



# 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	<a href="#">2842528</a>	2 to 24
Header 180°		<a href="#">2842529</a>	
Header 90°		<a href="#">2842530</a>	
Plug 180°	3.5 mm	<a href="#">2842474</a>	2 to 24
Header 180°		<a href="#">2842476</a>	
Header 90°		<a href="#">2842478</a>	
Plug 180° w/ Flg	3.5 mm	<a href="#">2842480</a>	2 to 24
Header 180° w/ Flg		<a href="#">2842482</a>	
Header 90° w/ Flg		<a href="#">2842484</a>	
Plug 180°	3.5 mm	<a href="#">2842487</a>	4 to 48
Header 180° (HT)		<a href="#">2842489</a>	
Header 90° (HT)		<a href="#">2842491</a>	
Plug 180° w/ Flg	3.5 mm	<a href="#">2842493</a>	4 to 48
Header 180° (HT) w/ Flg		<a href="#">2842495</a>	
Header 90° (HT) w/ Flg		<a href="#">2842497</a>	
Plug 180° Side latch		<a href="#">2842499</a>	
Plug 180°	3.81 mm	<a href="#">2842500</a>	2 to 24
Header 180°		<a href="#">2842502</a>	
Header 90°		<a href="#">2842504</a>	
Plug 180° w/ Flg	3.81 mm	<a href="#">2842506</a>	2 to 24
Header 180° w/ Flg		<a href="#">2842508</a>	
Header 90° w/ Flg		<a href="#">2842510</a>	

# 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

# 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

[te.com](https://www.te.com)

© 2024 TE Connectivity. All Rights Reserved.

TE Connectivity, TE connectivity (logo) and EVERY CONNECTION COUNTS are trademarks owned or licensed by TE Connectivity. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this document, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any changes to the information contained herein without prior notice. TE Connectivity assumes only those obligations set forth in the terms and conditions for this product and shall in no event be liable for any incidental, indirect, or consequential damages arising out of the sale, resale, use, or misapplication of the product. TE expressly disclaims any implied warranties with respect to the information contained herein, including, but not limited to, implied warranties of merchantability or fitness for a particular purpose. Dimensions, specifications and/or information contained herein are for reference purposes only and are subject to change without notice. Consult TE for the latest dimensions, specifications and/or information. Users of TE Connectivity products must make their own assessment as to whether the respective product is suitable for the respective desired application.

05/24 VL

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[1-2842495-6](#) [1-2842497-0](#) [2-2842474-0](#) [2842480-9](#) [2842482-3](#) [2842491-3](#) [2842497-4](#) [2842499-3](#) [2842499-5](#)  
[2842528-6](#) [2842529-7](#) [2842529-9](#) [1-2842474-2](#) [1-2842487-4](#) [1-2842506-0](#) [1-2842528-6](#) [2-2842495-4](#) [2842476-7](#)  
[2842480-5](#) [2842484-6](#) [2842484-7](#) [2842506-4](#) [2842529-4](#) [1-2842484-0](#) [1-2842502-4](#) [2-2842489-0](#) [2-2842504-4](#)  
[2842474-6](#) [2842478-7](#) [2842487-5](#) [2842487-7](#) [2842500-2](#) [2842528-3](#) [2842528-5](#) [1-2842476-6](#) [1-2842484-1](#) [1-](#)  
[2842491-1](#) [1-2842502-2](#) [1-2842502-6](#) [1-2842508-6](#) [1-2842530-4](#) [2-2842502-0](#) [2-2842506-0](#) [2842474-5](#) [2842482-7](#)  
[2842491-7](#) [2842502-8](#) [2842504-2](#) [2842506-9](#) [2842530-5](#) [1-2842489-4](#) [1-2842502-1](#) [1-2842510-6](#) [1-2842529-1](#)  
[2-2842499-4](#) [2842474-8](#) [2842478-3](#) [2842484-2](#) [2842484-4](#) [2842487-3](#) [2842500-4](#) [2842502-5](#) [2842502-7](#)  
[2842508-8](#) [2842510-7](#) [2842530-6](#) [2842530-8](#) [1-2842474-4](#) [1-2842495-0](#) [1-2842506-4](#) [2-2842478-0](#) [2-2842478-4](#)  
[2-2842497-0](#) [2-2842497-4](#) [2842476-4](#) [2842480-7](#) [2842484-5](#) [2842484-8](#) [2842489-6](#) [2842500-8](#) [1-2842480-0](#) [1-](#)  
[2842482-2](#) [1-2842493-0](#) [1-2842504-4](#) [1-2842508-0](#) [1-2842508-2](#) [2-2842476-0](#) [2-2842480-4](#) [2-2842482-4](#) [2-](#)  
[2842508-0](#) [2-2842510-0](#) [2-2842530-4](#) [2842480-2](#) [2842489-4](#) [2842491-5](#) [2842497-6](#) [2842504-4](#) [2842504-6](#)  
[2842506-5](#) [1-2842474-1](#)