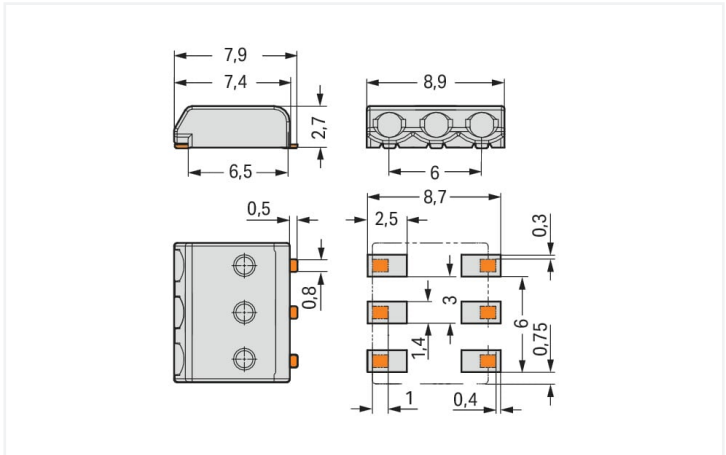


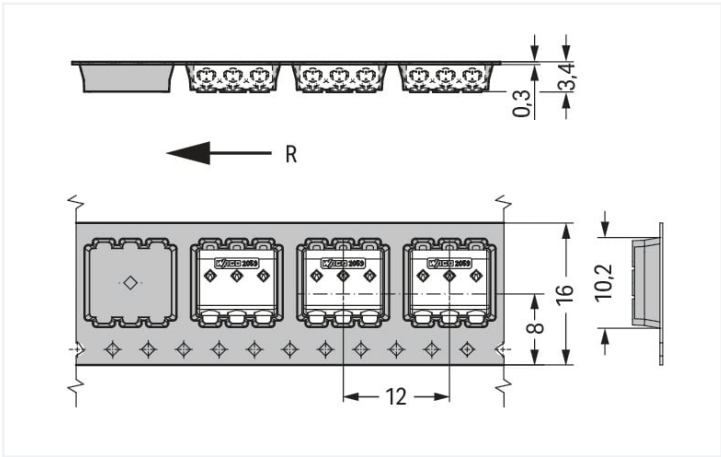
Data Sheet | Item Number: 2059-303/998-403
SMD PCB terminal block; 0.5 mm²; Pin spacing 3 mm; 3-pole; PUSH WIRE®; in tape-and-reel packaging; 0,50 mm²; white
<https://www.wago.com/2059-303/998-403>



Color: white



Dimensions in mm
L = (pole no. x pin spacing) – 0.1 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	Depending on reflow soldering temperatures and times, color deviations may occur. These deviations will have no impact on functionality. 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.
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		250 V		
Rated current		3 A		
Connection data				
Connection points	3	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 3		
Total number of potentials	3			
Number of connection types	1			
Number of levels	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	8.9 mm / 0.35 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	0.004 MJ			
Weight	0.2 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)	21000 (1750) pcs
Packaging type	Box
Country of origin	CH
GTIN	4055143082693
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 2059-303/998-403	



Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data

CAD data
2D/3D Models 2059-303/998-403

CAE data
ZUKEN Portal 2059-303/998-403

PCB Design
Symbol and Footprint via SamacSys 2059-303/998-403
Symbol and Footprint via Ultra Librarian 2059-303/998-403

1 Compatible Products

1.1 Optional Accessories

1.1.1 Board-to-board link

1.1.1.1 Board-to-board link



[Item No.: 2059-903](#)
Board-to-Board Link; Pin spacing 3 mm;
3-pole; Length: 15.3 mm; white



[Item No.: 2059-903/018-000](#)
Board-to-Board Link; Pin spacing 3 mm;
3-pole; Length: 17.5 mm; white



[Item No.: 2059-903/021-000](#)
Board-to-Board Link; Pin spacing 3 mm;
3-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; multico-
loured



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

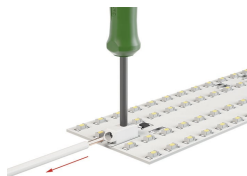
Installation Notes

Conductor termination



Insert solid conductors via push-in termi-
nation.

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)