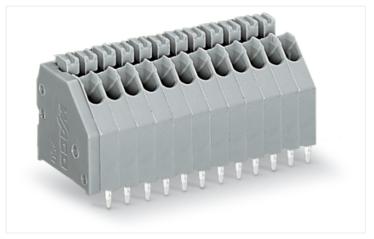
Data Sheet | Item Number: 250-321

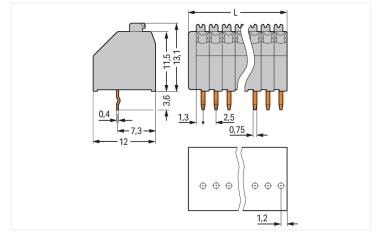
PCB terminal block; push-button; 0.5 mm²; Pin spacing 2.5 mm; 21-pole; Push-in

CAGE CLAMP®; gray

https://www.wago.com/250-321





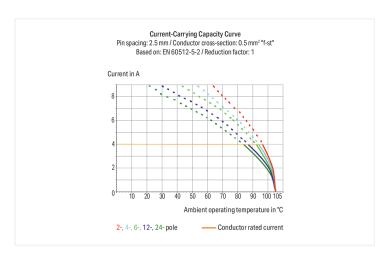


Color: I gray

Similar to illustration

Dimensions in mm

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



PCB terminal block, 250 Series, gray

This PCB terminal block (item number 250-321) streamlines wire connections, making them both quick and easy. You can count 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. Ensure that the strip lengths are 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 dimensions are 54 x 16.7 x 12 mm (width x height x depth). Depending on the conductor type, this PCB terminal block is suitable for conductor cross sections ranging from 0.14 mm² to 0.5 mm². It has one level. Twenty-one potentials can connect twenty-one poles using the twenty-one clamping points The gray housing is made of polyamide (PA66) for insulation and the clamping spring is made of a Copper alloy. Tin is used for coating the contact surfaces. A push-button is used to operate this PCB terminal block. The PCB terminal block is designed for THT soldering. Insert the conductor at a 45° angle.. The solder pins, which are 0.4 x 0.75 mm in cross-section and 3.6 mm long, are arranged over the entire terminal strip (in-line). 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	100 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		UL 1059	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	5 A	-	5 A

Approvals per		CSA	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	2 A	-	2 A

Connection data			
Clamping units	21	Connection 1	
Total number of potentials	21	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	21

Physical data		
Pin spacing	2.5 mm / 0.098 inches	
Width	54 mm / 2.126 inches	
Height	16.7 mm / 0.657 inches	
Height from the surface	13.1 mm / 0.516 inches	
Depth	12 mm / 0.472 inches	
Solder pin length	3.6 mm	
Solder pin dimensions	0.4 x 0.75 mm	
Drilled hole diameter with tolerance	1.1 ^(+0.1) mm	

PCB contact	
PCB contact	THT
Solder pin arrangement	over the entire terminal strip (in-line)
Number of solder pins per potential	1

Material data	
Note (material data)	
	<u>Information on material specifications can be found here</u>
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Copper alloy
Contact Plating	Tin
Fire load	0.174 MJ
Weight	7.3 g

Data Sheet | Item Number: 250-321

https://www.wago.com/250-321



Environmental requirements

Customs tariff number

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

Commercial dataProduct Group4 (Printed Circuit Connectors)PU (SPU)80 (20) pcsPackaging typeBoxCountry of originCHGTIN4050821573272

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





Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2 No. 158	1132097
DEKRA DEKRA Certification B.V.	EN 60947-7-4	71-141963
UL UL International Germany GmbH	UL 1059	E45172

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 250-321

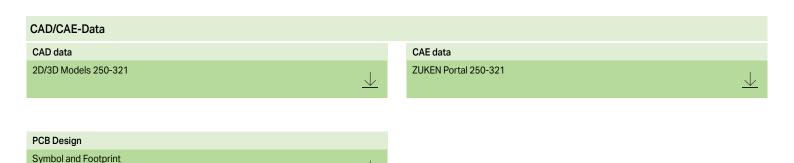


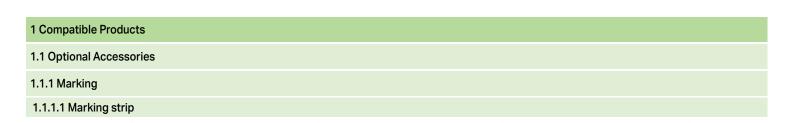
Data Sheet | Item Number: 250-321

https://www.wago.com/250-321



Documentation Additional Information Technical Section pdf 2027.26 KB





Item No.: 210-331/250-202

Marking strips; as a DIN A4 sheet; MAR-KED; 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; MAR-KED; 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; MAR-KED; 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; MAR-KED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

1.1.2 Test and measurement

1.1.2.1 Testing accessories

via SamacSys 250-321 Symbol and Footprint via Ultra Librarian 250-321

Item No.: 735-500 WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CATO; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm² https://www.wago.com/250-321



1.1.3 Tool

1.1.3.1 Operating tool



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

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

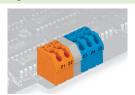


Testing with 11 mm \emptyset test pin, on the conductor, 250 Series – 2.5 ... 3.5 mm pin spacing.



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



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