

SMD PCB Terminal Blocks, 0.5 mm² Pin Spacing: 3 mm 2059 Series



- SMD PCB terminal blocks with PUSH WIRE® connection technology
- Push-in termination of solid conductors
- Easy conductor removal, e.g., via operating tool
- Just 2.7 mm high
- Side-by-side arrangement without pole loss
- Available in tape-and-reel packaging for automated assembly

Technical data:

Pin Spacing	3 mm 0.118 in.		
Ratings per	IEC/EN 60664-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	63 V	160 V	320 V
Rated surge voltage	2.5 kV	2.5 kV	2.5 kV
Nominal current	3 A	3 A	3 A
Approvals per	UL 1977		
Rated voltage, 1-pole	600 V		
Rated voltage, 2 or more poles	250 V		
Nominal current UL	3 A		

Conductor data:

Connection technology	PUSH WIRE®
Conductor size: solid	0.14 ... 0.34 mm ²
AWG	26 ... 22 "sol."
Strip length	4 ... 5.5 mm / 0.16 ... 0.22 in.
Conductor entry angle	0° to PCB
Conductor size: solid	0.5 mm ²
AWG	20 "sol."
Note (0.5 mm ² /AWG 20 conductor size)	No reconnection of smaller conductor cross-sections
Strip length	6 ... 7.5 mm / 0.24 ... 0.3 in

Material data:

Material group	I
Insulating material	Glass-fiber-reinforced polyphthalamide (PPA GF)
Flammability class per UL 94	V0
Lower/Upper limit temperature	-60 °C / +105 °C
Contact material	Copper alloy
Contact plating	tin-plated

2059 Series accessories:

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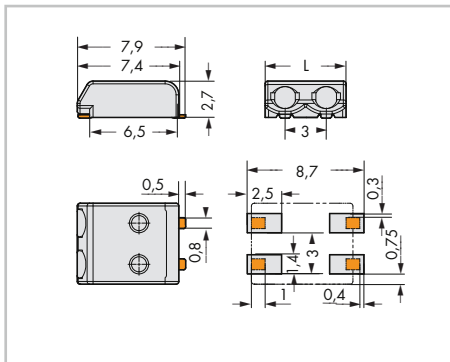
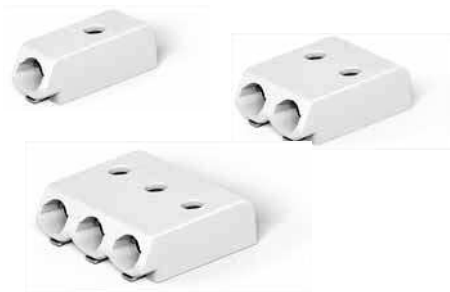
Application notes:

Suitable for lead-free, reflow-soldering profiles acc. to DIN EN 61760-1 and IEC 60068-2-58 up to max. 260 °C peak temperature. Due to customer specific variables (e.g., component configuration and orientation, type of soldering machine, solder paste), it is recommended that trial runs are conducted to ensure product and process compatibility under actual manufacturing conditions.

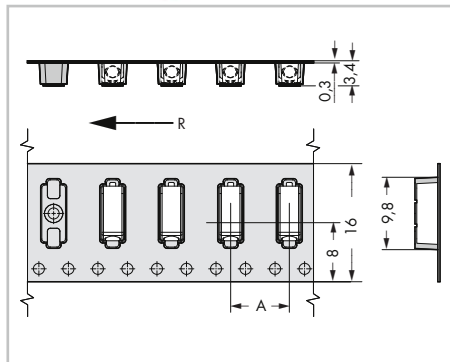
Recommendation for stencil: Material thickness, 150 µm. Pattern layout identical to solder pad layout.

*For 26 AWG "sol." conductors that are not rigid enough, the clamping unit must be opened using an operating tool.

<p>Pin spacing: 3 mm / 0.118 in.</p>	
<p>0.14 ... 0.5mm² "sol." 160 V/2.5 kV/2 3 A</p>	<p>26 ... 20 AWG "sol."</p>



L = (pole no. x pin spacing) - 0.1 mm



R = Feed direction
A = 8 mm (1-pole)
A = 12 mm (2- and 3-pole)

Pole No.	Item No.	Pack. Unit
<p>SMD PCB terminal block in tape-and-reel packaging, white *</p>		
1	2059-301/998-403	31800 (12 x 2650)
2	2059-302/998-403	21000 (12 x 1750)
3	2059-303/998-403	21000 (12 x 1750)
<p>Reel diameter: 330 mm</p>		



Inserting solid conductors via push-in termination.



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

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