



# PUSH-IN PCB TERMINAL BLOCK CONNECTORS

## TIME SAVING CONNECTIVITY

TE Connectivity (TE) is expanding its terminal block connectors portfolio with push-in clamp termination PCB connectors to provide for virtually tool - less wire insertion of ferruled and unferruled wires. Comparing this to a standard screw-clamp termination, installation labor time can be reduced by up to 80%, resulting in significant cost savings. The design of the PCB terminal blocks in 2.5 mm, 3.5 mm, and 3.81 mm pitches consists of two-piece plug connectors with mating straight and right-angle shrouded headers. This product range is intended for use in high-density signal and power applications in control systems.

### BENEFITS

- Push-in clamp termination leads to reduced labor costs because of the shorter wiring time
- Design flexibility from various pitches and number of positions supports use in a wide range of applications, including harsh environments
- Maintenance reduced push-in clamp technology limits downtime and provides reliability of manufacturing process equipment and control devices

# PUSH-IN PCB CONNECTORS

## APPLICATIONS

- Servo / inverter drives
- Industrial controls / PLC (Programmable Logic Controller)
- Safety controls / modules
- Power supply units
- HVAC (Heating Ventilation Air Conditioning)

## FEATURE

- Centerline:  
2.5 mm / 0.098 inches  
3.5 mm / 0.138 inches  
3.81 mm / 0.15 inches
- Connector Size: Single row, Dual row  
(Refer specification table for number of positions)

## MATERIALS

- Housing: Polyamide, UL94 V0, green/black;  
Headers housing (HT) - LCP UL V0
- Terminals: Copper Alloy, Tin Plated
- Push Button: POM (Polyoxymethylene), UL94 HB, Orange
- Spring: Steel

## STANDARD

- RoHS & REACH compliant
- UL certified

## HEADER SPECIFICATION (MECHANICAL, ELECTRICAL, ENVIRONMENTAL)

Series	2842529	2842530	2842476	2842478	2842482	2842484	2842502	2842504	2842508	2842510
Pitch (mm)	2.5		3.5				3.81			
Mounting Angle to PCB	180°	90°	180°	90°	180°	90°	180°	90°	180°	90°
No of Position Available	2 to 24									
Number of Rows	1									
PCB Hole Diameter (mm)	1.40									
Operating Voltage (UL)	150V		300V							
Current Rating (UL)	4A		8A							
Insulation Withstand Voltage	1300 VAC		1600 VAC							
Insulation Resistance (Initial)	>1000 MΩ (500V DC)									
Soldering Temperature	260°C (Wave solder capable)									
Operating Temperature Range	-40 °C to 115 °C (-40 °F to +239 °F)									
Screw Flange	NA		NA		Yes	Yes	NA	NA	Yes	Yes
Side Latch	NA									

## PUSH-IN PCB CONNECTORS

Series	2842489	2842491	2842495	2842497
Pitch (mm)	3.5			
Mounting Angle to PCB	180°	90°	180°	90°
No of Position Available	2 to 24			
Number of Rows	2			
PCB Hole Diameter (mm)	1.40			
Operating Voltage (UL)	300V	150V	300V	150V
Current Rating (UL)	8A			
Insulation Withstand Voltage	1600 VAC			
Insulation Resistance (Initial)	>1000 MΩ (500V DC)			
Soldering Temperature	260°C (Reflow Solder Capable)			
Operating Temperature Range	-40 °C to 115 °C (-40 °F to +239 °F)			
Screw Flange	NA		YES	
Side Latch	NA		YES	

### PLUG SPECIFICATION (MECHANICAL, ELECTRICAL, ENVIRONMENTAL)

Series	2842528	2842474	2842480	2842487	2842493	2842499	2842500	2842506
Pitch (mm)	2.5	3.5				3.81		
No of Position Available	2 to 24							
Number of Rows	1	1	1	2	2	2	1	1
Wire Range - AWG	20 - 28	16 - 24	16 - 24	16 - 24	16 - 24	16 - 24	16 - 28	16 - 28
Wire Stripping Length (mm)	7 - 8	9 - 10	9 - 10	9 - 10	9 - 10	9 - 10	9 - 10	9 - 10
Operating Voltage (UL)	150V	150V				300V		
Current Rating (UL)	4A	8A						
Insulation Withstand Voltage	1300 VAC	1600 VAC						
Insulation Resistance (Initial)	>1000 MΩ (500 VDC)							
Operating Temperature Range	-40 °C to 115 °C (-40 °F to +239 °F)							
Screw Flange	NA	NA	YES	NA	YES	NA	NA	YES
Side Latch	NA	NA	NA	NA	NA	YES	NA	NA

## PUSH-IN PCB CONNECTORS

PART NUMBER LIST: CHOOSE A HEADER, 90° OR 180° TO GO WITH PLUG

Type	Pitch	Base Number	Available Positions
Plug 180°	2.5 mm	2842528	2 to 24
Header 180°		2842529	
Header 90°		2842530	
Plug 180°	3.5 mm	2842474	2 to 24
Header 180°		2842476	
Header 90°		2842478	
Plug 180° w/ Flg	3.5 mm	2842480	2 to 24
Header 180° w/ Flg		2842482	
Header 90° w/ Flg		2842484	
Plug 180°	3.5 mm	2842487	4 to 48
Header 180° (HT)		2842489	
Header 90° (HT)		2842491	
Plug 180° w/ Flg	3.5 mm	2842493	4 to 48
Header 180° (HT) w/ Flg		2842495	
Header 90° (HT) w/ Flg		2842497	
Plug 180° Side latch		2842499	
Plug 180°	3.81 mm	2842500	2 to 24
Header 180°		2842502	
Header 90°		2842504	
Plug 180° w/ Flg	3.81 mm	2842506	2 to 24
Header 180° w/ Flg		2842508	
Header 90° w/ Flg		2842510	

\*Please search part numbers on [te.com](https://www.te.com)

# PUSH-IN PCB CONNECTORS

## PART NUMBER DEFINITION

For Single Row

Positions	Base Number	Part Number
2	XXXXXXXX	XXXXXXXX-2
3	XXXXXXXX	XXXXXXXX-3
4	XXXXXXXX	XXXXXXXX-4
5	XXXXXXXX	XXXXXXXX-5
6	XXXXXXXX	XXXXXXXX-6
7	XXXXXXXX	XXXXXXXX-7
8	XXXXXXXX	XXXXXXXX-8
9	XXXXXXXX	XXXXXXXX-9
10	XXXXXXXX	1-XXXXXXXX-0
11	XXXXXXXX	1-XXXXXXXX-1
12	XXXXXXXX	1-XXXXXXXX-2
13	XXXXXXXX	1-XXXXXXXX-3
14	XXXXXXXX	1-XXXXXXXX-4
15	XXXXXXXX	1-XXXXXXXX-5
16	XXXXXXXX	1-XXXXXXXX-6
17	XXXXXXXX	1-XXXXXXXX-7
18	XXXXXXXX	1-XXXXXXXX-8
19	XXXXXXXX	1-XXXXXXXX-9
20	XXXXXXXX	2-XXXXXXXX-0
21	XXXXXXXX	2-XXXXXXXX-1
22	XXXXXXXX	2-XXXXXXXX-2
23	XXXXXXXX	2-XXXXXXXX-3
24	XXXXXXXX	2-XXXXXXXX-4

\*Please search part numbers on [te.com](https://www.te.com)

# PUSH-IN PCB CONNECTORS

## For Dual Row

Positions	Base Number	Part Number
4	XXXXXXX	XXXXXXX-2
6	XXXXXXX	XXXXXXX-3
8	XXXXXXX	XXXXXXX-4
10	XXXXXXX	XXXXXXX-5
12	XXXXXXX	XXXXXXX-6
14	XXXXXXX	XXXXXXX-7
16	XXXXXXX	XXXXXXX-8
18	XXXXXXX	XXXXXXX-9
20	XXXXXXX	1-XXXXXXX-0
22	XXXXXXX	1-XXXXXXX-1
24	XXXXXXX	1-XXXXXXX-2
28	XXXXXXX	1-XXXXXXX-4
32	XXXXXXX	1-XXXXXXX-6
40	XXXXXXX	2-XXXXXXX-0
48	XXXXXXX	2-XXXXXXX-4

\*Please search part numbers on [te.com](https://www.te.com)

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