

**SERIES:** TBL009V-254 | **DESCRIPTION:** TERMINAL BLOCK**FEATURES**

- 2~24 poles
- vertical with board
- interlocking (side)
- push button clamp
- 2.54 mm pitch
- UL safety approval
- IEC 60947-7-4 compliant

**SPECIFICATIONS**

| parameter                   | conditions/description                     | min | typ  | max  | units |
|-----------------------------|--------------------------------------------|-----|------|------|-------|
| rated voltage (per contact) | UL                                         |     |      | 150  | V     |
|                             | IEC                                        |     |      | 160  | V     |
| rated current (per contact) | UL                                         |     |      | 5    | A     |
|                             | IEC                                        |     |      | 6    | A     |
| withstanding voltage        | for 1 minute                               |     | 1300 |      | Vac   |
| surge voltage               |                                            |     |      | 2500 | V     |
| contact resistance          |                                            |     |      | 20   | mΩ    |
| insulation resistance       | at 500 Vdc                                 | 500 |      |      | MΩ    |
| operating temperature       |                                            | -40 |      | 105  | °C    |
| safety approvals            | UL 1059 certified, IEC 60947-7-4 compliant |     |      |      |       |
| flammability rating         | UL94V-0                                    |     |      |      |       |
| RoHS                        | yes                                        |     |      |      |       |

**SOLDERABILITY**

| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| wave soldering | for maximum 5 seconds  |     | 250 |     | °C    |

**PART NUMBER KEY**

| TBL009V-254 - XX XX - 2XX |               |             |                    |
|---------------------------|---------------|-------------|--------------------|
| Base Number               | No. of Poles: | Body Color: | Push Button Color: |
|                           | 02 10 18      | BE = blue   | BE = blue          |
|                           | 03 11 19      | GR = green  | GR = green         |
|                           | 04 12 20      | OR = orange | OR = orange        |
|                           | 05 13 21      | YL = yellow | YL = yellow        |
|                           | 06 14 22      | *GY = gray  | *GY = gray         |
|                           | 07 15 23      | BK = black  | BK = black         |
|                           | 08 16 24      |             | WT = white         |
|                           | 09 17         |             |                    |

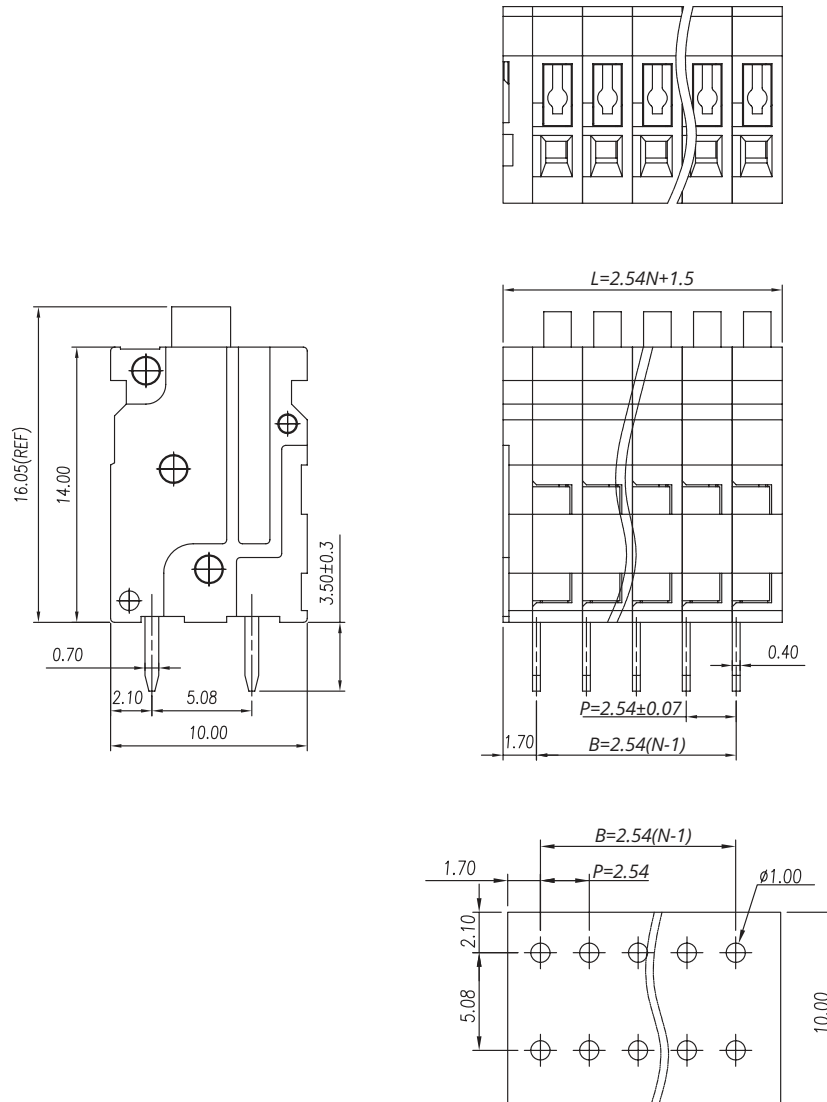
\*Standard housing color is gray with gray push button. All other colors are subject to higher MOQ. Please inquire with CUI Devices sales for details.



## MECHANICAL DRAWING

units: mm  
 tolerance:  
 $X \leq 6.00$ :  $\pm 0.20$  mm  
 $6.00 < X \leq 10.00$ :  $\pm 0.30$  mm  
 $10.00 < X \leq 30.00$ :  $\pm 0.50$  mm  
 $30.00 < X \leq 60.00$ :  $\pm 0.70$  mm  
 $60.00 < X \leq 100.00$ :  $\pm 1.00$  mm  
 $100.00 < X \leq 160.00$ :  $\pm 1.30$  mm  
 $X > 160.00$ :  $\pm 1.60$  mm  
 unless otherwise noted

| DESCRIPTION | MATERIAL       | PLATING/COLOR |
|-------------|----------------|---------------|
| housing     | PA66 [UL94V-0] |               |
| contacts    | copper alloy   | tin           |



| WIRE ASSEMBLY |           |                         |
|---------------|-----------|-------------------------|
|               | UL        | IEC                     |
| Wire Range    | 26~18 AWG | 0.5~1.0 mm <sup>2</sup> |
| Strip Length  | 11 mm     |                         |

P.C.B. LAYOUT

| This series is constructed of 1 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                                                                                                                       | 6.58  | 9.12  | 11.66 | 14.20 | 16.74 | 19.28 | 21.82 | 24.36 | 26.90 | 29.44 | 31.98 | 34.52 |
| B                                                                                                                       | 2.54  | 5.08  | 7.62  | 10.16 | 12.70 | 15.24 | 17.78 | 20.32 | 22.86 | 25.40 | 27.94 | 30.48 |
| N                                                                                                                       | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | --    |
| L                                                                                                                       | 37.06 | 39.60 | 42.14 | 44.68 | 47.22 | 49.76 | 52.30 | 54.84 | 57.38 | 59.92 | 62.46 | --    |
| B                                                                                                                       | 33.02 | 35.56 | 38.10 | 40.64 | 43.18 | 45.72 | 48.26 | 50.80 | 53.34 | 55.88 | 58.42 | --    |

## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 08/13/2019 |
| 1.01 | brand update                 | 02/06/2020 |
| 1.02 | updated datasheet            | 04/21/2020 |
| 1.03 | logo, datasheet style update | 08/12/2022 |

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



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