

Data Sheet | Item Number: 254-849

Stackable PCB terminal block; 2.5 mm²; Pin spacing 5/5.08 mm; 1-pole; PUSH WIRE®; black

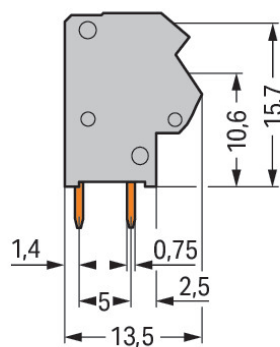
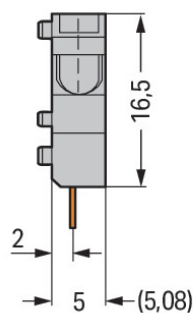
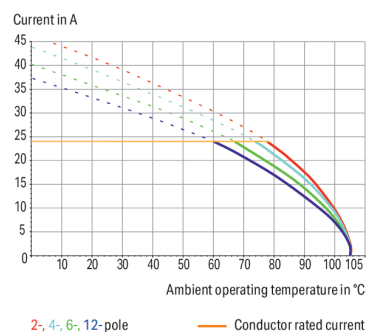
<https://www.wago.com/254-849>



Color: ■ black

Similar to illustration

Current-Carrying Capacity Curve
Pin spacing: 5 mm / Conductor cross-section: 2.5 mm² *e*
Based on: EN 60512-5-2 / Reduction factor: 1



Dimensions in mm

PCB terminal block, 254 Series, black

Easily, quickly and safely connect conductors with this PCB terminal block (item number 254-849). It is a universal connector that can be used practically 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. Featuring one conductor terminal along with PUSH WIRE®, this product outperforms the competition. Our PUSH WIRE® connection is the quick and easy method for connecting solid conductors. Dimensions: (6.7 x 19.7 x 13.5) mm (width x height x depth). Depending on the conductor type, this PCB terminal block is ideal 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. THT is used to solder the PCB terminal block. Insert the conductor at an angle of 45°..



Notes	
Variants:	Other colors 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	24 A	24 A	24 A

Approvals per		UL 1059	
Use group	B	C	D
Rated voltage	300 V	-	300 V
Rated current	10 A	-	10 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	1
Total number of potentials	1
Number of connection types	1
Number of levels	1

Connection 1	
Connection technology	PUSH WIRE®
Actuation type	Operating tool
Solid conductor	0.5 ... 2.5 mm² / 20 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.5 ... 1.5 mm²
Fine-stranded conductor; with uninsulated ferrule	0.5 ... 1.5 mm²
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	1

Physical data

Pin spacing	5/5.08 mm / 0.197/0.2 inches
Width	6.7 mm / 0.264 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		within the terminal block (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		0.018 MJ
Weight		1.1 g

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

Commercial data		
PU (SPU)		500 (100) pcs
Packaging type		Box
Country of origin		PL
GTIN		4055143741675
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

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 254-849			

Documentation

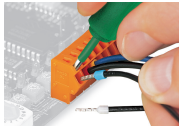
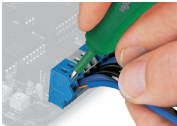
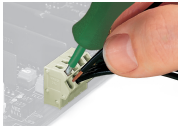
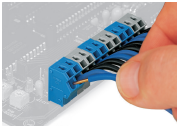
Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data

PCB Design			
Symbol and Footprint via SamacSys 254-849			
Symbol and Footprint via Ultra Librarian 254-849			

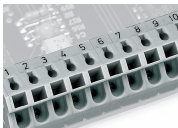
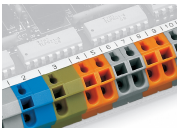
Installation Notes

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.
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Marking



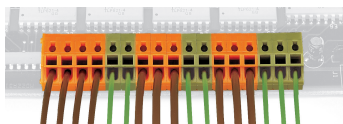
Labeling via self-adhesive marking strips.	Labeling via factory direct marking.
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Testing

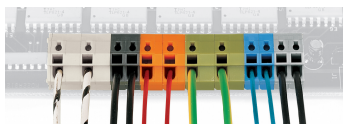


Testing with 2 mm Ø test plug.

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