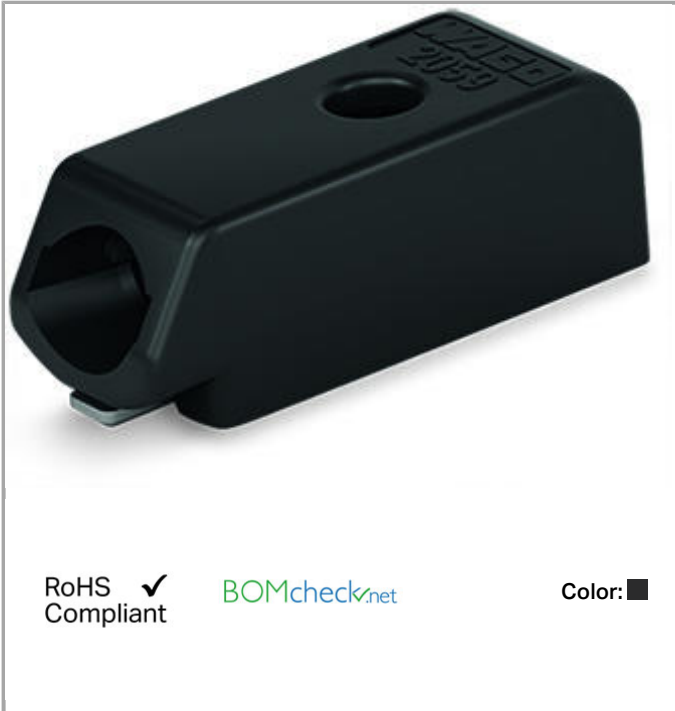


Data sheet | Item number: 2059-321/998-403

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



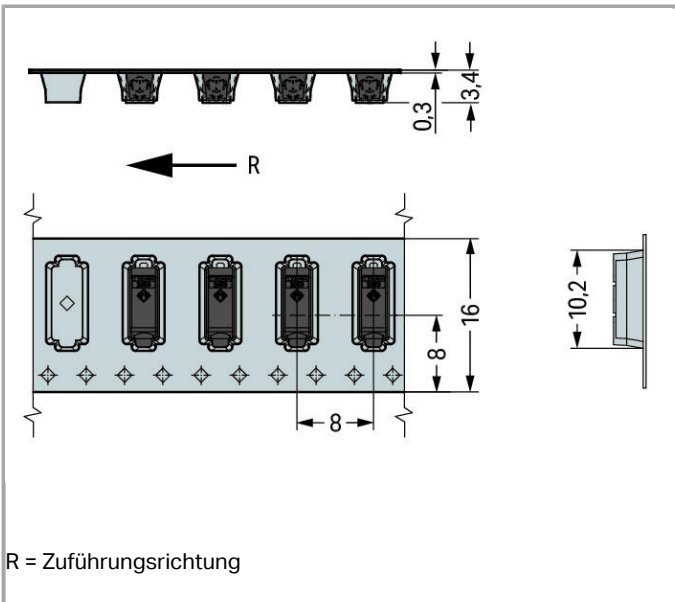
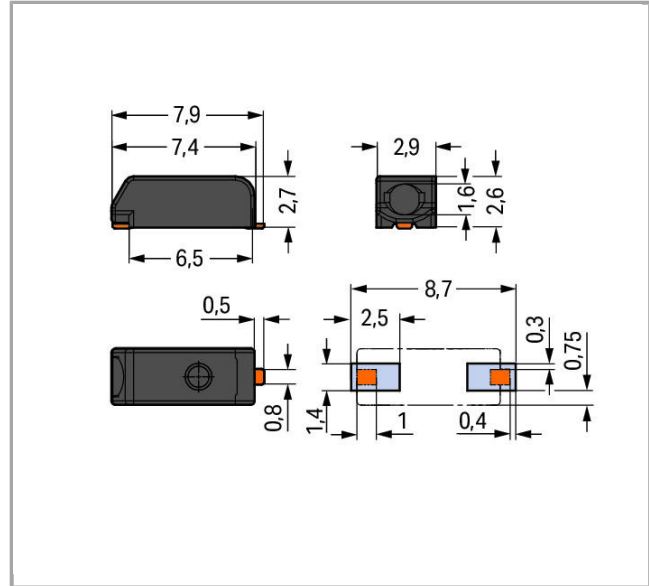
[www.wago.com/2059-321\\_998-403](http://www.wago.com/2059-321_998-403)



RoHS  Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color: ■



R = Zuführungsrichtung



### 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
Leiterquerschnitte eindrätig	0.14 mm <sup>2</sup>

### 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	black
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

Country of origin	CH
GTIN	4055143476584




## Approvals / Certificates

### Country specific Approvals



Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947-7-4	NTR NL-7680
	CCA DEKRA Certification B.V.	EN 60838	NTR NL-7720
	KEMA/KEUR DEKRA Certification B.V.	EN 60947-7-4	71-103560
	KEMA/KEUR DEKRA Certification B.V.	EN 60838	71-106226

## Compatible products

### General accessories

	<b>Item no.: 2059-901</b> Board-to-Board Link; Pin spacing 3 mm; 1-pole; Length: 15.3 mm	<a href="http://www.wago.com/2059-901">www.wago.com/2059-901</a>
	<b>Item no.: 2059-901/018-000</b> Board-to-Board Link; Pin spacing 3 mm; 1-pole; Length: 17.5 mm	<a href="http://www.wago.com/2059-901/018-000">www.wago.com/2059-901/018-000</a>
	<b>Item no.: 2059-901/021-000</b> Board-to-Board Link; Pin spacing 3 mm; 1-pole; Length: 20.5 mm	<a href="http://www.wago.com/2059-901/021-000">www.wago.com/2059-901/021-000</a>

### tools

	<b>Item no.: 2059-189</b> Operating tool; for 2059 Series SMD PCB Terminal Blocks; of insulating material	<a href="http://www.wago.com/2059-189">www.wago.com/2059-189</a>
	<b>Item no.: 206-859</b> Operating tool; for 2060 Series SMD Terminal Blocks	<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

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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}.