



# Introducing 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.

## 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°C w/o flame

## APPLICATIONS

- Front-loading washing machine
- Dishwasher
- Microwave oven
- Refrigerator

## ELECTRICAL

- Rated Current: 2A for Tin plated version; 6A for silver plated version
- Rated Voltage: 50V for fully loaded version; 250V for selectively loaded version
- Insulation Resistance: 5000M  $\Omega$
- Dielectric Strength: 1500V/m

## MATERIALS

- Housing: Meets Thermoplastic UL 94 V0 and IEC 60335-1
- Contact: Copper Alloy, Tin or Silver plating over Nickel

## STANDARDS AND SPECIFICATIONS

- According to RAST 2.5 Specification
- Product Specification: 108-106079

**SAMPLES NOW AVAILABLE**

[te.com/products/RAST25t](http://te.com/products/RAST25t)



## 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 |       |       |       |             |       |       |       |       |       |

## 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 |       |       |       |       |       |       |       |       |             |       |       |       |       |       |

| 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 |       |       |       |       |       |       |       |       |             |       |       |       |       |       |

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. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

[te.com/products/RAST25t](http://te.com/products/RAST25t)
