

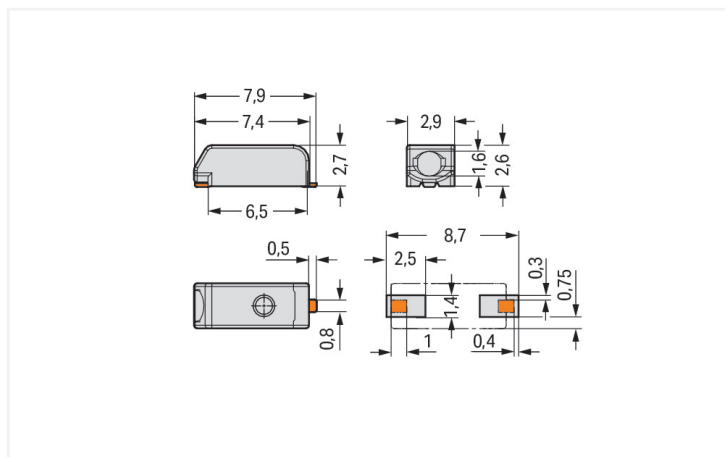
Data Sheet | Item Number: 2059-301/998-603

SMD PCB terminal block; 0.5 mm²; Pin spacing 3 mm; 1-pole; PUSH WIRE®; in tape-and-reel packaging; 0,50 mm²; white

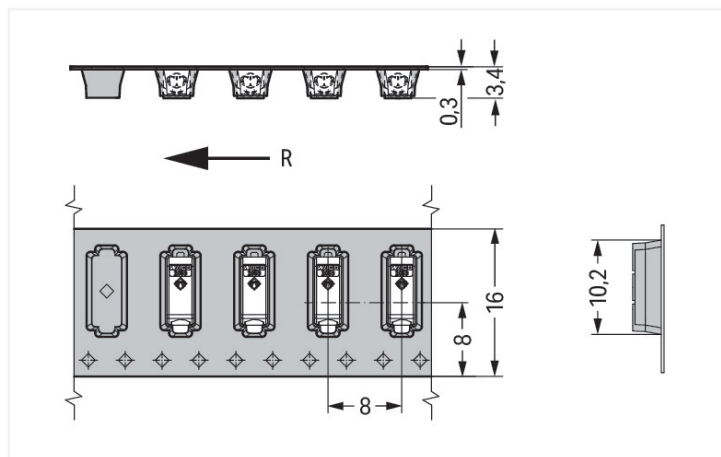
<https://www.wago.com/2059-301/998-603>



Color: ■ white



Dimensions in mm



Dimensions in mm

R = feed direction

- SMD PCB terminal blocks with PUSH WIRE® connection technology
- Push-in termination of solid conductors
- Easy conductor removal via operating tool
- Just 2.7 mm tall
- Assemble terminal blocks without pole loss
- Available in tape-and-reel packaging for automated assembly



Notes	
Note	Application notes: Suitable for lead-free, reflow-soldering profiles per DIN EN 61760-1 and IEC 60068-2-58 up to max. 260 °C peak temperature. Due to application-specific variables (component configuration and orientation, type of soldering machine, solder paste), trial runs are recommended to ensure product and process compatibility under actual manufacturing conditions. Depending on reflow soldering temperatures and times, color deviations may occur. These deviations will have no impact on functionality.
Recommendation	Recommendation for stencil: 150 µm material thickness; Pattern layout identical to solder pad layout

Electrical data			
Ratings per IEC/EN		Ratings per UL 1977	
Ratings per	IEC/EN 60664-1	Rated voltage (UL 1977)	600 V
Nominal voltage (III/3)	63 V	Rated current UL 1977	3 A
Rated impulse voltage (III/3)	2.5 kV		
Rated voltage (III/2)	160 V		
Rated impulse voltage (III/2)	2.5 kV		
Nominal voltage (II/2)	320 V		
Rated surge voltage (II/2)	2.5 kV		
Rated current	3 A		
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2		

Connection data			
Connection points	1	Connection 1	
Total number of potentials	1	Connection technology	PUSH WIRE®
Number of connection types	1	Actuation type	Operating tool
Number of levels	1	Solid conductor	0.14 ... 0.34 mm² / 26 ... 22 AWG
		Note (conductor cross-section)	For conductors (26 AWG) that are not rigid enough, the clamping unit must be opened using an operating tool.
		Strip length	4 ... 5.5 mm / 0.16 ... 0.22 inches
		Conductor connection direction to PCB	0 °
		Pole number	1

Connection 2	
Solid conductor 2	0.5 mm² / 20 AWG
Note (conductor cross-section) 2	No reconnection of smaller conductor cross-sections (0.5 mm²/20 AWG)
Strip length 2	6 ... 7.5 mm / 0.24 ... 0.3 inches

Physical data	
Pin spacing	3 mm / 0.118 inches
Width	2.9 mm / 0.114 inches
Height	2.7 mm / 0.106 inches
Depth	7.9 mm / 0.311 inches
Reel diameter of tape-and-reel packaging	380 mm
Tape width	16 mm



PCB contact		
PCB contact		SMD
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		white
Material group		I
Insulation material		Polyphthalamide (PPA GF)
Flammability class per UL94		V0
Contact material		Copper alloy
Contact plating		Tin
Fire load		0.004 MJ
Weight		0.2 g

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

Commercial data		
PU (SPU)		44400 (3700) pcs
Country of origin		CH
GTIN		4066966483383
Customs tariff number		85369010000

Environmental Product Compliance		
RoHS Compliance Status		Compliant,No Exemption

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Environmental Product Compliance

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2059-301/998-603		

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Board-to-board link

1.1.1.1 Board-to-board link



Item No.: 2059-901
Board-to-Board Link; Pin spacing 3 mm;
1-pole; Length: 15.3 mm; white



Item No.: 2059-901/018-000
Board-to-Board Link; Pin spacing 3 mm;
1-pole; Length: 17.5 mm; white



Item No.: 2059-901/021-000
Board-to-Board Link; Pin spacing 3 mm;
1-pole; Length: 20.5 mm; white

1.1.2 Tool

1.1.2.1 Operating tool



Item No.: 206-859
Operating tool; for 2059 Series; multico-
loured



Item No.: 2059-189
Operating tool; made of insulating materi-
al; for 2059 Series

Installation Notes

Conductor termination



Insert solid conductors via push-in termi-
nation.

Conductor termination



Easy conductor removal, e.g., via operating
tool (Item No. 206-859) or “twist & pull”
(max. 10 x, no reconnection of smaller
conductors possible)