

Data Sheet | Item Number: 250-404

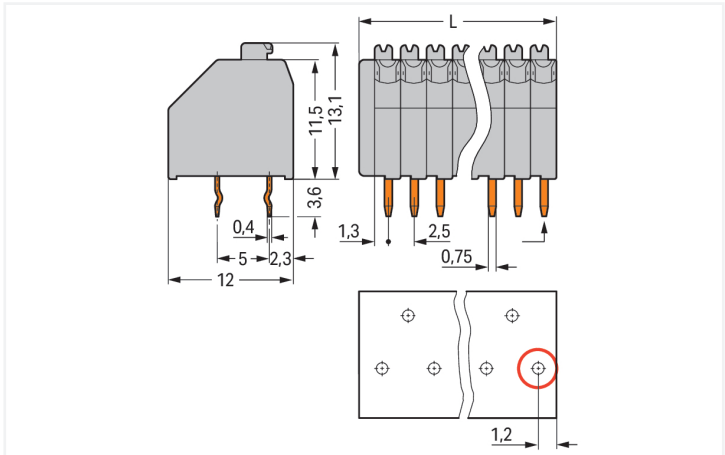
PCB terminal block; push-button; 0.5 mm²; Pin spacing 2.5 mm; 4-pole; Push-in CAGE CLAMP®; gray

<https://www.wago.com/250-404>



Color: ■ gray

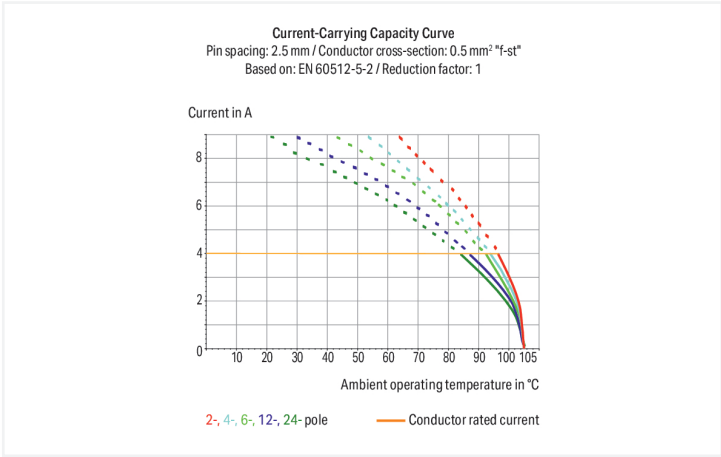
Similar to illustration



Dimensions in mm

L = (pole no. x pin spacing) + 1.5 mm

First solder pin, front right (red circle)



PCB terminal block, 250 Series, push-button

This PCB terminal block (item number 250-404) is designed for quick and easy connections. You can rely on tried and tested safety with these PCB terminal blocks, perfect for a wide range of applications when designing your devices. This PCB terminal block has a rated voltage of 160 V and can handle currents up to 4 A. Strip lengths must be between 8.5 mm and 9.5 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® technology provides a universal connection solution for all conductor types. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. The item's dimensions are 11.5 x 16.7 x 12 mm (width x height x depth). Depending on the type of conductor, this PCB terminal block is suitable for conductor cross sections ranging from 0.14 mm² to 0.5 mm². It features one level and four clamping points for connecting four potentials / 4 poles. The gray housing is made of polyamide (PA66) for insulation and the clamping spring is made of a Copper alloy. The contact surface is coated with tin. This PCB terminal block is operated with a push-button. The PCB terminal block is designed for THT soldering. Insert the conductor at an angle of 45°. The solder pins measure 0.4 x 0.75 mm in cross-section and 3.6 mm in length and are laid out over the entire terminal strip (staggered). There are one solder pin per potential.

Notes	
Variants:	Other pole numbers Other colors Mixed-color PCB connector strips Terminal strips with spacers Direct marking 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	160 V	160 V	320 V	
Rated surge voltage	2.5 kV	2.5 kV	2.5 kV	
Rated current	4 A	4 A	4 A	
Approvals per		CSA		
Use group	B	C	D	
Rated voltage	300 V	-	300 V	
Rated current	5 A	-	5 A	

Approvals per		UL 1059		
Use group	B	C	D	
Rated voltage	300 V	-	300 V	
Rated current	5 A	-	5 A	

Connection data				
Clamping units	4	Connection 1		
Total number of potentials	4	Connection technology	Push-in CAGE CLAMP®	
Number of connection types	1	Actuation type	Push-button	
Number of levels	1	Solid conductor	0.14 ... 0.5 mm² / 24 ... 20 AWG	
		Fine-stranded conductor	0.2 ... 0.5 mm² / 24 ... 20 AWG	
		Conductor diameter	0.4 ... 0.8 mm / 24 ... 20 AWG	
		Strip length	8.5 ... 9.5 mm / 0.33 ... 0.37 inches	
		Conductor connection direction to PCB	45 °	
		Pole number	4	
Physical data				
Pin spacing	Pin spacing		2.5 mm / 0.098 inches	
Width	Width		11.5 mm / 0.453 inches	
Height	Height		16.7 mm / 0.657 inches	
Height from the surface	Height from the surface		13.1 mm / 0.516 inches	
Depth	Depth		12 mm / 0.472 inches	
Solder pin length	Solder pin length		3.6 mm	
Solder pin dimensions	Solder pin dimensions		0.4 x 0.75 mm	
Drilled hole diameter with tolerance	Drilled hole diameter with tolerance		1.1 ^(+0.1) mm	
PCB contact				
PCB contact	PCB contact		THT	
Solder pin arrangement	Solder pin arrangement		over the entire terminal strip (staggered)	
Number of solder pins per potential	Number of solder pins per potential		1	
Material data				
Note (material data)	Note (material data)		[Information on material specifications can be found here](#)	
Color	Color		gray	
Material group	Material group		I	
Insulation material (main housing)	Insulation material (main housing)		Polyamide (PA66)	
Flammability class per UL94	Flammability class per UL94		V0	
Clamping spring material	Clamping spring material		Copper alloy	
Contact Plating	Contact Plating		Tin	
Fire load	Fire load		0.038 MJ	
Weight	Weight		1.6 g	



Environmental requirements	
Limit temperature range	-60 ... +105 °C

Commercial data	
Product Group	4 (Printed Circuit Connectors)
PU (SPU)	400 (100) pcs
Packaging type	Box
Country of origin	CH
GTIN	4044918642859
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	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7833/2	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CCA DEKRA Certification B.V.	EN 60998	NTR NL-7705/1			
CSA DEKRA Certification B.V.	C22.2	1132097			
KEMA/KEUR DEKRA Certification B.V.	EN 60947	2160584.18			
KEMA/KEUR DEKRA Certification B.V.	EN 60998	71-124629			
UL UL International Germany GmbH	UL 1059	E45172			

Approvals for marine applications

Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1869876-PDA
DNV DNV GL SE	-	TAE000016Z



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 250-404

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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 250-404

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CAE data

EPLAN Data Portal 250-404

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ZUKEN Portal 250-404

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PCB Design

Symbol and Footprint via SamacSys 250-404

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Symbol and Footprint via Ultra Librarian 250-404

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1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marking strip

[Item No.: 210-331/250-202](#)
Marking strips; as a DIN A4 sheet; MARKED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[Item No.: 210-331/250-207](#)
Marking strips; as a DIN A4 sheet; MARKED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[Item No.: 210-331/250-204](#)
Marking strips; as a DIN A4 sheet; MARKED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

[Item No.: 210-331/250-206](#)
Marking strips; as a DIN A4 sheet; MARKED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

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1.1.2 Test and measurement

1.1.2.1 Testing accessories



Item No.: 735-500
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm²

1.1.3 Tool

1.1.3.1 Operating tool

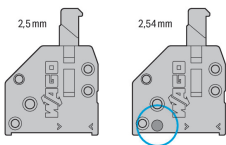


Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



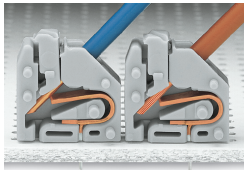
Item No.: 210-647
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes



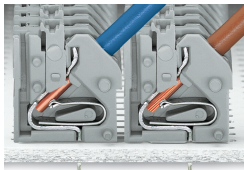
A groove at the back of the terminal strip differentiates between the two pin spacings.

Conductor termination



Inserting solid conductors via push-in termination.
Inserting fine-stranded conductors via push-buttons, 250 Series – 3.5 mm pin spacing.

Conductor termination

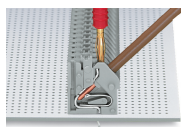


Space-saving wiring, 250 Series – 5 mm pin spacing.

Testing

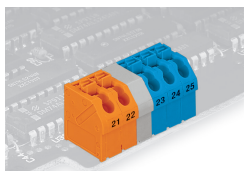


Testing with 11 mm Ø test pin, on the conductor, 250 Series – 2.5 ... 3.5 mm pin spacing.

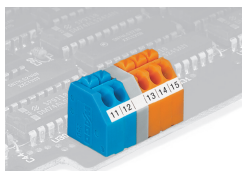


Testing with 2 mm Ø test plug, touch contact, 250 Series – 5 mm pin spacing.

Marking



Labeling via self-adhesive strips or direct marking. Mixed-color terminal strips (with or without spacer) are available upon request.



Labeling via self-adhesive strips or direct marking. Mixed-color terminal strips (with or without spacer) are available upon request.