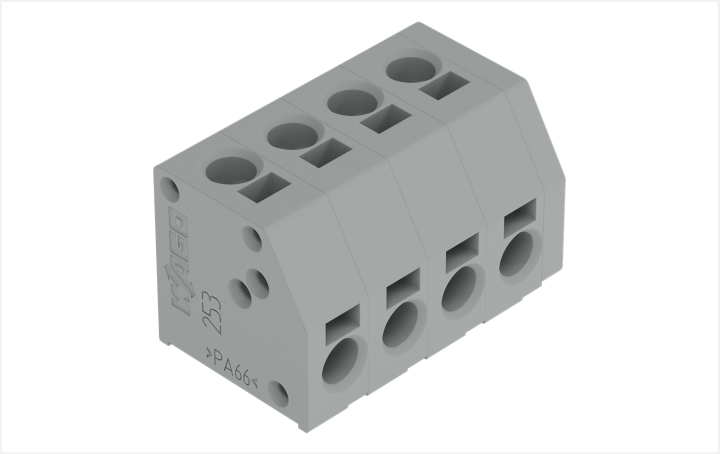
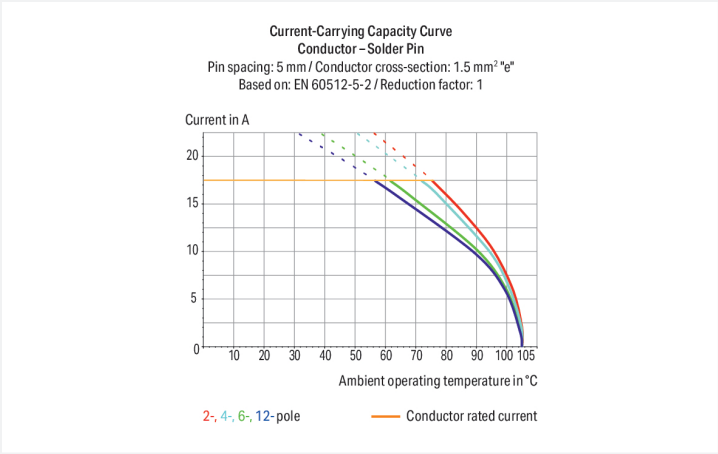
Data Sheet | Item Number: 253-103/000-006

2-conductor PCB terminal block; 1.5 mm²; Pin spacing 5 mm; 3-pole; PUSH WIRE®; blue

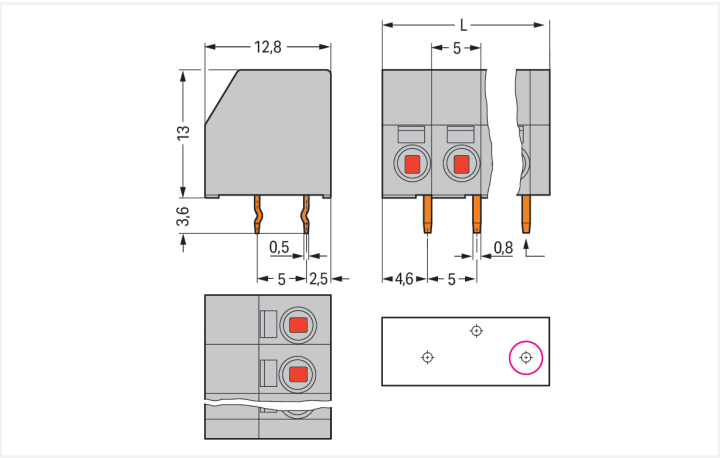
https://www.wago.com/253-103/000-006





Color: blue

Similar to illustration



Dimensions in mm
L = (pole no. x pin spacing) + 2 mmFirst solder pin, front right (red circle)

PCB terminal block, 253 Series, PUSH WIRE®

This PCB terminal block (item number 253-103/000-006) streamlines wire connections, making them both quick and easy. It is ideal for custom installations with different mounting types. Conductors should only be connected to this PCB terminal block if their strip length is between 8.5 and 9.5 mm . This product incorporates two conductor terminals and utilizes PUSH WIRE® and PUSH WIRE®. Our PUSH WIRE® connection offers a quick and easy solution for connecting solid conductors. The item's dimensions are (17 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.

Tin is used for coating the contact surfaces. 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 into the board at a 0° angle..

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	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	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	6
Total number of potentials	3
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	3

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 °

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Physical data

Pin spacing	5 mm / 0.197 inches
Width	17 mm / 0.669 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	blue
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	0.061 MJ
Weight	2.8 g

Environmental requirements

Limit temperature range	-60 … +105 °C

Commercial data

PU (SPU)	280 (70) pcs
Packaging type	Box
Country of origin	CH
GTIN	4044918689212
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

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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
253-103/000-006

Documentation

Additional Information

Technical Section	03.04.2019	pdf 2027.26 KB

CAD/CAE-Data

CAD data

2D/3D Models
253-103/000-006

CAE data

EPLAN Data Portal
253-103/000-006

ZUKEN Portal
253-103/000-006

PCB Design

Symbol and Footprint
via SamacSys
253-103/000-006

Symbol and Footprint
via Ultra Librarian
253-103/000-006

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



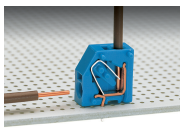
Item No.: 210-648
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short



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

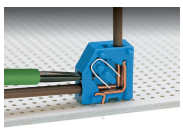
Installation Notes

Conductor termination



Inserting a conductor via push-in termination.

Conductor removal



Removing a conductor via 2.5 mm screwdriver.

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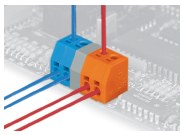
Installation



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