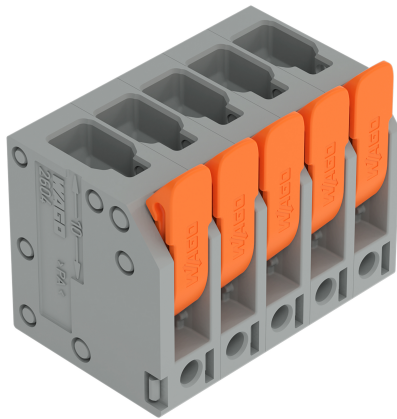


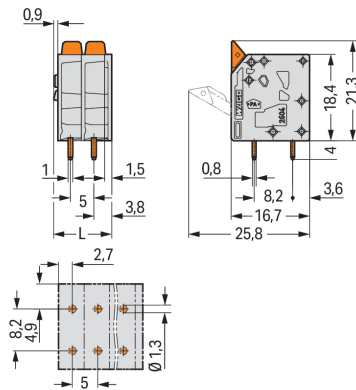
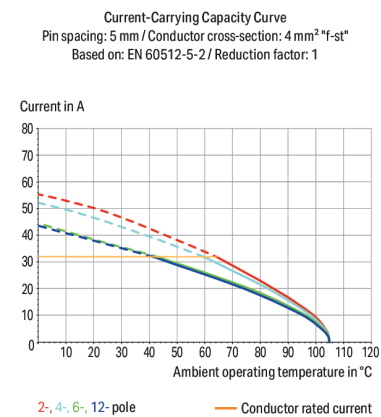
Data Sheet | Item Number: 2604-3105

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

<https://www.wago.com/2604-3105>



Color: gray



Dimensions in mm

$$L = (\text{pole no.} - 1) \times \text{pin spacing} + 7.4 \text{ mm}$$

PCB terminal block, 2604 Series, solder pin dimensions 0.8 x 1 mm

Our PCB terminal block (item number 2604-3105) is the perfect way to connect conductors quickly and securely. It is a universal connector that can be used almost anywhere, for example, as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. Conductors can only be connected to this PCB terminal block if their strip length is between 9 and 11 mm. This product features one conductor terminal and utilizes Push-in CAGE CLAMP®. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, offering a key advantage: both solid and fine-stranded conductors with ferrules can be directly inserted without the need for tools or any preparation, such as crimping the ferrule. Dimensions: (27.4 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. The contact surface is coated with tin. 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 an angle of 90°..



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	II
Pollution degree		3	2
Nominal voltage		320 V	630 V
Rated impulse withstand voltage		4 kV	4 kV
Rated current		32 A	32 A
Approvals per		UL 1059	
Use group		B	D
Rated voltage		300 V	300 V
Rated current		20 A	10 A

Approvals per		CSA	
Use group		B	D
Rated voltage		300 V	300 V
Rated current		20 A	5 A

Connection Data	
Clamping units	5
Total number of potentials	5
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	5

Physical data	
Pin spacing	5 mm / 0.197 inches
Width	27.4 mm / 1.079 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	0.12 MJ
Actuator color	orange
Weight	8.4 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	Spectrum/Mounting location	DIN EN 61373 (VDE 0115-0106):2011-04
		Functional test with noise-like oscillations	Service life test, Category 1, Class A/B	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	

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)	70 pcs
Packaging type	Box
Country of origin	PL
GTIN	4066966390476
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 2604-3105	



Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data

CAD data
2D/3D Models 2604-3105

CAE data
ZUKEN Portal 2604-3105

PCB Design
Symbol and Footprint via SamacSys 2604-3105
Symbol and Footprint via Ultra Librarian 2604-3105

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.