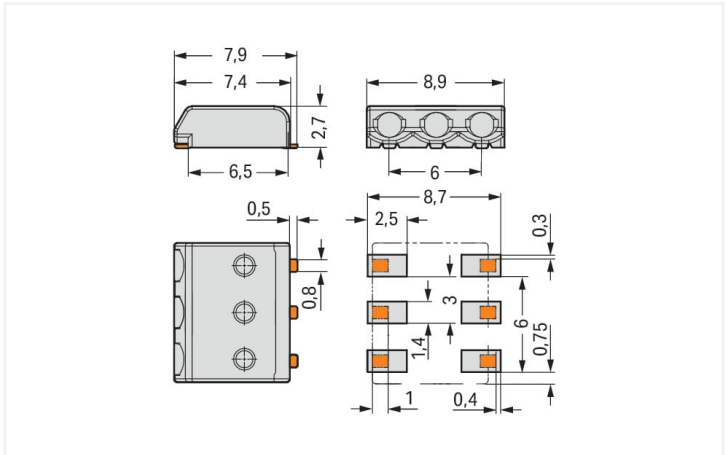


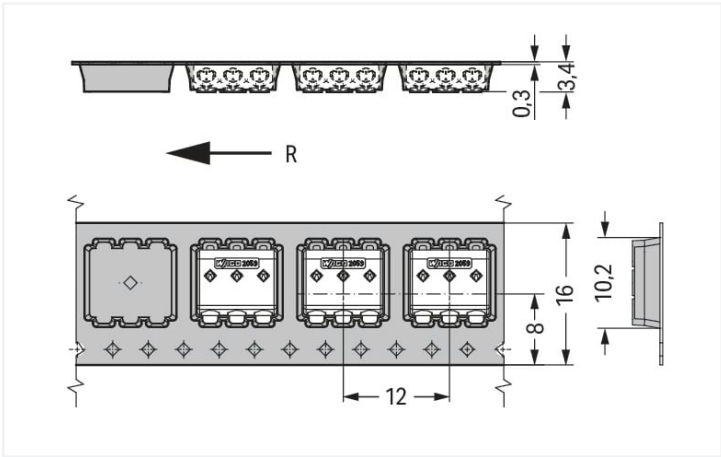
Data Sheet | Item Number: 2059-303/998-403
SMD PCB terminal block; 0.5 mm²; Pin spacing 3 mm; 3-pole; PUSH WIRE®; in tape-and-reel packaging; 0,50 mm²; white
<https://www.wago.com/2059-303/998-403>



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	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				Approvals per UL 1977	
Overvoltage category	III	III	II	Rated voltage	250 V
Pollution degree	3	2	2	Rated current	3 A
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		

Connection data

Connection points	3	Connection 1	
Total number of potentials	3	Connection technology	PUSH WIRE®
Number of connection types	1	Actuation type	Operating tool
Number of levels	1	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

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 2010.85 KB	

CAD/CAE-Data

CAD data	CAE data
2D/3D Models 2059-303/998-403	ZUKEN Portal 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; multicoloured



Item No.: 2059-189
Operating tool; made of insulating material; for 2059 Series

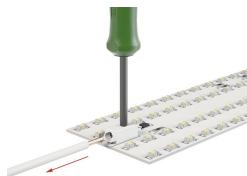
Installation Notes

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)