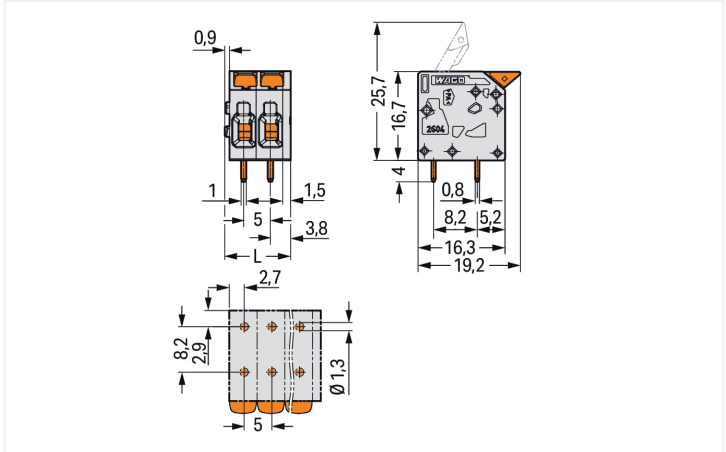


**Data Sheet | Item Number: 2604-1102**  
PCB terminal block; lever; 4 mm²; Pin spacing 5 mm; 2-pole; Push-in CAGE CLAMP®; gray  
<https://www.wago.com/2604-1102>

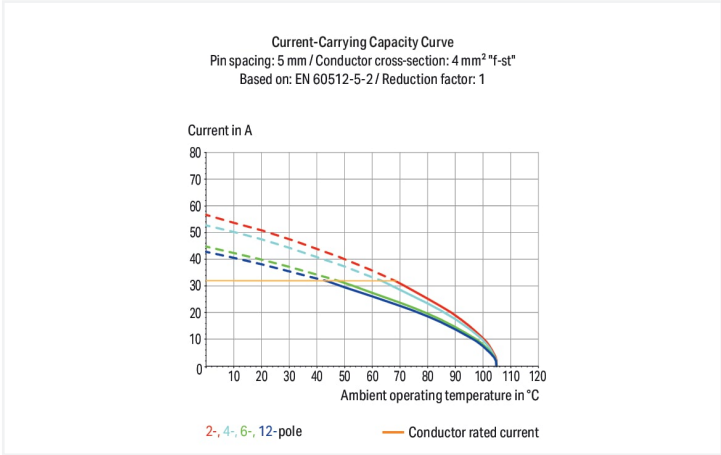


Color: ■ gray

Similar to illustration



Dimensions in mm  
L = (pole no. – 1) x pin spacing + 7.4 mm



PCB terminal block, 2604 Series, lever

Our PCB terminal block (item number 2604-1102) makes connecting wires 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. This PCB terminal block has a rated voltage of 400 V and can handle currents up to 32 A, making it ideal for high-load applications. Conductors can only be connected to this PCB terminal block if their strip length is between 9 mm and 11 mm. Featuring one conductor terminal along with Push-in CAGE CLAMP®, this product outperforms the competition. 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 12.4 x 20.7 x 19.2 mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.2 mm² to 4 mm². Up to two potentials / two poles can be connected to this terminal strip using two clamping points on one level. The gray housing is made of polyamide (PA66) for insulation, the contacts are made of electrolytic copper (ECu), and the clamping spring is made of chrome-nickel spring steel (CrNi). Tin is used for coating the contact surfaces. 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 into the board at a 0° angle. The solder pins measure 0.8 x 1 mm in cross-section and 4 mm in length and are organized over the entire terminal strip (in-line). There are two solder pins per potential.

Notes	
Variants:	Other pole numbers Direct marking Other colors Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .

Electrical data						
Ratings per		IEC/EN 60664-1			Approvals per	
		UL 1059				
Overvoltage category	III	III	II	Use group	B	C
Pollution degree	3	2	2	Rated voltage	300 V	-
Nominal voltage	320 V	400 V	630 V	Rated current	20 A	-
Rated surge voltage	4 kV	4 kV	4 kV			10 A
Rated current	32 A	32 A	32 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	Connection 1	
Total number of potentials	2	Connection technology	Push-in CAGE CLAMP®
Number of connection types	1	Actuation type	Lever
Number of levels	1	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	0°
		Pole number	2

Physical data	
Pin spacing	5 mm / 0.197 inches
Width	12.4 mm / 0.488 inches
Height	20.7 mm / 0.815 inches
Height from the surface	16.7 mm / 0.657 inches
Depth	19.2 mm / 0.756 inches
Solder pin length	4 mm
Solder pin dimensions	0.8 x 1 mm
Drilled hole diameter with tolerance	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)	<a href="#">Information on material specifications can be found here</a>
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 <sub>Cu</sub> )
Contact Plating	Tin
Fire load	0.078 MJ
Actuator color	orange
Weight	3.3 g



Environmental requirements	
Limit temperature range	-60 ... +105 °C
Processing temperature	-35 ... +60 °C
Continuous operating temperature	-60 ... +105 °C
Environmental Testing (Environmental Conditions)	
Test specification	DIN EN 50155 (VDE 0115-200):2022-06
Railway applications – Rolling stock – Electronic equipment	
Test procedure	DIN EN 61373 (VDE 0115-0106):2011-04
Railway applications – Rolling stock equipment – Shock and vibration tests	
Spectrum/Installation location	Service life test, Category 1, Class A/B
Function test with noise-like vibration	Test passed according to Section 8 of the standard
Frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz
Acceleration	0.101g (highest test level used for all axes) 0.572g (highest test level used for all axes) 5g (highest test level used for all axes)
Test duration per axis	10 min. 5 h
Test directions	X, Y and Z axes X, Y and Z axes X, Y and Z axes
Monitoring for contact faults/interruptions	Passed
Voltage drop measurement before and after each axis	Passed
Simulated service life test through increased levels of noise-like vibration	Test passed according to Section 9 of the standard
Extended test scope: Monitoring for contact faults/interruptions	Passed Passed
Extended test scope: Voltage drop measurement before and after each axis	Passed Passed
Shock test	Test passed according to Section 10 of the standard
Shock form	Half sine
Shock duration	30 ms
Number of shocks per axis	3 pos. und 3 neg.
Vibration and shock stress for rolling stock equipment	Passed




Commercial data		
eCl@ss 10.0		27-44-04-01
eCl@ss 9.0		27-44-04-01
ETIM 9.0		EC002643
ETIM 8.0		EC002643
PU (SPU)		170 pcs
Packaging type		Box
Country of origin		PL
GTIN		4066966435603
Customs tariff number		85369010000

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 2604-1102		

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 2604-1102	ZUKEN Portal 2604-1102

PCB Design	
Symbol and Footprint via SamacSys 2604-1102	↓
Symbol and Footprint via Ultra Librarian 2604-1102	↓

1 Compatible Products
1.1 Optional Accessories
1.1.1 Ferrule
1.1.1.1 Ferrule

<a href="#">Item No.: 216-263</a> Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	<a href="#">Item No.: 216-264</a> 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	<a href="#">Item No.: 216-266</a> 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	<a href="#">Item No.: 216-267</a> Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray
<a href="#">Item No.: 216-208</a> Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow	<a href="#">Item No.: 216-108</a> Ferrule; Sleeve for 6 mm² / AWG 10; uninsulated; electro-tin plated; silver-colored		

Installation Notes
Conductor termination



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

Conductor termination
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Insert solid conductors via push-in termination.

