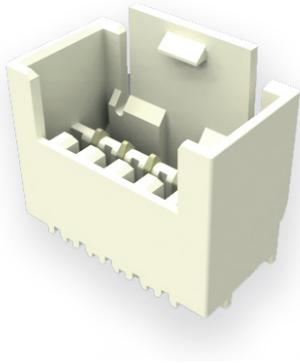


PCB CONNECTOR THAT MEETS RAST 2.5 STANDARD



PCB CONNECTOR THAT MEETS RAST 2.5 STANDARD WITH VERTICAL THROUGH HOLE TECHNOLOGY, AVAILABLE WITH TIN OR SILVER PLATING, EXTERNAL OR INTERNAL LOCKING

TE Connectivity's PCB connectors, designed to meet the RAST 2.5 standard, feature vertical through-hole technology and offer versatile solutions for wire-to-board connections. Available with options for tin or silver plating, these connectors support both external and internal locking mechanisms, providing flexibility for a variety of applications. Ideal for industrial and appliance use, they ensure compliance with safety standards and are well-suited for control units and other devices. With a 2.5 mm pitch and a range of 3 to 15 positions, these connectors can be customized with different plating, colors, and keying designs to optimize performance and reduce costs.

ELECTRICAL

- Rated Current: 2A for fully loaded version; 6A for selectively loaded version
- Rated Voltage: 50V for fully loaded version; 250V for selectively loaded version
- Insulation Resistance: 5000M Ω
- Dielectric Strength: 1500V/m
- Voltage Rating: 50, 250
- Current Rating (A): 6

MECHANICAL

- Positions: 3-17
- Configurations: Wire-To-Board

MATERIAL

- Operating Temperature ($^{\circ}\text{C}$): -40 to +120
- Housing: Meets Thermoplastic UL 94 V0 and IEC 60335-1
- Contact: Copper Alloy, Tin or Silver plating over Nickel

STANDARDS & SPECIFICATIONS

- According to RAST 2.5 Specification
- Product Specification: 108-106079
- UL94 Rating: V-0

KEY FEATURES

- Designed to the RAST 2.5 Standard
- Tin / Silver plating
- 3-15 positions
- Available in multiple colors
- Internal and external locking
- UL/VDE/CQC approval
- Meets UL 94 V0 & GWT 750 $^{\circ}\text{C}$ w/o flame

APPLICATIONS



Refrigerator



Front-loading washing machine



Dishwasher



Microwave oven

PCB CONNECTOR THAT MEETS RAST 2.5 STANDARD

PRODUCT OFFERING

Part Number Ordering: Example for X-1971817-Y

-3

Substitute dash number listed for “Y”, therefore a -3 signifies PN 1971817-3.

1- -3

Substitute first number for “X” and second number listed for “Y”, therefore a 1- -3 signifies PN 1-1971817-3.

* Follow same numbering scheme throughout for other part numbers listed.

EXTERNAL LOCKING - FULLY LOADED

TIN PLATED																
No. of Pos.	3		4	5	6	7	8	9	10		11	12	13	14	15	
X-1971817-Y	1- -3	8- -3	1- -4	1- -5	1- -6	1- -7	1- -8	1- -9	1- -0	X-1971818-Y	1- -1	1- -2	1- -3	1- -4	1- -5	
	2- -3	9- -3	2- -4	2- -5	2- -6	2- -7	2- -8	2- -9	2- -0		2- -1	2- -2			2- -5	
	3- -3	-3	3- -4	3- -5	3- -6	3- -7	3- -8	3- -9	3- -0						3- -5	
	4- -3		4- -4	4- -5	4- -6	4- -7		4- -9								
	5- -3		5- -4			5- -7		5- -9								
	6- -3		6- -4			6- -7		6- -9								
	7- -3					7- -7										

Ag PLATED																
No. of Pos.	3		4	5	6	7	8	9	10		11	12	13	14	15	
X-1971837-Y	1- -3	8- -3	1- -4	1- -5	1- -6	1- -7	1- -8	1- -9	1- -0	X-1971838-Y	1- -1	1- -2	1- -3	1- -4	1- -5	
	2- -3	9- -3	2- -4	2- -5	2- -6	2- -7	2- -8	2- -9	2- -0		2- -1	2- -2			2- -5	
	3- -3	-3	3- -4	3- -5	3- -6	3- -7	3- -8	3- -9	3- -0						3- -5	
	4- -3		4- -4	4- -5	4- -6	4- -7		4- -9								
	5- -3		5- -4			5- -7		5- -9								
	6- -3		6- -4			6- -7		6- -9								
	7- -3					7- -7										

PCB CONNECTOR THAT MEETS RAST 2.5 STANDARD

EXTERNAL LOCKING - SELECTIVELY LOADED

TIN PLATED																
No. of Pos.	3	4	5	6	7	8	9	10		11	12	13	14	15		
X-1971921-Y	1- -3	8- -3		1- -5		1- -7		1- -9		X-1971922-Y	1- -1		1- -3		1- -5	
	2- -3	9- -3		2- -5		2- -7		2- -9			2- -1				2- -5	
	3- -3	-3		3- -5		3- -7		3- -9							3- -5	
	4- -3			4- -5		4- -7		4- -9								
	5- -3			5- -5		5- -7		5- -9								
	6- -3					6- -7										
	7- -3															

SILVER PLATED																
No. of Pos.	3	4	5	6	7	8	9	10		11	12	13	14	15		
X-1971923-Y	1- -3	8- -3		1- -5		1- -7		1- -9		X-1971924-Y	1- -1		1- -3		1- -5	
	2- -3	9- -3		2- -5		2- -7		2- -9			2- -1				2- -5	
	3- -3	-3		3- -5		3- -7		3- -9							3- -5	
	4- -3			4- -5		4- -7		4- -9								
	5- -3			5- -5		5- -7		5- -9								
	6- -3					6- -7										
	7- -3															

INTERNAL LOCKING - FULLY LOADED

TIN PLATED																
No. of Pos.	3	4	5	6	7	8	9	10		11	12	13	14	15		
X-1971819-Y	1- -3	8- -3	1- -4	1- -5	1- -6	1- -7	1- -8	1- -9	1- -0	X-1971820-Y	1- -1	1- -2	1- -3	1- -4	1- -5	
	2- -3	9- -3	2- -4	2- -5	2- -6	2- -7	2- -8	2- -9	2- -0		2- -1				2- -5	
	3- -3	-3	3- -4	3- -5	3- -6	3- -7	3- -8	3- -9	3- -0						3- -5	
	4- -3		4- -4	4- -5	4- -6	4- -7		4- -9								
	5- -3		5- -4			5- -7		5- -9								
	6- -3					6- -7										
	7- -3															

PCB CONNECTOR THAT MEETS RAST 2.5 STANDARD

INTERNAL LOCKING - FULLY LOADED

SILVER PLATED															
No. of Pos.	3	4	5	6	7	8	9	10		11	12	13	14	15	
X-1971839-Y	1- -3	8- -3	1- -4	1- -5	1- -6	1- -7	1- -8	1- -9	1- -0	X-1971840-Y	1- -1	1- -2	1- -3	1- -4	1- -5
	2- -3	9- -3	2- -4	2- -5	2- -6	2- -7	2- -8	2- -9	2- -0		2- -1				2- -5
	3- -3	-3	3- -4	3- -5	3- -6	3- -7	3- -8	3- -9	3- -0						3- -5
	4- -3		4- -4	4- -5	4- -6	4- -7		4- -9							
	5- -3		5- -4			5- -7		5- -9							
	6- -3					6- -7									
	7- -3														

[LEARN MORE ▶](#)

PCB CONNECTOR THAT MEETS RAST 2.5 STANDARD

	Series	RAST 2.5 Tab Header							
	Sub-type	Standard Version, External Lock				Standard Version, Internal Lock		Potted Version, External Lock	
	Base No	1971817 / 1971818	1971837 / 1971838	1971921 / 1971922	1971923 / 1971924	1971819 / 1971820	1971839 / 1971840	2232960	2232962
Drawing No	CD	1971817		1971921		1971819		2232960	
	PD	1971817		1971921		1971819		2232960	
Counterparts	Mating Part	"AMP DUOPLUG 2.5 Mark II Connector Monoplug 2.5 Connector AMP DUOPLUG Power Connector RAST 2.5 Standard Timer Connector"							
Housing	Material Type	PA GF							
	UL-V0	X							
	UL-V2	-							
	GWEPT 750°C	750							
Contact	Bulk Material	CuZn							
	Plating	Tin	Ag	Tin	Ag	Tin	Ag	Tin	
Application	Qty of Pole	3-15		3-15		3-15		3-9	3-17
	Wire Range	NA							
	Current rating (A)	2A		6A		2A		2A	6A
	Voltage Rating (V)	50V		250V		50V		50V	250V
Document	Product Spec	108-106079							
	Application spec	-							
Certification	VDE	40045860							
	UL	E28476_20121227							

te.com

TE Connectivity, TE connectivity (logo) and TE are trademarks owned or licensed by the TE Connectivity plc family of companies. 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 brochure, 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 adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Consult TE for the latest dimensions and design specifications.

© 2025 TE Connectivity. All Rights Reserved.

01/25