



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