

**SERIES:** TB009-508 | **DESCRIPTION:** TERMINAL BLOCK**FEATURES**

- 2~24 poles
- horizontal with board
- interlocking (side)
- 5.08 mm pitch
- UL and CE safety approvals

**SPECIFICATIONS**

| parameter                   | conditions/description                      | min | typ  | max  | units |
|-----------------------------|---------------------------------------------|-----|------|------|-------|
| rated voltage (per contact) | UL                                          |     |      | 300  | V     |
|                             | IEC                                         |     |      | 250  | V     |
| rated current (per contact) | UL                                          |     |      | 20   | A     |
|                             | IEC                                         |     |      | 20   | A     |
| withstanding voltage        |                                             |     | 2500 |      | Vac   |
| surge voltage               |                                             |     |      | 4000 | V     |
| contact resistance          |                                             |     |      | 20   | mΩ    |
| insulation resistance       | at 500 Vdc                                  | 500 |      |      | MΩ    |
| operating temperature       |                                             | -40 |      | 105  | °C    |
| safety approvals            | UL 1059, EN 60998-1:2004, EN 60998-2-1:2004 |     |      |      |       |
| flammability rating         | UL94V-0                                     |     |      |      |       |
| RoHS                        | yes                                         |     |      |      |       |

**SOLDERABILITY**

| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for maximum 10 seconds | 345 | 350 | 355 | °C    |
| wave soldering | for maximum 5 seconds  | 255 | 260 | 265 | °C    |

**PART NUMBER KEY**

| TB009-508 - X XX XX |                                               |               |             |  |  |
|---------------------|-----------------------------------------------|---------------|-------------|--|--|
| Base Number         | Screw Type:<br>"blank" = Slot<br>P = Phillips | No. of Poles: | Color:      |  |  |
|                     |                                               | 02 10 18      | *BE = blue  |  |  |
|                     |                                               | 03 11 19      | GR = green  |  |  |
|                     |                                               | 04 12 20      | OR = orange |  |  |
|                     |                                               | 05 13 21      | YL = yellow |  |  |
|                     |                                               | 06 14 22      | GY = gray   |  |  |
|                     |                                               | 07 15 23      | BK = black  |  |  |
|                     |                                               | 08 16 24      |             |  |  |
|                     |                                               | 09 17         |             |  |  |

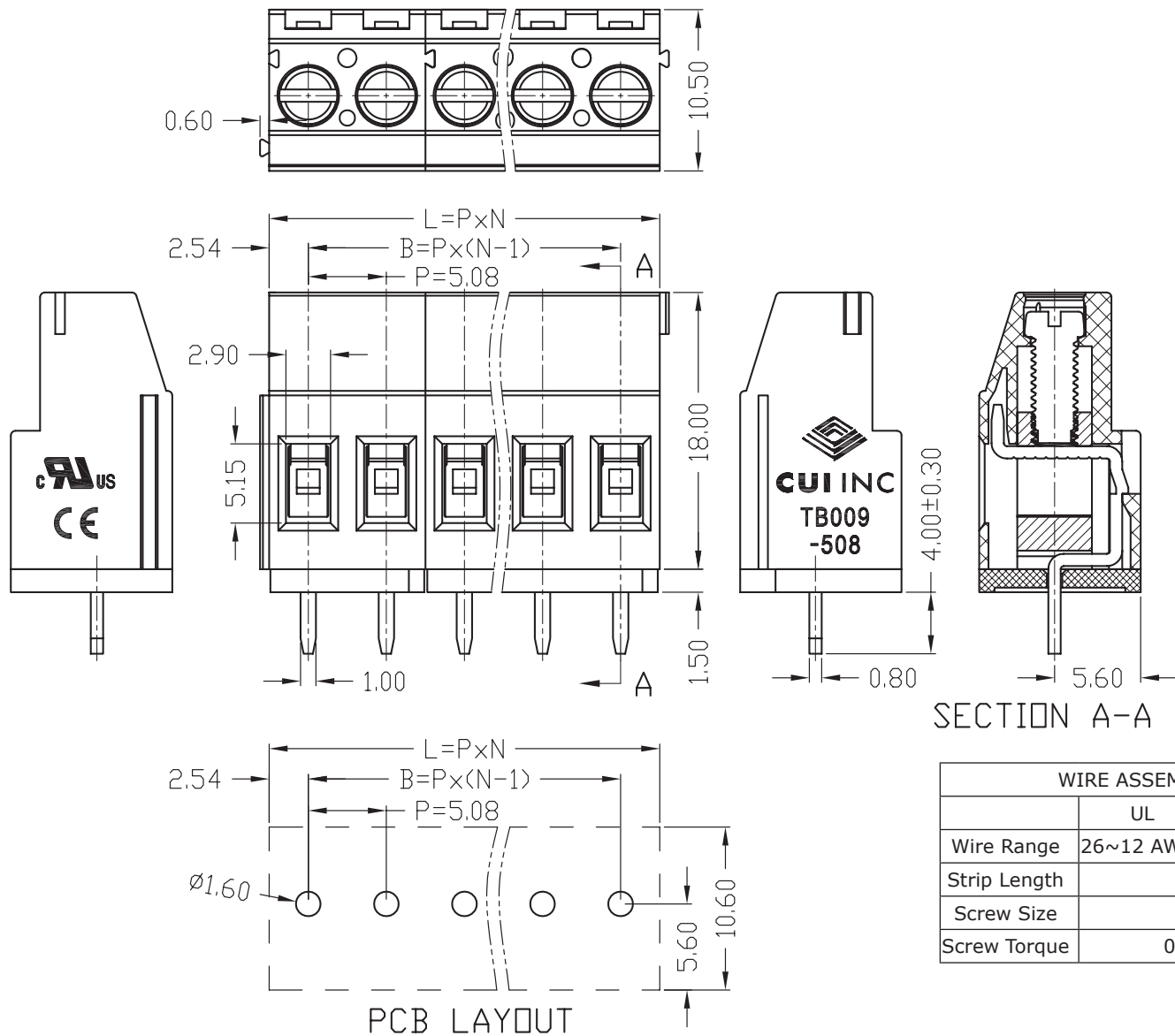


\*Standard housing color is blue. All other colors are subject to higher MOQ. Please inquire with CUI Devices sales for details.

## MECHANICAL DRAWING

units: mm  
 tolerance (per module):  
 $X \leq 6.00$ :  $\pm 0.25$  mm  
 $6.00 < X \leq 30.00$ :  $\pm 0.40$  mm  
 unless otherwise noted

| DESCRIPTION | MATERIAL       | PLATING/COLOR |
|-------------|----------------|---------------|
| housing     | PA66 (UL94V-0) |               |
| contacts    | copper alloy   | tin           |
| screws      | steel          | zinc          |
| block       | copper alloy   | nickel        |



SECTION A-A

| WIRE ASSEMBLY |           |                     |
|---------------|-----------|---------------------|
|               | UL        | IEC                 |
| Wire Range    | 26~12 AWG | 2.5 mm <sup>2</sup> |
| Strip Length  | 7 mm      |                     |
| Screw Size    | M3        |                     |
| Screw Torque  | 0.5 N·m   |                     |

This series can be constructed of 2 and 3 pole modules where L is the total length, P is the pitch, and N is the number of poles.

| N | 02    | 03    | 04    | 05    | 06    | 07    | 08     | 09     | 10     | 11     | 12     | 13    |
|---|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|
| L | 10.16 | 15.24 | 20.32 | 25.40 | 30.48 | 35.56 | 40.64  | 45.72  | 50.80  | 55.88  | 60.96  | 66.04 |
| B | 5.08  | 10.16 | 15.24 | 20.32 | 25.40 | 30.48 | 35.56  | 40.64  | 45.72  | 50.80  | 55.88  | 60.96 |
| N | 14    | 15    | 16    | 17    | 18    | 19    | 20     | 21     | 22     | 23     | 24     | --    |
| L | 71.12 | 76.20 | 81.28 | 86.36 | 91.44 | 96.52 | 101.60 | 106.68 | 111.76 | 116.84 | 121.92 | --    |
| B | 66.04 | 71.12 | 76.20 | 81.28 | 86.36 | 91.44 | 96.52  | 101.60 | 106.68 | 111.76 | 116.84 | --    |

## REVISION HISTORY

| rev. | description          | date       |
|------|----------------------|------------|
| 1.0  | initial release      | 03/19/2019 |
| 1.01 | brand update         | 02/06/2020 |
| 1.02 | updated datasheet    | 04/20/2020 |
| 1.03 | updated housing mold | 08/31/2020 |

The revision history provided is for informational purposes only and is believed to be accurate.

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