



# **BUCHANAN PUSH-IN CLAMP PCB CONNECTORS**

# Time saving connectivity

TE Connectivity 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 3.5 mm and 5.0 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.

#### FEATURES

- Compact dimensions with 3.5 mm and 5.0 mm pitch
- Push-in clamp termination
- 2 16 poles available
- Straight and right angle shrouded headers available

#### **APPLICATIONS**

- Servo/Inverter Drives
- Industrial Controls/PLC
- Safety Controls/Modules
- Power Supply Units
- HVAC

#### **CUSTOMER BENEFITS**

- Reduced labor costs due to shorter wiring time with Push-in clamp termination.
- Various pitches and numbers of positions enables design flexibility in a wide range of applications.
- Maintenance-free Push-in clamp technology gives higher uptime and reliability of manufacturing process equipment and control devices.
- Products with Push-in clamp technology are also suitable for use in harsh environments.
- Customer-specific versions are available to enable individual customized solutions.

## TERMINAL BLOCK VERTICAL PLUG (PITCH 3.5, 5.0 MM)



### ELECTRICAL

		UL	IEC			
	PITCH (mm)		Overvoltage category / Pollution degree			
			III / 3	III / 2	II / 2	
	3.50	150	XX	XX	XX	
Operating Voltage(V)	5.00	300	160	XX	320	
Current(A)	3.50	8	XX			
Current(A)	5.00	16		XX		
Wire Dance	3.50	16-24	XX			
Wire Range	5.00	12-26		XX		
Dielectric Withstand	3.50	XX	XX			
Dielectric Withstand	5.00	2.5kV	2.5kV			
Wire Type		Sol/Str		Sol/Str		
Insulation Resistance	>2000MΩ (500V DC)					
Contact Resistance	<xx mω<="" td=""></xx>					

## DIRECTION OF WIRE ENTRY ANGLE TO PLUG



## HEADER MOUNTING ANGLE TYPE TO PCB



#### MECHANICAL

- Wire Strip Length: 9.0-10.0 mm (3.50 mm pitch)
  - 12.0-13.0 mm (5.00 mm pitch)
- PCB Hole Diameter: min 1.3 mm
- PCB Board Thickness: max 2.4 mm

#### MATERIAL

- Housing: Polyamide 66, UL 94V-0, Green
- Terminals: Brass; Finish: Leadfree tin-plated
- Push Button: Polyamide 66, Orange
- Spring: Stainless steel

## ENVIRONMENTAL

Operating Tempe Range: -40 °C ÷ 105 °C (-40 °F ÷ +221 °F)

#### **PRODUCT COMPLIANCE / APPROVALS**

- RoHS Compliant:
- UL approval: File No. E60677
- VDE Approval: pending

Note: Parts listed in this document are approved

## PRODUCT SELECTION INFORMATION - TWO-PIECE PLUG WITH CLOSED HEADER - 3.50 MM PITCH





2.1







Pitch	Position	Plug		Header With Closed Ends			
		180°	DIM A	90°	180°	DIM A	
3.5	2	2350398-2	7.70	2350514-2	2351886-2	7.60	
	3	2350398-3	11.20	2350514-3	2351886-3	11.10	
	4	2350398-4	14.70	2350514-4	2351886-4	14.60	
	5	2350398-5	18.20	2350514-5	2351886-5	18.10	
	6	2350398-6	21.70	2350514-6	2351886-6	21.60	
	7	2350398-7	25.20	2350514-7	2351886-7	25.10	
	8	2350398-8	28.70	2350514-8	2351886-8	28.60	
	9	2350398-9	32.20	2350514-9	2351886-9	32.10	
	10	1-2350398-0	35.70	1-2350514-0	1-2351886-0	35.60	
	11	1-2350398-1	39.20	1-2350514-1	1-2351886-1	39.10	
	12	1-2350398-2	42.70	1-2350514-2	1-2351886-2	42.60	
	13	1-2350398-3	46.20	1-2350514-3	1-2351886-3	46.10	
	14	1-2350398-4	49.70	1-2350514-4	1-2351886-4	49.60	
	15	1-2350398-5	53.20	1-2350514-5	1-2351886-5	53.10	
	16	1-2350398-6	56.70	1-2350514-6	1-2351886-6	56.60	

- All dimensions are in mm.

## PRODUCT SELECTION INFORMATION - TWO-PIECE PLUG WITH CLOSED HEADER - 5.00 MM PITCH



















Pitch	Position	Plug		Header With Closed Ends			
		180°	DIM A	90°	180°	DIM A	
5.00	2	2350397-2	10.0	2350513-2	2351885-2	11.6	
	3	2350397-3	15.0	2350513-3	2351885-3	16.6	
	4	2350397-4	20.0	2350513-4	2351885-4	21.6	
	5	2350397-5	25.0	2350513-5	2351885-5	26.6	
	6	2350397-6	30.0	2350513-6	2351885-6	31.6	
	7	2350397-7	35.0	2350513-7	2351885-7	36.6	
	8	2350397-8	40.0	2350513-8	2351885-8	41.6	
	9	2350397-9	45.0	2350513-9	2351885-9	46.6	
	10	1-2350397-0	50.0	1-2350513-0	1-2351885-0	51.6	
	11	1-2350397-1	55.0	1-2350513-1	1-2351885-1	56.6	
	12	1-2350397-2	60.0	1-2350513-2	1-2351885-2	61.6	
	13	1-2350397-3	65.0	1-2350513-3	1-2351885-3	66.6	
	14	1-2350397-4	70.0	1-2350513-4	1-2351885-4	71.6	
	15	1-2350397-5	75.0	1-2350513-5	1-2351885-5	76.6	
	16	1-2350397-6	80.0	1-2350513-6	1-2351885-6	81.6	

- All dimensions are in mm.

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3-1773982-8 09/19 Tangence

