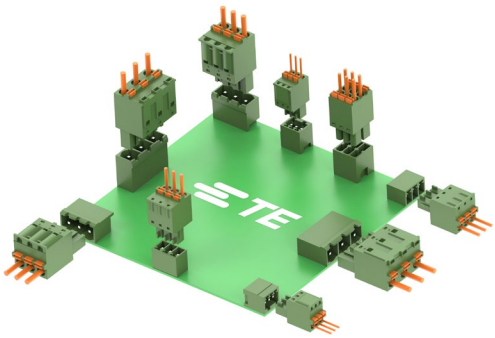


BUCHANAN PUSH-IN CLAMP PCB CONNECTORS

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** c UL us
- **VDE Approved**

HEADER SPECIFICATION (Mechanical, Electrical, Environmental)

SERIES	2385002	2385003	2385005	2385006	2385008	2385009	2385011	2385012	2385014	2385015
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)									

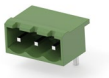
BUCHANAN PUSH-IN CLAMP PCB CONNECTORS

PLUG SPECIFICATION (MECHANICAL, ELECTRICAL, ENVIRONMENTAL)

SERIES	2385001	2385004	2385007	2385010	2385013
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)				

BUCHANAN PUSH-IN CLAMP PCB CONNECTORS

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

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

BUCHANAN PUSH-IN CLAMP PCB CONNECTORS

PART NUMBER DEFINITION

For base numbers: **2385001 2385004 2385007 2385010**

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

For base number: **2385013**

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

te.com

01/22 MU