



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

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