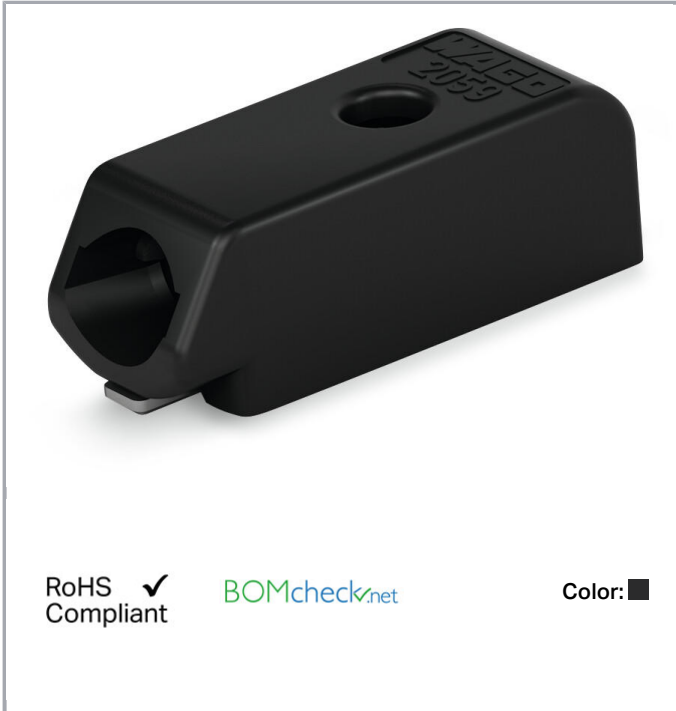


Data sheet | Item number: 2059-321/998-403

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



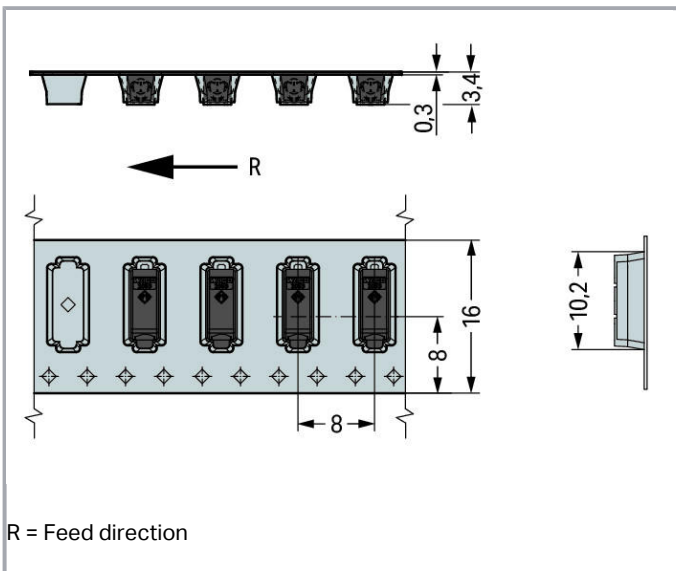
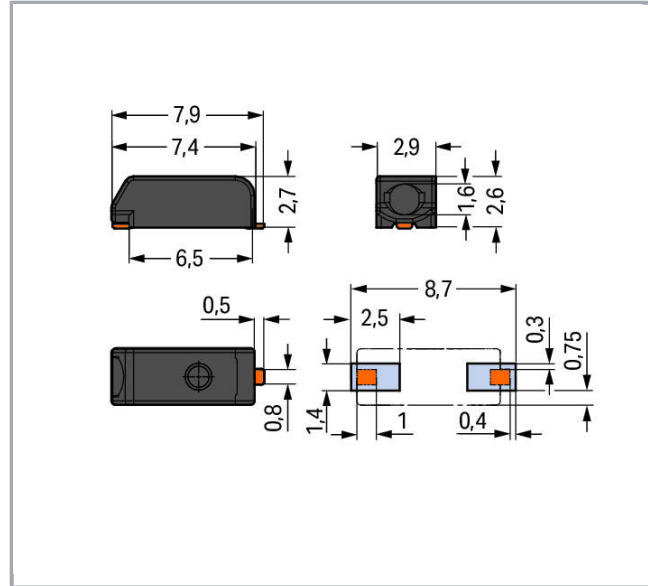
www.wago.com/2059-321/998-403



RoHS Compliant

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

Color:



R = Feed direction



Item description

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

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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



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

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.

Note:

Depending on reflow soldering temperatures and times, color deviations may occur. These deviations will have no impact on functionality.

Recommendation:

Recommendation for stencil:

Material thickness: 150 µm; Pattern layout identical to solder pad layout

Data

Electrical data

Ratings per IEC/EN 60664-1

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

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

Approvals per UL 1059

Approvals per	UL 1059
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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 ² / 26 ... 22 AWG
Strip length	4 ... 5,5 mm / 0.16 ... 0.22 inch
Conductor entry angle to the PCB	0°
No. of poles	1
Solid conductor (2)	0,5 mm ² / 20 AWG
Note (conductor cross-section) 2	No reconnection of smaller conductor cross-sections (0.5 mm ² /20 AWG)
Strip length (2)	6 ... 7,5 mm / 0.24 ... 0.3 inch
Total number of connection points	1
Total number of potentials	1
Number of connection types	1
Number of levels	1
Note (conductor cross-section)	For conductors (26 AWG) that are not rigid enough, the clamping unit must be opened using an operating tool.

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

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	0.001 MJ
Weight	0.1 g

Environmental Requirements




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

Packaging type	BOX
Country of origin	CH
GTIN	4055143476584
Customs Tariff No.	85369010000

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

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



Counterpart

Compatible products

tools

	Item no.: 2059-189 Operating tool; made of insulating material; for 2059 Series	www.wago.com/2059-189
	Item no.: 206-859 Operating tool; for 2059 Series	www.wago.com/206-859

General accessories

Item no.: 2059-901 Board-to-Board Link; Pin spacing 3 mm; 1-pole; Length: 15.3 mm; white	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; white	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; white	www.wago.com/2059-901/021-000

Downloads

Documentation

Additional Information

Technical explanations	Apr 3, 2019	pdf 3.6 MB	Download
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Installation Notes

Conductor termination

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



Inserting solid conductors via push-in termination.

Conductor termination



Easy conductor removal (e.g., via 206-859 Operating Tool)

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