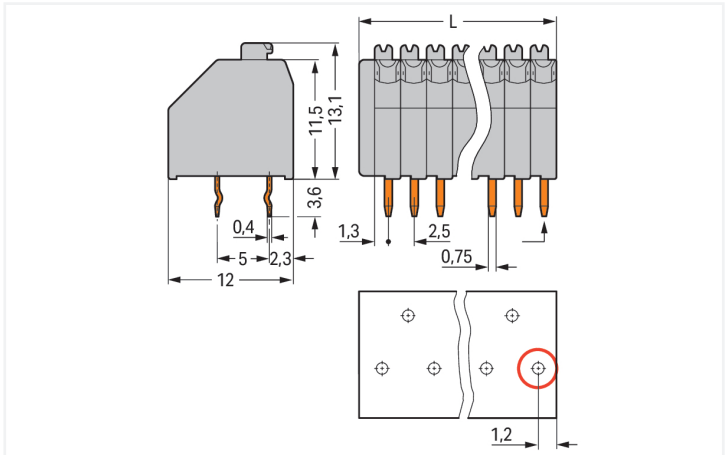




Color: ■ orange

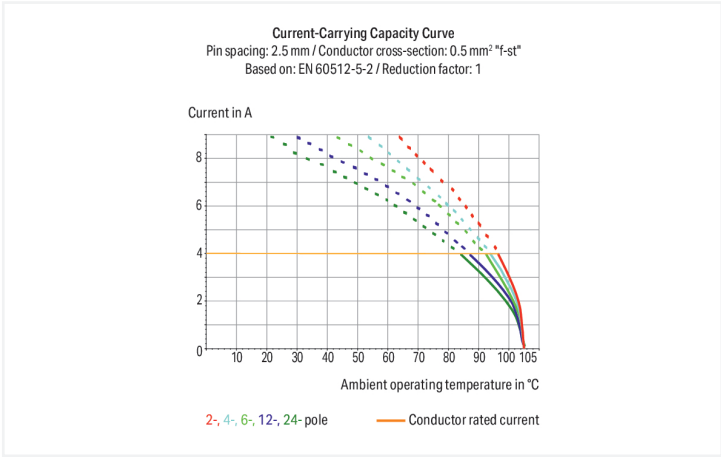
Similar to illustration



Dimensions in mm

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

First solder pin, front right (red circle)



PCB terminal block, 250 Series, solder pin dimensions 0.4 x 0.75 mm

Easily, quickly and safely connect conductors with this PCB terminal block (item number 250-410/000-012). It offers the flexibility needed for different mounting types. Our PCB terminal block is rated for 160 V and is designed to handle a rated current of up to 4 A. Conductors should only be connected to this PCB terminal block if their strip length is between 8.5 mm and 9.5 mm. 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. Both solid and fine-stranded conductors with ferules can be pushed in without the need for tools—all thanks to its pluggable design. The item's dimensions are 26.5 x 16.7 x 12 mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.14 mm² to 0.5 mm². It has one level. You can connect ten potentials / ten poles using the ten clamping points. The orange housing is made of polyamide (PA66) for insulation and the clamping spring is made of a Copper alloy. The contact surface is coated with tin. This PCB terminal block is operated with a push-button. THT is used to solder the PCB terminal block. The conductor is designed to be inserted 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 (staggered). 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	160 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		CSA		
Use group	B	C	D	
Rated voltage	300 V	-	300 V	
Rated current	5 A	-	5 A	

Electrical data				
Approvals per		UL 1059		
Use group	B	C	D	
Rated voltage	300 V	-	300 V	
Rated current	5 A	-	5 A	

Connection data				
Clamping units	10	Connection 1		
Total number of potentials	10	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	10	

Physical data				
Pin spacing	2.5 mm / 0.098 inches			
Width	26.5 mm / 1.043 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 (staggered)			
Number of solder pins per potential	1			

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	Copper alloy			
Contact Plating	Tin			
Fire load	0.006 MJ			
Weight	3.6 g			



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

Commercial data	
Product Group	4 (Printed Circuit Connectors)
PU (SPU)	180 (45) pcs
Packaging type	Box
Country of origin	CH
GTIN	4044918643078
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



Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2	1132097
UL UL International Germany GmbH	UL 1059	E45172

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 250-410/000-012	

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data

CAD data	CAE data
2D/3D Models 250-410/000-012 	EPLAN Data Portal 250-410/000-012 
	ZUKEN Portal 250-410/000-012 

PCB Design	
Symbol and Footprint via SamacSys 250-410/000-012 	
Symbol and Footprint via Ultra Librarian 250-410/000-012 	

1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marking strip

			
Item No.: 210-331/250-202 Marking strips; as a DIN A4 sheet; MARKED; 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; MARKED; 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; MARKED; 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; MARKED; 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


Item No.: 735-500 WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm²

1.1.3 Tool

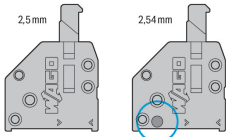
1.1.3.1 Operating tool



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

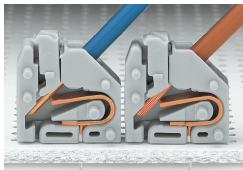
Item No.: 210-647
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes



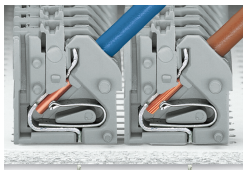
A groove at the back of the terminal strip differentiates between the two pin spacings.

Conductor termination



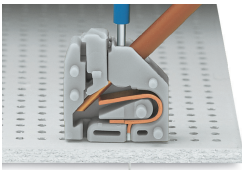
Inserting solid conductors via push-in termination.
Inserting fine-stranded conductors via push-buttons, 250 Series – 3.5 mm pin spacing.

Conductor termination

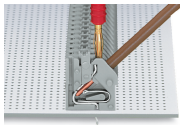


Space-saving wiring, 250 Series – 5 mm pin spacing.

Testing

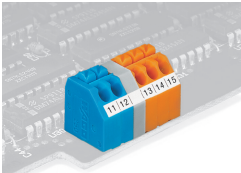
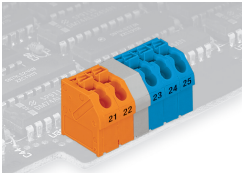


Testing with 11 mm Ø test pin, on the conductor, 250 Series – 2.5 ... 3.5 mm pin spacing.



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.