

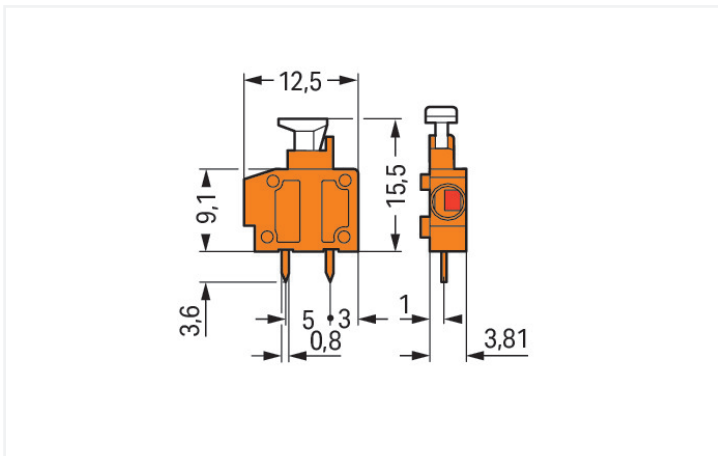
Data Sheet | Item Number: 235-101

Stackable PCB terminal block; push-button; 1.5 mm²; Pin spacing 3.81 mm; 1-pole;
Push-in CAGE CLAMP®; orange

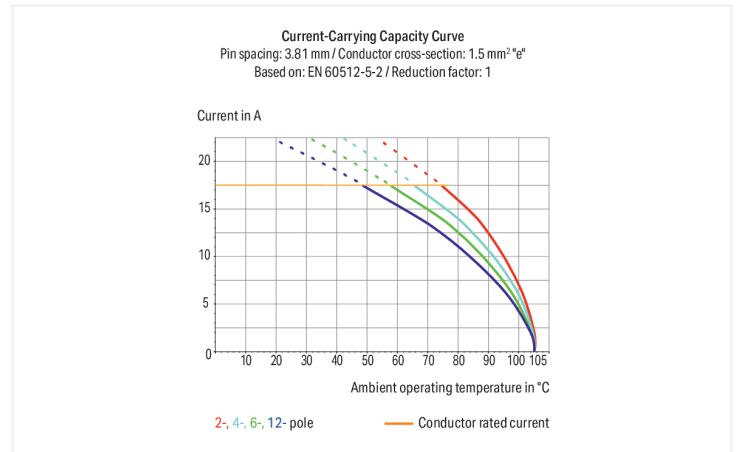
<https://www.wago.com/235-101>



Color: ■ orange



Dimensions in mm



PCB terminal block, 235 Series, orange

Our PCB terminal block (item number 235-101) is the perfect way to connect conductors quickly and easily. You can rely on trusted safety with these PCB terminal blocks, perfect for a host of applications when designing your devices. Strip lengths must be between 9 and 10 mm when connecting conductors to this PCB terminal block. Featuring one conductor terminal along with Push-in CAGE CLAMP®, this connector is highly versatile. Push-in CAGE CLAMP® technology provides a universal connection solution for all conductor types. It allows both solid and fine-stranded conductors with ferules to be inserted directly into the clamping point without the need for tools. Dimensions: (5.3 x 19.1 x 12.5) mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.5 mm² to 1.5 mm². Tin is used for coating the contact surfaces. A push-button is used to operate this PCB terminal block. THT is used to solder the PCB terminal block. The conductor is designed to be inserted into the board at a 0° angle..



Notes	
Variants:	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			Approvals per	
		UL 1059				
Overvoltage category	III	III	II		Use group	B C D
Pollution degree	3	2	2		Rated voltage	300 V - 300 V
Nominal voltage	200 V	320 V	500 V		Rated current	10 A - 10 A
Rated impulse withstand voltage	4 kV	4 kV	4 kV			
Rated current	17.5 A	17.5 A	17.5 A			

Approvals per		CSA		
Use group	B	C	D	
Rated voltage	300 V	-	-	
Rated current	10 A	-	-	

Connection Data			
Clamping units	1		
Total number of potentials	1		
Number of connection types	1		
Number of levels	1		
		Connection 1	
		Connection technology	Push-in CAGE CLAMP®
		Actuation type	Push-button
		Solid conductor	0.5 ... 1.5 mm² / 20 ... 16 AWG
		Fine-stranded conductor	0.75 ... 1.5 mm² / 20 ... 16 AWG
		Fine-stranded conductor; with insulated ferrule	0.25 ... 1 mm²
		Fine-stranded conductor; with uninsulated ferrule	0.25 ... 1 mm²
		Note (conductor cross-section)	Fine-stranded conductor 0.75 ... 1.5 mm² / 18 ... 16 AWG (I max. 4 A)
		Strip length	9 ... 10 mm / 0.35 ... 0.39 inches
		Conductor connection direction to PCB	0 °
		Pole number	1

Physical data		
Pin spacing		3.81 mm / 0.15 inches
Width		5.3 mm / 0.209 inches
Height		19.1 mm / 0.752 inches
Height from the surface		15.5 mm / 0.61 inches
Depth		12.5 mm / 0.492 inches
Solder pin length		3.6 mm
Solder pin dimensions		0.4 x 0.8 mm
!		1 (+0.1) mm



PCB contact		
PCB contact		THT
Solder pin arrangement		within the terminal block (in-line)
Number of solder pins per potential		2

Material data		
Note (material data)		Information on material specifications can be found here
Color		orange
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		0.01 MJ
Weight		0.6 g

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

Commercial data		
Product Group		4 (Printed Circuit Connectors)
PU (SPU)		800 (100) pcs
Packaging type		Box
Country of origin		CN
GTIN		4044918828109
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
CCA	EN 60947	NTR NL-7144	EU-Declaration of Confor-	-	-
DEKRA Certification B.V.			mity		
			WAGO GmbH & Co. KG		
CCA	EN 60998	NTR NL 6919	UK-Declaration of Confor-	-	-
DEKRA Certification B.V.			mity		
			WAGO GmbH & Co. KG		
KEMA/KEUR	EN 60947	2160584.38			
DEKRA Certification B.V.					



Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	24-0095975-PDA
DNV DNV GL SE	-	TAE000016Z

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 235-101
↓

Documentation

Additional Information
Technical Section
03.04.2019
pdf 2027.26 KB
↓

CAD/CAE-Data

CAD data
2D/3D Models 235-101
↓

CAE data
ZUKEN Portal 235-101
↓

PCB Design

Symbol and Footprint via SamacSys 235-101
↓
Symbol and Footprint via Ultra Librarian 235-101
↓



1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



Item No.: 235-500
End plate; snap-fit type; 1 mm thick; black



Item No.: 235-400
End plate; snap-fit type; 1 mm thick; blue



Item No.: 235-200
End plate; snap-fit type; 1 mm thick; dark gray



Item No.: 235-100
End plate; snap-fit type; 1 mm thick; gray



Item No.: 235-700
End plate; snap-fit type; 1 mm thick; light green



Item No.: 235-600
End plate; snap-fit type; 1 mm thick; orange



Item No.: 235-800
End plate; snap-fit type; 1 mm thick; red



Item No.: 235-850
End plate; snap-fit type; 1 mm thick; white



Item No.: 235-550
End plate; snap-fit type; 1 mm thick; yellow

1.2 Optional Accessories

1.2.1 Ferrule

1.2.1.1 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.: 216-141
Ferrule; Sleeve for 0.5 mm² / 20 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



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.: 216-262
Ferrule; Sleeve for 0.75 mm² / 18 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



Item No.: 216-142
Ferrule; Sleeve for 0.75 mm² / 18 AWG; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92



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.: 216-263
Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



Item No.: 216-143
Ferrule; Sleeve for 1 mm² / AWG 18; un-insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

1.2.2 Installation

1.2.2.1 Intermediate plate



Item No.: 235-316
Spacer; for doubling the pin spacing; orange

1.2.3 Marking

1.2.3.1 Marking strip



Item No.: 210-332/381-202
Marking strips; as a DIN A4 sheet; MARKED; 1-16 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



Item No.: 210-332/381-205
Marking strips; as a DIN A4 sheet; MARKED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



Item No.: 210-332/381-204
Marking strips; as a DIN A4 sheet; MARKED; 17-32 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



Item No.: 210-332/381-206
Marking strips; as a DIN A4 sheet; MARKED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

1.2.4 Tool

1.2.4.1 Operating tool



Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



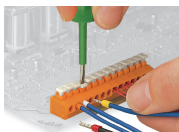
Item No.: 210-657
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

Installation Notes

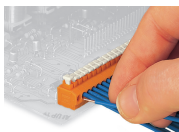
Conductor termination



Inserting/removing fine-stranded conductors via push-button.

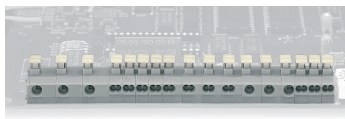
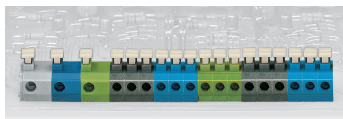


Insert/remove fine-stranded conductors with ferrules via push-button.



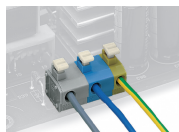
Insert solid conductors via push-in termination.

Installation



Combining 1- and 2-conductor terminal blocks with different pin spacing.

Testing



Application example: field-wiring terminal strip