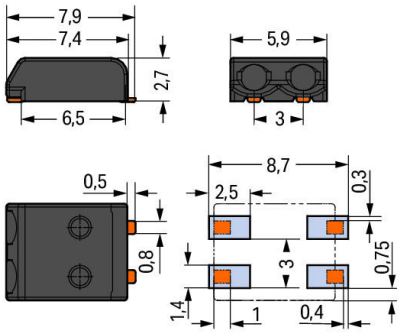
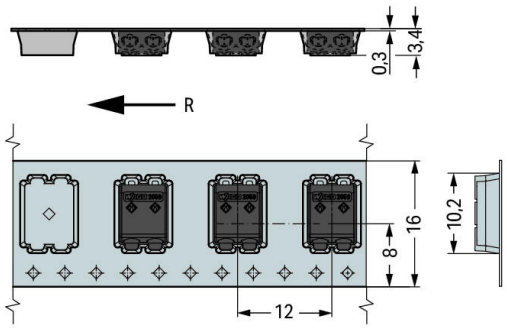
Data sheet | Item number: 2059-322/998-403

SMD PCB terminal block; 0.5 mm²; Pin spacing 3 mm; 2-pole; PUSH WIRE®; in tape-and-reel packaging; 0,50 mm²; black

www.wago.com/2059-322/998-403

RoHS Compliant ✓ BOMcheck.net **Color:** ■





R = Feed direction

Item description

- 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

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

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Phone: +49571 887-0 | Fax: +49571 887-169
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Do you have any questions about our products?
We are always happy to take your call at 01788 568 008.

- 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

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	63 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Nominal voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	3 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

Ratings per UL

Approvals per	UL 1059

Ratings per UL

Rated voltage UL 1977	250 V

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

Rated current UL 1977	3 A

Ratings per CSA

Approvals per	CSA

Connection data

Connection technology	PUSH WIRE®
Actuation type	Operating tool
Solid conductor	0.14 … 0.34 mm² / 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 inch
Conductor connection direction to PCB	0 °
Pole No.	2
Solid conductor 2	0.5 mm² / 20 AWG
Note (conductor cross-section) 2	No reconnection of smaller conductor cross-sections (0.5 mm²/20 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

Physical 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

Material data

Color	black

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Material group	I
Insulation 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	0.2 g

Environmental requirements

Limit temperature range	-60 … +105 °C

Commercial data

Packaging type	BOX
Country of origin	CH
GTIN	4055143476560
Customs tariff number	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

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Compatible products

General accessories

	Item no.: 2059-902 Board-to-Board Link; Pin spacing 3 mm; 2-pole; Length: 15.3 mm; white	www.wago.com/2059-902
	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
	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

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; multicoloured	www.wago.com/206-859

Downloads

Documentation

Additional Information

Technical explanations	3. 4. 2019	pdf 2.0 MB	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2059-322/998-403 SMD PCB terminal block; 0.5 mm²; Pin spacing 3 mm; 2-pole; PUSH WIRE®; in tape-and-reel packaging; 0,50 mm²; black	URL	Download

Installation Notes

Conductor termination

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

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Insert solid conductors via push-in termination.

Conductor termination

Easy conductor removal, e.g., via operating tool (206-859)

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

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