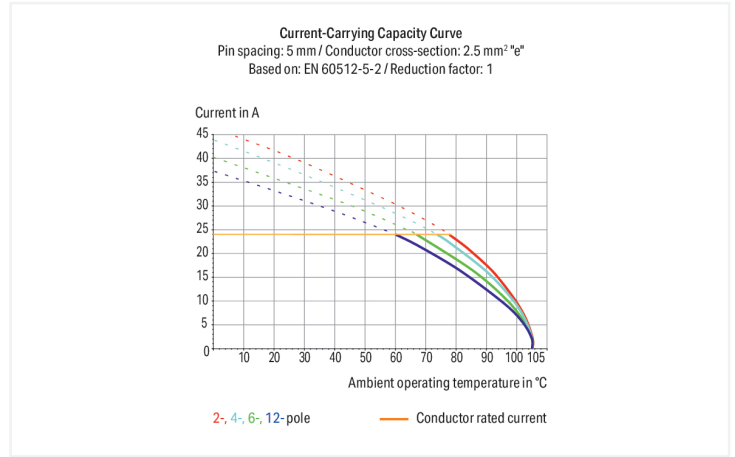


Data Sheet | Item Number: 254-458/000-004

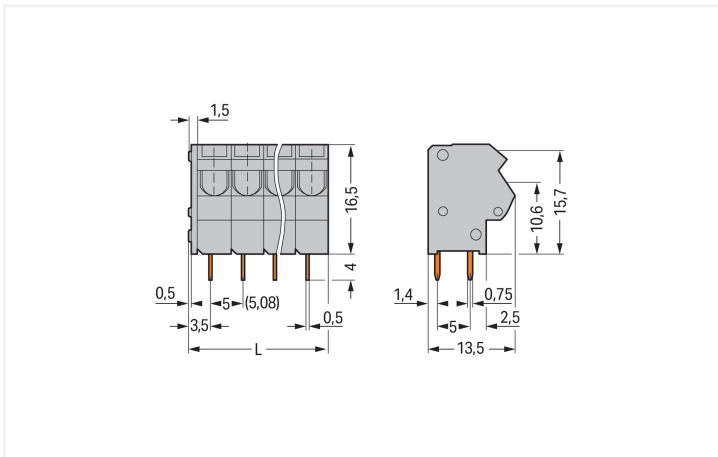
PCB terminal block; 2.5 mm²; Pin spacing 5/5.08 mm; 8-pole; PUSH WIRE®; black

<https://www.wago.com/254-458/000-004>



Color: ■ black

Similar to illustration



Dimensions in mm

$L = (\text{pole no.} \times \text{pin spacing}) + 1.5 \text{ mm}$

PCB terminal block, 254 Series, operating tool

Quick and easy connections are guaranteed with this PCB terminal block (item number 254-458/000-004). It is a universal connector that can be used almost anywhere, for example, as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. Conductors can only be connected to this PCB terminal block if their strip length is between 10 and 12 mm. This product features one conductor terminal and utilizes PUSH WIRE®. Our PUSH WIRE® connection is the quick and easy method for connecting solid conductors. The dimensions are (41.5 x 19.7 x 13.5) mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.5 mm² to 2.5 mm². 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 at an angle of 45°..

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/ .
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Electrical data

Ratings per	IEC/EN 60664-1			Approvals per	UL 1059		
Overvoltage category	III	III	II	Use group	B	C	D
Pollution degree	3	2	2	Rated voltage	300 V	-	300 V
Nominal voltage	320 V	320 V	630 V	Rated current	10 A	-	10 A
Rated impulse withstand voltage	4 kV	4 kV	4 kV				
Rated current	24 A	24 A	24 A				

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

Connection Data

Clamping units	8	Connection 1	
Total number of potentials	8	Connection technology	PUSH WIRE®
Number of connection types	1	Actuation type	Operating tool
Number of levels	1	Solid conductor	0.5 ... 2.5 mm ² / 20 ... 12 AWG
		Fine-stranded conductor; with insulated ferrule	0.5 ... 1.5 mm ²
		Fine-stranded conductor; with uninsulated ferrule	0.5 ... 1.5 mm ²
		Note (conductor cross-section)	12 AWG: THHN, THWN
		Strip length	10 ... 12 mm / 0.39 ... 0.47 inches
		Conductor connection direction to PCB	45 °
		Pole number	8

Physical data

Pin spacing	5/5.08 mm / 0.197/0.2 inches
Width	41.5 mm / 1.634 inches
Height	19.7 mm / 0.776 inches
Height from the surface	15.7 mm / 0.618 inches
Depth	13.5 mm / 0.531 inches
Solder pin length	4 mm
Solder pin dimensions	0.5 x 0.75 mm
!	1.1 (+0.1) mm

PCB contact

PCB contact	THT
Solder pin arrangement	over the entire terminal strip (in-line)
Number of solder pins per potential	2

Material data

Note (material data)	Information on material specifications can be found here
Color	black
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	0.149 MJ
Weight	8.9 g

Environmental requirements

Limit temperature range	-60 ... +105 °C
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Commercial data

PU (SPU)	100 (25) pcs
Packaging type	Box
Country of origin	PL
GTIN	4055143768696
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
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Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2	70154033
UR Underwriters Laboratories Inc.	UL 1059	E45172

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
254-458/000-004



Documentation

Additional Information

Technical Section

03.04.2019

pdf

2027.26 KB



CAD/CAE-Data

CAD data

2D/3D Models
254-458/000-004



PCB Design

Symbol and Footprint
via SamacSys
254-458/000-004

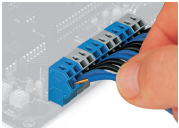


Symbol and Footprint
via Ultra Librarian
254-458/000-004

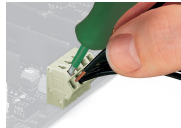


Installation Notes

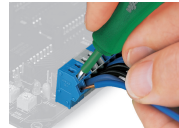
Conductor termination



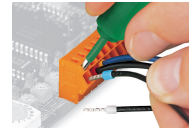
Insert solid conductors via push-in termination.



Inserting a tip-bonded conductor via screwdriver.

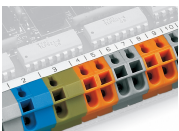


Removing a solid conductor.

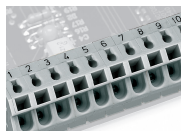


Inserting/removing a ferruled conductor.

Marking

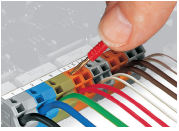


Labeling via self-adhesive marking strips.



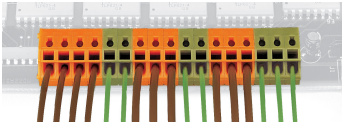
Labeling via factory direct marking.

Testing

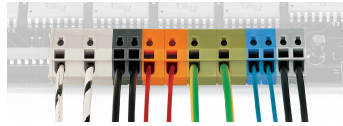


Testing with 2 mm Ø test plug.

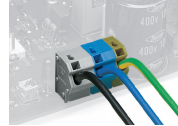
Application



Mixed terminal strips can be assembled using different housing colors for the formation of groups.



Mixed terminal strips can be assembled using different pin spacing and housing colors for the formation of groups.



Application example: field-wiring terminal strip