Surface Mount Terminal Blocks

with Push-Buttons

WAGO
INNOVATIVE CONNECTIONS

Surface Mount Terminal Blocks with Push-Buttons
Pin Spacing 4 mm, 8 mm
2060 Series

- Surface mount terminal blocks with CAGE CLAMP®S connection and push-buttons

- Direct push-in of solid conductors

- Push button for connection of stranded conductors, and for removal of all wire types

- A total height of only 4.5mm helps minimize shadowing in LED applications

- Packaged in tape-and-reel for automated SMT processes

- Large flat area for easy pick-n-place

- Wiring ports with balcony design – creates "lead-in" for ease of wiring, even at a slight angle

Technical data:

Pin Spacing	4 mm 0.157 in			8 mm 0.314 in			
Rating per	IEC/EN 60664-1			IEC/EN 60664-1			
Overvoltage category	III	III	II	III	III	II	
Pollution degree	3	2	2	3	2	2	
Rated voltage	63 V	160 V	320 V	63 V	160 V	320 V	
Rated surge voltage	2.5 kV	2.5 kV	2.5 kV	2.5 kV	2.5 kV	2.5 kV	
Nominal current	9 A	9 A	9 A	9 A	9 A	9 A	
Approvals per	ᴿᵁ/cᴿᵁ			ᴿᵁ/cᴿᵁ			
Rated voltage, 1-pole	600 V			–			
Rated voltage for 2-poles and more	250 V			600 V			
Nominal current UL	9 A			9 A			
Nominal current CSA	6 A			6 A			

Conductor data:

Connection technology	CAGE CLAMP®S
Conductor size: solid	0.20 – 0.75 mm²
Conductor size: fine-stranded	0.20 – 0.75 mm²
AWG	24 – 18
Strip length	6 – 7 mm / 0.24 – 0.28 in
Conductor entry angle	0° to PCB

Material data:

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

Current-Carrying Capacity Curve
Pin spacing: 4 mm / Conductor size: 0.75 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 1

Current in A

Ambient temperature °C

2-, 4-, 6-pole   Conductor rated current

2060 Series accessories:

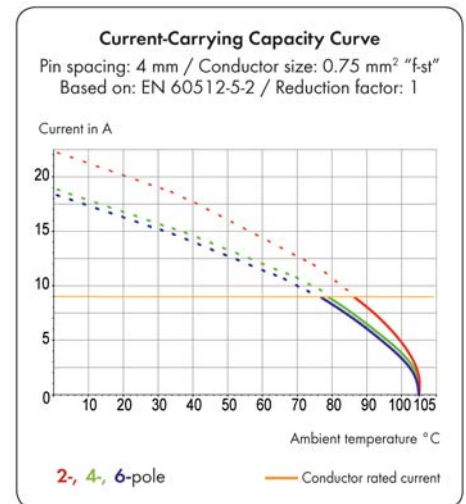|	
Operating Tools	233-335
Shorting Bar	2000-402
Interconnecting Link	2060-90x

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. Stencil layout identical to pad layout.

Depending on reflow soldering temperatures and times, color deviations may occur for light gray connectors. These deviations will have no impact on functionality.

*For applications requiring upper temperature limit higher than 105°C, contact factory. Restrictions may apply.

Pin spacing 4 mm / 0.157 in			Pin spacing 8 mm / 0.314 in		
0.2 - 0.75 mm²	AWG 24 - 18		0.2 - 0.75 mm²	AWG 24 - 18	
160 V/2.5 kV/2 9 A	1p	2 - 3p	630 V/6 kV/2 9 A	600 V/9 A ᴿᵁ	
	600 V/9 A ᴿᵁ	250 V/9 A ᴿᵁ		600 V/6 A c ᴿᵁ	
	600 V/6 A c ᴿᵁ	250 V/6 A c ᴿᵁ			
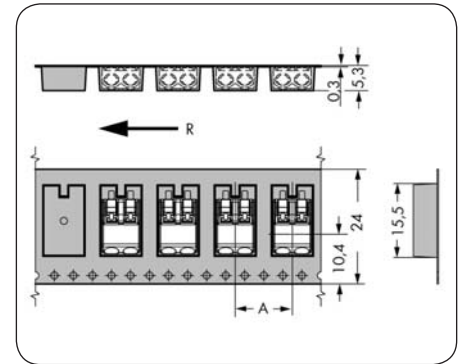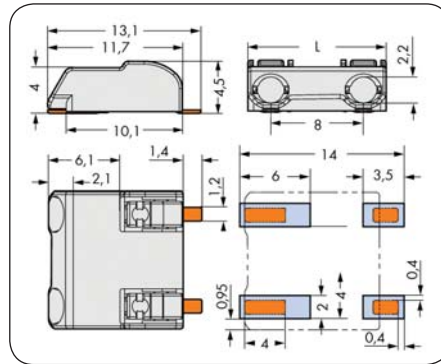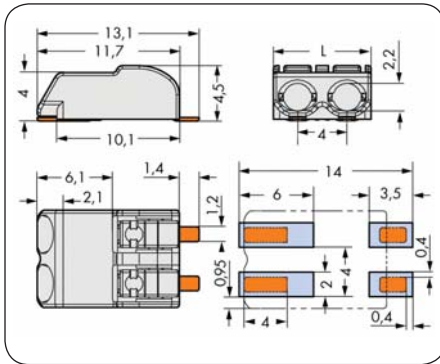
L = (pole no. x pin spacing) - 0.1 mm

R = Feed direction
A = (pole no. x pin spacing) + 4 mm

Pole No.	Item No.	Pack Unit/ Pieces per Reel		Pole No.	Item No.	Pack Unit/ Pieces per Reel	
Surface mount terminal blocks with push-buttons in tape-and-reel packaging				Surface mount terminal blocks with push-buttons in tape-and-reel packaging			
1	2060-401/998-404	○	1500				
2	2060-402/998-404	○	1000	2	2060-802/998-404	○	1000
3	2060-403/998-404	○	750				
1	2060-421/998-404	●	1500				
2	2060-422/998-404	●	1000				
3	2060-423/998-404	●	750				
Reel diameter: 330 mm				Reel diameter: 330 mm			

Group arrangement is possible without altering pad layout.

Inserting solid conductors via push-in termination.

Inserting/removing fine-stranded conductors by lightly pressing on push-button (e.g., using a 233-335 operating tool or a ball point pen).

2000-402 Shorting Bar – used to complete the circuit at the end of a string of linear LED modules, e.g., insert with WAGO logo facing upward, and at a slight angle so the bottom of the housing clears the bottom edge of the terminal block wire entry opening.

Connecting Links for Surface Mount Terminal Blocks with Push-Buttons
Pin Spacing 4 mm
2060 Series

- Connecting link simplifies LED circuit board assembly

- Easy push-in termination and disconnection without push-button actuation

- For board-to-board connections using 2060 series terminal blocks

- Eliminates manual wiring between boards or LED modules

Technical data:

Pin Spacing	4 mm 0.157 in				
Rating 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	9 A	9 A	9 A		
Approvals per	**�/ᴄᴜᴸ**				
Rated voltage	250 V				
Nominal current UL	9 A				
Nominal current CSA	6 A				

Material data:

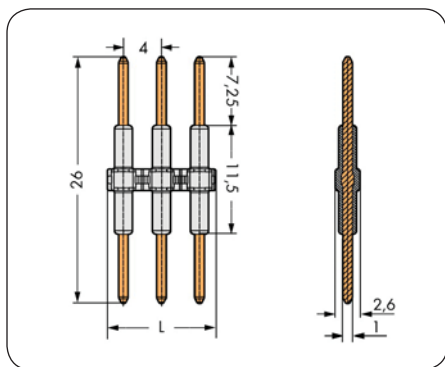|	
Material group	I
Insulating material	Polyamide 6.6 (PA 6.6)
Flammability rating per UL 94	V0
Lower/Upper temperature limit	-60°C/+105°C
Contact material	Copper alloy
Contact plating	Silver-plated

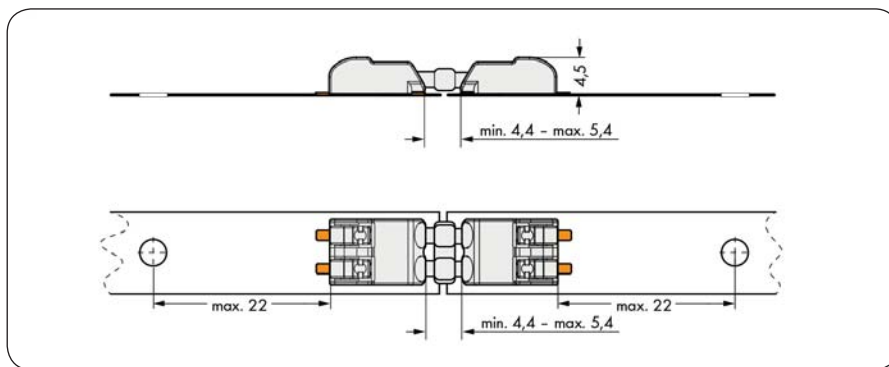# Connecting Links for Surface Mount Terminal Blocks
with Push-Buttons
2060 Series

Pin spacing 4 mm / 0.157 in			
160 V/2.5 kV/2 9 A	250 V/9 A [UL]		
	250 V/6 A c[UL]		

L = (pole no. x pin spacing) - 0.6 mm

| Pole No.	Item No.	Pack Unit
Connecting link for surface mount terminal blocks with push-buttons		
1	2060-901	
2	2060-902	
3	2060-903	

Inserting the connecting link into terminal block.
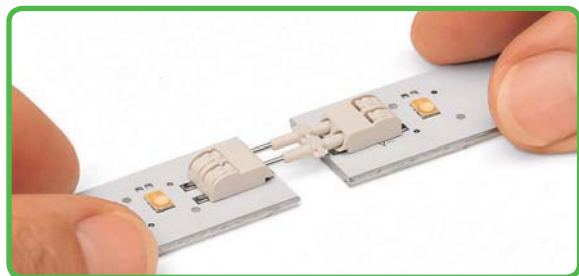
Assembly: Place PCB on a flat surface and insert links into terminal blocks on adjoing PCBs.
Disassembly: Pull PCBs apart.
(Maximum 10 connections/disconnections)

The PCBs must be secured (see figure above).

Surface Mount Terminal Blocks with Push-Buttons
Pin Spacing 6 mm
2061 Series
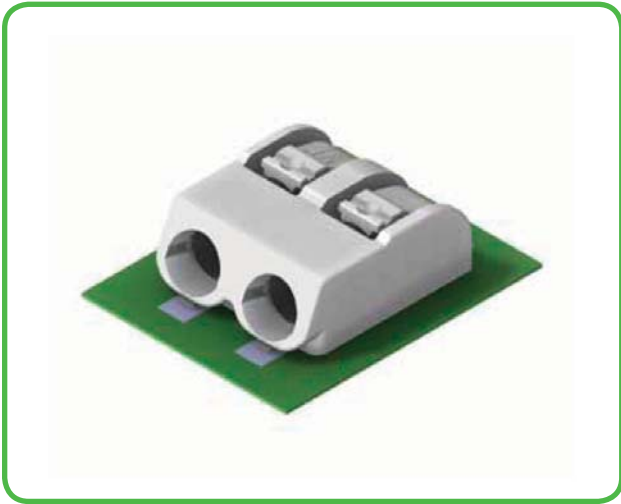
- Expanded wire range for power connection to LED modules with integrated drivers, or electronic devices for industrial use

- Surface mount terminal blocks with CAGE CLAMP®S connection and push-buttons

- A total height of only 5.6mm helps reduce shadowing in LED applications

- Push-in termination of solid conductors

- Available in tape-and-reel packaging for automated assembly

Technical data:

Pin Spacing	6 mm 0.24 in				
Rating per	IEC/EN 60664-1				
Overvoltage category	III	III	II		
Pollution degree	3	2	2		
Rated voltage	250 V	320 V	630 V		
Rated surge voltage	4 kV	4 kV	4 kV		
Nominal current	12 A	12 A	12 A		
Approvals per	𝖀𝕷 *				
Usegroup UL 1059	B	C	D		
Rated voltage for 1-pole					
Rated voltage for 2-poles and more					
Nominal current UL					

Conductor data:

Connection technology	CAGE CLAMP®S
Conductor size: solid	0.5 – 1.5 mm²
Conductor size: fine-stranded	0.5 – 1.5 mm²
AWG	22 – 16
Strip length	6 – 8 mm / 0.24 – 0.31 in
Conductor entry angle	0° to PCB

Material data:

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

2061 Series accessories:

|	
Operating Tools	**233-335**

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. Stencil layout identical to pad layout.

*UL certification pending.

Surface Mount Terminal Blocks with Push-Buttons
2061 Series

Pin spacing 6 mm / 0.24 in			
0.5 - 1.5 mm^2 320 V/4 kV/2 12 A	AWG 22 - 16		
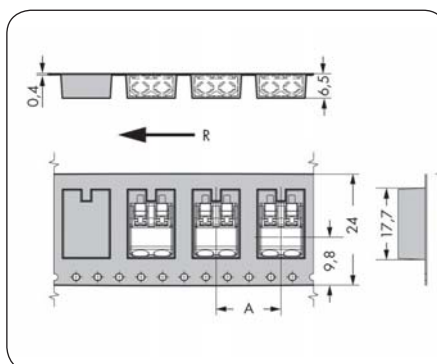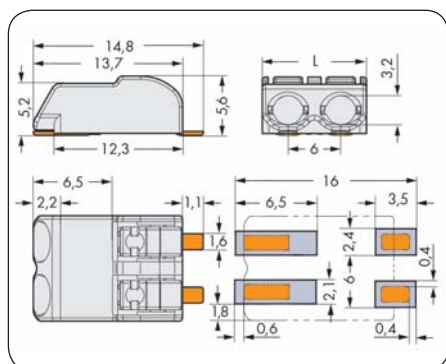
L = (pole no. x 6mm) - 0.3 mm

R = Feed direction
A = (pole no. x 6mm) +4mm

Pole No.	Item No.
Surface mount terminal blocks with push-buttons in tape-and-reel packaging	
1	**2061-601/998-404**
2	**2061-602/998-404**
3	**2061-603/998-404**
Reel diameter: 330 mm	

Inserting solid conductors via push-in termination.

Inserting/removing fine-stranded conductors by lightly pressing on push-button (e.g., using a 233-335 operating tool).

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