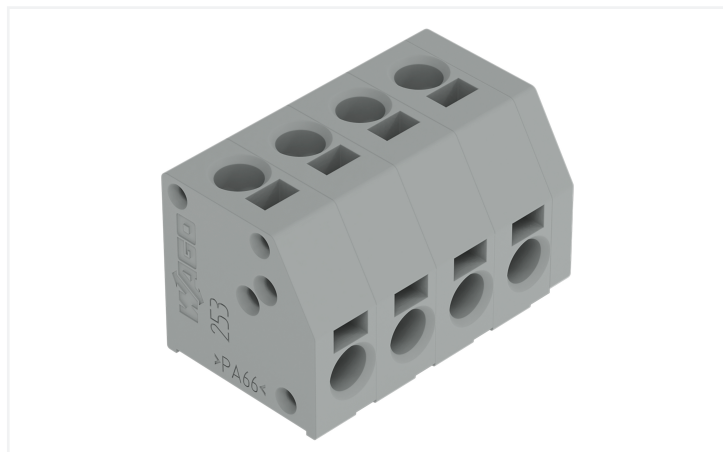
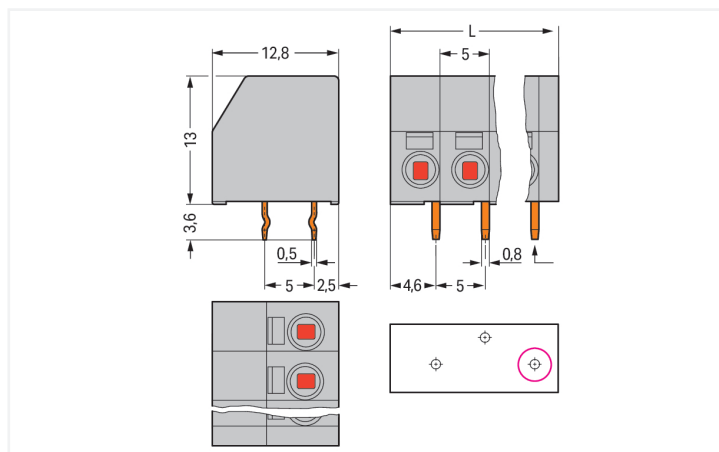


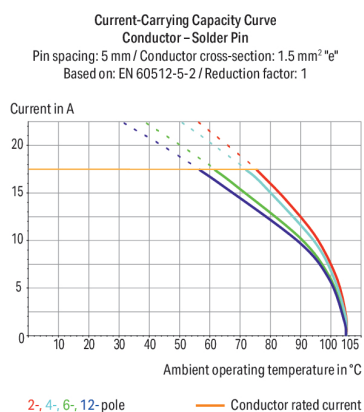
<https://www.wago.com/253-102/000-012>



Similar to illustration



First solder pin, front right (red circle)



Connect conductors quickly and safely with this PCB terminal block (item number 253-102/000-012). You can rely on trusted safety with these PCB terminal blocks, perfect for a wide range of applications when designing your devices. Our PCB terminal block is rated for 160 V and is designed to handle a rated current of up to 17.5 A. It is therefore suitable for high-load applications. Conductors can only be connected to this PCB terminal block if their strip length is between 8.5 mm and 9.5 mm. This product features two conductor terminals and utilizes PUSH WIRE® and PUSH WIRE®. Our trusted PUSH WIRE® connection offers the fastest method for clamping conductors. It utilizes the conductor's stiffness to overcome the clamping spring's contact force. The item's dimensions are 12 x 16.6 x 12.8 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 on one side and for conductor cross sections ranging from 0.5 mm² to 1.5 mm² on the other side. Up to two potentials / two poles can be connected to this terminal strip using four clamping points on one level. The clamping spring is made of chrome-nickel spring steel (CrNi), the orange housing is made of polyamide (PA66) for insulation, and the contacts are made of electrolytic copper (ECu). The contact surface is coated with tin. An operating tool is used to operate this PCB terminal block. The PCB terminal block is designed for THT soldering. The conductor is designed to be inserted at a 0° angle.. The solder pins measure 0.5 x 0.8 mm in cross-section and 3.6 mm in length and are laid out 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 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	320 V	160 V	320 V
Rated surge voltage	4 kV	2.5 kV	2.5 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	8 A	-	5 A

Approvals per		CSA	
Use group	B	C	D
Rated voltage	300 V	-	300 V
Rated current	8 A	-	5 A

Connection data

Clamping units	4
Total number of potentials	2
Number of connection types	2
Number of levels	1

Connection 1	
Connection type	PUSH WIRE® connection
Connection technology	PUSH WIRE®
Number of connection points	1
Actuation type	Operating tool
Solid conductor	0.5 ... 1.5 mm² / 20 ... 16 AWG
Strip length	8.5 ... 9.5 mm / 0.33 ... 0.37 inches
Note (strip length)	7 ... 8 mm / 0.28 ... 0.31 inch (for wiring on both sides)
Conductor connection direction to PCB	0 °
Pole number	2

Connection 2	
Connection type	PUSH WIRE® connection
Connection technology	PUSH WIRE®
Number of connection points	1
Solid conductor	0.5 ... 1.5 mm² / 20 ... 16 AWG
Strip length	8.5 ... 9.5 mm / 0.33 ... 0.37 inches
Note (strip length)	7 ... 8 mm / 0.28 ... 0.31 inch (for wiring on both sides)
Conductor connection direction to PCB	90 °



Physical data		
Pin spacing	5 mm / 0.197 inches	
Width	12 mm / 0.472 inches	
Height	16.6 mm / 0.654 inches	
Height from the surface	13 mm / 0.512 inches	
Depth	12.8 mm / 0.504 inches	
Solder pin length	3.6 mm	
Solder pin dimensions	0.5 x 0.8 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	Chrome-nickel spring steel (CrNi)	
Contact material	Electrolytic copper (E _{Cu})	
Contact Plating	Tin	
Fire load	0.043 MJ	
Weight	2 g	

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


Commercial data		
Product Group	4 (Printed Circuit Connectors)	
PU (SPU)	400 (100) pcs	
Packaging type	Box	
Country of origin	CN	
GTIN	4044918689182	
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
cURus Underwriters Laboratories Inc.	UL 1059	E45172
UL UL International Germany GmbH	UL 1977	E45171

Downloads




Environmental Product Compliance



Compliance Search	
Environmental Product Compliance 253-102/000-012	

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data

CAD data		CAE data	
2D/3D Models 253-102/000-012		EPLAN Data Portal 253-102/000-012	
		ZUKEN Portal 253-102/000-012	

PCB Design	
Symbol and Footprint via SamacSys 253-102/000-012	
Symbol and Footprint via Ultra Librarian 253-102/000-012	



1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marking strip



Item No.: 210-833
Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white



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

1.1.2 Tool

1.1.2.1 Operating tool



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



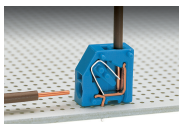
Item No.: 210-648
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short



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

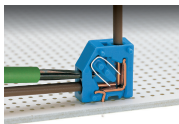
Installation Notes

Conductor termination



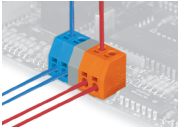
Inserting a conductor via push-in termination.

Conductor removal



Removing a conductor via 2.5 mm screwdriver.

Installation



Mixed-color terminal strips (with or without spacer) are available upon request.