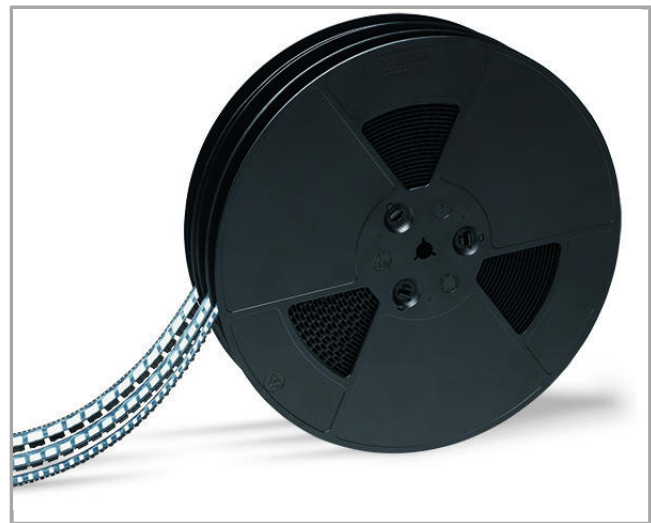
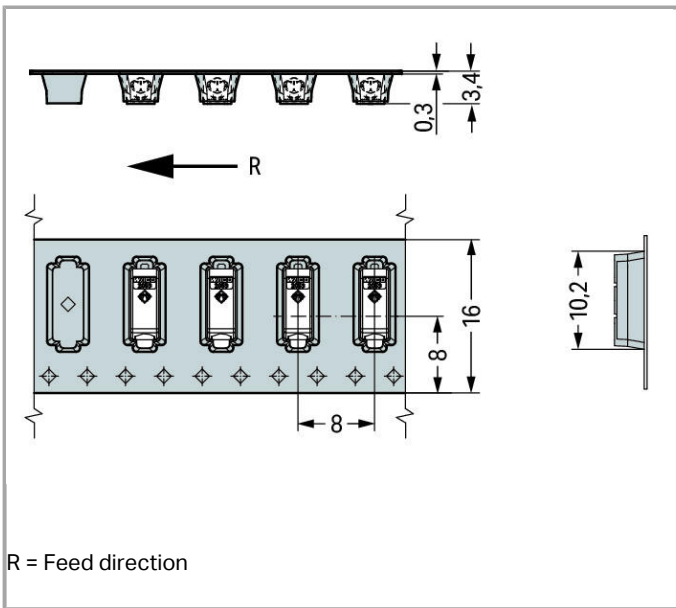
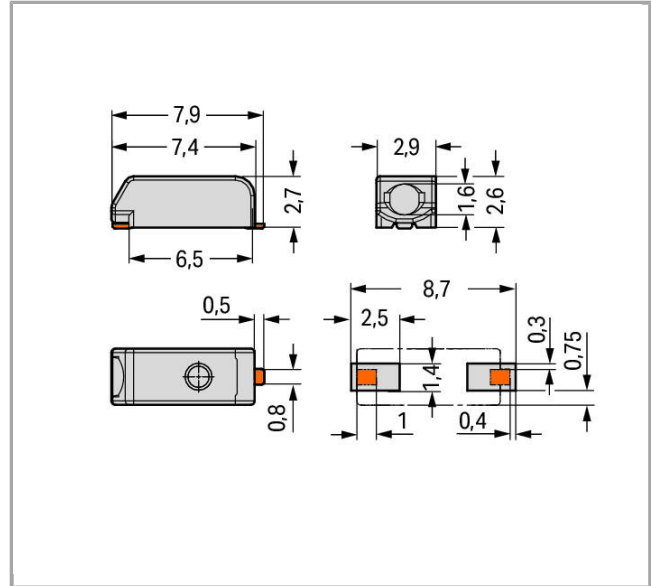


# Data sheet | Item number: 2059-301/998-403

SMD PCB terminal block; 0.5 mm<sup>2</sup>; Pin spacing 3 mm; 1-pole; PUSH WIRE®; in tape-and-reel packaging



[www.wago.com/2059-301/998-403](http://www.wago.com/2059-301/998-403)



## Item description

- SMD PCB terminal blocks with PUSH WIRE® connection technology
- Push-in termination of solid conductors
- Easy conductor removal, e.g., via operating tool
- Just 2.7 mm tall
- Assemble terminal blocks without pole loss



- Available in tape-and-reel packaging for automated assembly

**Note:**

## Application note:

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 customer-specific variables (e.g., component configuration and orientation, type of soldering machine, solder paste), trial runs are recommended to ensure product and process compatibility under actual manufacturing conditions.

**Recommendation:**

Recommendation for SMD stencil:

Material thickness, 150 µm. Pattern layout identical to solder pad layout.

**Data****Electrical data****Ratings per IEC/EN 60664-1**

Rated voltage (III / 3)	63 V
Rated impulse voltage (III / 3)	2.5 kV
Rated voltage (III / 2)	160 V
Rated impulse voltage (III / 2)	2.5 kV
Rated voltage (II / 2)	320 V
Rated impulse voltage (II / 2)	2.5 kV
Rated current	3 A

**Approvals per UL 1977**

Rated voltage per UL 1977 (factory wiring only)	600 V
Rated current per UL 1977 (factory wiring only)	3 A

**Connection data**

Connection technology	PUSH WIRE®
Actuation type	Operating tool
Solid conductor	0.14 ... 0.34 mm <sup>2</sup> / 26 ... 22 AWG
Strip length	4 ... 5.5 mm / 0.16 ... 0.22 inch
Conductor entry angle to the PCB	0°
Solid conductor (2)	0.5 mm <sup>2</sup> / 20 AWG
Note (conductor cross-section)	For conductors that are not rigid enough (26 AWG), the clamping unit must be opened using an operating tool.



Note (conductor cross-section) 2	No reconnection of smaller conductor cross-sections (0.5 mm <sup>2</sup> / 20 AWG)
Strip length (2)	6 ... 7.5 mm / 0.24 ... 0.3 inch
No. of poles	1
Total number of connection points	1
Total number of potentials	1
Number of connection types	1
Number of levels	1

### Geometrical Data

Pin spacing	3 mm / 0.118 inch
Width	2.9 mm / 0.114 inch
Height	2.7 mm / 0.106 inch
Depth	7.9 mm / 0.311 inch
Reel diameter of tape-and-reel packaging	330 mm
Tape width	16 mm

### PCB contact

PCB contact	SMD
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### Material Data

Color	white
Material group	I
Insulating material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	tin-plated
Fire load	0 MJ
Weight	0.079 g

### Environmental Requirements







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


Product Group	33 (Printed Circuit)
Country of origin	CH
GTIN	4055143082679

## Approvals / Certificates

### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	NTR NL-7680
	CCA DEKRA Certification B.V.	EN 60838	NTR NL-7720
	CCA DEKRA Certification B.V.	EN 60947	2184363.01
	CCA DEKRA Certification B.V.	EN 60947	NTR NL-7428
	KEMA/KEUR DEKRA Certification B.V.	EN 60947	71-103560
	KEMA/KEUR DEKRA Certification B.V.	EN 60838	71-106226

### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 1977	E45171

## Compatible products

### General accessories

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

[www.wago.com/2059-901](http://www.wago.com/2059-901)



Item no.: 2059-901/018-000

Board-to-Board Link; Pin spacing 3 mm; 1-pole; Length: 17.5 mm

[www.wago.com/2059-901/018-000](http://www.wago.com/2059-901/018-000)

Item no.: 2059-901/021-000

Board-to-Board Link; Pin spacing 3 mm; 1-pole; Length: 20.5 mm

[www.wago.com/2059-901/021-000](http://www.wago.com/2059-901/021-000)

**tools**

Item no.: 2059-189

Operating tool; for 2059 Series SMD PCB Terminal Blocks; of insulating material

[www.wago.com/2059-189](http://www.wago.com/2059-189)

Item no.: 206-859

Operating tool; for 2060 Series SMD Terminal Blocks

[www.wago.com/206-859](http://www.wago.com/206-859)

**Downloads**

**CAD files**

**PCB libraries**

EAGLE Library for WAGO PCB Terminal Blocks Compatible with EAGLE PCB Design Software Version 6.x or higher	2.1 21.Eyl.2017	zip 23.9 MB	Download
TARGET Library for WAGO PCB Terminal Blocks Compatible with TARGET PCB Design Software Version 17.x	1.1.0 06.Eki.2014	zip 27.1 MB	Download
DesignSpark Library for WAGO PCB Terminal Blocks Compatible with DesignSpark PCB Version 4.x or higher	2.1 06.Eki.2014	zip 22.5 MB	Download

**CAD data**

3D Download 2059-301/998-403	URL	Download
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Subject to changes.

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Do you have any questions about our products?  
 We are always happy to take your call at {0}.