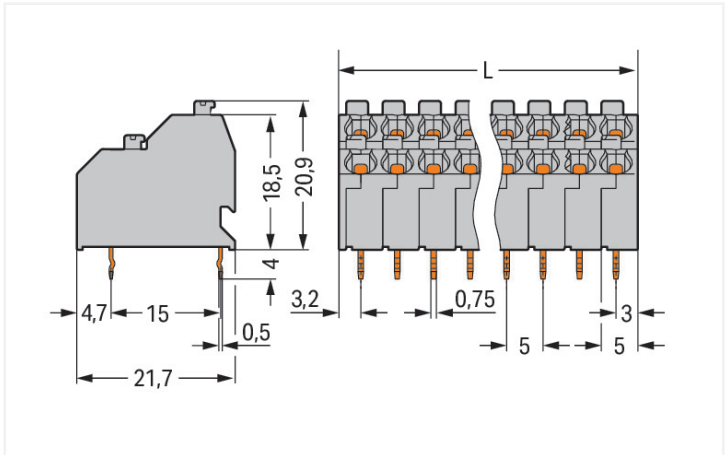


Color: ■ agate gray

Similar to illustration



Dimensions in mm  
 $L = ((\text{Polzahl} / 2) \times \text{Rastermaß}) + 1,2 \text{ mm}$

PCB terminal block, 250 Series, Push-in CAGE CLAMP®

This PCB terminal block (item number 250-710) is designed for quick and simple connections. It offers the flexibility needed for different mounting types. This PCB terminal block has a rated voltage of 320 V and can handle currents up to 10 A. 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®. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, featuring a winning design: both solid and fine-stranded conductors with ferrules can be directly inserted without the need for tools or any preparation, such as crimping the ferrule. The dimensions are 51.2 x 24.9 x 21.7 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. It features two levels and twenty clamping points for connecting twenty potentials / 20 poles. The clamping spring is made of chrome-nickel spring steel (CrNi), the agate gray housing is made of polyamide (PA66) for insulation, and the contacts are made of electrolytic copper (ECu). The contact surface is coated with tin. This PCB terminal block is operated with a push-button. THT is used to assemble the PCB terminal block. The conductor is designed to be inserted at an angle of 45°.. The solder pins measure 0.5 x 0.75 mm in cross-section and 4 mm in length and are laid out over the entire terminal strip (in-line). There are one solder pin per potential.

Notes	
Variants:	Other pole numbers Other colors Direct marking 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	II
Pollution degree		3	2
Nominal voltage		320 V	630 V
Rated surge voltage		4 kV	4 kV
Rated current		10 A	10 A
Approvals per		UL 1059	
Use group		B	D
Rated voltage		300 V	300 V
Rated current		10 A	10 A

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



Connection data																						
Clamping units	20	<div>Connection 1</div> <table><tr><td>Connection technology</td><td>Push-in CAGE CLAMP®</td></tr><tr><td>Actuation type</td><td>Push-button</td></tr><tr><td>Solid conductor</td><td>0.5 ... 1.5 mm² / 20 ... 16 AWG</td></tr><tr><td>Fine-stranded conductor</td><td>0.75 ... 1.5 mm²</td></tr><tr><td>Fine-stranded conductor; with insulated ferrule</td><td>0.5 ... 1 mm²</td></tr><tr><td>Fine-stranded conductor; with uninsulated ferrule</td><td>0.5 ... 1 mm²</td></tr><tr><td>Note (conductor cross-section)</td><td>Fine-stranded conductor 0.75 ... 1.5 mm² (I max. 4 A) Fine-stranded conductor 0.5 mm² (I max. 2 A)</td></tr><tr><td>Strip length</td><td>9 ... 10 mm / 0.35 ... 0.39 inches</td></tr><tr><td>Conductor connection direction to PCB</td><td>45 °</td></tr><tr><td>Pole number</td><td>20</td></tr></table>	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	Fine-stranded conductor; with insulated ferrule	0.5 ... 1 mm²	Fine-stranded conductor; with uninsulated ferrule	0.5 ... 1 mm²	Note (conductor cross-section)	Fine-stranded conductor 0.75 ... 1.5 mm² (I max. 4 A) Fine-stranded conductor 0.5 mm² (I max. 2 A)	Strip length	9 ... 10 mm / 0.35 ... 0.39 inches	Conductor connection direction to PCB	45 °	Pole number	20
Connection technology	Push-in CAGE CLAMP®																					
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Solid conductor	0.5 ... 1.5 mm² / 20 ... 16 AWG																					
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Fine-stranded conductor; with uninsulated ferrule	0.5 ... 1 mm²																					
Note (conductor cross-section)	Fine-stranded conductor 0.75 ... 1.5 mm² (I max. 4 A) Fine-stranded conductor 0.5 mm² (I max. 2 A)																					
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches																					
Conductor connection direction to PCB	45 °																					
Pole number	20																					
Total number of potentials	20																					
Number of connection types	1																					
Number of levels	2																					

Physical data		
Pin spacing	5 mm / 0.197 inches	
Width	51.2 mm / 2.016 inches	
Height	24.9 mm / 0.98 inches	
Height from the surface	20.9 mm / 0.823 inches	
Depth	21.7 mm / 0.854 inches	
Solder pin length	4 mm	
Solder pin dimensions	0.5 x 0.75 mm	
Drilled hole diameter with tolerance	1.2 (-0.1 ... +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)	<a href="#">Information on material specifications can be found here</a>	
Color	agate 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	0.755 MJ	
Weight	19.2 g	



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

Commercial data	
Product Group	4 (Printed Circuit Connectors)
PU (SPU)	48 (12) pcs
Packaging type	Box
Country of origin	CH
GTIN	4044918300988
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	
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7833/2	EU-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	
DEKRA DEKRA Certification B.V.	EN 60947-7-4	71-141963	
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 250-710



Documentation

Additional Information
Technical Section
03.04.2019
pdf 2027.26 KB



CAD/CAE-Data

CAD data
2D/3D Models 250-710



CAE data
EPLAN Data Portal 250-710
ZUKEN Portal 250-710



PCB Design

Symbol and Footprint via SamacSys 250-710
Symbol and Footprint via Ultra Librarian 250-710





1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 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; uninsulated; 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; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

1.1.2 Marking

1.1.2.1 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

1.1.3 Test and measurement

1.1.3.1 Testing accessories



**Item No.: 210-136**  
Test plug; 2 mm Ø; with 500 mm cable; red

1.1.4 Tool

1.1.4.1 Operating tool

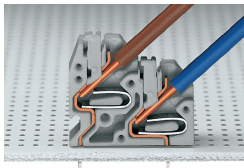


**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

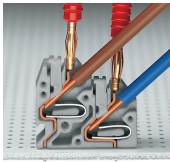


**Item No.: 210-647**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

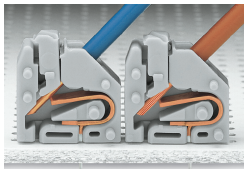


Space-saving wiring – push-in termination of solid conductors.



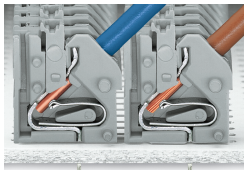
Testing with 2 mm Ø test plug – touch contact.

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

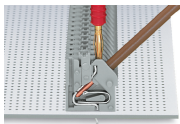


Space-saving wiring, 250 Series – 5 mm pin spacing.

Testing

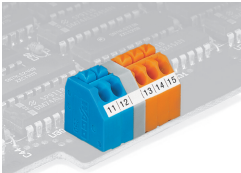
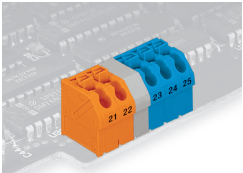


Testing with 11 mm Ø test pin, on the conductor, 250 Series – 2.5 ... 3.5 mm pin spacing.



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.