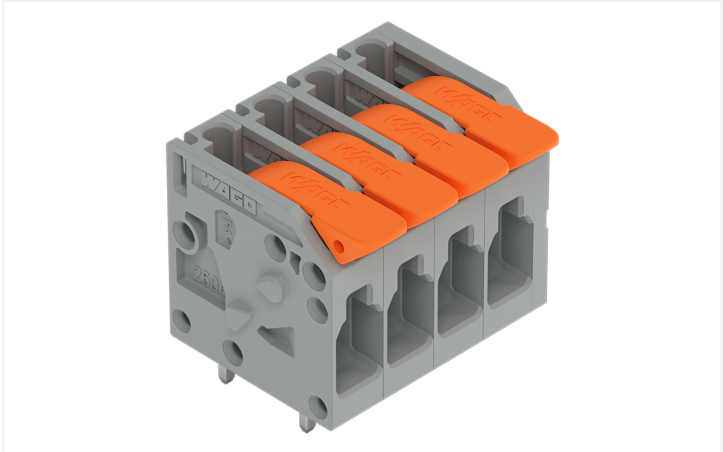
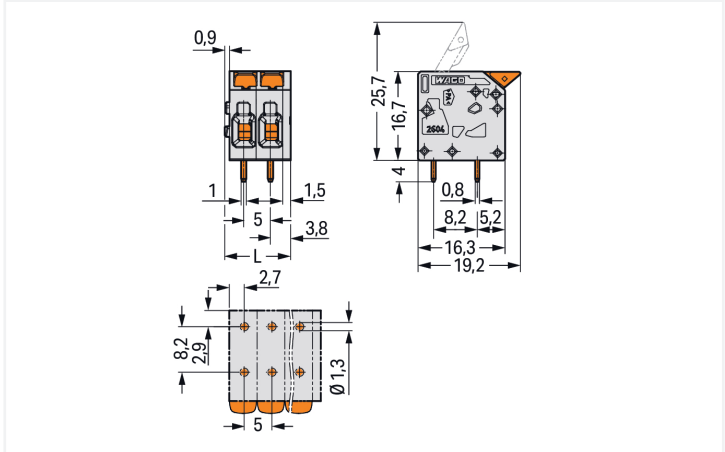


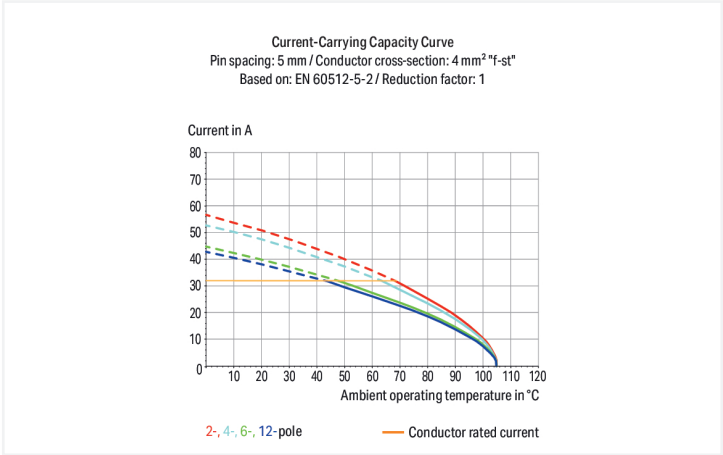


Color: ■ gray

Similar to illustration



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



PCB terminal block, 2604 Series, gray

This PCB terminal block (item number 2604-1110) streamlines wire connections, making them both quick and easy. 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. Rated current and voltage are important parameters when selecting a PCB terminal block, as they indicate how the product can be used. This product has a rated voltage of 400 V and a rated current of 32 A, making it suitable for high-load applications. Strip lengths must be between 9 mm and 11 mm when connecting conductors to this PCB terminal block. Featuring one conductor terminal along with Push-in CAGE CLAMP®, this product is highly versatile. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, boasting a key feature: It allows direct insertion of both solid and fine-stranded conductors with ferrules without needing tools. No preparation is required; for example, crimping the conductor's ferrule is not necessary. The dimensions are 52.4 x 20.7 x 19.2 mm (width x height x depth). Depending on the conductor type, this PCB terminal block is designed for conductor cross sections ranging from 0.2 mm² to 4 mm². Up to ten potentials / ten poles can be connected to this terminal strip using ten clamping points on one level. 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). 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 at a 0° angle.. The solder pins are organized over the entire terminal strip (in-line) and are 0.8 x 1 mm cross-section and 4 mm in length. Each potential has two solder pins.



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	10
Total number of potentials	10
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	0 °
Pole number	10

Physical data	
Pin spacing	5 mm / 0.197 inches
Width	52.4 mm / 2.063 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)		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		0.4 MJ
Actuator color		orange
Weight		15 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 Functional test with noise-like oscillations Frequency Acceleration Test duration per axis Test directions Monitoring of contact faults and interruptions Voltage drop measurement before and after each axis Simulated service life test through increased levels of noise-like oscillations Frequency Acceleration Test duration per axis Test directions Extended testing: Monitoring of contact faults and interruptions Extended testing: Voltage drop measurement before and after each axis Shock test Shock pulse form Acceleration Shock duration Number of shocks (per axis) Test directions
Processing temperature	-35 ... +60 °C	
Continuous operating temperature	-60 ... +105 °C	
DIN EN 50155 (VDE 0115-200):2022-06		
DIN EN 61373 (VDE 0115-0106):2011-04		
Service life test, Category 1, Class A/B		
Test passed according to Section 8 of the standard		
f ₁ = 5 Hz to f ₂ = 150 Hz		
0.101g (highest test level used for all axes)		
10 min.		
X, Y and Z axes		
Passed		
Passed		
Test passed according to Section 9 of the standard		
f ₁ = 5 Hz to f ₂ = 150 Hz		
0.572g (highest test level used for all axes)		
5 h		
X, Y and Z axes		
Passed		
Passed		
Test passed according to Section 10 of the standard		
Half sine		
5g (highest test level used for all axes)		
30 ms		
3 pos. und 3 neg.		
X, Y and Z axes		



Environmental Testing

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)	40 pcs
Packaging type	Box
Country of origin	PL
GTIN	4055143564373
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
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Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 60947-7-4	NL-61583
KEMA/KEUR DEKRA Certification B.V.	EN 60947-7-4	71-100535
UL Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
Railway WAGO GmbH & Co. KG	-	Z00004411.000



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2604-1110

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Documentation

Additional Information

Technical Section

03.04.2019

pdf

2027.26 KB

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CAD/CAE-Data

CAD data

2D/3D Models 2604-1110

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CAE data

ZUKEN Portal 2604-1110

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PCB Design

Symbol and Footprint via SamacSys 2604-1110

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Symbol and Footprint via Ultra Librarian 2604-1110

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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; un-insulated; 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.