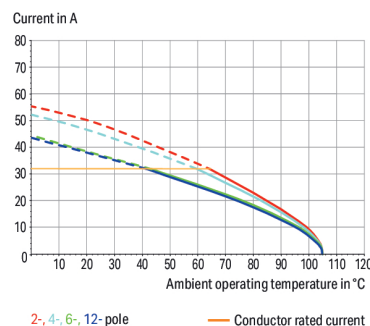
PCB terminal block; lever; 4 mm²; Pin spacing 5 mm; 4-pole; Push-in CAGE CLAMP®; gray

<https://www.wago.com/2604-3104>



Color: ■ gray

Current-Carrying Capacity Curve
Pin spacing: 5 mm / Conductor cross-section: 4 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 1



Dimensions in mm

L = (pole no. - 1) x pin spacing + 7.4 mm

PCB terminal block, 2604 Series, 90° conductor entry to board

Our PCB terminal block (item number 2604-3104) makes connections quick and easy. It is a universal connector that can be used almost anywhere, e.g., as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. Strip lengths must be between 9 and 11 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. It allows direct insertion of both solid and fine-stranded conductors with ferrules without the need for tools—all thanks to its pluggable design. The dimensions are (22.4 x 25.3 x 16.7) mm (width x height x depth). This PCB terminal block is suitable for conductor cross-sections ranging from 0.2 mm² to 4 mm².

Open the lever, insert the conductor, close the lever!

The contact surface is tin-coated. A lever is used to operate this PCB terminal block. The PCB terminal block is designed for THT soldering. The conductor is designed to be inserted at a 90° angle.

- Actuation via lever
- Number of poles: 4
- Soldering via THT
- Pin spacing: 5 mm
- Permanently secure connections

Notes	
General safety information	NOTICE: Observe installation and safety instructions!
	To be sold only with installation instructions!
Variants:	Other pole numbers Direct marking Other colors Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/ .

Electrical data				
Ratings per		IEC/EN 60664-1		
Overvoltage category		III	III	II
Pollution degree		3	2	2
Nominal voltage		320 V	400 V	630 V
Rated impulse withstand voltage		4 kV	4 kV	4 kV
Rated current		32 A	32 A	32 A
Approvals per		UL 1059		
Use group		B	C	D
Rated voltage		300 V	-	300 V
Rated current		20 A	-	10 A
Approvals per		CSA		
Use group		B	C	D
Rated voltage		300 V	-	300 V
Rated current		20 A	-	5 A

Connection Data		
Clamping units	4	
Total number of potentials	4	
Number of connection types	1	
Number of levels	1	
Connection 1		
Connection technology	Push-in CAGE CLAMP®	
Actuation type	Lever	
Solid conductor	0.2 ... 4 mm² / 24 ... 12 AWG	
Fine-stranded conductor	0.2 ... 4 mm² / 24 ... 12 AWG	
Fine-stranded conductor; with insulated fer-rule	0.25 ... 2.5 mm²	
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm²	
Fine-stranded conductor; with twin ferrule	0.25 ... 1.5 mm²	
Strip length	9 ... 11 mm / 0.35 ... 0.43 inches	
Conductor connection direction to PCB	90 °	
Pole number	4	

Physical data	
Pin spacing	5 mm / 0.197 inches
Width	22.4 mm / 0.882 inches
Height	25.3 mm / 0.996 inches
Height from the surface	21.3 mm / 0.839 inches
Depth	16.7 mm / 0.657 inches
Solder pin length	4 mm
Solder pin dimensions	0.8 x 1 mm
Drilled hole diameter	1.3 ^(+0.1) mm

PCB contact		
PCB contact		THT
Solder pin arrangement		over the entire terminal strip (in-line)
Number of solder pins per potential		2

Material data		
Note (material data)		Information on material specifications can be found here
Color		gray
Material group		I
Insulation material (main housing)		Polyamide (PA66)
Flammability class per UL94		V0
Clamping spring material		Chrome-nickel spring steel (CrNi)
Contact material		Electrolytic copper (E _{Cu})
Contact Plating		Tin
Fire load		0.097 MJ
Actuator color		orange
Weight		6.8 g

Environmental requirements		
Limit temperature range	-60 ... +105 °C	Environmental Testing Test specification: Railway applications – Rolling stock – Electronic equipment DIN EN 50155 (VDE 0115-200):2022-06
Processing temperature	-35 ... +60 °C	
Continuous operating temperature	-60 ... +105 °C	
		Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests DIN EN 61373 (VDE 0115-0106):2011-04
		Spectrum/Mounting location Service life test, Category 1, Class A/B
		Functional test with noise-like oscillations Test passed according to Section 8 of the standard
		Frequency f₁ = 5 Hz to f₂ = 150 Hz
		Acceleration 0.101g (highest test level used for all axes)
		Test duration per axis 10 min.
		Test directions X, Y and Z axes
		Monitoring of contact faults and interruptions Passed
		Voltage drop measurement before and after each axis Passed
		Simulated service life test through increased levels of noise-like oscillations Test passed according to Section 9 of the standard
		Frequency f₁ = 5 Hz to f₂ = 150 Hz
		Acceleration 0.572g (highest test level used for all axes)
		Test duration per axis 5 h
		Test directions X, Y and Z axes
		Extended testing: Monitoring of contact faults and interruptions Passed
		Extended testing: Voltage drop measurement before and after each axis Passed
		Shock test Test passed according to Section 10 of the standard
		Shock pulse form Half sine
		Acceleration 5g (highest test level used for all axes)
		Shock duration 30 ms
		Number of shocks (per axis) 3 pos. und 3 neg.
		Test directions X, Y and Z axes
		Extended testing: Monitoring of contact faults and interruptions Passed

Environmental Testing		
Extended testing: Voltage drop measurement before and after each axis	Passed	
Vibration and shock stress for rolling stock equipment	Passed	

Commercial data		
PU (SPU)		90 pcs
Packaging type		Box
Country of origin		PL
GTIN		4066966435184
Customs tariff number		85369010000

Product Classification		
UNSPSC		39121409
eCl@ss 10.0		27-44-04-01
eCl@ss 9.0		27-44-04-01
ETIM 9.0		EC002643
ETIM 10.0		EC002643
ECCN		NO US CLASSIFICATION

Environmental Product Compliance		
RoHS Compliance Status		Compliant, No Exemption

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 60947-7-4	NL-61583	Railway WAGO GmbH & Co. KG	-	Z00004411.000
KEMA/KEUR DEKRA Certification B.V.	EN 60947-7-4	71-100535			
UL Underwriters Laboratories Inc.	UL 1059	E45172			

Approvals for hazardous areas

		
Approval	Standard	Certificate Name
AEx Underwriters Laboratories Inc.	UL 60079	E185892
ATEX Physikalisch Technische Bundesanstalt	IEC 60079	PTB 24 ATEX 1005 U
IECEx Physikalisch Technische Bundesanstalt	IEC 60079	IECEx PTB 24.0016U

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2604-3104

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Documentation

Safety Data Sheet

Handling and Safety Instructions of PCB Terminal Blocks with Push-In Cage Clamp

pdf

393.90 KB

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Additional Information

Technical Section

03.04.2019

pdf

2027.26 KB

↓

CAD/CAE-Data

CAD data

2D/3D Models 2604-3104

↓

CAE data

ZUKEN Portal 2604-3104

↓

PCB Design

Symbol and Footprint via SamacSys 2604-3104

↓

Symbol and Footprint via Ultra Librarian 2604-3104

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1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule



Item No.: 216-241

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white



Item No.: 216-242

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



Item No.: 216-243

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



Item No.: 216-244

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



Item No.: 216-246

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



Item No.: 216-106

Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated; silver-colored

Installation Notes

Conductor termination



Insert fine-stranded conductors – and remove all conductors – via operating tool.

Conductor termination



Insert solid conductors via push-in termination.