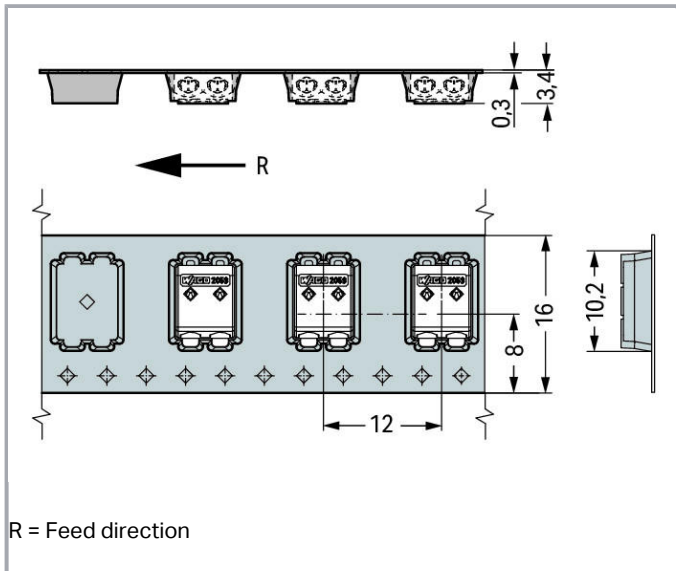
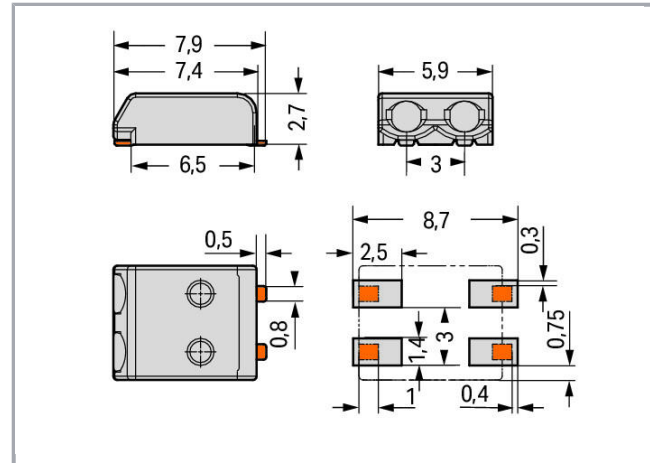
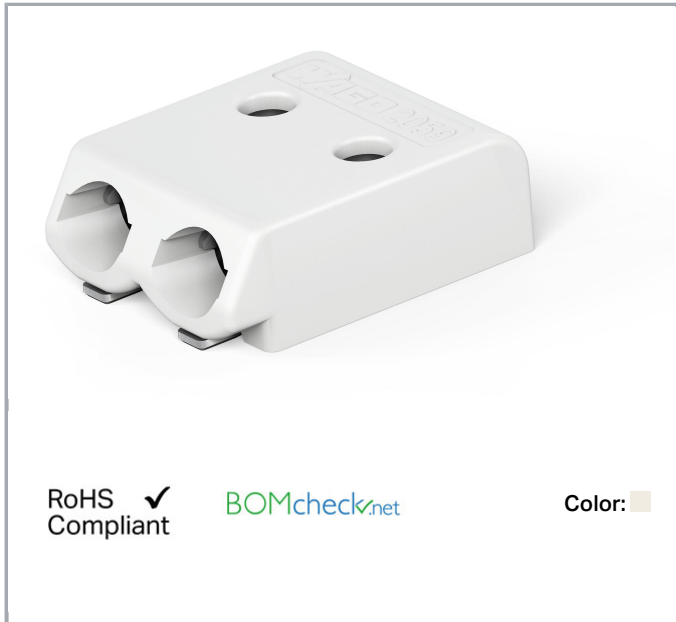


## Data sheet | Item number: 2059-302/998-403

SMD PCB terminal block; 0.5 mm<sup>2</sup>; Pin spacing 3 mm; 2-pole; PUSH WIRE®; in tape-and-reel packaging; 0,50 mm<sup>2</sup>; white



[www.wago.com/2059-302/998-403](http://www.wago.com/2059-302/998-403)



### 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)	250 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
Total number of connection points	2
Total number of potentials	2
Number of connection types	1
Number of levels	1
No. of poles	2

**Geometrical Data**

Pin spacing	3 mm / 0.118 inch
Width	5.9 mm / 0.232 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
Weight	0.162 g

**Environmental Requirements**


Limit temperature range	-60 ... +105 °C
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**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
	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.: 2059-902 Board-to-Board Link; Pin spacing 3 mm; 2-pole; Length: 15.3 mm; white	<a href="http://www.wago.com/2059-902">www.wago.com/2059-902</a>
	Item no.: 2059-902/018-000 Board-to-Board Link; Pin spacing 3 mm; 2-pole; Length: 17.5 mm; white	<a href="http://www.wago.com/2059-902/018-000">www.wago.com/2059-902/018-000</a>
	Item no.: 2059-902/021-000 Board-to-Board Link; Pin spacing 3 mm; 2-pole; Length: 20.5 mm; white	<a href="http://www.wago.com/2059-902/021-000">www.wago.com/2059-902/021-000</a>

##### tools

	Item no.: 2059-189 Operating tool; made of insulating material; for 2059 Series	<a href="http://www.wago.com/2059-189">www.wago.com/2059-189</a>
	Item no.: 206-859 Operating tool; for 2059 Series	<a href="http://www.wago.com/206-859">www.wago.com/206-859</a>

#### Downloads

##### Documentation

##### Additional Information

Technical explanations	Apr 3, 2019	pdf 3.6 MB	Download
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## CAD/CAE-Data

### CAD data

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Subject to changes.