

Data sheet | Item number: 2059-322/998-403

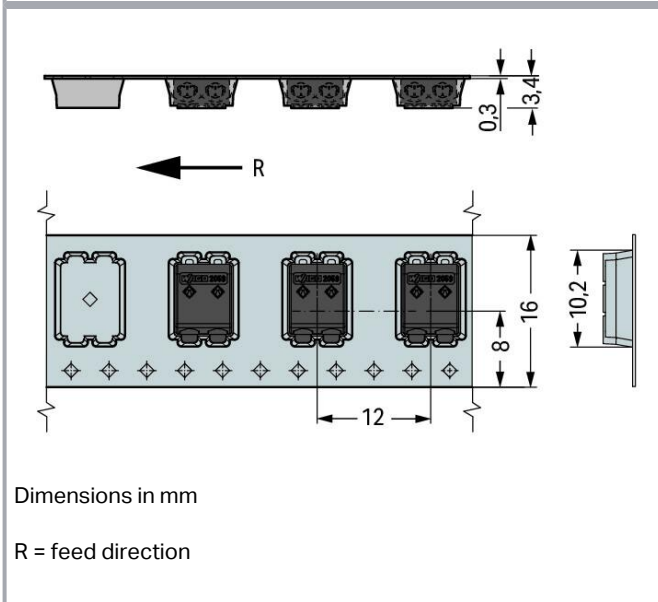
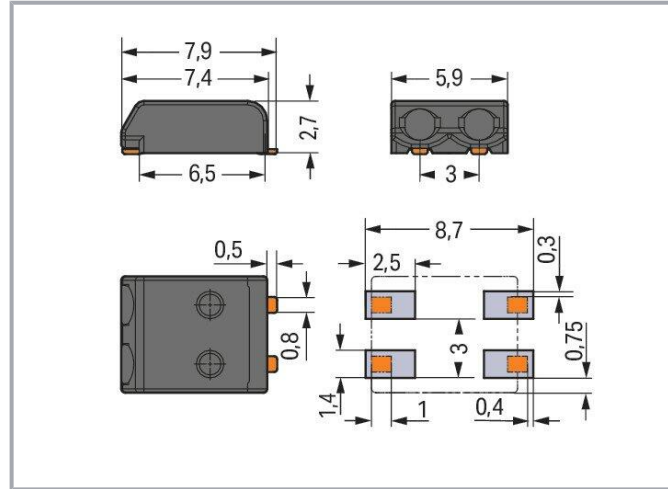
SMD PCB terminal block; 0.5 mm<sup>2</sup>; Pin spacing 3 mm; 2-pole; PUSH WIRE®; in tape-and-reel packaging; 0,50 mm<sup>2</sup>; black



[www.wago.com/2059-322/998-403](http://www.wago.com/2059-322/998-403)



Color: ■



Dimensions in mm

R = feed direction

## Item description

- SMD PCB terminal blocks with PUSH WIRE® connection technology
- Push-in termination of solid conductors

Subject to changes. Please also observe the further product documentation!

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- 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

## Data 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.
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Note	Depending on reflow soldering temperatures and times, color deviations may occur. These deviations will have no impact on functionality.
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Recommendation	Recommendation for stencil:  150 µm material thickness; Pattern layout identical to solder pad layout
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## Electrical data

### Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal 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
Nominal voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	3 A

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Legend (ratings)

(III / 2) ≙ Overvoltage category III / Pollution degree 2

### Ratings per UL 1977

Rated voltage (UL 1977)	250 V
Rated current UL 1977	3 A

### Connection data

Connection points	2
Total number of potentials	2
Number of connection types	1
Number of levels	1

### Connection 1

Connection technology	PUSH WIRE®
Actuation type	Operating tool
Solid conductor	0.14 ... 0.34 mm <sup>2</sup> / 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	2

### Connection 2

Solid conductor 2	0.5 mm <sup>2</sup> / 20 AWG
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 inches

### Physical data

Pin spacing	3 mm / 0.118 inches
Width	5.9 mm / 0.232 inches
Height	2.7 mm / 0.106 inches
Depth	7.9 mm / 0.311 inches
Reel diameter of tape-and-reel packaging	330 mm
Tape width	16 mm

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## Plug-in connection

Plugging without loss of pin spacing	Yes
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## 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
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Color	black
Material group	I
Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	Copper alloy
Contact plating	Tin
Fire load	0.002 MJ
Weight	0.2 g

## Environmental requirements

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

eCl@ss 10.0	27-14-11-06
eCl@ss 9.0	27-14-11-06
ETIM 8.0	EC001284
ETIM 7.0	EC001284
PU (SPU)	21000 (1750) pcs
Packaging type	box
Country of origin	CH
GTIN	4055143476560
Customs tariff number	85369010000

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## Environmental Product Compliance

RoHS Compliance Status




Compliant, No Exemption

## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947-7-4	NTR NL-7819
	CCA DEKRA Certification B.V.	EN 60947-7-4	71-111131
	CCA DEKRA Certification B.V.	EN 60838	NTR NL-7720
	KEMA/KEUR DEKRA Certification B.V.	EN 60838	71-106226

## Counterpart

	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>

## Optional accessories

### Board-to-board link

Board-to-board link

Subject to changes. Please also observe the further product documentation!

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Item no.: 2059-902/018-000

Board-to-Board Link; Pin spacing 3 mm; 2-pole; Length: 17.5 mm; white

[www.wago.com/2059-902/018-000](http://www.wago.com/2059-902/018-000)



Item no.: 2059-902/021-000

Board-to-Board Link; Pin spacing 3 mm; 2-pole; Length: 20.5 mm; white

[www.wago.com/2059-902/021-000](http://www.wago.com/2059-902/021-000)



Item no.: 2059-902

Board-to-Board Link; Pin spacing 3 mm; 2-pole; Length: 15.3 mm; white

[www.wago.com/2059-902](http://www.wago.com/2059-902)

## Tool

Operating tool



Item no.: 206-859

Operating tool; for 2059 Series; multicoloured

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



Item no.: 2059-189

Operating tool; made of insulating material; for 2059 Series

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

## Downloads

### Documentation

#### Additional Information

Technical Section	2019 Apr 3	pdf	Download
Technical explanations		2.0 MB	

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 2059-322/998-403	URL	Download
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> ; black		

## Installation Notes

### Conductor termination

Subject to changes. Please also observe the further product documentation!



Insert solid conductors via push-in termination.

#### 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)

Subject to changes. Please also observe the further product documentation!