

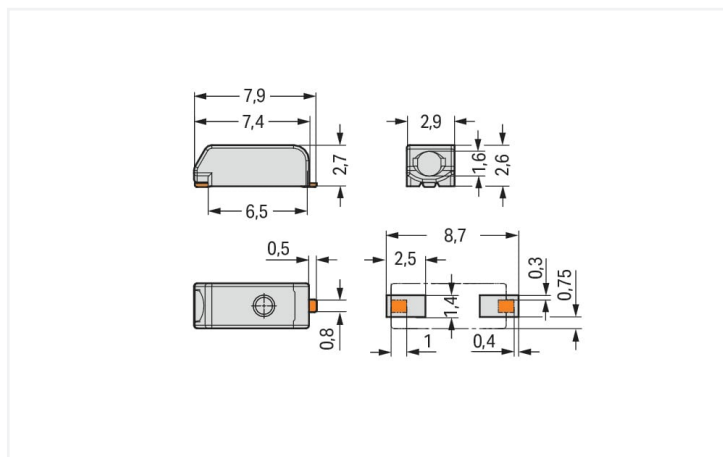
Data Sheet | Item Number: 2059-301/998-403

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

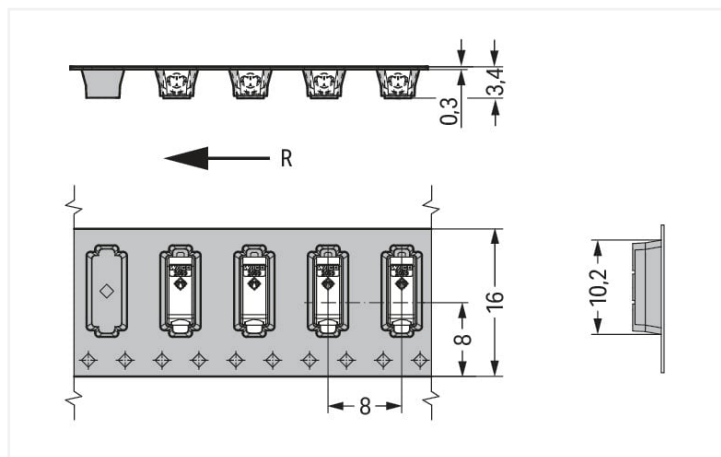
<https://www.wago.com/2059-301/998-403>



Color: ■ white



Dimensions in mm



Dimensions in mm

R = feed direction

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



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

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

Approvals per		UL 1977
Rated voltage		600 V
Rated current		3 A

Connection data	
Connection points	1
Total number of potentials	1
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 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 inches
Conductor connection direction to PCB	0 °
Pole number	1

Connection 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 inches

Physical data	
Pin spacing	3 mm / 0.118 inches
Width	2.9 mm / 0.114 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



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
Color		white
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		0.1 g

Environmental requirements		
Limit temperature range		-60 ... +105 °C

Commercial data		
Product Group		33 (SMT Terminal)
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)		31800 (2650) pcs
Packaging type		Box
Country of origin		CH
GTIN		4055143082679
Customs tariff number		85369010000

Environmental Product Compliance		
RoHS Compliance Status		Compliant, No Exemption

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7819
CCA DEKRA Certification B.V.	EN 60947	71-111131
CCA DEKRA Certification B.V.	EN 60838	NTR NL-7720
KEMA/KEUR DEKRA Certification B.V.	EN 60838	71-106226
UL Underwriters Laboratories Inc.	UL 1977	E45171



Downloads

Environmental Product Compliance

Compliance Search			
Environmental Product Compliance	2059-301/998-403		

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2010.85 KB	

CAD/CAE-Data

CAD data			
2D/3D Models	2059-301/998-403		

CAE data			
ZUKEN Portal	2059-301/998-403		

1 Compatible Products

1.1 Optional Accessories

1.1.1 Board-to-board link

1.1.1.1 Board-to-board link



[Item No.: 2059-901](#)
Board-to-Board Link; Pin spacing 3 mm; 1-pole; Length: 15.3 mm; white



[Item No.: 2059-901/018-000](#)
Board-to-Board Link; Pin spacing 3 mm; 1-pole; Length: 17.5 mm; white



[Item No.: 2059-901/021-000](#)
Board-to-Board Link; Pin spacing 3 mm; 1-pole; Length: 20.5 mm; white

1.1.2 Tool

1.1.2.1 Operating tool



[Item No.: 206-859](#)
Operating tool; for 2059 Series; multicoloured



[Item No.: 2059-189](#)
Operating tool; made of insulating material; for 2059 Series

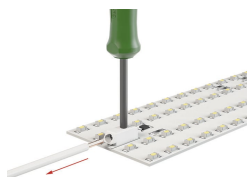
Installation Notes

Conductor termination



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)