

# BUCHANAN PUSH-IN CLAMP PCB CONNECTORS

## Time saving connectivity

TE Connectivity (TE) is expanding its BUCHANAN portfolio with push-in clamp termination PCB Connectors to enable tool-less wire insertion of ferruled and unferruled wires. This saves up to 80% installation labor time vs. traditional screw-clamp termination, leading to important cost savings.

The design of the PCB Connectors in 2.5 mm, 3.5 mm, 3.81 mm, 5.08 mm and 7.62 mm pitch consists of two-piece plug connectors with mating straight and right-angle shrouded headers. TE engineers have designed this product range for use in control system applications to suit high density signal and power applications.

## 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 enables use in a wide range of applications, including harsh environments
- Maintenance free push-in clamp technology limits downtime and provides reliability of manufacturing process equipment and control devices

# BUCHANAN PUSH-IN CLAMP PCB CONNECTORS

## FEATURE

- **Centerline:** 2.5 mm / .098", 3.5 mm / .138", 3.81 mm / .15", 5.08 mm / .2", 7.62 mm / .3"
- **Connector Size:** Single row, Dual row (Refer specification table for number of positions)


## MATERIALS

- **Housing:** Polyamide, UL94 V0, Light green
- **Terminals:** Copper Alloy, Tin Plated
- **Push Button:** Polyamide, UL94 V0, Orange
- **Spring:** Stainless Steel

## APPLICATIONS

- Servo / inverter drives
- Industrial controls / PLC
- Safety controls / modules
- Power supply units
- HVAC

## STANDARD

- RoHS & REACH compliant
- UL recognized 
- VDE Approved

## HEADER SPECIFICATION (Mechanical, Electrical, Environmental)

SERIES	<u>2385002</u>	<u>2385003</u>	<u>2385005</u>	<u>2385006</u>	<u>2385008</u>	<u>2385009</u>	<u>2385011</u>	<u>2385012</u>	<u>2385014</u>	<u>2385015</u>
Pitch (mm)	2.5		3.81		5.08		7.62		3.5	
Mounting angle to PCB	90°	180°	90°	180°	90°	180°	90°	180°	90°	180°
No of Position Available	2 to 16		2 to 20		2 to 16		2 to 12		4 to 32	
Number of rows	1		1		1		1		2	
PCB hole diameter (mm)	1.2		1.3		1.5		1.5		1.3	
Operating Voltage (UL)	150 V		300 V		300 V		300 V		150 V	
Current Rating (UL)	4 A		10 A		16 A		20 A		8 A	
Insulation Withstand voltage	1300 VAC		1600 VAC		1600 VAC		2200 VAC		1300 VAC	
Insulation Resistance (Initial)	>2000 MΩ (500V DC)									
Soldering Temp	260°C									
Operating Temp Range	-40 °C to 105 °C (-40 °F to +221 °F)									


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

SERIES	<u>2385001</u>	<u>2385004</u>	<u>2385007</u>	<u>2385010</u>	<u>2385013</u>
Pitch (mm)	2.5	3.81	5.08	7.62	3.5
No of Position Available	2 to 16	2 to 20	2 to 16	2 to 12	4 to 32
Number of rows	1	1	1	1	2
Wire Range - AWG	20 to 28	16 to 28	12 to 26	12 to 26	16 to 24
Wire Stripping Length (mm)	7 to 8	9 to 10	11 to 12	11 to 12	9 to 10
Operating Voltage (UL)	150 V	300 V	300 V	300 V	150 V
Current Rating (UL)	4 A	8 A	16 A	20 A	8 A
Insulation Withstand voltage	1300 VAC	1600 VAC	1600 VAC	2200 VAC	1300 VAC
Insulation Resistance (Initial)	>2000 MΩ (500V DC)				
Operating Temp Range	-40 °C to 105 °C (-40 °F to +221 °F)				

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**PART NUMBER LIST:** Choose a header, 90° or 180° to go with plug.

Type	Image	Pitch	Base Number	Available Positions
Plug 180°		2.5 mm	<a href="#"><u>2385001</u></a>	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
Header 90°			<a href="#"><u>2385002</u></a>	
Header 180°			<a href="#"><u>2385003</u></a>	
Plug 180°		3.5 mm	<a href="#"><u>2385013</u></a>	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32
Header 90°			<a href="#"><u>2385014</u></a>	
Header 180°			<a href="#"><u>2385015</u></a>	
Plug 180°		3.81 mm	<a href="#"><u>2385004</u></a>	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
Header 90°			<a href="#"><u>2385005</u></a>	
Header 180°			<a href="#"><u>2385006</u></a>	
Plug 180°		5.08 mm	<a href="#"><u>2385007</u></a>	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
Header 90°			<a href="#"><u>2385008</u></a>	
Header 180°			<a href="#"><u>2385009</u></a>	
Plug 180°		7.62 mm	<a href="#"><u>2385010</u></a>	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Header 90°			<a href="#"><u>2385011</u></a>	
Header 180°			<a href="#"><u>2385012</u></a>	

# BUCHANAN PUSH-IN CLAMP PCB CONNECTORS

## PART NUMBER DEFINITION

For base numbers: 2385001 2385004 2385007 2385010

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

For base number: 2385013

Positions	Base number	Part number
4	XXXXXXXX	XXXXXXXX -4
6	XXXXXXXX	XXXXXXXX -6
8	XXXXXXXX	XXXXXXXX -8
10	XXXXXXXX	1-XXXXXXXX -0
12	XXXXXXXX	1-XXXXXXXX -2
14	XXXXXXXX	1-XXXXXXXX -4
16	XXXXXXXX	1-XXXXXXXX -6
18	XXXXXXXX	1-XXXXXXXX -8
20	XXXXXXXX	2-XXXXXXXX -0
22	XXXXXXXX	2-XXXXXXXX -2
24	XXXXXXXX	2-XXXXXXXX -4
26	XXXXXXXX	2-XXXXXXXX -6
28	XXXXXXXX	2-XXXXXXXX -8
30	XXXXXXXX	3-XXXXXXXX -0
32	XXXXXXXX	3-XXXXXXXX -2

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