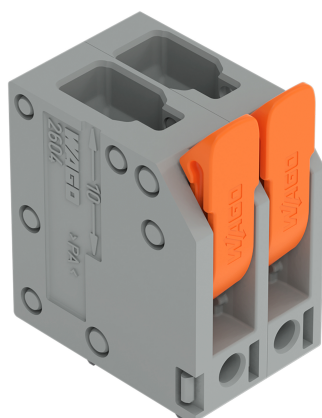


Data Sheet | Item Number: 2604-3102

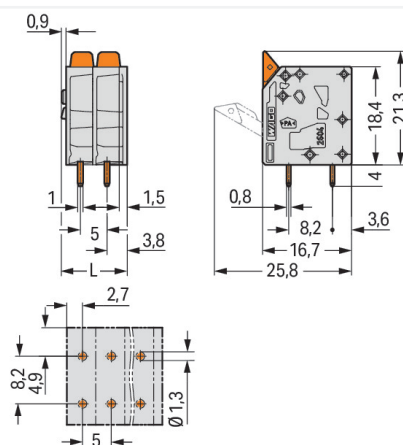
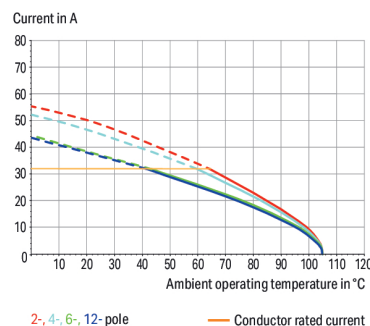
PCB terminal block; lever; 4 mm²; Pin spacing 5 mm; 2-pole; Push-in CAGE CLAMP®; gray

<https://www.wago.com/2604-3102>



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, Push-in CAGE CLAMP®

Our PCB terminal block (item number 2604-3102) is the ideal way to connect conductors quickly and securely. It is a universal connector that can be used practically 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. Dimensions: (12.4 x 25.3 x 16.7) mm (width x height x depth). Depending on the conductor type, this PCB terminal block is ideal for conductor cross sections ranging from 0.2 mm² to 4 mm². The contact surface is coated with tin. This PCB terminal block is operated with a lever. THT is used to solder the PCB terminal block. Insert the conductor into the board at a 90° angle..



Notes	
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	2
Total number of potentials	2
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 ferrule	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	2

Physical data	
Pin spacing	5 mm / 0.197 inches
Width	12.4 mm / 0.488 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		0.053 MJ
Actuator color		orange
Weight		3.6 g

Environmental requirements		
Limit temperature range	-60 ... +105 °C	Environmental Testing Test specification: Railway applications – Rolling stock – Electronic equipment Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests 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
Processing temperature	-35 ... +60 °C	
Continuous operating temperature	-60 ... +105 °C	

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)	170 pcs	
Packaging type	Box	
Country of origin	PL	
GTIN	4066966435481	
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			

Downloads

Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 2604-3102	



Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data

CAD data
2D/3D Models 2604-3102

CAE data
ZUKEN Portal 2604-3102

PCB Design
Symbol and Footprint via SamacSys 2604-3102
Symbol and Footprint via Ultra Librarian 2604-3102

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.