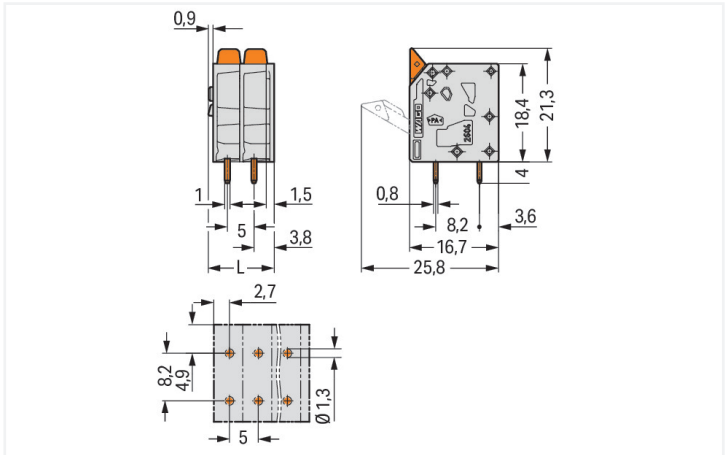
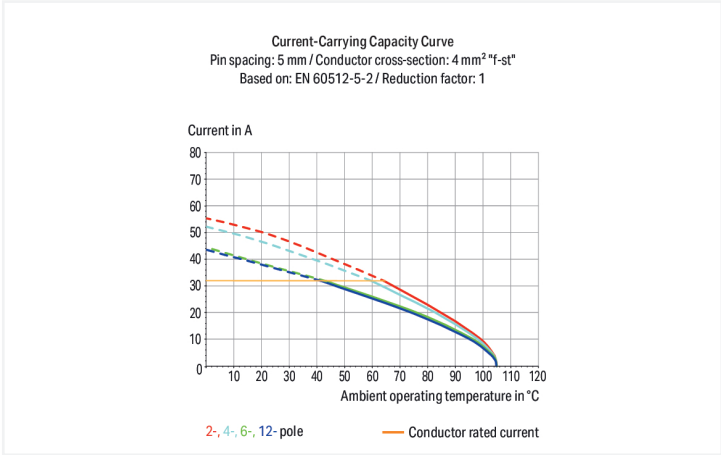




Color: ■ gray



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



PCB terminal block, 2604 Series, lever

Easily, quickly and safely connect conductors with this PCB terminal block (item number 2604-3103). It is ideal for custom installations with different mounting types. Rated current and voltage are key factors to consider when selecting a PCB terminal block, as they indicate possible applications and uses. This product has a rated voltage of 400 V and a rated current of 32 A, making it suitable for high-load applications. Conductors should 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 is highly versatile. 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 17.4 x 25.3 x 16.7 mm (width x height x depth). Depending on the conductor type, this PCB terminal block is suitable for conductor cross sections ranging from 0.2 mm² to 4 mm². It comes with one level and three clamping points for connecting three potentials / 3 poles. The gray housing is made of polyamide (PA66) for insulation, the clamping spring is made of chrome-nickel spring steel (CrNi), and the contacts are made of electrolytic copper (ECu). The contact surface is coated with tin. A lever is used to operate this PCB terminal block. THT is used to assemble the PCB terminal block. Insert the conductor into the board at an angle of 90°. 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 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 surge 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			3			
Total number of potentials			3			
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	3

Physical data	
Pin spacing	5 mm / 0.197 inches
Width	17.4 mm / 0.685 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 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)	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	0.134 MJ
Actuator color	orange
Weight	5.2 g

Environmental requirements	
Limit temperature range	-60 ... +105 °C
Processing temperature	-35 ... +60 °C
Continuous operating temperature	-60 ... +105 °C
Environmental Testing	
Test specification: Railway applications – Rolling stock – Electronic equipment	DIN EN 50155 (VDE 0115-200):2022-06
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	f ₁ = 5 Hz to f ₂ = 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	f ₁ = 5 Hz to f ₂ = 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
Extended testing: Voltage drop measurement before and after each axis	Passed
Vibration and shock stress for rolling stock equipment	Passed



Commercial data	
PU (SPU)	120 pcs
Packaging type	Box
Country of origin	PL
GTIN	4066966390377
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 8.0	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
CSA DEKRA Certification B.V.	C22.2 No. 158	70117145			
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 2604-3103	



Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data

CAD data
2D/3D Models 2604-3103

CAE data
ZUKEN Portal 2604-3103

PCB Design

Symbol and Footprint via SamacSys 2604-3103
Symbol and Footprint via Ultra Librarian 2604-3103

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; in-
sulated; 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; in-
sulated; 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; insu-
lated; electro-tin plated; electrolytic cop-
per; gastight crimped; acc. to DIN 46228,
Part 4/09.90; red

Item No.: 216-244
Ferrule; Sleeve for 1.5 mm² / AWG 16; in-
sulated; 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; in-
sulated; 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; un-
insulated; electro-tin plated; silver colo-
red

Installation Notes

Conductor termination



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

Conductor termination



Insert solid conductors via push-in termination.