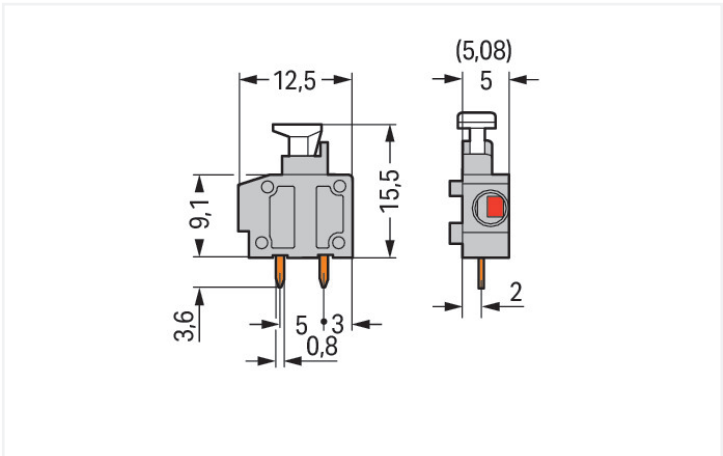
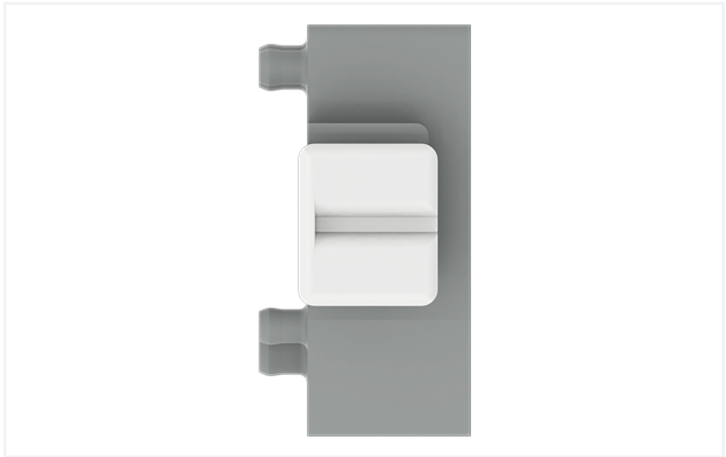
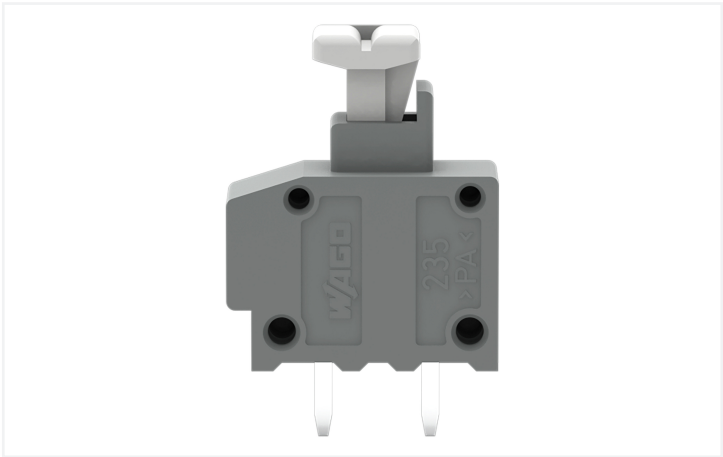
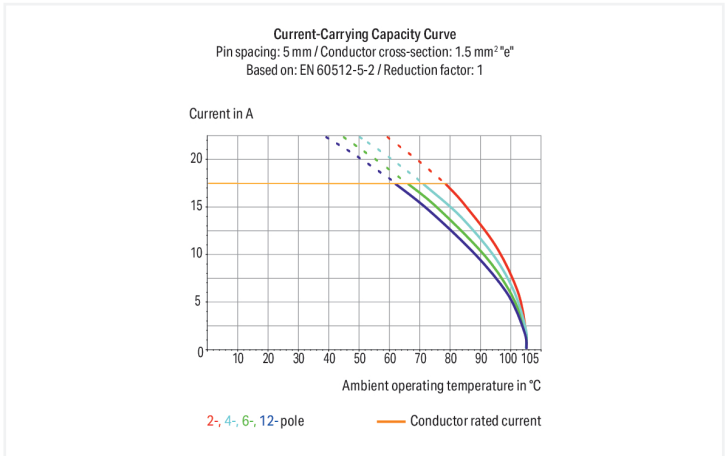


Color: ■ gray



Dimensions in mm





PCB terminal block, 235 Series, 0 °conductor entry to board

Our PCB terminal block (item number 235-401/331-000) simplifies electrical installations. It is ideal for custom installations with different mounting types. Rated current and voltage are key factors to consider when selecting a PCB terminal block, as they indicate possible applications and uses. This product has a rated voltage of 320 V and a rated current of 17.5 A, making it suitable for high-load applications. Ensure that the strip lengths are between 9 mm and 10 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® connection technology is ideal for connecting all conductor types. Solid and fine-stranded conductors with ferrules can be inserted without the need for tools—all thanks to its pluggable design. Dimensions: 6.5 x 19.1 x 12.5 mm (width x height x depth). Depending on the type of conductor, this PCB terminal block is designed for conductor cross sections ranging from 0.2 mm² to 1.5 mm². It comes with one level and a clamping point that you can use to connect a single potential / 1 pole. The clamping spring is made of chrome-nickel spring steel (CrNi), the gray housing is made of polyamide (PA66) for insulation, and the contacts are made of electrolytic copper (ECu). Tin is used for coating the contact surfaces. This PCB terminal block is operated with a push-button. The PCB terminal block is designed for THT soldering. The conductor is designed to be inserted at a 0° angle.. The solder pins measure 0.4 x 0.8 mm in cross-section and 3.6 mm in length and are laid out within the terminal block (in-line). There are two solder pins per potential.

Notes	
Variants:	Other colors Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .

Electrical data				
Ratings per		IEC/EN 60664-1		
Overvoltage category		III	III	II
Pollution degree		3	2	2
Nominal voltage		250 V	320 V	630 V
Rated surge voltage		4 kV	4 kV	4 kV
Rated current		17.5 A	17.5 A	17.5 A
Approvals per		UL 1059		
Use group		B	C	D
Rated voltage		300 V	-	300 V
Rated current		10 A	-	10 A
Approvals per		CSA		
Use group		B	C	D
Rated voltage		300 V	-	-
Rated current		15 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	0.2 ... 1.5 mm² / 20 ... 14 AWG
Fine-stranded conductor	0.75 ... 1.5 mm² / 20 ... 14 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 0.25 ... 0.5 mm² (I max. 2 A) Fine-stranded conductor 0.75 ... 1.5 mm² (I max. 6 A)
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches
Conductor connection direction to PCB	0°
Pole number	1



Physical data		
Pin spacing	5/5.08 mm / 0.197/0.2 inches	
Width	6.5 mm / 0.256 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	
Drilled hole diameter with tolerance	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)	<a href="#">Information on material specifications can be found here</a>	
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 <sub>Cu</sub> )	
Contact Plating	Tin	
Fire load	0.014 MJ	
Weight	0.8 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	4055143258531	
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
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7144	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CCA DEKRA Certification B.V.	EN 60998	NTR NL 6919	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CCA DEKRA Certification B.V.	EN 60947-7-4	NTR NL-7774			
CSA DEKRA Certification B.V.	C22.2	1673956			
KEMA/KEUR DEKRA Certification B.V.	EN 60947	2160584.38			
UL UL International Germany GmbH	-	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 235-401/331-000	

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	



CAD/CAE-Data	
<div>CAD data</div> <div>2D/3D Models 235-401/331-000</div> <div>↓</div>	<div>CAE data</div> <div>EPLAN Data Portal 235-401/331-000</div> <div>↓</div>
	<div>ZUKEN Portal 235-401/331-000</div> <div>↓</div>







PCB Design	
<div>Symbol and Footprint via SamacSys 235-401/331-000</div> <div>↓</div>	
<div>Symbol and Footprint via Ultra Librarian 235-401/331-000</div> <div>↓</div>	

1 Compatible Products

1.1 Required Accessories


1.1.1 End plate

1.1.1.1 End plate

 <div><a href="#">Item No.: 235-500</a> End plate; snap-fit type; 1 mm thick; black</div>	 <div><a href="#">Item No.: 235-400</a> End plate; snap-fit type; 1 mm thick; blue</div>	 <div><a href="#">Item No.: 235-200</a> End plate; snap-fit type; 1 mm thick; dark gray</div>	 <div><a href="#">Item No.: 235-100</a> End plate; snap-fit type; 1 mm thick; gray</div>
 <div><a href="#">Item No.: 235-300</a> End plate; snap-fit type; 1 mm thick; light gray</div>	 <div><a href="#">Item No.: 235-700</a> End plate; snap-fit type; 1 mm thick; light green</div>	 <div><a href="#">Item No.: 235-600</a> End plate; snap-fit type; 1 mm thick; orange</div>	 <div><a href="#">Item No.: 235-800</a> End plate; snap-fit type; 1 mm thick; red</div>
 <div><a href="#">Item No.: 235-650</a> End plate; snap-fit type; 1 mm thick; violet</div>	 <div><a href="#">Item No.: 235-850</a> End plate; snap-fit type; 1 mm thick; white</div>	 <div><a href="#">Item No.: 235-550</a> End plate; snap-fit type; 1 mm thick; yellow</div>	

1.1.2 Installation

1.1.2.1 Intermediate plate

 <div><a href="#">Item No.: 235-701</a> Spacer; for doubling the pin spacing; gray</div>
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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; 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; 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

1.2.3 Marking

1.2.3.1 Marking strip



**Item No.: 210-332/500-202**  
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.: 210-332/500-205**  
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.: 210-332/500-204**  
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.: 210-332/500-206**  
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



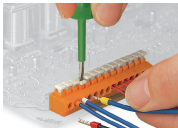
**Item No.: 210-657**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

Installation Notes

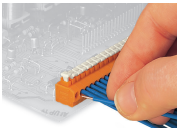
Conductor termination



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

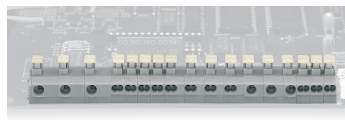
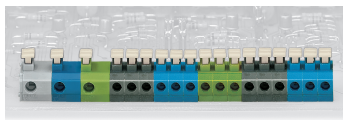


Insert/remove fine-stranded conductors with ferrules via push-button.



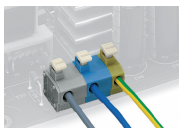
Insert solid conductors via push-in termination.

## Installation



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

## Testing



Application example: field-wiring terminal strip