

Data Sheet | Item Number: 235-746/331-000

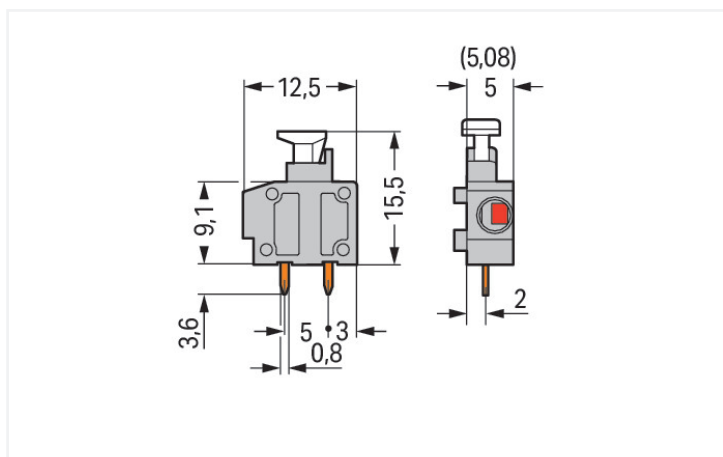
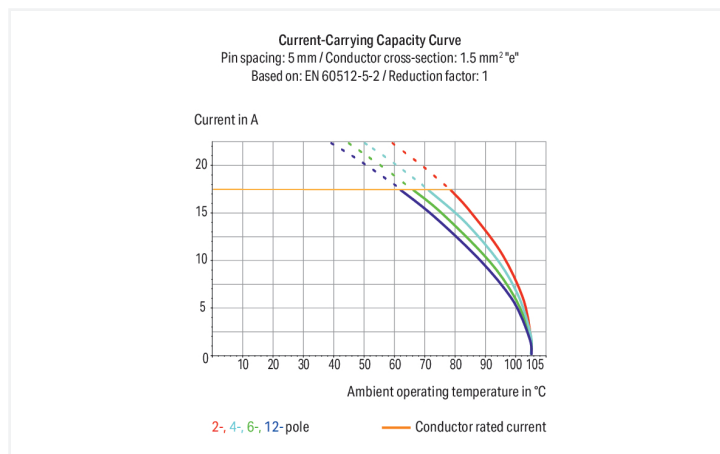
Stackable PCB terminal block; push-button; 1.5 mm²; Pin spacing 5/5.08 mm; 1-pole; Push-in CAGE CLAMP®; orange

<https://www.wago.com/235-746/331-000>



Color: ■ orange

Similar to illustration



Dimensions in mm

PCB terminal block, 235 Series, with 5 mm pin spacing

Our PCB terminal block (item number 235-746/331-000) is the perfect way to connect conductors quickly and easily. You can count on proven safety with these PCB terminal blocks, perfect for a wide range of applications when designing your devices. Strip lengths must be between 9 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. The dimensions are (6.5 x 19.1 x 12.5) mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.2 mm² to 1.5 mm².

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. 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	
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	250 V	320 V	630 V
Rated impulse withstand 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)	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	0.013 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	4044918832472	
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			General approvals		
			CSA DEKRA Certification B.V.	C22.2	1673956
			KEMA/KEUR DEKRA Certification B.V.	EN 60947	2160584.38
Approval	Standard	Certificate Name			
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7144			
CCA DEKRA Certification B.V.	EN 60998	NTR NL 6919			
CCA DEKRA Certification B.V.	EN 60947-7-4	NTR NL-7774			



Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

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 235-746/331-000



Documentation

Additional Information
Technical Section
03.04.2019
pdf 2027.26 KB



CAD/CAE-Data

CAD data
2D/3D Models 235-746/331-000



CAE data
EPLAN Data Portal 235-746/331-000
ZUKEN Portal 235-746/331-000



PCB Design
Symbol and Footprint via SamacSys 235-746/331-000
Symbol and Footprint via Ultra Librarian 235-746/331-000





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.: 235-300](#)
End plate; snap-fit type; 1 mm thick; light 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.: 235-650](#)
End plate; snap-fit type; 1 mm thick; violet



[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

1.1.2 Installation

1.1.2.1 Intermediate plate



[Item No.: 235-701](#)
Spacer; for doubling the pin spacing; gray

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; 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



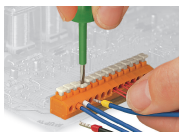
Item No.: 210-657
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; short; multicoloured

Installation Notes

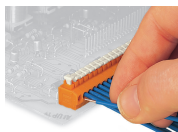
Conductor termination



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

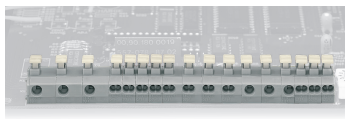
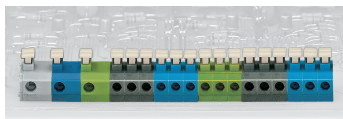


Insert/remove fine-stranded conductors with ferrules via push-button.



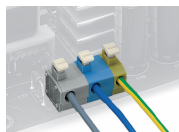
Insert solid conductors via push-in termination.

Installation



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

Testing



Application example: field-wiring terminal strip