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## Engineering Notes

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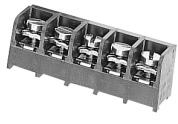
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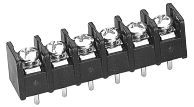
## Barrier Strip Selector Chart

### Tri-Barrier

Tri-Barrier

|                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                |                  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------|------------------|
|  |  |  |  |  |  |  |                                |                  |
| 0.250"                                                                            | 0.325"                                                                            | 0.325"                                                                            | 0.375"                                                                              | 0.375"                                                                              | 0.375"                                                                              | 0.375"                                                                              | 0.4375"                        |                  |
| Series                                                                            | #3                                                                                | #4                                                                                | 1546927                                                                             | #6                                                                                  | 1546833                                                                             | BC6                                                                                 | MB6                            | #8               |
| Pitch (in)                                                                        | 0.250"                                                                            | 0.325"                                                                            | 0.325"                                                                              | 0.375"                                                                              | 0.375"                                                                              | 0.375"                                                                              | 0.375"                         | 0.4375"          |
| Circuits                                                                          | 2-32                                                                              | 2-30                                                                              | 2-8                                                                                 | 2-30                                                                                | 2-8                                                                                 | 2-16                                                                                | 4-40                           | 2-26             |
| Max Current                                                                       | 10A                                                                               | 25A                                                                               | 15A                                                                                 | 25A                                                                                 | 15A                                                                                 | 20A                                                                                 | 25A                            | 30A              |
| Max Voltage                                                                       | 300V                                                                              | 300V                                                                              | 300V                                                                                | 600V                                                                                | 300V                                                                                | 300V                                                                                | 300V                           | 600V             |
| Wire Range (AWG)                                                                  | 18-22                                                                             | 12-22                                                                             | 14-22                                                                               | 12-22                                                                               | 14-22                                                                               | 12-22                                                                               | 12-22                          | 10-18            |
| Description                                                                       | Molded to length                                                                  | Molded to length                                                                  | Molded to length                                                                    | Molded to length                                                                    | Molded to length, Modular                                                           | Molded to length                                                                    | Double Level snapped to length | Molded to length |
| Page                                                                              | 120-123                                                                           | 124-126                                                                           | 127                                                                                 | 128-131                                                                             | 132                                                                                 | 133-134                                                                             | 135                            | 136-138          |

### Dual-Barrier

|                  |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                  |  |  |  |  |  |  |
|                  | .250"                                                                               | 0.325"                                                                              | 0.325"                                                                               | 0.375"                                                                                | 0.375"                                                                                | 0.4375"                                                                               |
| Series           | 1546657                                                                             | 4DB                                                                                 | 1546734                                                                              | JC6                                                                                   | NC6                                                                                   | SSB7                                                                                  |
| Pitch (in)       | .250"                                                                               | 0.325"                                                                              | 0.325"                                                                               | 0.375"                                                                                | 0.375"                                                                                | 0.4375"                                                                               |
| Circuits         | 2-30                                                                                | 2-30                                                                                | 2-16                                                                                 | 2-16                                                                                  | 2-30                                                                                  | 2-27                                                                                  |
| Max Current      | 10A                                                                                 | 20A                                                                                 | 20A                                                                                  | 20A                                                                                   | 20A                                                                                   | 20A                                                                                   |
| Max Voltage      | 300V                                                                                | 150V/ 300V                                                                          | 300V                                                                                 | 300V                                                                                  | 300V                                                                                  | 600V                                                                                  |
| Wire Range (AWG) | 16-30                                                                               | 14-22                                                                               | 12-22                                                                                | 12-22                                                                                 | 12-22                                                                                 | 12-26                                                                                 |
| Description      | Molded to length                                                                    | Molded to length                                                                    | High Rise, Molded to length                                                          | Molded to length                                                                      | Low Profile version, Molded to length                                                 | Cut to length                                                                         |
| Page             | 141-142                                                                             | 143-144                                                                             | 145-146                                                                              | 147-148                                                                               | 149-150                                                                               | 151-154                                                                               |

## Barrier Strip Selector Chart (Continued)

### Double Row

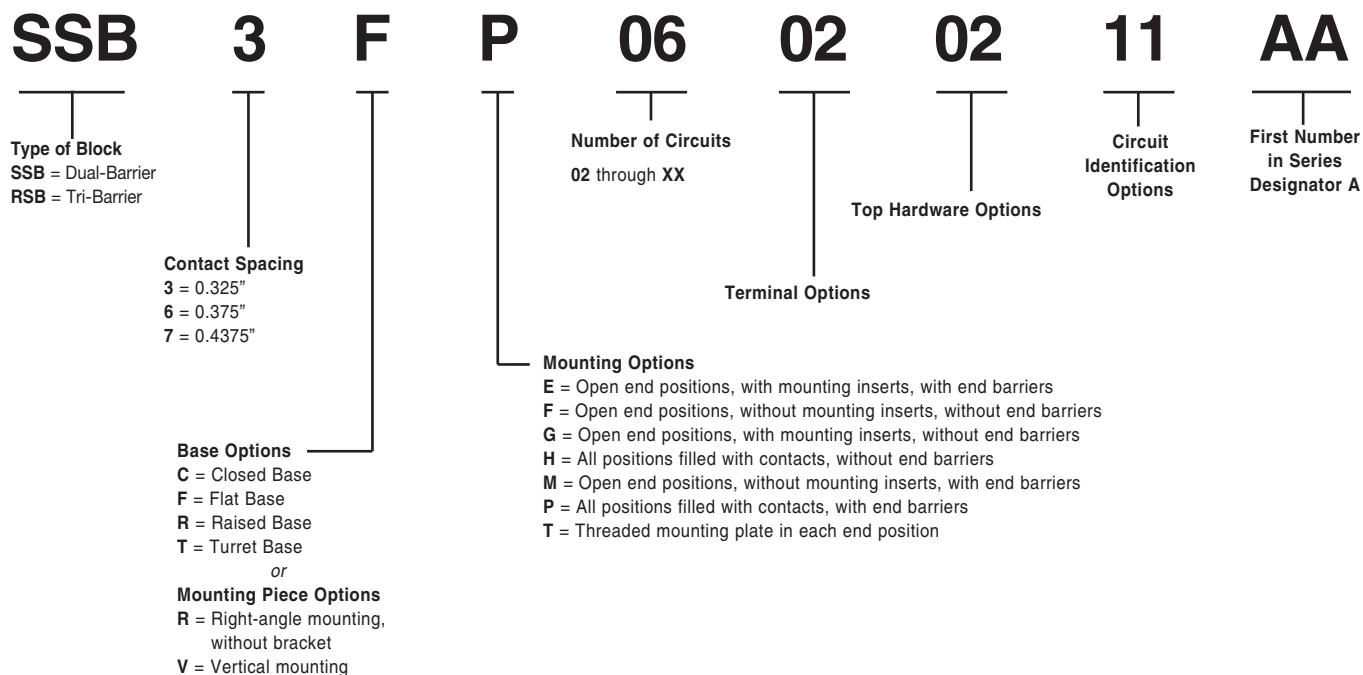
|                  | 0.374"                              | 0.433"                              | 0.437"                              | 0.563"                              |                                     |
|------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Series           | 1546306<br>1546307                  | 1546481<br>1546477                  | 1546670<br>1546671                  | 1546310<br>1546311                  | 1776544<br>1986158                  |
| Pitch (in)       | 0.374"                              | 0.433"                              | 0.437"                              | 0.563"                              | 0.563"                              |
| Circuits         | 2-30                                | 2-26                                | 2-26                                | 2-18                                | 2-18                                |
| Max Current      | 20A                                 | 25A                                 | 25A                                 | 30A                                 | 30A                                 |
| Max Voltage      | 300V                                | 300V                                | 300V                                | 300V                                | 600V                                |
| Wire Range (AWG) | 12-22                               | 14-22                               | 14-22                               | 10-22                               | 10-22                               |
| Description      | Panel Mount,<br>molded to<br>length | Panel Mount,<br>molded to<br>length | Panel Mount,<br>molded to<br>length | Panel Mount,<br>molded to<br>length | Panel Mount,<br>molded to<br>length |
| Page             | 156                                 | 157                                 | 158                                 | 159                                 | 160                                 |

### Sockets and Barrier Strips



|                  | 0.325"                       | 0.325"           | 0.325"           | 0.375"             | 0.375"           |
|------------------|------------------------------|------------------|------------------|--------------------|------------------|
| Series           | USB                          | RSB3             | SSB3             | RSB6B              | RSB6             |
| Pitch (in)       | 0.325"                       | 0.325"           | 0.325"           | 0.375"             | 0.375"           |
| Circuits         | 2-12                         | 2-36             | 2-36             | 2-10               | 2-36             |
| Max Current      | 10A                          | 15A              | 15A              | 10A                | 20A              |
| Max Voltage      | 300V                         | 300V             | 300V             | 300V               | 300V             |
| Wire Range (AWG) | n/a                          | 14-26            | 14-26            | n/a                | 12-26            |
| Description      | For Series<br>RSB3<br>& SSB3 | Cut<br>to length | Cut<br>to length | For Series<br>RSB6 | Cut<br>to length |
| Page             | 162                          | 164-166          | 168-170          | 163                | 171-173          |

## Catalog Number Code



### OPTIONAL TERMINAL IDENTIFICATION

Select the desired version from the list below and add the CODE NUMBER (11, 12, 15 or 16) to the end of the catalog number of the connector or header.

#### CODE

11 = 1 2 3 4 . . .

12 = . . . 4 3 2 1

15 = . . . 4 3 5 1

16 = 1 5 3 4 . . .

#### "First Number In Series" Designator\*

|       |       |
|-------|-------|
| A = 1 | F = 6 |
| B = 2 | G = 7 |
| C = 3 | H = 8 |
| D = 4 | J = 9 |
| E = 5 | K = 0 |

\* Letters in this position designate the first number to be used in the consecutive sequence. Ex.: "A" would start the sequence with the number 1. "EK" would start the sequence with the number 50. "BKK" would start the series with 200. For non-sequential numbering and special characters, consult Technical Support.

**Note:** Some catalog number combinations are not valid. Check appropriate catalog pages before ordering. Catalog numbering code applies only to the catalog numbers on pages 125, 148-151, 164-169.

## Catalog Number Code (Continued)

# 6 PCV-04-XXX

### Contact Spacing

3 = 0.250"  
4 = 0.325"  
6 = 0.375"  
8 = 0.4375"

Suffix (if applicable)

Number of Circuits  
02 through XX

### Terminal Style

**DBL** = Double Printed Circuit Pin  
**PCR** = Printed Circuit, Right Angle  
**PCV** = Printed Circuit Pin, Vertical  
**QCR** = Quick Connect Tab, Right Angle  
**QCV** = Quick Connect Tab, Vertical  
**STR** = Solder Turret, Right Angle  
**STV** = Solder Turret, Vertical  
**TBV** = Non Feed Thru  
**WWR** = Solderless Wire Wrap, Right Angle  
**WWV** = Solderless Wire Wrap, Vertical

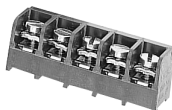
**Note:** Some catalog number combinations are not valid. Check appropriate catalog pages before ordering. Catalog numbering code applies only to the catalog numbers on pages 119-124, 127-129, 134-136.

## Barrier Strips – Overview

### Two Types of Barrier Strips and a Line of Sockets:

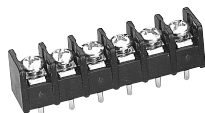
#### Tri-Barrier

Three walls or barriers surround each terminal screw. The back wall safeguards field wiring.



#### Dual-Barrier

Two walls or barriers are molded on each side of the terminal screw.



#### Sockets

Mounted directly to the PC board, the Barrier Strip is plugged into the socket. The socket expedites field maintenance. (Below, a tri-barrier is about to be mounted in a socket.)



#### Wire Clamp Screws

The lower surface and edges of the clamping-plates are carefully designed to securely clamp the wire—even combinations of different wire sizes—without severing stranded wire. Extra care has been taken to produce these components without burrs on any critical clamping surface or edges.

#### Resilient Plastic Barriers

Flexible thermoplastic material for terminal blocks was an especially important feature at the time of its introduction, since many earlier blocks were molded of more rigid, brittle thermosetting plastic compounds.

#### Wire-Ready Raised Screws

Wire-ready raised screws are standard on BUCHANAN terminal blocks. No need to back off the screw first. Just insert the wire and drive down the screw. Wire installation time and effort are virtually cut in half.

#### Integral Standoffs

Standoffs help rid your PCB of any remaining corrosive agents during rinsing operations. Helps prevent trapped solutions in the immediate PC pin area. Significantly reduces the risk of postwave corrosion problems.

#### Gas-Tight Connections

The acid-tin plating on our terminals means more than just improved shelf-life and superior solderability. It is to provide the very basis for the heart of your wire connections.

#### Quality Plating

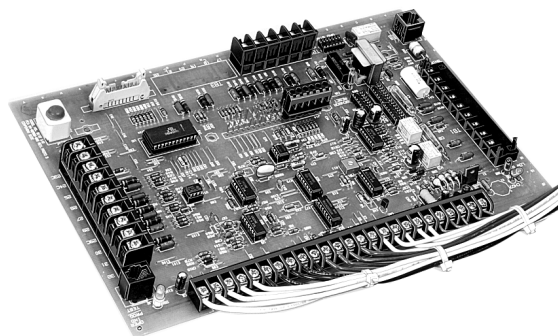
Tyco Electronics Corporation has been known for its plating, especially on the tin-plated components, and has maintained stringent plating specifications to provide a better performing, more reliable product. (Terminals meet or exceed Tyco Electronics Specification 109-11-1.)

#### UL Recognition and CSA Certification

Terminal blocks and interconnect components are Recognized under the Component Recognition Program of Underwriters Laboratories Inc. and Certified by Canadian Standards Association. (Consult individual sections of this catalog for status of a specific series.)

#### Typical Application

Pictured below is a PC board with barrier strips and sockets wave soldered to it.



## Tri-Barrier Strips

### Product Facts

- Industrial controls and automation
- Machine tools
- HVAC/R
- Power supplies
- Security/Irrigation
- Transformers

### Design Advantages

- Back barriers to safeguard field wiring
- Fast wiring – backed-out wire-ready screws
- Interrupted thread designed to prevent screws from falling out
- Standoffs allow flux and solvents to drain during cleaning
- Molded-to-length or cut-to-length versions available
- Phil-slot screws are standard
- RoHS compatible



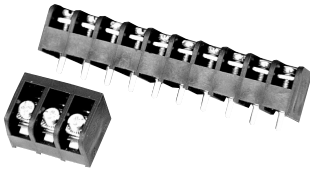
Tri-Barrier blocks help contain stray or frayed wire ends. This helps prevent electrical shorts — not only between positions on the same block, but also between other components immediately adjacent to the block. With today's high-density PCB designs, this has become an increasingly important feature.

### Connector Index

|         |                                   |       |          |
|---------|-----------------------------------|-------|----------|
| 0.250"  | Pitch, Series #3                  | ..... | 120-123  |
| 0.325"  | Pitch, Series #4                  | ..... | 124-126  |
| 0.325"  | Pitch, with Attached Safety Cover | ..... | 127      |
| 0.375"  | Pitch, Series #6                  | ..... | 128-135  |
| 0.375"  | Pitch, Modular with Cover         | ..... | 132      |
| 0.375"  | Pitch, Series BC6, Panel Mount    | ..... | 133, 134 |
| 0.375"  | Pitch, Series MB6, Double Level   | ..... | 135      |
| 0.4375" | Pitch, Series #8                  | ..... | 136-138  |

## .250" [6.35] Pitch, Series #3

### 3PCV-03-006 & 3PCV-10-006



#### Material & Finish

**Housing Material**—Polypropylene

**Flammability**—UL94V-0

**Color**—Black

**Terminals**—Bright acid tin over copper alloy

**Screws**—Steel, zinc plating with clear chromate coating. Wire clamping screws standard.

#### Mechanical Properties

**Pitch (Terminal Spacing)**—  
0.250" [6.35]

**Recommended PCB Hole Dia.**—  
1.8mm [.073"] Recommended  
Tightening Torque: 5.5 in.-lbs.

#### Electrical Properties

**Ratings**—UL Class C 10 Amps, 150V  
UL Class D 10 Amps, 300V  
CSA Type C 10 Amps, 150V  
CSA Type D 10 Amps, 300V

**Wire Range**—18-22 AWG

#### Environmental Properties

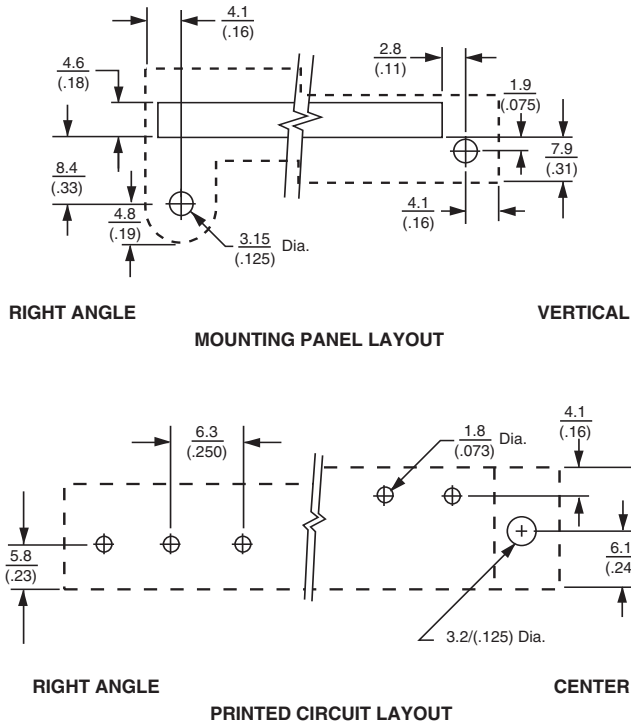
**Operating Temperature Range**—  
105°C [221°F] max.

**Circuit Identification**—See page 179

#### Hardware Options

**TC3**—Safety cover, see page 174

**J3**—Jumper, see page 177



## **.250" [6.35] Pitch, Series #3 (Continued)**

### Ordering Information

# 3 PCV - 04 - 006

**A**
**B**
**C**
**D**
**A Thread Size Spacing**

3 = #m3 on .250" Centers

**C No. of Circuits (Not Positions)**

02 through 32

**B Terminal Style**
**PCV** = Printed Circuit Pin, Vertical

**PCR** = Printed Circuit, Right Angle

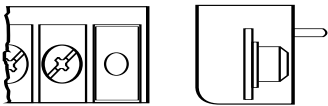
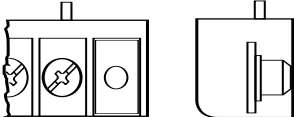
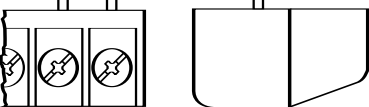
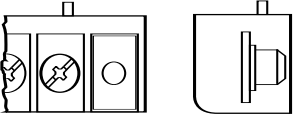
**STV** = Solder Turret, Vertical

**STR** = Solder Turret, Right Angle

**WWV** = Solderless Wire Wrap, Vertical

**D Modifier**

Use table below.

| Terminal Style | Modifier Phil-slot Head | Screw Style | Mounting Construction                                                                 |
|----------------|-------------------------|-------------|---------------------------------------------------------------------------------------|
| PCV            | 006                     | Wire Clamp  | No Mounting                                                                           |
|                | 008                     | Wire Clamp  |   |
| PCR            | 006                     | Wire Clamp  | No Mounting                                                                           |
|                | 008                     | Wire Clamp  |  |
| STV<br>WWV     | 006                     | Wire Clamp  |  |
|                | 008                     | Wire Clamp  | No Mounting                                                                           |
| STR            | 006                     | Wire Clamp  |  |
|                | 008                     | Wire Clamp  |  |



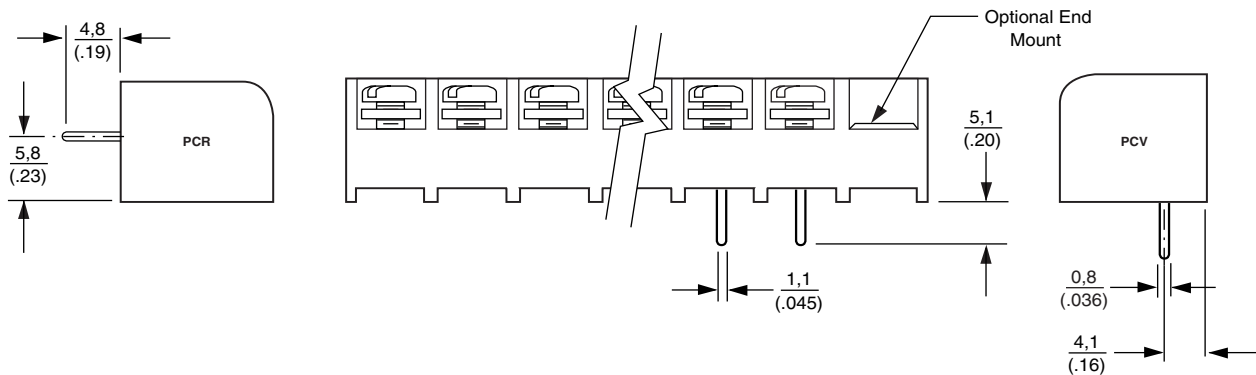
LR30811



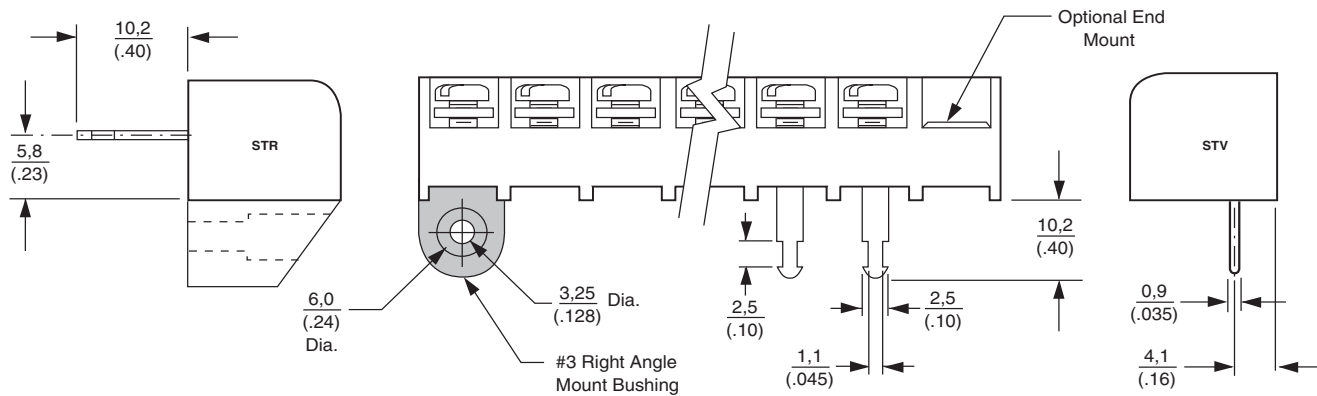
E54800

**.250" [6.35] Pitch, Series #3 (Continued)**

**Printed Circuit Pin**

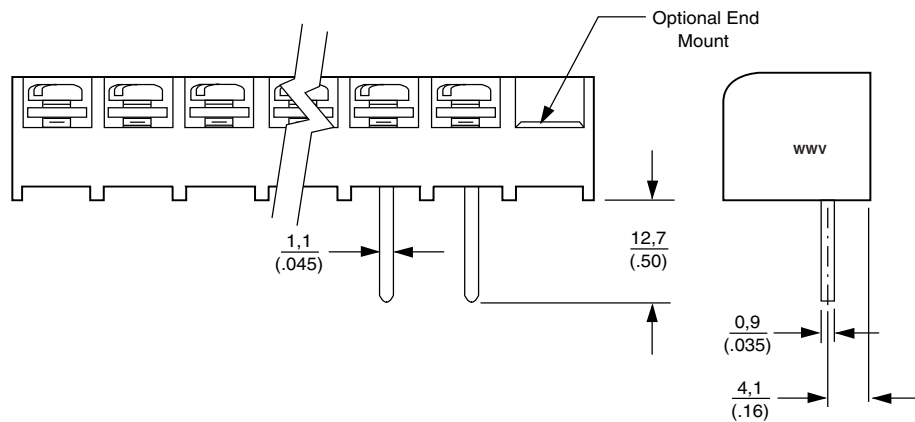


**Solder Turret**

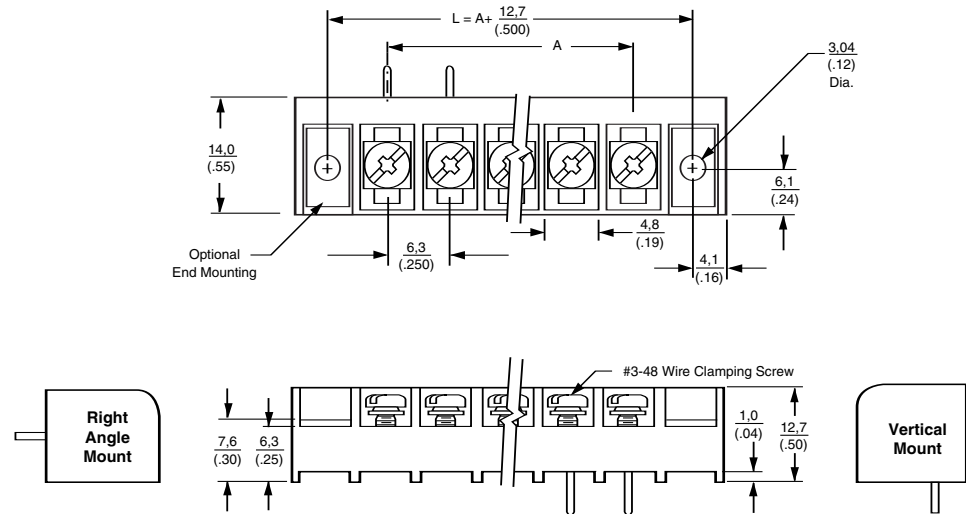


**Wire Wrap**

#3WWR not available



**.250" [6.35] Pitch, Series #3 (Continued)**



| No. of Positions | Dim. A       |
|------------------|--------------|
| 2                | 0.25 [6.3]   |
| 3                | 0.50 [12.7]  |
| 4                | 0.75 [19.0]  |
| 5                | 1.00 [25.4]  |
| 6                | 1.25 [31.7]  |
| 7                | 1.50 [38.1]  |
| 8                | 1.75 [44.4]  |
| 9                | 2.00 [50.8]  |
| 10               | 2.25 [57.1]  |
| 11               | 2.50 [63.5]  |
| 12               | 2.75 [69.8]  |
| 13               | 3.00 [76.2]  |
| 14               | 3.25 [82.5]  |
| 15               | 3.50 [88.9]  |
| 16               | 3.75 [95.2]  |
| 17               | 4.00 [101.6] |

| No. of Positions | Dim. A       |
|------------------|--------------|
| 18               | 4.25 [107.9] |
| 19               | 4.50 [114.3] |
| 20               | 4.75 [120.6] |
| 21               | 5.00 [127.0] |
| 22               | 5.25 [133.3] |
| 23               | 5.50 [139.7] |
| 24               | 5.75 [146.0] |
| 25               | 6.00 [152.4] |
| 26               | 6.25 [158.8] |
| 27               | 6.50 [165.1] |
| 28               | 6.75 [171.5] |
| 29               | 7.00 [177.8] |
| 30               | 7.25 [184.2] |
| 31               | 7.50 [190.5] |
| 32               | 7.75 [196.9] |

## 0.325" [8.26] Pitch, Series #4, Tri-Barrier

### 4PCV-06-006



#### Material & Finish

**Housing Material**—Polyamide

**Flammability**—UL94V-0

**Color**—Black

**Terminals**—Bright acid tin over copper alloy

**Screws**—#4-40 steel, zinc plating with clear chromate coating. Wire clamping screw and binding head screw available.

#### Mechanical Properties

**Pitch (Terminal Spacing)**—  
0.325" [8.255]

**Recommended PCB Hole Dia.**—  
1.8mm [.073"]

**Recommended Tightening  
Torque**—7 in.-lbs. max.

#### Electrical Properties

**Ratings**—UL Class C 20 Amps, 150V  
UL Class D 10 Amps, 300V  
CSA Type C 20 Amps, 150V  
CSA Type D 10 Amps, 300V

**Wire Range**—12-22 AWG

#### Environmental Properties

**Operating Temperature Range**—  
105°C [221°F] max.

**Circuit Identification**—See page 179

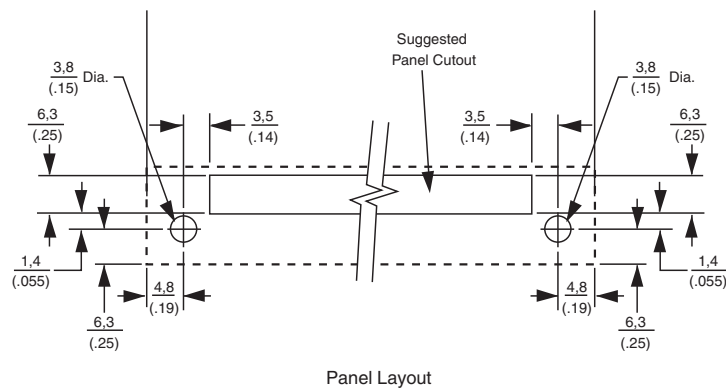
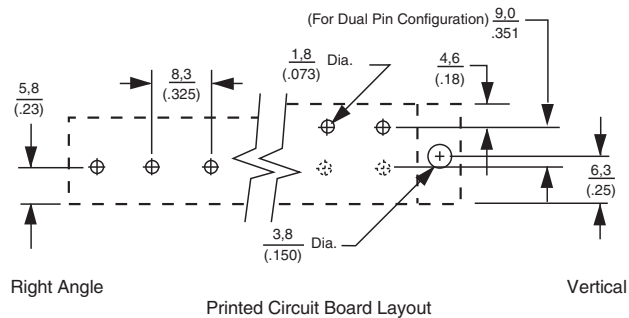
#### Hardware Options

**TC4**—Safety cover, see page 174

**8-1437649-0**—Wire clamp screw, see page 178

**8-1437649-0**—Binding head screw, see page 178

**J4**—Jumper, see page 177



## 0.325" [8.26] Pitch, Series #4, Tri-Barrier (Continued)

### Ordering Information

# 4 PCV-04-006

A
B
C
D

**A Screw Size Spacing**

4 = #4-40 on .325" Centers

**C No. of Circuits (Not Positions)**

02 through 30

**B Terminal Style**

**DBL** = Double Printed Circuit Pin

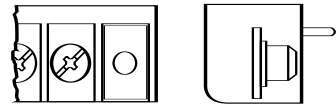
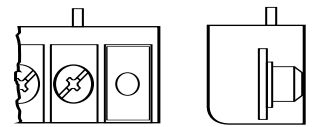
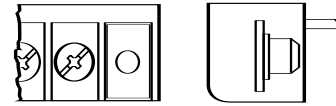
**PCR** = Printed Circuit, Right Angle

**PCV** = Printed Circuit Pin, Vertical

**WWV** = Solderless Wire Wrap, Vertical

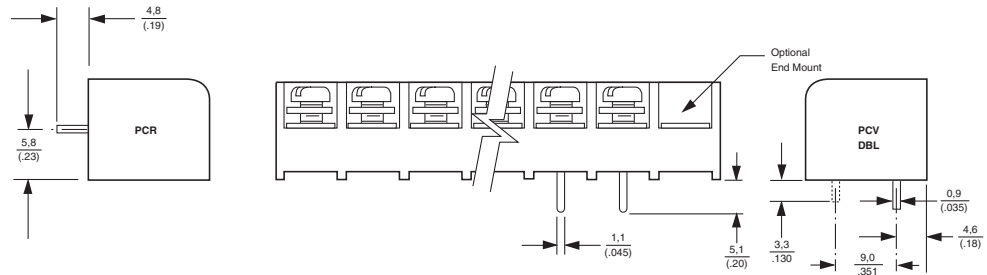
**D Modifiers**

Use table below.

| Terminal Style | Modifier Phil-slot Head | Screw Style | Mounting Construction                                                                 |
|----------------|-------------------------|-------------|---------------------------------------------------------------------------------------|
| DBL            | 006                     | Wire Clamp  | No Mounting                                                                           |
| PCV            | 006                     | Wire Clamp  | No Mounting                                                                           |
|                | 008                     | Wire Clamp  |  |
| PCR            | 006                     | Wire Clamp  | No Mounting                                                                           |
|                | 008                     | Wire Clamp  |  |
| WWV            | 006                     | Wire Clamp  |  |
|                | 008                     | Wire Clamp  | No Mounting                                                                           |

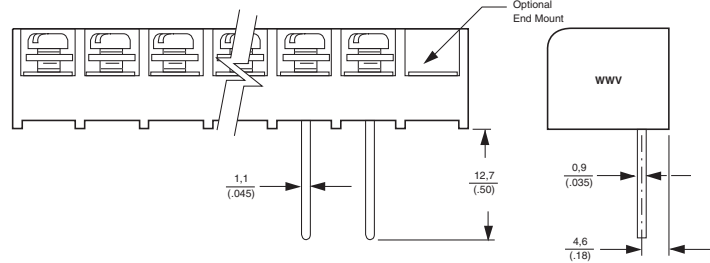
## 0.325" [8.26] Pitch, Series #4, Tri-Barrier (Continued)

### Printed Circuit Pin

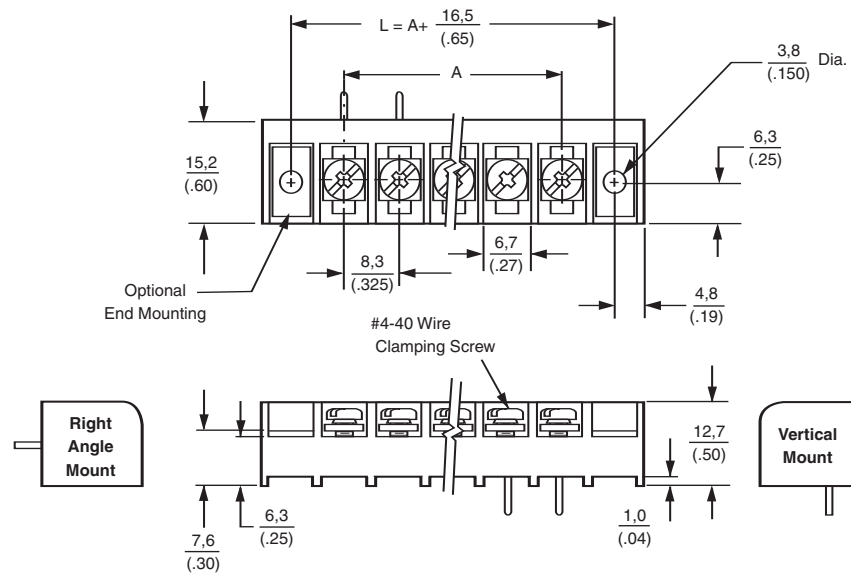


### Wire Wrap

#4 WWR Not available



## 0.325" Pitch, Series #4, Tri-Barrier



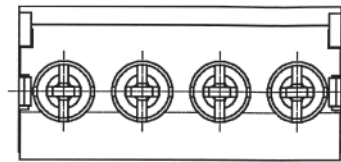
| No. of Positions | Dim. A       |
|------------------|--------------|
| 2                | (0.325) 8,2  |
| 3                | (0.65) 16,5  |
| 4                | (0.97) 24,7  |
| 5                | (1.30) 33,0  |
| 6                | (1.62) 41,3  |
| 7                | (1.95) 49,5  |
| 8                | (2.27) 57,8  |
| 9                | (2.60) 66,0  |
| 10               | (2.92) 74,3  |
| 11               | (3.25) 82,5  |
| 12               | (3.57) 90,8  |
| 13               | (3.90) 99,1  |
| 14               | (4.22) 107,3 |
| 15               | (4.55) 115,6 |
| 16               | (4.87) 123,8 |

| No. of Positions | Dim. A       |
|------------------|--------------|
| 17               | (5.20) 132,1 |
| 18               | (5.52) 140,3 |
| 19               | (5.85) 148,6 |
| 20               | (6.17) 156,8 |
| 21               | (6.50) 165,1 |
| 22               | (6.82) 173,3 |
| 23               | (7.15) 181,6 |
| 24               | (7.47) 189,9 |
| 25               | (7.80) 198,1 |
| 26               | (8.13) 206,4 |
| 27               | (8.45) 214,6 |
| 28               | (8.78) 222,9 |
| 29               | (9.10) 231,1 |
| 30               | (9.43) 239,4 |

## Tri-Barrier Strips with Attached Safety Covers, .325" [8.26] Centerline

### Product Facts

- Screwdriver access holes in cover allow for efficient wiring; cover may remain closed



### Material & Finish

**Insulator Body**—UL 94V-0  
Thermoplastic, black

**Terminal**—Brass, tin-plated

### Mechanical Properties

**Recommended screw tightening torque**—12 in-lbs

Combination drive screws with #2  
Phillips recess and standard slot

### Electrical Properties

**Current Rating**—15 A

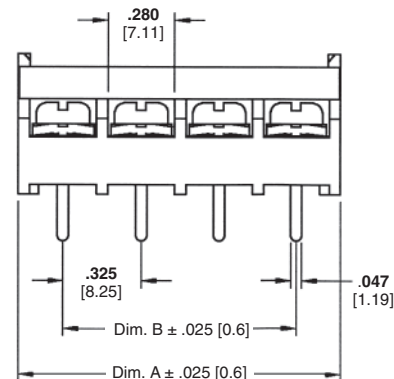
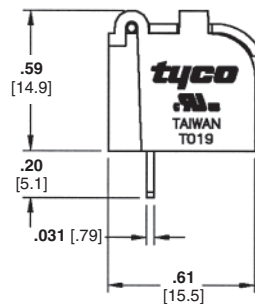
**Voltage Rating**—300 VAC/DC

**Wire Range**—22-14 AWG, Cu, Solid  
or Stranded

### Environmental Properties

**Operating Temperature**—-40°C to  
+120°C [-104°F to +248°F]

**Circuit Identification**—See page 179

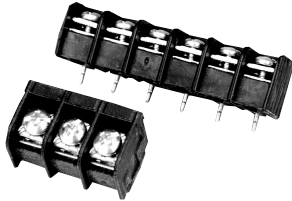


| No. of<br>Position* | Dimensions   |              | Part<br>Numbers |
|---------------------|--------------|--------------|-----------------|
|                     | A            | B            |                 |
| 2                   | 0.697 [17.7] | 0.325 [8.3]  | 1546927-2       |
| 3                   | 1.022 [26.0] | 0.650 [16.5] | 1546927-3       |
| 4                   | 1.347 [34.2] | 0.975 [24.8] | 1546927-4       |
| 5                   | 1.672 [42.5] | 1.300 [33.0] | 1546927-5       |
| 6                   | 1.997 [50.7] | 1.625 [41.3] | 1546927-6       |
| 7                   | 2.322 [59.0] | 1.950 [49.5] | 1546927-7       |
| 8                   | 2.647 [67.2] | 2.275 [57.8] | 1546927-8       |

\*Contact Tyco Electronics for larger position sizes.  
Note: Samples available in Sample Room.

## 0.375" [9.53] Pitch, Series #6, Tri-Barrier

### 6PCV-03-006 & 6PCV-06-006



#### Material & Finish

**Housing Material**—Polyamide

**Flammability**—UL94V-0

**Color**—Black

**Terminals**—Bright acid tin over copper alloy

**Screws**—#6-32 steel, zinc plating with clear chromate coating. Wire clamping screws and binding head screws with undercut available.

#### Mechanical Properties

**Pitch (Terminal Spacing)**—  
0.375" [9.53]

**Recommended PCB Hole Dia.**—  
1.8mm [.073"]

#### Electrical Properties

**Ratings**—UL Class C 25 Amps, 300V  
UL Class D 5 Amps, 600V  
CSA Type C 25 Amps, 300V  
CSA Type D 5 Amps, 600V

**Wire Range**—18-22 AWG

#### Environmental Properties

**Operating Temperature Range**—  
105°C [221°F] max.

**Circuit Identification**—See page 179

#### Hardware Options

**QC6**—Quick connects, see page 176

**ST80**—Single sided solder tabs, see page 176

**J6**—Jumpers, see page 177

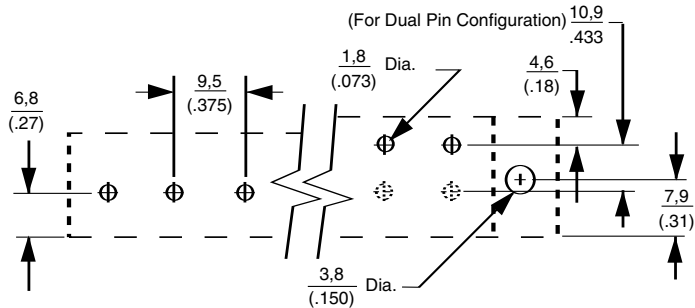
**TC6**—Safety covers, see page 174

**1437651-2**—Wire clamp screw, steel, see page 178

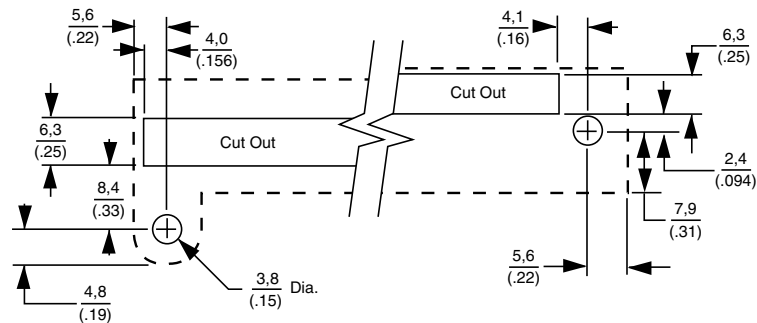
**1437651-5**—Wire clamp screw, brass, see page 178

**1437651-8**—Binding head screw, steel, see page 178

**L03**—Binding head screw, stainless, see page 178



Right Angle  
Printed Circuit Board Layout



Right Angle  
Mounting Panel Layout

## 0.375" [9.53] Pitch, Series #6, Tri-Barrier (Continued)

# 6 PCV-04-006

**A** **B** **C** **D**

**A Screw Size Spacing**

6 = #6-32 on .375" Centers

**C No. of Circuits** (Not positions)

02 through 30

**B Terminal Style**
**DBL** = Double Printed Circuit Pin

**PCR** = Printed Circuit, Right Angle

**PCV** = Printed Circuit Pin, Vertical

**STR** = Solder Turret, Right Angle

**STV** = Solder Turret, Vertical

**TBV** = Non Feed Thru

**WWR** = Solderless Wire Wrap, Right Angle

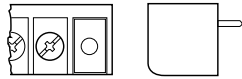
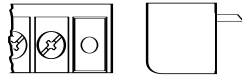
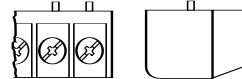
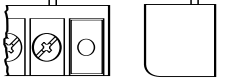
**WWV** = Solderless Wire Wrap, Vertical

**D Modifiers**

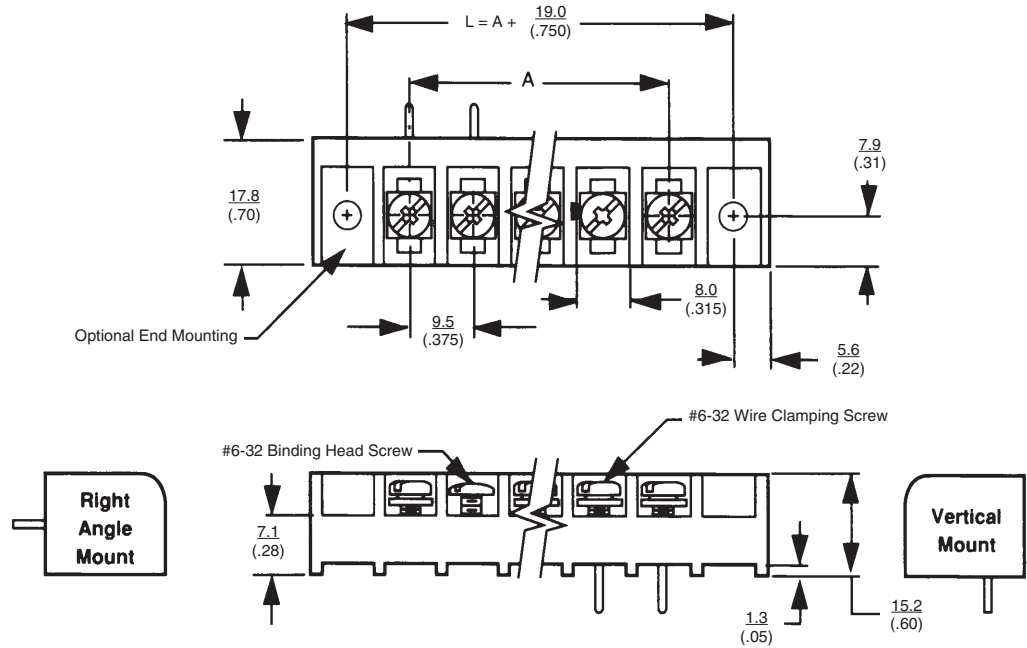
Use table below.

-002=-006 except brass screw

-003=-007 except brass screw

| Terminal Style | Modifier Phil-slot Head | Screw Style  | Mounting Construction                                                                 |
|----------------|-------------------------|--------------|---------------------------------------------------------------------------------------|
| DBL            | 006                     | Wire Clamp   | No Mounting                                                                           |
|                | 007                     | Binding Head |                                                                                       |
| PCV            | 006                     | Wire Clamp   | No Mounting                                                                           |
|                | 007                     | Binding Head |                                                                                       |
|                | 008                     | Wire Clamp   |  |
|                | 009                     | Binding Head |                                                                                       |
| PCR            | 006                     | Wire Clamp   | No Mounting                                                                           |
|                | 007                     | Binding Head |                                                                                       |
|                | 008                     | Wire Clamp   |  |
|                | 009                     | Binding Head |                                                                                       |
| STV<br>WWV     | 006                     | Wire Clamp   |  |
|                | 008                     | Wire Clamp   | No Mounting                                                                           |
| STR<br>WWR     | 006                     | Wire Clamp   |  |
|                | 008                     | Wire Clamp   |  |
| TBV            | 006                     | Wire Clamp   |  |

**0.375" [9.53] Pitch, Series #6, Tri-Barrier (Continued)**

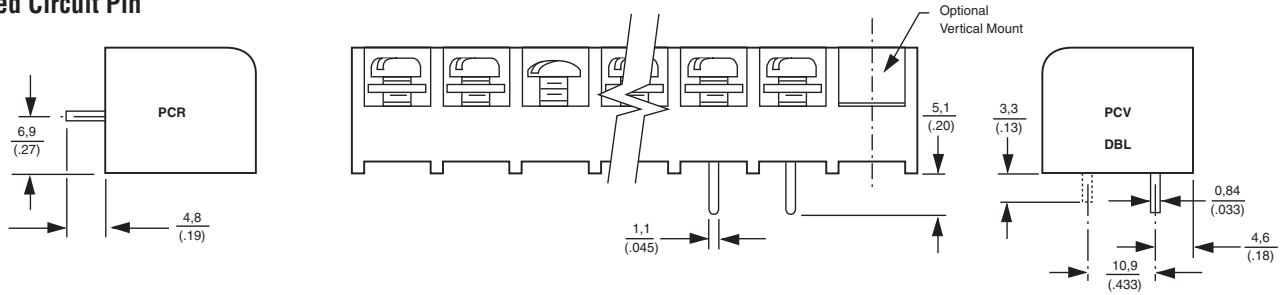


| No. of Positions | Dim. A              |
|------------------|---------------------|
| 2                | <b>0.375</b> [9.5]  |
| 3                | <b>0.75</b> [19.1]  |
| 4                | <b>1.12</b> [28.6]  |
| 5                | <b>1.50</b> [38.1]  |
| 6                | <b>1.87</b> [47.6]  |
| 7                | <b>2.25</b> [57.1]  |
| 8                | <b>2.62</b> [66.7]  |
| 9                | <b>3.00</b> [76.2]  |
| 10               | <b>3.37</b> [85.7]  |
| 11               | <b>3.75</b> [95.2]  |
| 12               | <b>4.12</b> [104.8] |
| 13               | <b>4.50</b> [114.3] |
| 14               | <b>4.87</b> [123.8] |
| 15               | <b>5.25</b> [133.3] |
| 16               | <b>5.62</b> [142.9] |

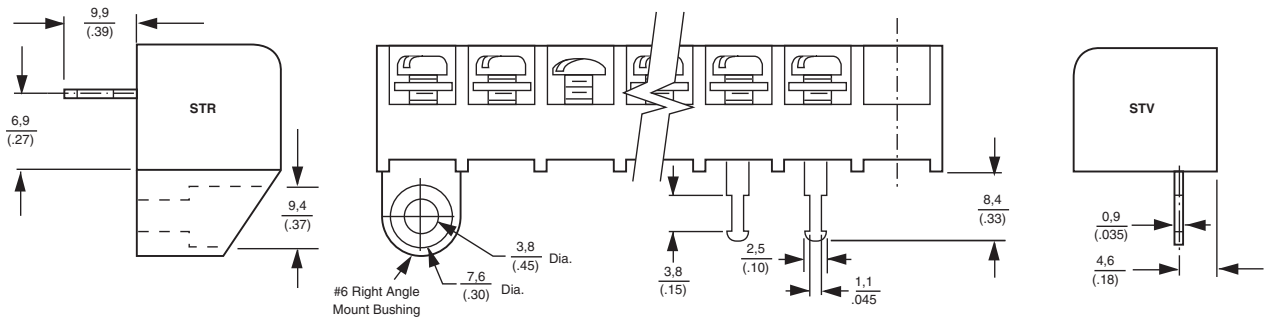
| No. of Positions | Dim. A               |
|------------------|----------------------|
| 17               | <b>6.00</b> [152.4]  |
| 18               | <b>6.37</b> [161.9]  |
| 19               | <b>6.75</b> [171.4]  |
| 20               | <b>7.12</b> [181.9]  |
| 21               | <b>7.50</b> [190.5]  |
| 22               | <b>7.87</b> [200.0]  |
| 23               | <b>8.25</b> [209.5]  |
| 24               | <b>8.62</b> [219.1]  |
| 25               | <b>9.00</b> [228.6]  |
| 26               | <b>9.38</b> [238.1]  |
| 27               | <b>9.75</b> [247.7]  |
| 28               | <b>10.13</b> [257.2] |
| 29               | <b>10.50</b> [266.7] |
| 30               | <b>10.88</b> [276.2] |

**0.375" [9.53] Pitch, Series #6, Tri-Barrier (Continued)**

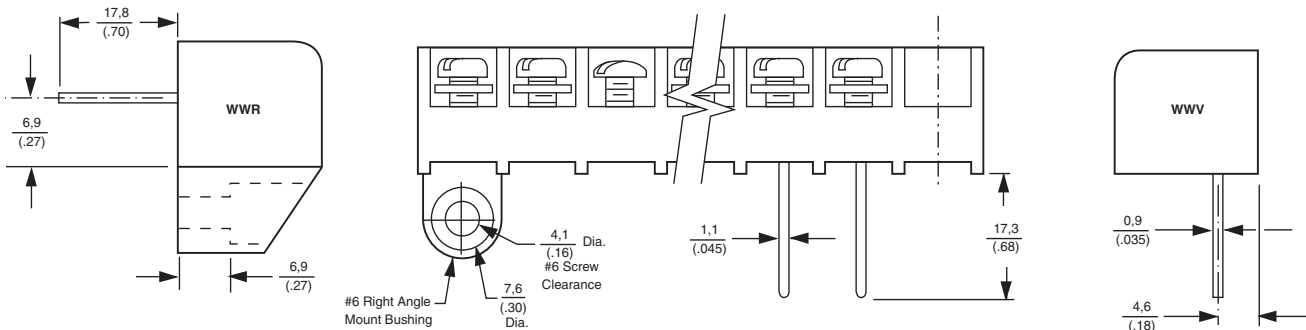
**Printed Circuit Pin**



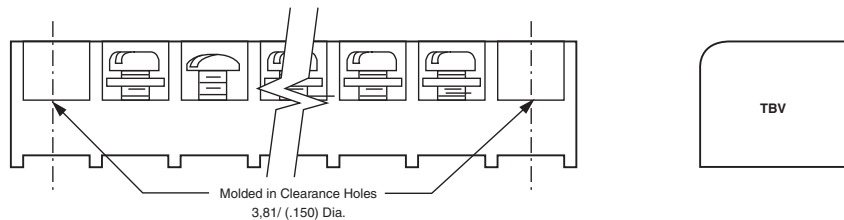
**Solder Turret**



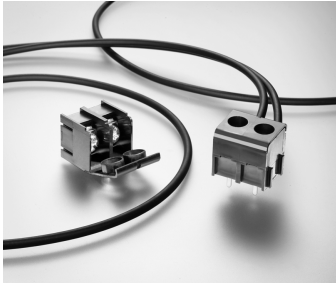
**Wire Wrap**



**Non-Feed Thru**



## 0.375" [9.53] Pitch, Modular w/cover, Tri-Barrier



### Material & Finish

**Housing Material**—Polyamide

**Flammability**—UL94V-0

**Color**—Black

**Terminals**—Brass, tin-plated

**Screws**—m3.5, steel, nickel plated

### Mechanical Properties

**Pitch (Terminal Spacing)**—  
0.375" [9.53]

**Recommended PCB Hole Dia.**—  
1.8mm [0.073"]

**Recommended Tightening Torque**—  
12 in.-lb.

### Electrical Properties

**Ratings\***—UL Class B 15 Amps, 300V  
UL Class D 10 Amps, 300V

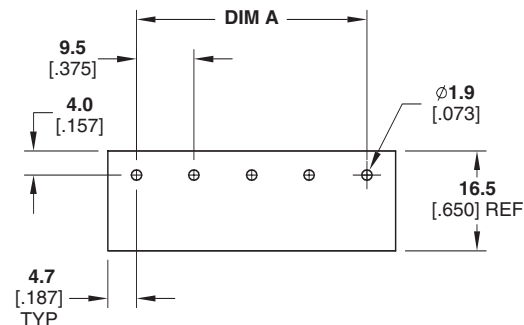
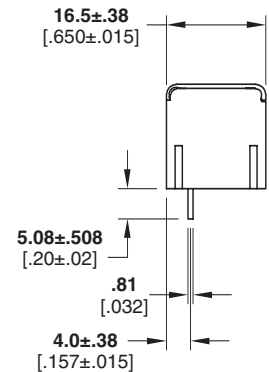
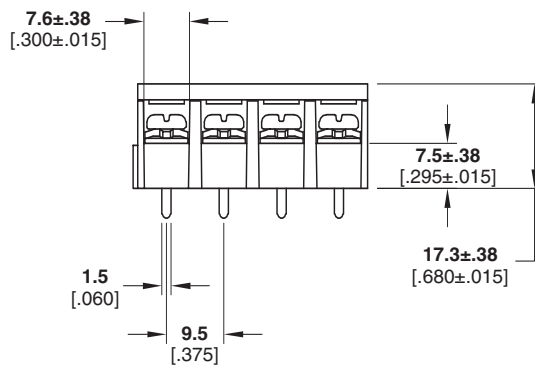
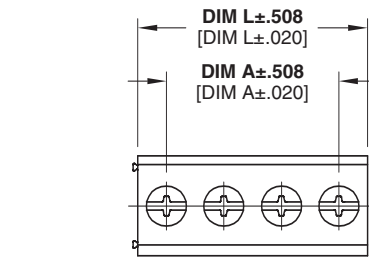
\*Evaluated to U.S. and Canadian Standards.

**Wire Range**—18-22 AWG

### Environmental Properties

**Operating Temperature Range**—  
-40°C to +120°C [-104°F to +248°F]

**Circuit Identification**—See page 179



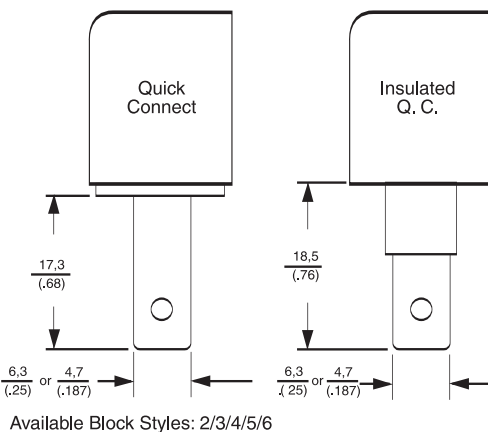
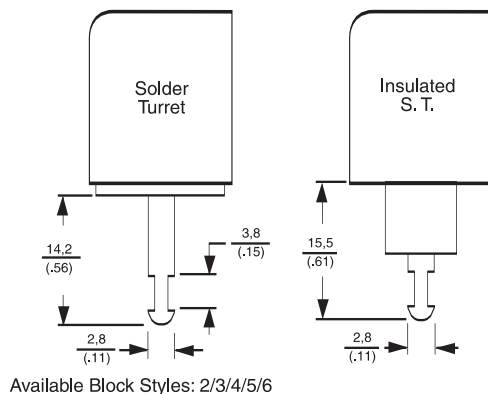
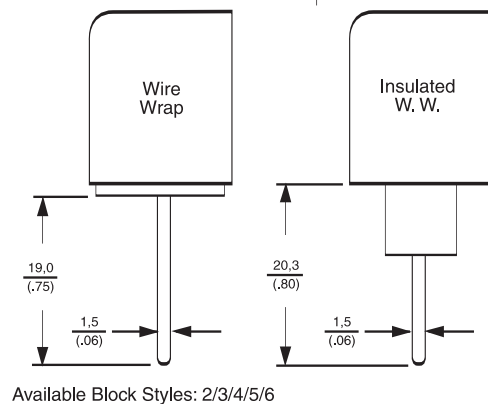
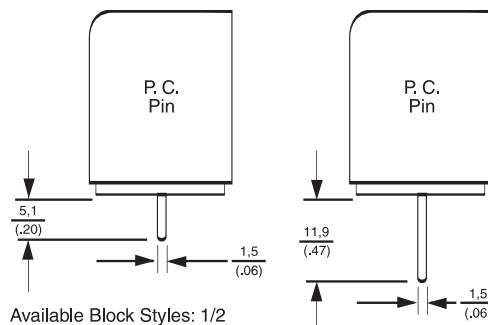
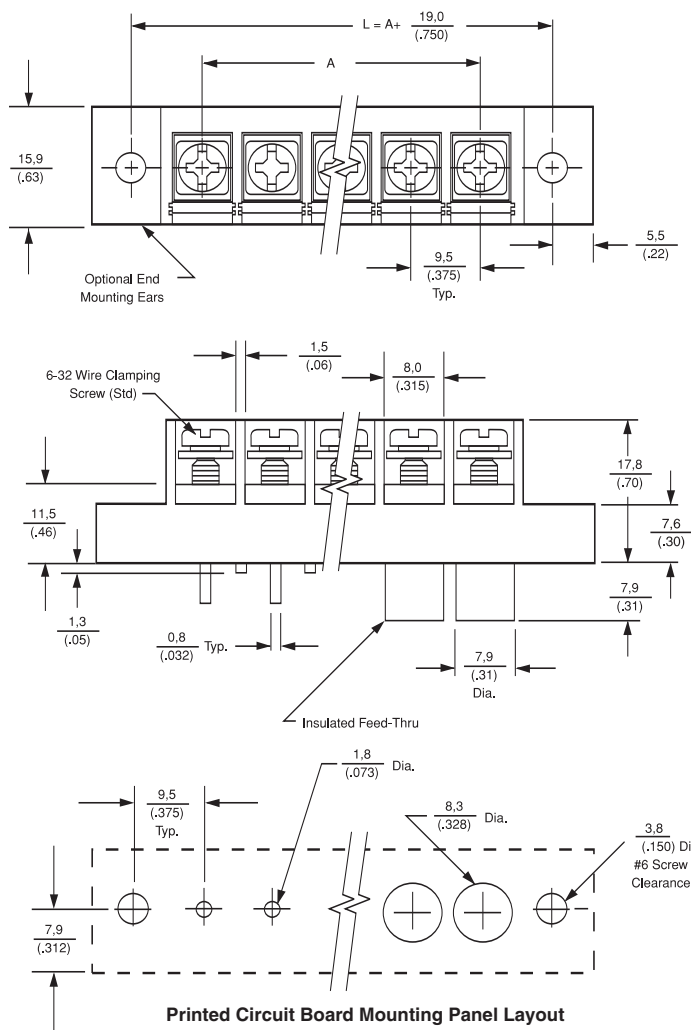
Recommended PC Board Layout

| No. of Positions | Dimension A  | Part Numbers |
|------------------|--------------|--------------|
| 2                | .375 [9.5]   | 1546833-2    |
| 3                | .750 [19.0]  | 1546833-3    |
| 4                | 1.125 [28.6] | 1546833-4    |
| 5                | 1.500 [38.1] | 1546833-5    |
| 6                | 1.875 [47.6] | 1546833-6    |
| 7                | 2.250 [57.1] | 1546833-7    |
| 8                | 2.625 [66.7] | 1546833-8    |

### 0.375" [9.53] Pitch, Series BC6

| No. of Positions | Dim. A              |
|------------------|---------------------|
| 2                | <b>.375</b> [9.5]   |
| 3                | <b>.750</b> [19.1]  |
| 4                | <b>1.125</b> [28.6] |
| 5                | <b>1.500</b> [38.1] |
| 6                | <b>1.875</b> [47.6] |
| 7                | <b>2.250</b> [57.1] |
| 8                | <b>2.625</b> [66.7] |
| 9                | <b>3.000</b> [76.2] |

| No. of Positions | Dim. A               |
|------------------|----------------------|
| 10               | <b>3.375</b> [85.7]  |
| 11               | <b>3.750</b> [95.2]  |
| 12               | <b>4.125</b> [104.8] |
| 13               | <b>4.500</b> [114.3] |
| 14               | <b>4.875</b> [123.8] |
| 15               | <b>5.250</b> [133.3] |
| 16               | <b>5.625</b> [142.9] |



## 0.375" [9.53] Pitch, Series BC6

### Ordering Information



#### Material & Finish

**Housing Material**—Polypropylene

**Flammability**—UL94V-0

**Color**—Black

**Terminals**—Bright acid tin over copper alloy

**Screws**—#6-32 steel, zinc plating with clear chromate coating. Wire clamping screws and binding head screws available.

#### Mechanical Properties

**Pitch (Terminal Spacing)**—  
0.375" [.953]

**Recommended PCB Hole Dia.**—  
1.8mm [.073"]

#### Electrical Properties

**Ratings**—UL Class C 20 Amps, 300V  
UL Class D 5 Amps, 600V  
CSA Type C 20 Amps, 300V

**Wire Range**—12-22 AWG

#### Environmental Properties

**Operating Temperature Range**—  
105°C [221°F] max.

**Circuit Identification**—See page 179

#### Hardware Options

**TC2**—Safety covers, see page 174

**QC2x**—.250 Quick connects, see page 176

**QC4x**—.187 Quick connects, see page 176

**ST80**—Single sided solder tabs, see page 176

**1437661-7**—Retaining clip, Insulating turret, see page 178

**J6**—Jumpers, see page 177

**1437651-2**—Wire clamp screw, steel, see page 178

**1437651-5**—Wire clamp screw, brass, see page 178

**1437651-8**—Binding head screw, steel, see page 178

**L03**—Binding head screw, stainless, see page 178

**BC6 - P 1 08 - 08**  
A B C D

#### A Terminal Style

P=Printed Circuit (available with 1,2,5 block style only)

T=Solder Turret

Q=Quick Connect .250

W=Solderless Wrap

E=Extended Circuit Board

F=Quick Connect .187

#### B Block Style

1=Flat, all positions filled (standard)

2=Flat, end mounting ears with holes (required for cover option)

3=Insulating turret, end mounting ears with holes (required for cover option)

4=Insulating turret, all positions filled

5=Flat, end positions open with mounting bushings

6=Insulating turret, end positions open with mounting bushings

#### C Screw Hardware

07=Steel binding combo head screw

08=Steel wire-clamp combo head screw (standard)

05=Brass binding combo head screw

06=Brass wire-clamp combo head screw

#### D No. of Circuits (Not Positions)

02 to 25 circuits

## 0.375" [9.53] Pitch, Series MB6, Double Level

### MB6-P108-##



#### Material & Finish

**Housing Material**—Thermoplastic polyamide

**Flammability**—UL94V-0

**Color**—Black

**Terminals**—Bright acid tin over copper alloy

**Screws**—#6-32 steel, zinc plating with clear chromate coating.

#### Mechanical Properties

**Pitch (Terminal Spacing)**—  
.375" [9.525]

**Recommended PCB Hole Dia.**—  
1.8mm [.073"]

#### Electrical Properties

**Ratings**—UL Class C 25 Amps, 300V  
CSA Type C 25 Amps, 600V

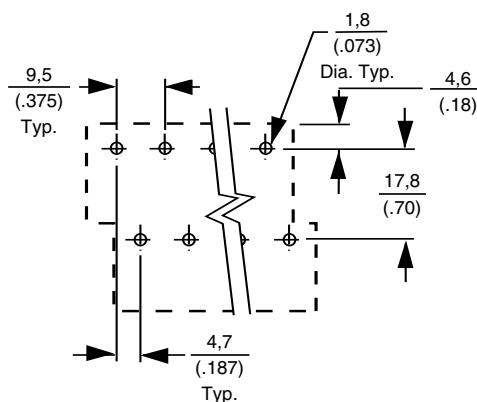
**Wire Range**—12-22 AWG

#### Environmental Properties

**Operating Temperature Range**—  
105°C [221°F] max.

#### Hardware Options

**1437651-2**—Wire clamp screw, see page 178

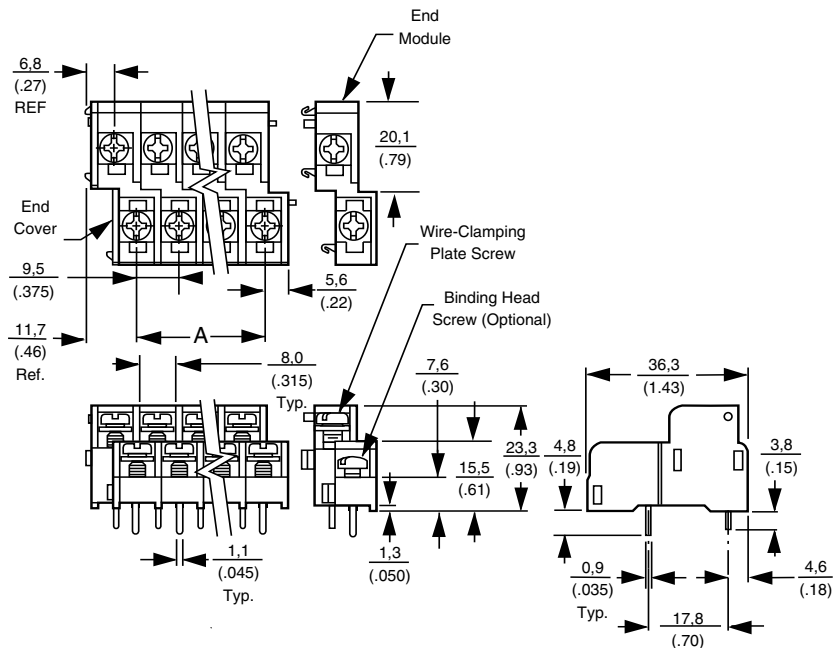


Printed Circuit Board Layout

#### ORDERING INFORMATION

**MB6 - P1 08 - 04**

- A Series**  
MB6=Double Level, 0.375" Centers
- B Terminal Style**  
P1=Printed Circuit Pin, Vertical
- C Screw Hardware**  
08=Steel wire clamp combo head screws
- D 02 through 40** available in multiples of 2



| No. of Positions | Dim. A       |
|------------------|--------------|
| 4                | 0.375 [9.5]  |
| 6                | 0.750 [19.1] |
| 8                | 1.125 [28.6] |
| 10               | 1.500 [38.1] |
| 12               | 1.875 [47.6] |
| 14               | 2.250 [57.1] |
| 16               | 2.625 [66.7] |
| 18               | 3.000 [76.2] |
| 20               | 3.375 [85.7] |
| 22               | 3.750 [95.2] |

| No. of Positions | Dim. A        |
|------------------|---------------|
| 24               | 4.125 [104.8] |
| 26               | 4.500 [114.3] |
| 28               | 4.875 [123.8] |
| 30               | 5.250 [133.3] |
| 32               | 5.625 [142.9] |
| 34               | 6.000 [152.4] |
| 36               | 6.375 [161.9] |
| 38               | 6.750 [171.4] |
| *40              | 7.125 [181.0] |

\* Longer lengths available.  
Please consult Technical Support.

## 0.4375" [11.1] Pitch, Series #8

### #8 Series Tri-Barriers



#### Material & Finish

**Housing Material**—Polypropylene

**Flammability**—UL94V-0

**Color**—Black

**Terminals**—Bright acid tin over copper alloy

**Screws**—#8-32 steel, zinc plating with clear chromate coating. Wire clamping screws and binding head screws with undercut available.

#### Mechanical Properties

**Pitch (Terminal Spacing)**—  
.4375" [11.1]

**Recommended PCB Hole Dia.**—  
1.8mm [.073"]

#### Electrical Properties

**Ratings**—UL Class C 30 Amps, 600V  
CSA Type C 30 Amps, 600V

**Wire Range**—10-18 AWG (UL)  
10-22 AWG (CSA)

#### Environmental Properties

**Operating Temperature Range**—  
105°C [221°F] max.

**Circuit Identification**—See page 179

#### Hardware Options

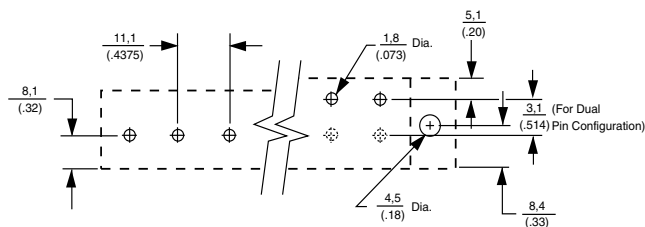
**TC8**—Safety covers, see page 174

**QC8**—Quick connects, see page 176

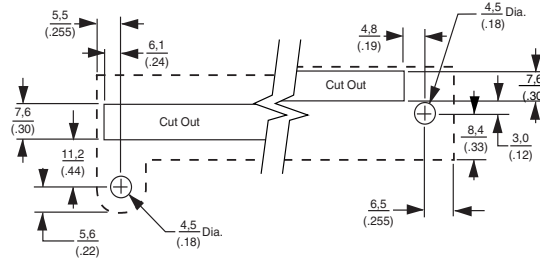
**J8**—Jumpers, see page 177

**1437425-1**—Wire clamp screw,  
see page 178

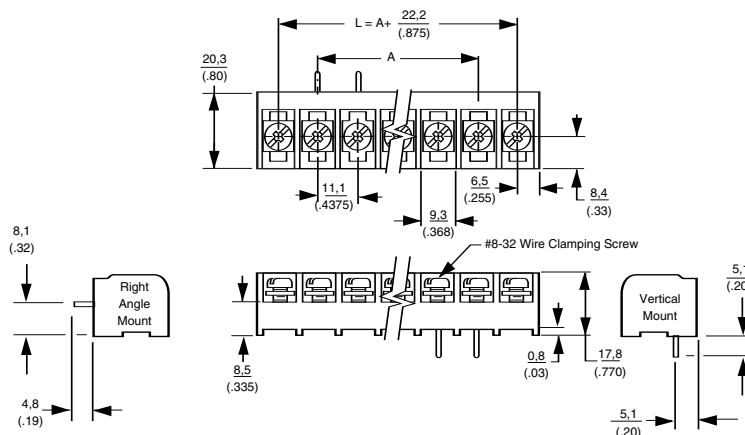
**1437429-1**—Binding head screw,  
steel, see page 178



**RIGHT ANGLE  
VERTICAL  
PRINTED CIRCUIT BOARD LAYOUT**



**RIGHT ANGLE  
VERTICAL  
MOUNTING PANEL LAYOUT**



| No. of Positions | Dim. A        |
|------------------|---------------|
| 2                | 0.4375 [11.1] |
| 3                | 0.87 [22.2]   |
| 4                | 1.31 [33.3]   |
| 5                | 1.75 [44.5]   |
| 6                | 2.19 [55.6]   |
| 7                | 2.62 [66.7]   |
| 8                | 3.06 [77.8]   |
| 9                | 3.50 [88.9]   |
| 10               | 3.93 [100.0]  |
| 11               | 4.37 [111.1]  |
| 12               | 4.81 [122.2]  |
| 13               | 5.25 [133.3]  |
| 14               | 5.69 [144.5]  |

| No. of Positions | Dim. A        |
|------------------|---------------|
| 15               | 6.12 [155.6]  |
| 16               | 6.56 [166.7]  |
| 17               | 7.00 [177.8]  |
| 18               | 7.44 [188.9]  |
| 19               | 7.87 [200.0]  |
| 20               | 8.31 [211.1]  |
| 21               | 8.75 [222.2]  |
| 22               | 9.19 [233.4]  |
| 23               | 9.62 [244.5]  |
| 24               | 10.06 [255.6] |
| 25               | 10.50 [266.7] |
| 26               | 10.94 [277.8] |



LR30811

E54800

**0.4375" [11.1] Pitch, Series #8** (Continued)

**Ordering Information**
**8 PCV-04-006**
**A B C D**
**A Screw Size Spacing**

8 = #8-32 on .4375" Centers

**C No. of Circuits** (Not positions)

02 through 26

**B Terminal Style**
**DBL** = Double Printed Circuit Pin

**PCR** = Printed Circuit, Right Angle

**PCV** = Printed Circuit Pin, Vertical

**QCR** = Quick Connect Tab, Right Angle

**QCV** = Quick Connect Tab, Vertical

**STR** = Solder Turret, Right Angle

**STV** = Solder Turret, Vertical

**TBV** = Non Feed Thru

**WWR** = Solderless Wire Wrap, Right Angle

**WVW** = Solderless Wire Wrap, Vertical

**D Modifiers**

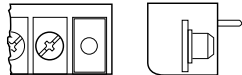
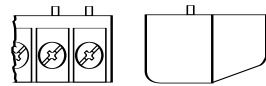
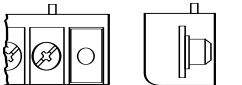
Use table below.

-002=-006 except brass screw

-003=-007 except brass screw

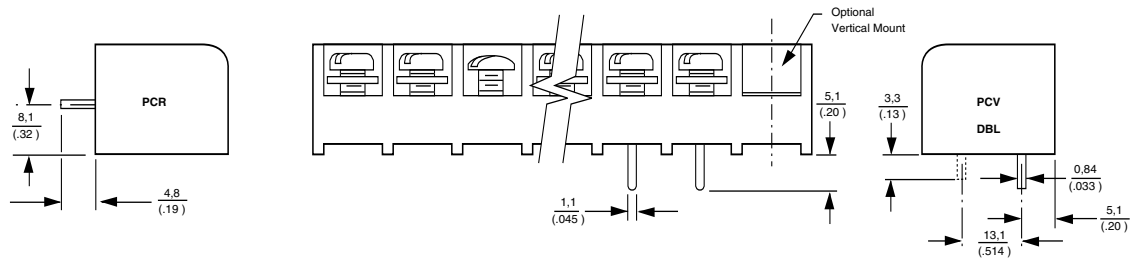


Phil-slot Head

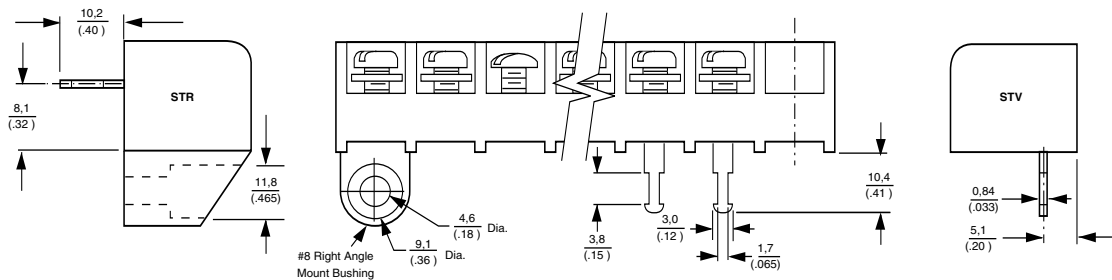
| Terminal Style | Modifier Phil-slot Head | Screw Style  | Mounting Construction                                                                 |
|----------------|-------------------------|--------------|---------------------------------------------------------------------------------------|
| DBL            | 006                     | Wire Clamp   | No Mounting                                                                           |
|                | 007                     | Binding Head |                                                                                       |
| PCV            | 006                     | Wire Clamp   | No Mounting                                                                           |
|                | 007                     | Binding Head |                                                                                       |
|                | 008                     | Wire Clamp   |  |
|                | 009                     | Binding Head |                                                                                       |
| PCR            | 006                     | Wire Clamp   |                                                                                       |
|                | 007                     | Binding Head |                                                                                       |
|                | 008                     | Wire Clamp   |  |
|                | 009                     | Binding Head |                                                                                       |
| QCV            | 006                     | Wire Clamp   |  |
| STV            |                         |              |                                                                                       |
| WVW            |                         |              |                                                                                       |
| QCR            | 006                     | Wire Clamp   |  |
| STR            |                         |              |                                                                                       |
| WWR            | 008                     | Wire Clamp   |  |
| WVR            |                         |              |                                                                                       |
| TBV            | 006                     | Wire Clamp   |  |

**0.4375" [11.1] Pitch, Series #8 (Continued)**

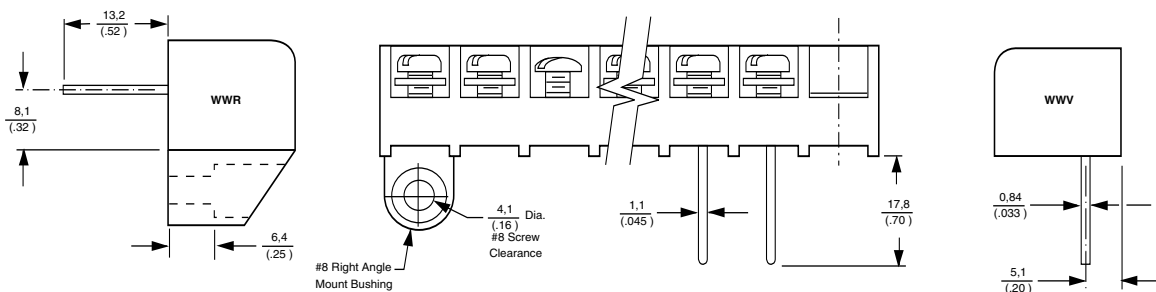
**Printed  
Circuit Pin**



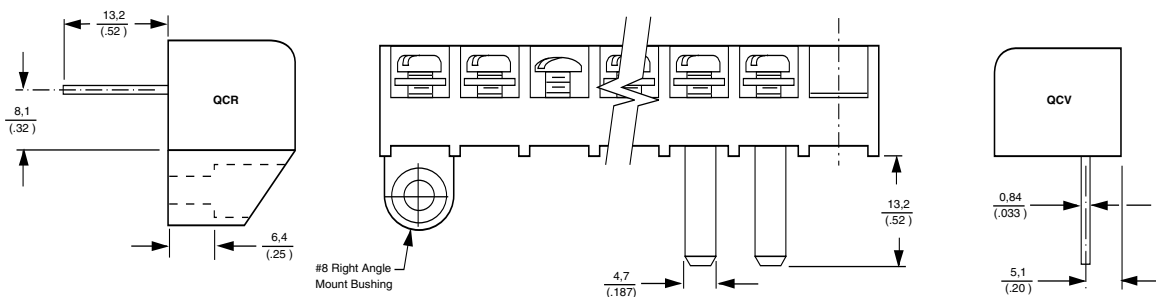
**Solder  
Turret**



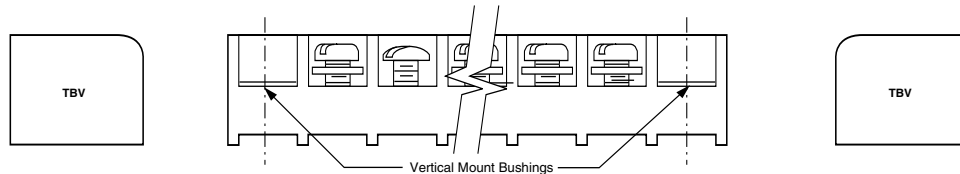
**Wire  
Wrap**



**Quick  
Connect**



**Non-Feed  
Thru**



## Dual-Barrier Strips

### Product Facts

- Industrial controls and automation
- Machine tools
- HVAC/R
- Power supplies
- Security/Irrigation
- Transformers

### Design Advantages

- Fast wiring – backed-out wire-ready screws
- Interrupted thread designed to prevent screws from falling out
- Standoffs allow flux and solvents to drain during cleaning
- Molded-to-length or cut-to-length versions available



The Dual-Barrier design provides a more cost-effective solution than the Tri-Barrier Strips while still supplying many of the design advantages.

### Connector Index

#### Single Row

|         |                                      |          |
|---------|--------------------------------------|----------|
| 0.250"  | Pitch, Series 1546657 .....          | 141, 142 |
| 0.325"  | Pitch, Series 4DB .....              | 143-144  |
| 0.325"  | Pitch, High Rise .....               | 145-146  |
| 0.325"  | Pitch, Series SSB3.....              | 168-170  |
| 0.375"  | Pitch, Series JC6 .....              | 147, 148 |
| 0.375"  | Pitch, Series NC6, Low Profile ..... | 149, 150 |
| 0.4375" | Pitch, Series SSB7.....              | 151-154  |

#### Double Row, Panel Mount

|        |             |     |
|--------|-------------|-----|
| 0.374" | Pitch ..... | 156 |
| 0.433" | Pitch ..... | 157 |
| 0.437" | Pitch ..... | 158 |
| 0.563" | Pitch ..... | 160 |

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## Engineering Notes

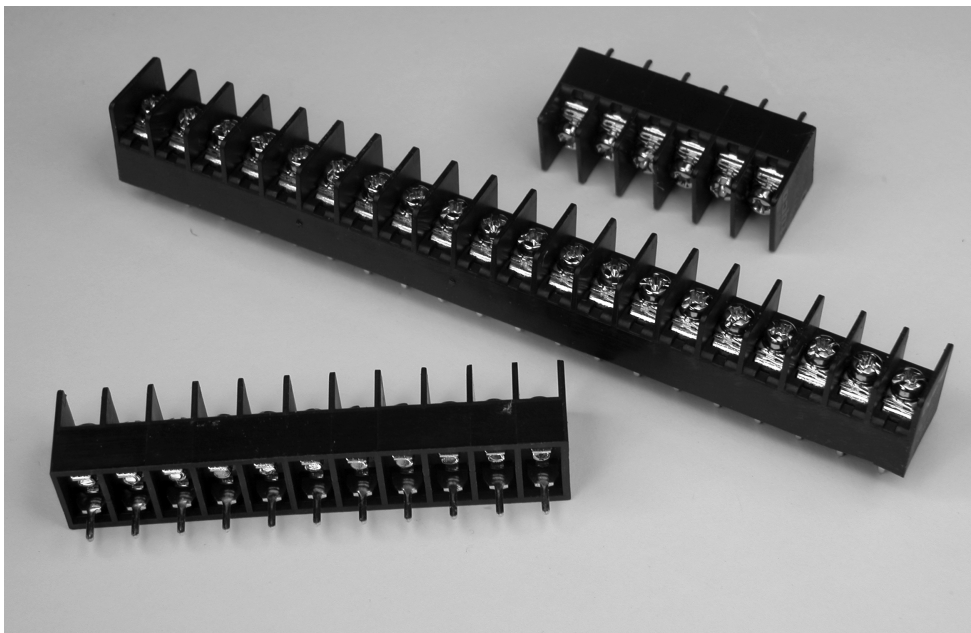
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## High-Density, Dual-Barrier Strips, .250" [6.35] Centerline

### Product Facts

- High density accommodates today's compact PCB layouts



### Material & Finish

**Insulator Body**—UL 94V-0 thermoplastic, black  
**Terminal**—Brass, tin-plated  
**Screw**—M3, Steel, nickel-plated

### Mechanical Properties

**Recommended Tightening Torque**—10 in-lbs  
Combination drive screws with #2 Phillips recess and standard slot

### Electrical Properties

**Current Rating**—10 A  
**Voltage Rating**—300 VAC/DC per UL and CSA standards  
**Wire Range**—16-30 AWG Copper, Solid or Stranded

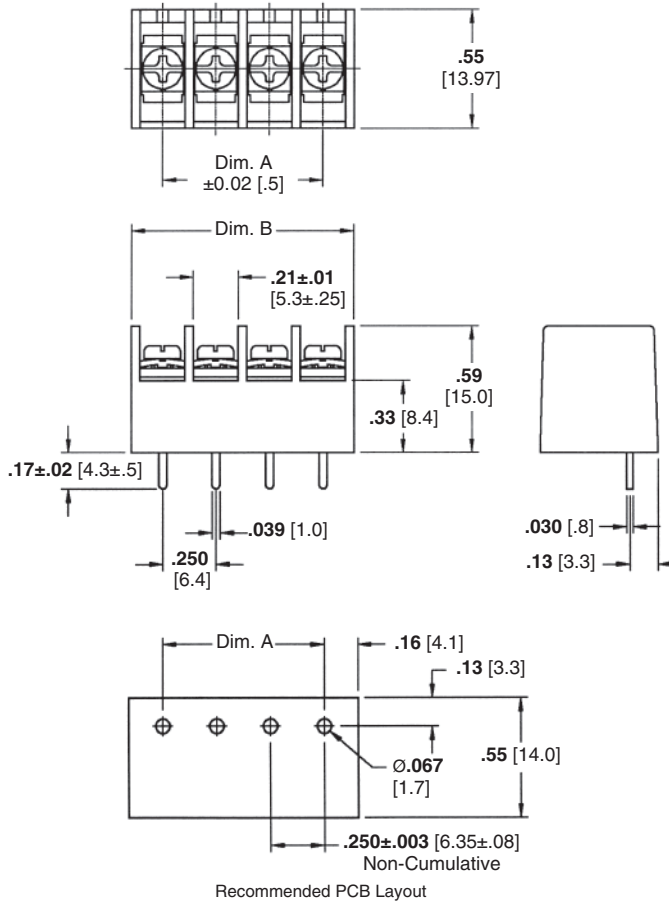
### Environmental Properties

**Operating Temperature**—40°F to +221°F [-40°C to +115°C]  
**Circuit Identification**—See page 179

### Hardware Options

**TC8**—Safety cover, see page 174  
**QC8**—Quick connects, see page 176  
**J8**—Jumpers, see page 177  
**1437425-1**—Wire clamp screw, see page 178  
**1437429-1**—Binding head screw, steel, see page 178

## High-Density, Dual-Barrier Strips, .250" [6.35] Centerline (Continued)

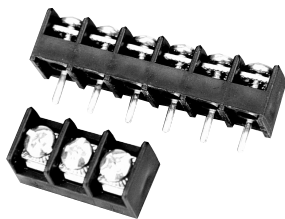


| No. of Positions | Dimension    |             | Part Number |
|------------------|--------------|-------------|-------------|
|                  | A            | B           |             |
| 2                | 0.250 [6.35] | 0.54 [13.7] | 1546657-2   |
| 3                | 0.500 [12.7] | 0.79 [20.1] | 1546657-3   |
| 4                | 0.750 [19.1] | 1.04 [26.4] | 1546657-4   |
| 5                | 1.000 [25.4] | 1.29 [32.8] | 1546657-5   |
| 6                | 1.250 [31.8] | 1.54 [39.1] | 1546657-6   |
| 7                | 1.500 [38.1] | 1.79 [45.5] | 1546657-7   |
| 8                | 1.750 [44.4] | 2.04 [51.8] | 1546657-8   |
| 9                | 2.000 [50.8] | 2.29 [58.2] | 1546657-9   |
| 10               | 2.250 [57.2] | 2.54 [64.5] | 1-1546657-0 |
| 11               | 2.500 [63.5] | 2.79 [70.9] | 1-1546657-1 |
| 12               | 2.750 [69.9] | 3.04 [77.2] | 1-1546657-2 |
| 13               | 3.000 [76.2] | 3.29 [83.6] | 1-1546657-3 |
| 14               | 3.250 [82.6] | 3.54 [90.0] | 1-1546657-4 |
| 15               | 3.500 [88.9] | 3.79 [96.3] | 1-1546657-5 |

| No. of Positions | Dimension     |              | Part Number |
|------------------|---------------|--------------|-------------|
|                  | A             | B            |             |
| 16               | 3.750 [95.3]  | 4.04 [102.6] | 1-1546657-6 |
| 17               | 4.000 [101.6] | 4.29 [108.9] | 1-1546657-7 |
| 18               | 4.250 [107.9] | 4.54 [115.3] | 1-1546657-8 |
| 19               | 4.500 [114.3] | 4.79 [121.7] | 1-1546657-9 |
| 20               | 4.750 [120.6] | 5.04 [128.0] | 2-1546657-0 |
| 21               | 5.000 [127.0] | 5.29 [134.4] | 2-1546657-1 |
| 22               | 5.250 [133.3] | 5.54 [140.7] | 2-1546657-2 |
| 23               | 5.500 [139.7] | 5.79 [147.1] | 2-1546657-3 |
| 24               | 5.750 [146.1] | 6.04 [153.4] | 2-1546657-4 |
| 25               | 6.000 [152.4] | 6.29 [159.8] | 2-1546657-5 |
| 26               | 6.250 [158.8] | 6.54 [166.1] | 2-1546657-6 |
| 27               | 6.500 [165.1] | 6.79 [172.5] | 2-1546657-7 |
| 28               | 6.750 [171.5] | 7.04 [178.8] | 2-1546657-8 |
| 29               | 7.000 [177.8] | 7.29 [185.2] | 2-1546657-9 |
| 30               | 7.250 [184.2] | 7.54 [191.5] | 3-1546657-0 |

## 0.325" [8.26] Pitch, Series 4DB

### 4DB-P108-##



#### Material & Finish

**Housing Material**—Thermoplastic Polyamide

**Flammability**—UL94V-0

**Color**—Black

**Terminals**—Bright acid-tin over copper alloy

**Screws**—#6-32 steel, zinc plating with clear chromate coating. Wire clamping screws and binding head screws available.

#### Mechanical Properties

**Pitch (Terminal Spacing)**—0.325" [9.525]

**Recommended PCB Hole Dia.**—1.7mm [0.07"]

#### Electrical Properties

**Ratings**—UL Class C 20 Amps, 150V  
UL Class D 10 Amps, 300V  
CSA Type B 20 Amps, 300V  
CSA Type C 20 Amps, 300V  
CSA Type D 10 Amps, 300V  
CSA Type E 20 Amps, 300V

**Wire Range**—12-22 AWG

#### Environmental Properties

**Operating Temperature Range**—105°C [221°F] max.

**Circuit Identification**—See page 179

#### Hardware Options

**QC4**—Quick connects, see page 176

**J4**—Jumpers, see page 177

**9-1437667-9**—Wire clamp screw, see page 178

#### Ordering Information

# 4DB - P 1 08 - 06

**A**
**B**
**C**
**D**
**E**

#### **A** Series

4DB = Dual-Barrier, 0.325" Centers

#### **B** Terminal Style

P = Printed Circuit Pin

W = Wire Wrap

R = Right Angle

#### **C** Block Style

1 = Flat, all positions filled

2 = Flat, end mounting holes

#### **D** Screw Type

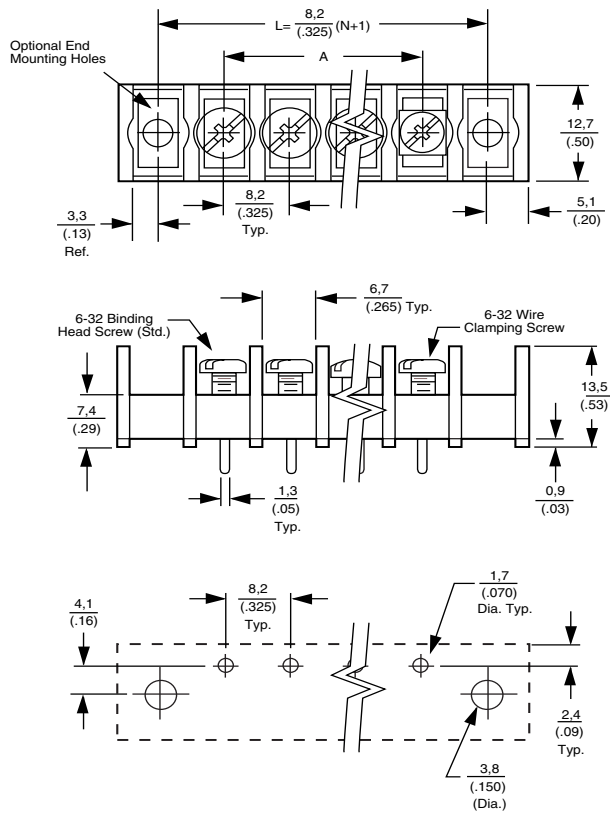
07 = Steel binding combo head screws

08 = Steel wire clamp combo head screws

#### **E** No. of Circuits (Not Positions)

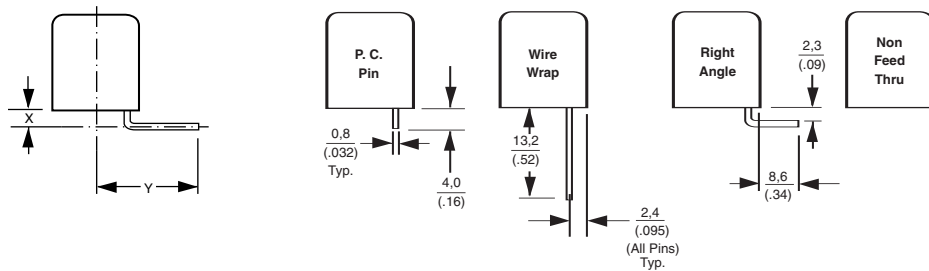
02 through 30

**0.325" [8.26] Pitch, Series 4DB (Continued)**



**Bend Options:**

A variety of bend options are available. Please consult Technical Support for details.

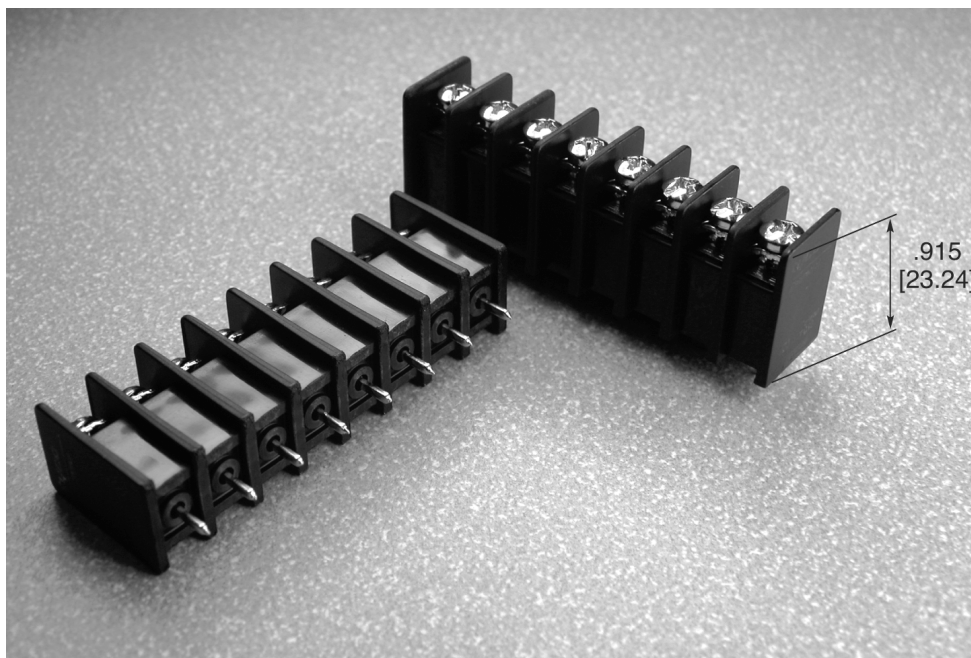


| No. of Positions | Dim. A        | No. of Positions | Dim. A        |
|------------------|---------------|------------------|---------------|
| 2                | 0.325 [8.2]   | 17               | 5.200 [132.1] |
| 3                | 0.650 [16.5]  | 18               | 5.525 [140.3] |
| 4                | 0.975 [24.8]  | 19               | 5.850 [148.6] |
| 5                | 1.300 [33.0]  | 20               | 6.175 [156.8] |
| 6                | 1.625 [41.3]  | 21               | 6.500 [165.1] |
| 7                | 1.950 [49.5]  | 22               | 6.825 [173.3] |
| 8                | 2.275 [57.8]  | 23               | 7.150 [181.6] |
| 9                | 2.600 [66.0]  | 24               | 7.475 [190.0] |
| 10               | 2.925 [74.3]  | 25               | 7.800 [198.1] |
| 11               | 3.250 [82.5]  | 26               | 8.125 [206.4] |
| 12               | 3.575 [90.8]  | 27               | 8.450 [214.6] |
| 13               | 3.900 [99.1]  | 28               | 8.775 [222.8] |
| 14               | 4.225 [107.3] | 29               | 9.100 [231.1] |
| 15               | 4.550 [115.6] | 30               | 9.425 [239.4] |
| 16               | 4.875 [123.8] |                  |               |

## High Rise Dual-Barrier Strips, .325 [8.26] Centerline

### Product Facts

- ▢ High rise profile provides wire entry access on congested PC boards
- ▢ Space saving high rise design allows for dual-level wire entry when used with 4DB series barrier strips
- ▢ Captive screws provided in wire-ready position



### Material & Finish

**Insulator Body**—UL 94V-0  
Thermoplastic, Black

**Terminal**—Brass, Tin plated

### Mechanical Properties

#### Recommended Tightening

**Torque**—10 in-lbs  
Combination drive screws with #2  
Phillips Recess and Standard Slot

### Electrical Properties

**Current Rating**—10 A

**Voltage Rating**—20 A, 300 VAC/DC  
per UL and CSA standards

**Wire Range**—12-22 AWG Cu, Solid or  
Stranded

### Environmental Properties

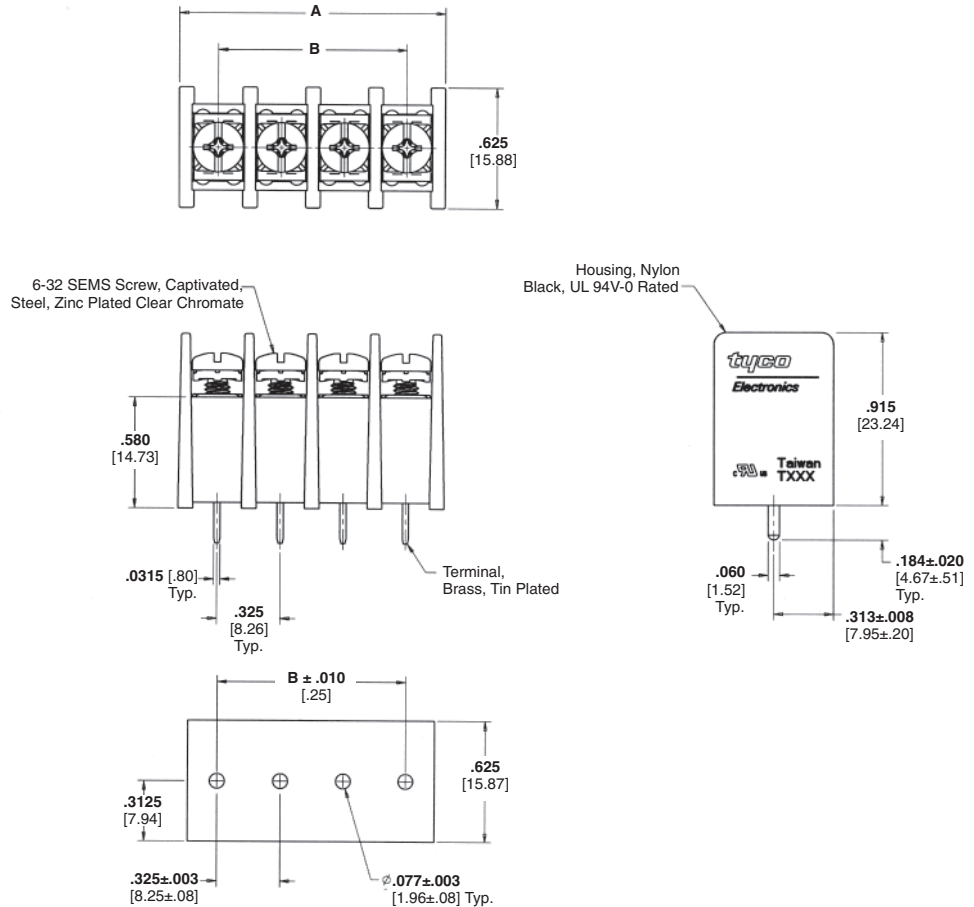
**Operating Temperature**—40°F to  
+221°F [-40°C to +105°C]

**Circuit Identification**—See page 179

### Hardware Options

**J4**—Jumpers, see page 177

## High Rise Dual-Barrier Strips, .325 [8.26] Centerline (Continued)

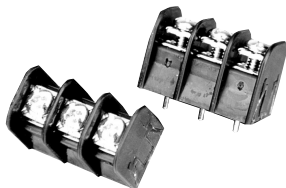


**Recommended PC Board Layout**

| No of Positions | Dimension      |                | Part Number |
|-----------------|----------------|----------------|-------------|
|                 | A              | B              |             |
| 2               | 0.725 [18.42]  | 0.325 [8.26]   | 1546734-2   |
| 3               | 1.050 [26.67]  | 0.650 [16.51]  | 1546734-3   |
| 4               | 1.375 [34.93]  | 0.975 [24.77]  | 1546734-4   |
| 5               | 1.700 [43.18]  | 1.300 [33.02]  | 1546734-5   |
| 6               | 2.025 [51.44]  | 1.625 [41.28]  | 1546734-6   |
| 7               | 2.350 [59.69]  | 1.950 [49.53]  | 1546734-7   |
| 8               | 2.675 [67.95]  | 2.275 [57.79]  | 1546734-8   |
| 9               | 3.000 [76.20]  | 2.600 [66.04]  | 1546734-9   |
| 10              | 3.325 [84.46]  | 2.925 [74.29]  | 1-1546734-0 |
| 11              | 3.650 [92.71]  | 3.250 [82.55]  | 1-1546734-1 |
| 12              | 3.975 [100.97] | 3.575 [90.81]  | 1-1546734-2 |
| 13              | 4.300 [109.22] | 3.900 [99.06]  | 1-1546734-3 |
| 14              | 4.625 [117.48] | 4.225 [107.32] | 1-1546734-4 |
| 15              | 4.950 [125.73] | 4.550 [115.57] | 1-1546734-5 |
| 16              | 5.275 [133.99] | 4.875 [123.83] | 1-1546734-6 |

## 0.375" [9.53] Pitch, Series JC6

### JC6-P107-03



#### Material & Finish

**Housing Material**—Polypropylene

**Flammability**—UL94V-0

**Color**—Black

**Terminals**—Bright acid-tin over copper alloy

**Screws**—#6-32 steel, zinc plating with clear chromate coating. Wire clamping screws and binding head screws available.

#### Mechanical Properties

**Pitch (Terminal Spacing)**—  
0.375" [9.525]

**Recommended PCB Hole Dia.**—  
1.8mm [.073"]

#### Electrical Properties

**Ratings**—UL Class C 20 Amps, 300V  
UL Class D 5 Amps, 600V  
CSA Type B 20 Amps, 300V  
CSA Type C 20 Amps, 300V  
CSA Type D 5 Amps, 600V  
CSA Type E 20 Amps, 600V

**Wire Range**—12-22 AWG

#### Environmental Properties

**Operating Temperature Range**—  
105°C [221°F] max.

**Circuit Identification**—See page 179

#### Hardware Options

**TC9**—Safety cover, see page 174

**QC2x**—.250 Quick connects,  
see page 176

**QC4x**—.187 Quick connects,  
see page 176

**J6**—Jumpers, see page 177

**J7x**—Over-the-barrier jumpers,  
see page 177

**1437661-7**—Retaining clips,  
insulating turrets, see page 178

**1437651-2**—Wire clamp screw, steel,  
see page 178

**1437651-5**—Wire clamp screw, brass,  
see page 178

**1437651-8**—Binding head screw,  
steel, see page 178

**L03**—Binding head screw, stainless,  
see page 178

#### Ordering Information

# JC6 - P 1 07 - 06

**A**      **B**      **C**      **D**      **E**

#### **A** Series

JC6 = Dual-Barrier, 0.375" Centers

#### **B** Terminal Style

C = Non Feed Thru

E = Extended Circ. Bd.

F = Quick Connect, .187

P = Printed Circuit Pin (available with 1, 2 Block Style)

T = Solder Turret

Q = Quick Connect, .250

W = Solderless Wrap

#### **C** Block Style

1 = Flat, all positions filled

2 = Flat, end mounting ears (required for cover option)

3 = Insulating turret, end mounting ears with holes  
(required for cover option)

4 = Insulating turret, all positions filled

5 = Flat, open end with mounting bracket

6 = Flat, open end, mounting bracket, insulating turret

7 = Closed bottom, end mounting ears. (for C style  
terminal only)

#### **D** Screw Hardware

05 = Brass binding combo head screws

06 = Brass wire-clamp combo head screws

07 = Steel binding combo head screws

08 = Steel wire-clamp combo head screws (standard)

#### **E** No. of Circuits (Not positions)

02 through 25

**0.375" [9.53] Pitch, Series JC6 (Continued)**

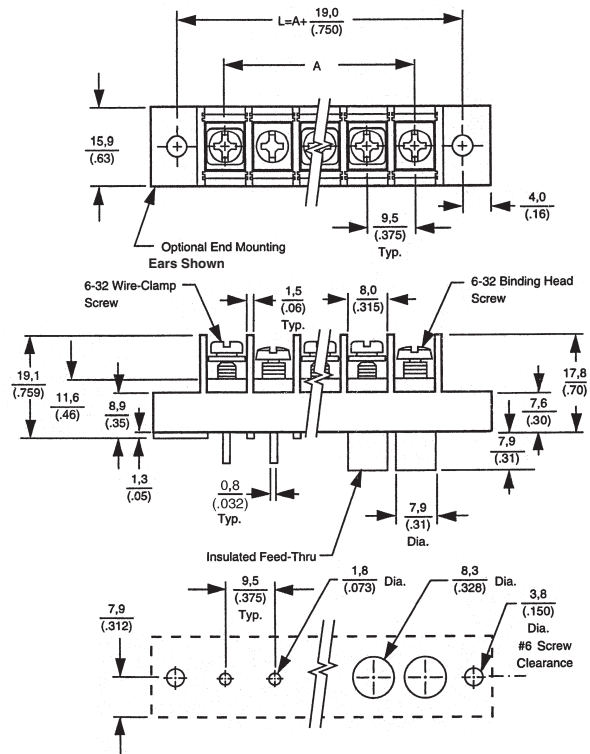
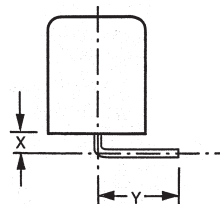
| No. of Positions | Dim. A        |
|------------------|---------------|
| 2                | 0.325 [8.2]   |
| 2                | 0.375 [9.5]   |
| 3                | 0.750 [19.1]  |
| 4                | 1.125 [28.6]  |
| 5                | 1.500 [38.1]  |
| 6                | 1.875 [47.6]  |
| 7                | 2.250 [57.1]  |
| 8                | 2.625 [66.7]  |
| 9                | 3.000 [76.2]  |
| 10               | 3.375 [85.7]  |
| 11               | 3.750 [95.2]  |
| 12               | 4.125 [104.8] |
| 13               | 4.500 [114.3] |

| No. of Positions | Dim. A         |
|------------------|----------------|
| 14               | 4.875 [123.8]  |
| 15               | 5.250 [133.3]  |
| 16               | 5.625 [142.9]  |
| 17               | 6.000 [152.4]  |
| 18               | 6.375 [161.9]  |
| 19               | 6.750 [171.45] |
| 20               | 7.125 [180.98] |
| 21               | 7.500 [190.5]  |
| 22               | 7.875 [200.03] |
| 23               | 8.250 [209.55] |
| *24              | 8.625 [219.08] |
| *25              | 9.000 [228.60] |

\* No mounting available

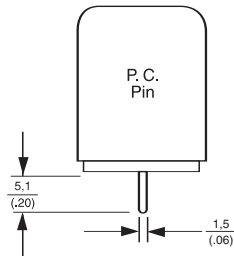
**Bend Options**

A variety of bend styles are available. Please consult Technical Support for details.

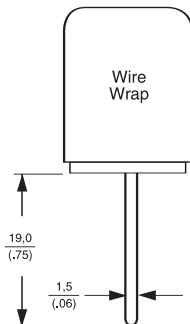


PRINTED CIRCUIT BOARD//MOUNTING PANEL LAYOUT

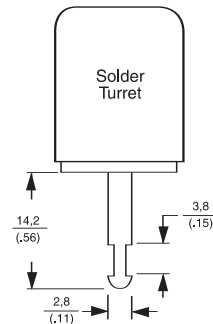
Available Block Styles: 1/2/5



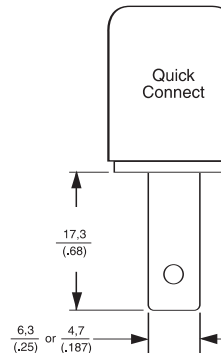
Available Block Styles: 2/3/4/5/6



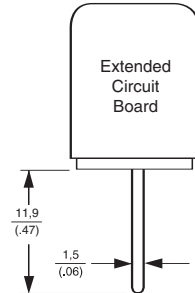
Available Block Styles: 2/3/4/5/6



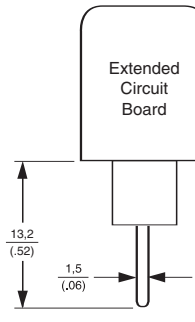
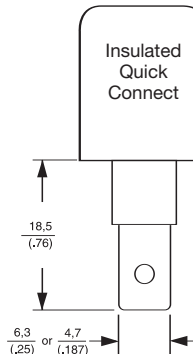
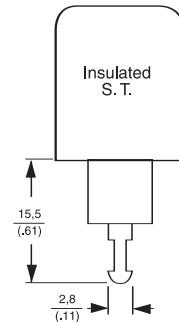
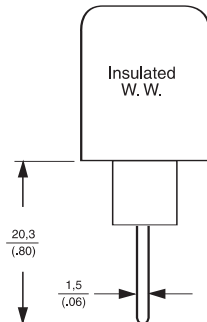
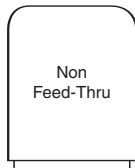
Available Block Styles: 2/3/4



Available Block Styles: 1/2/3/4/5/6

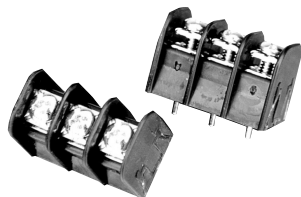


Available Block Styles: 7



## 0.375" [9.53] Pitch, NC6 Series, Low Profile

### NC6-P108-03



#### Material & Finish

**Housing Material**—Thermoplastic polyamide

**Flammability**—UL94V-0

**Color**—Black

**Terminals**—Bright acid tin over copper alloy

**Screws**—#6-32 steel, zinc plating with clear chromate coating. Wire clamping screws and binding head screws available.

#### Mechanical Properties

**Pitch (Terminal Spacing)**—  
.375" [9.525]

**Screw Size**—#6-32 steel

**Recommended PCB Hole Dia.**—  
1.8mm [.073"] dia.

#### Electrical Properties

**Ratings**—UL Class C 20 Amps, 300V  
CSA Type C 20 Amps, 300V

**Wire Range**—12-22 AWG

#### Environmental Properties

**Operating Temperature Range**—  
105°C [221°] max.

**Circuit Identification**—See page 179

#### Hardware Options

**1437651-2**—Wire clamp screw, steel,  
see page 178

**1437651-5**—Wire clamp screw, brass,  
see page 178

**1437651-8**—Binding head screw,  
steel, see page 178

**L03**—Binding head screw, stainless,  
see page 178

#### Ordering Information

# NC6 - P 1 08- 04

**A** **B** **C** **D** **E**

#### **A** Series

NC6 = Dual-Barrier, 0.375" Centers,  
Low Profile

#### **B** Terminal Style

P = Printed Circuit Pin

#### **C** Block Style

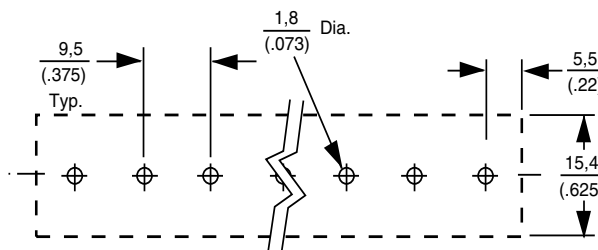
1 = Flat, all positions filled  
2 = End mounting holes provided

#### **D** Screw Hardware

05 = Brass binding combo head screws  
06 = Brass wire-clamp combo head screws  
07 = Steel binding combo head screws  
08 = Steel wire-clamp combo head screws

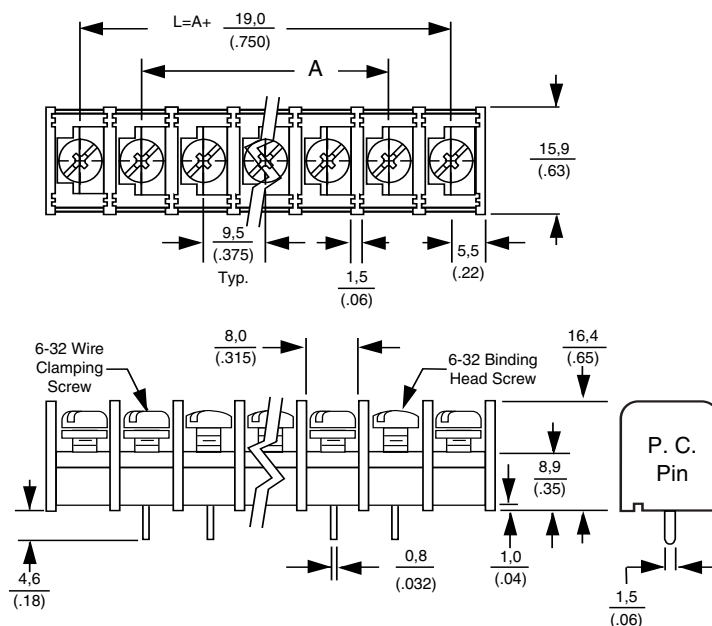
#### **E** No. of Circuits (Not positions)

02 through 24



RECOMMENDED PCB HOLE LAYOUT

**0.375" [9.53] Pitch, NC6 Series, Low Profile (Continued)**



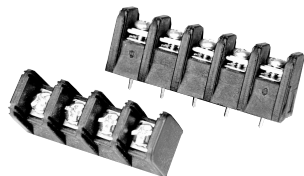
| No. of Positions | Dim. A               |
|------------------|----------------------|
| 2                | <b>0.375</b> [9.5]   |
| 3                | <b>0.750</b> [19.1]  |
| 4                | <b>1.125</b> [28.6]  |
| 5                | <b>1.500</b> [38.1]  |
| 6                | <b>1.875</b> [47.6]  |
| 7                | <b>2.250</b> [57.1]  |
| 8                | <b>2.625</b> [66.7]  |
| 9                | <b>3.000</b> [76.2]  |
| 10               | <b>3.375</b> [85.7]  |
| 11               | <b>3.750</b> [95.2]  |
| 12               | <b>4.125</b> [104.8] |
| 13               | <b>4.500</b> [114.3] |

| No. of Positions | Dim. A               |
|------------------|----------------------|
| 14               | <b>4.875</b> [123.8] |
| 15               | <b>5.250</b> [133.3] |
| 16               | <b>5.625</b> [142.9] |
| 17               | <b>6.000</b> [152.4] |
| 18               | <b>6.375</b> [161.9] |
| 19               | <b>6.750</b> [161.9] |
| 20               | <b>7.125</b> [171.4] |
| 21               | <b>7.500</b> [181.0] |
| 22               | <b>7.875</b> [190.5] |
| *23              | <b>8.250</b> [200.0] |
| *24              | <b>8.625</b> [209.6] |

\* No mounting available

## 0.4375" [11.1] Pitch, Series SSB7

### SSB7FP##0202



#### Material & Finish

**Housing Material**—Polypropylene

**Flammability**—UL94V-2

**Color**—Black

**Terminals**—Brass, bright acid tin over copper plating

**Screw**—#6-32 Steel with zinc + chromate plating

#### Mechanical Properties

**Pitch (Terminal Spacing)**—

.4375 in. [11.1]

**Recommended PCB Hole Dia.**—

.077" [1.955]

**Wire Strip Length**—.38" [9.652]

**Recommended Tightening**

**Torque**—8 in.-lbs.

**Recommended Screwdrivers**—

Stanley 1006-4, Sears Craftsman 41581,  
Any #2 Phillips-Head

**Wire Lug Width (Max.)**—8.1mm

[.320 in.]

#### Electrical Properties

**Ratings**—UL Class B 20 Amps, 600V

UL Class C 20 Amps, 600V

CSA Type C 20 Amps, 300V

CSA Type D, 5 Amps, 600V

**Wire Range**—12-22 AWG

**Dielectric Withstand**—5000V

#### Environmental Properties

**Operating Temperature Range**—

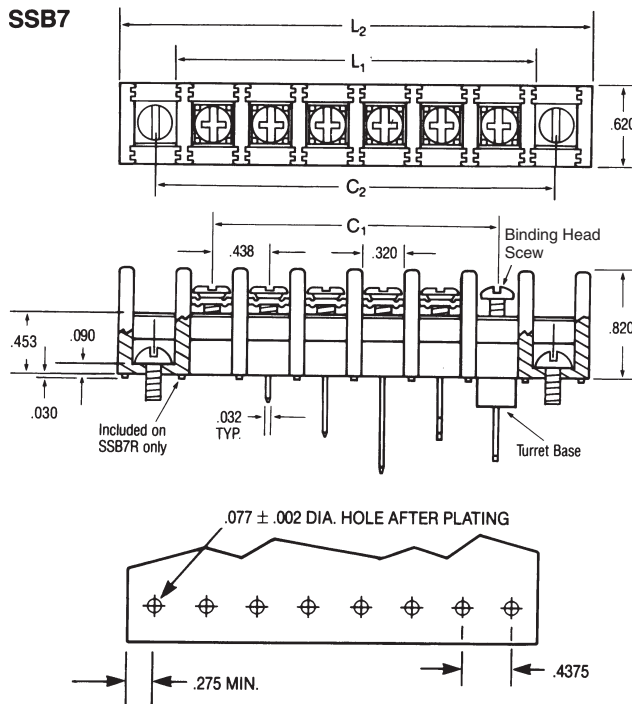
60°C to +105°C [-76°F to +221°F]

#### Computing Barrier Block Lengths

**Direct Mounting**—Use C1 and L1 for  
P & H mounting options

**End Position Mounting**—Use L2 and  
C2 for M, E, F & G mounting options

#### SSB7



| Circuits<br>(not positions) | C1<br>in. | L1*<br>in. | C2<br>in. | L2*<br>in. |
|-----------------------------|-----------|------------|-----------|------------|
| 01                          | —         | —          | 0.88      | 1.44       |
| 02                          | 0.44      | 1.00       | 1.31      | 1.88       |
| 03                          | 0.88      | 1.44       | 1.75      | 2.31       |
| 04                          | 1.31      | 1.88       | 2.19      | 2.75       |
| 05                          | 1.75      | 2.31       | 2.63      | 3.19       |
| 06                          | 2.19      | 2.75       | 3.06      | 3.63       |
| 07                          | 2.63      | 3.19       | 3.50      | 4.06       |
| 08                          | 3.06      | 3.63       | 3.94      | 4.50       |
| 09                          | 3.50      | 4.06       | 4.38      | 4.94       |
| 10                          | 3.94      | 4.50       | 4.81      | 5.38       |
| 11                          | 4.38      | 4.94       | 5.25      | 5.81       |
| 12                          | 4.81      | 5.38       | 5.69      | 6.25       |
| 13                          | 5.25      | 5.81       | 6.13      | 6.69       |
| 14                          | 5.69      | 6.25       | 6.56      | 7.13       |
| 15                          | 6.13      | 6.69       | 7.00      | 7.56       |
| 16                          | 6.56      | 7.13       | 7.44      | 8.00       |
| 17                          | 7.00      | 7.56       | 7.88      | 8.44       |
| 18                          | 7.44      | 8.00       | 8.31      | 8.88       |
| 19                          | 7.88      | 8.44       | 8.75      | 9.31       |
| 20                          | 8.31      | 8.88       | 9.19      | 9.75       |
| 21                          | 8.75      | 9.31       | 9.63      | 10.19      |
| 22                          | 9.19      | 9.75       | 10.06     | 10.63      |
| 23                          | 9.63      | 10.19      | 10.50     | 11.06      |
| 24                          | 10.06     | 10.63      | 10.94     | 11.50      |
| 25                          | 10.50     | 11.06      | 11.38     | 11.94      |
| 26                          | 10.94     | 11.50      | —         | —          |
| 27                          | 11.38     | 11.94      | —         | —          |

**0.4375" [11.1] Pitch, Series SSB7 (Continued)**

**Ordering Information**

**SSB 7 F P 06 02 02 11**  
**A B C D E F G H**

**A Single Screw Dual-Barrier Strip SSB**

**B Contact Spacing (Center-to-Center)**  
7 = .4375 (7/16)

**C Base Options**  
C=Closed Base  
F=Flat Base  
R=Raised Base  
T=Turret Base  
(Available only with 01, 04, 05, 07, 09, 12, 13, 15 style bottom terminals)

**D Mounting Options**  
(See illustration below)  
E=Open end positions, with mounting inserts, with end barriers  
F=Open end positions, without mounting inserts, without end barriers  
G=Open end positions, with mounting inserts, without end barriers  
M=Open end positions, without mounting inserts, with end barriers  
P=All positions filled with contacts, with end barriers



**E No. of Circuits (Not Positions)**  
Must conform to mounting options  
02 to 32 circuits (P & H mounting)  
02 to 27 circuits (M, E, F & G mounting)

**F Terminal Style**  
01=Solder Tail  
02=Printed Circuit Pin  
03=Non-Feed Through (with C base only)  
04=Extended Printed Circuit Pin  
05=Quick Connects  
06=90° bend, .46" x .11" (with F base only)  
07=Wire Wrap  
08=90° bend, .75" x .11" (with F base only)  
12=90° bend, .21" x .65"  
13=90° bend, .36" x .50"  
14=90° bend, .41" x .16" (with F base only)  
15=90° bend, .51" x .35"  
16=90° bend, .32" x .25" (with F base only)

**G Top Hardware Options**  
00=No top hardware (Separately packaged binding head screws supplied at no cost)  
01=Bright zinc and chromate plated steel binding head screw  
02=Bright zinc and chromate plated steel screw and captive clamp - Do not order with other top hardware  
03=Stainless steel binding head screw  
04=Nickel plated brass binding head screw  
09=Nickel plated brass screw and captive clamp - Do not order with other top hardware

80=Single-sided solder tab  
81=Double-sided solder tab

**Quick-Connect Blades**  
(supplied with 01 screw)

| .250 wide<br>x.032<br>thick | .187 wide<br>x.020<br>thick |
|-----------------------------|-----------------------------|
| 20                          | 40=                         |
| 21                          | 41=                         |
| 22                          | 42=                         |
| 23                          | 43=                         |
| 24                          | 44=                         |
| 25                          | 45=                         |
| 26                          | 46=                         |
| 27                          | 47=                         |
| 28                          | 48=                         |
| 29                          | 49=                         |
| 30                          | 50=                         |
| 31                          | 51=                         |
| 32                          | 52=                         |
| 33                          | 53=                         |
| 34                          | 54=                         |
| 35                          | 55=                         |
| 36                          | 56=                         |

**H Circuit Identification Options**

|    |                     |
|----|---------------------|
| 11 | = 12345...          |
| 12 | = ...54321          |
| 13 | = 1 2 3 4 5 . . .   |
| 14 | = . . . 5 4 3 2 1   |
| 15 | = 12345... 12345... |
| 16 | = ...54321 ..54321  |

## 0.4375" [11.1] Pitch, Series SSB7 (Continued)

### Contact Spacing Options:

#### .4375 in (7/16") Spacing

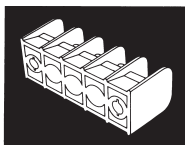
Extra thick barriers provide higher voltage rating. Up to 27 ckts. (25 circuits for end mounted blocks)

### Base Options:

#### Closed Base

##### Catalog Letter

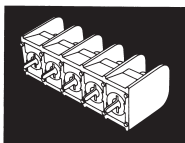
**Code: C.** For terminal junction-blocks requiring top connections only. Useful in applications requiring single point circuit terminations or circuit completion via top mounted, single- and two-sided quick-connects. Replace double-row barrier strips.



#### Flat Base

##### Catalog Letter

**Code: F.** Lends itself most readily to applications where direct top-to-bottom feed-through is required with no special requirement for circuit isolation on the bottom side. The most common example of this is printed circuit board mounting.



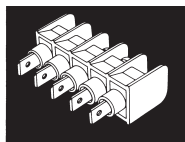
#### Raised Base

**Catalog Letter Code R.** Standoffs between each circuit raise block .030" above mounting surface to allow flux and solvents to drain during soldering operations. Available only with 02 and 04 bottom terminals.

#### Turret Base

##### Catalog Letter Code: T. Combines

top-to-bottom feed-through with bottom-side circuit isolation for panels up to .126" thick. Turret bases are available with the following terminals: solder tail, quick connect, machine wrap, extended circuit board terminal, and right-angle.



### Mounting Options:

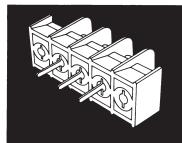
#### End Position

#### Mounting

##### Catalog Letter

**Codes: E, F, G or M.** Supplied

without contacts in end sections to allow installer to mount blocks with screws in end section holes. Base of block will support mounting screws (Codes F & M). Also available with mounting inserts installed in end mounting holes to raise mounting screw heads to the level of other top hardware (Codes E & G).



#### Without End Barriers

##### Catalog Letter Codes: F, G & H.

Facilitates mounting-screw access when end sections are used for mounting.

#### Direct Mounting

**Catalog Letter Codes: P & H.** SSBs may be solder-mounted using the bottom terminals themselves, as in the case of printed circuit board applications.

Direct mounting is also possible with turret base models using press-on retaining clips (Catalog No. L97, Part Number 1437661-7) on turrets.

### Hardware Options

**7C1xxx**—Safety cover, see page 175

**QC2x**—.250 Quick connects, see page 176

**QC4x**—.187 Quick connects, see page 176

**ST80**—Single sided solder tabs, see page 176

**1776090-x**—Extra long Quick connects, see page 176

**J7**—Jumpers, see page 177

**L91**—Mounting insert, see page 178

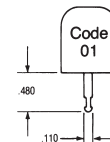
**L92**—Angle bracket, see page 178

### Terminal Style:

#### Solder Tail

##### Catalog Number

**Code: 01.** For applications requiring a wrapped solder connection.

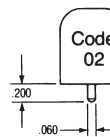


#### Printed Circuit Pin

##### Catalog Number

**Code: 02.**

Designed specifically for mounting on .063" thick circuit board. Special, readily solderable plating permits good fillet development in automated soldering processes.



#### Non-Feed-Through

##### Catalog Number

**Code: 03.**

With closed base option only.



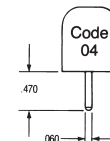
#### Extended Printed

##### Circuit Pin

##### Catalog Number

**Code: 04.**

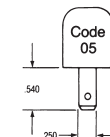
Useful where extra length is needed, as in thicker printed circuit boards or single-wrap connections.



#### Quick Connect

##### Catalog Number Code:

**05.** .250 in. wide x .032" thick blades accept .250" female quick connects.



## 0.4375" [11.1] Pitch, Series SSB7 (Continued)

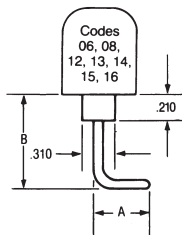
### Mounting Position:

#### Right-Angle

**Catalog Number**  
**Codes: 06, 08, 12,**  
**13, 14, 15, 16.**

Seven variations of right-angle contacts are available.

Designed for circuit board and panel applications, this option saves space when printed circuit boards are stacked closely together. It provides access to top connections in restricted spaces. Mount with angle brackets. (Catalog No. L92).



| Catalog No.<br>Code | A<br>in. | B<br>in. |
|---------------------|----------|----------|
| 06*                 | 0.46     | 0.11     |
| 08*                 | 0.75     | 0.11     |
| 12                  | 0.21     | 0.65     |
| 13                  | 0.36     | 0.50     |
| 14*                 | 0.41     | 0.16     |
| 15                  | 0.51     | 0.35     |
| 16*                 | 0.32     | 0.25     |

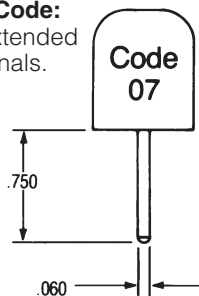
\*Not available with turret base

#### Wire Wrap

**Catalog Number Code:**

**07.** Longer than extended circuit board terminals.

Post alignment is compatible with tolerances required for automatic wire wrapping equipment. Post dimensions are compatible with standard wire wrapping bits.



### Top Hardware Options:

#### Binding Head Screws

In most applications, binding head screws will provide excellent wire retention because of exclusive wire locking tabs. These binding head screws are available in 3 materials identified by codes 01, 02, and 03.



**Catalog Number Code:**

- 01** Bright Zinc and Chromate Plated Steel
- 02** Stainless Steel
- 03** Nickel Plated Brass

#### Captive Clamp

For applications requiring extra security, captive clamps under the screw heads augment the locking tabs on each contact. Screws have a unique Phil-slot design accepting either Phillips-head or straight screwdriver. Code 02 screw is Bright Zinc and Chromate plated steel. Code 09 screw is Nickel plated Brass.

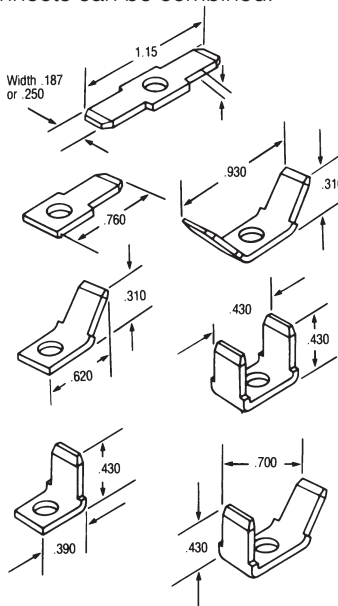


**Catalog Number Code:**

- 02** Bright Zinc and Chromate Plated Steel
- 09** Nickel Plated Brass

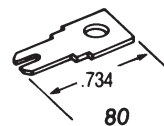
**Catalog Number Codes: 20 through**

**56.** A complete selection of .187" and .250" quick-connect blades are available for connecting wire terminated with female quick connects. Single- and double-sided types in flat, 45° and 90° angle bends can be supplied. Material is brass with tin plating. All blades supplied with 01 screws. Various quick-connects can be combined.



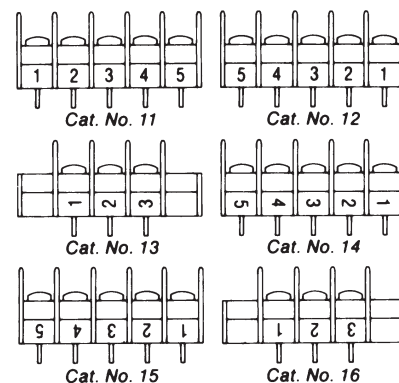
### Solder Tabs

**Catalog Number Code: 80.** Single-sided, slotted solder tabs are available for making wrapped solder connections on the top side of SSBs.



### Circuit Identification Options:

**Catalog Number Codes: 11 through 16.** SSB blocks may be ordered with circuit identification numbers in white on the molding in six different variations. Custom markings are available on special order.



### Molding Material Options:

The standard SSB molding material is UL94V-2 polypropylene. Consult Technical Support for other materials available on special order.

### Molding Color Options:

SSB blocks are stocked in black. Consult Technical Support for availability of other colors.

## Double-Row, Dual-Barrier Strips

### Product Facts

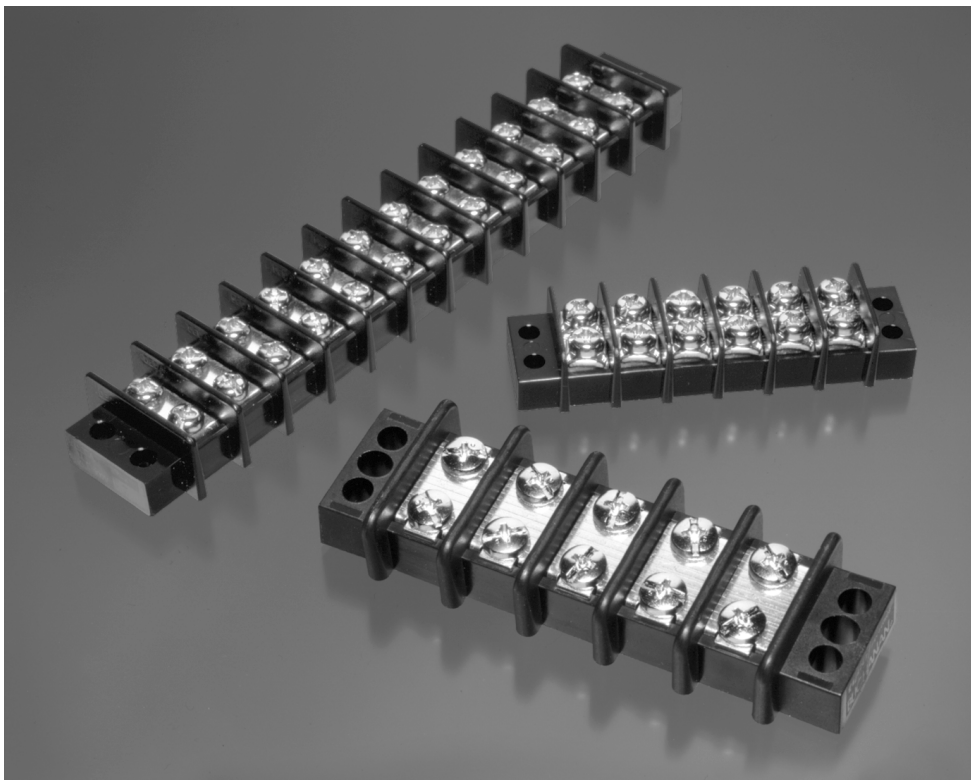
- Double-row, dual barrier strips for wire-to-wire applications. These parts also allow end users to complete the wiring to a separate screw without disturbing the factory wiring.
- Available with either binding head screws or wire clamp
- Increased current-carrying capability

### Applications

- Industrial Controls
- Test Equipment
- HVAC
- Power Supplies
- Traffic Signals
- Telecom

### Key Features

- Closed bottom design allows for mounting direct to sheet metal panel
- Molded to length
- Accessories such as Quick-Connect Tabs and Jumpers available
- Wire-to-wire termination:
  - .374 [9.5] centerline:  
Up to 30 positions
  - .433 [11.0] centerline:  
Up to 26 positions
  - .437 [11.1] centerline:  
Up to 26 positions
  - .563 [14.3] centerline:  
Up to 18 positions
- RoHS Compliant



## Double-Row, Dual-Barrier Strips (Continued)

### .374 [9.5] Centerline

#### Material & Finish

**Insulator Body**—UL94V-0,  
thermoplastic, black

**Terminals**—Brass, tin plated

**Screw**—#6-32 steel, nickel plated

#### Mechanical Properties

**Screw Torque**—12 in-lb

#### Electrical Properties

**Current Rating**—20 A, 300 VAC

**Wire Range**—12-22 AWG

**Withstanding Voltage**—2000 VAC  
min.

#### Environmental Properties

**Operating Temperature**—  
-40°F to +221°F [-40°C to +120°C]

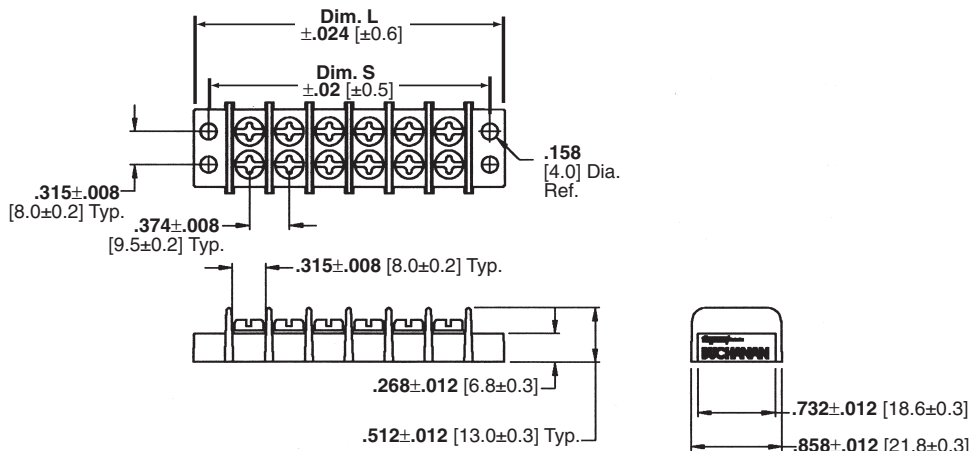
#### Hardware Options

**J6140**—Spade jumper, see page 177

**J6240**—Flanged spade jumper, see  
page 177

**J6340**—Ring tongue jumper, see page  
177

**J6**—Spade jumper, see page 177



| No. of<br>Positions | Dimension     |               | Part Numbers             |                        |
|---------------------|---------------|---------------|--------------------------|------------------------|
|                     | L             | S             | w/Binding Head<br>Screws | w/Wire<br>Clamp Screws |
| 2                   | 1.42 [36.2]   | 1.13 [28.7]   | 1546306-2                | 1546307-2              |
| 3                   | 1.80 [45.7]   | 1.50 [38.2]   | 1546306-3                | 1546307-3              |
| 4                   | 2.17 [55.2]   | 1.88 [47.7]   | 1546306-4                | 1546307-4              |
| 5                   | 2.55 [64.7]   | 2.25 [57.2]   | 1546306-5                | 1546307-5              |
| 6                   | 2.92 [74.2]   | 2.63 [66.7]   | 1546306-6                | 1546307-6              |
| 7                   | 3.30 [83.7]   | 3.00 [76.2]   | 1546306-7                | 1546307-7              |
| 8                   | 3.67 [93.2]   | 3.37 [85.7]   | 1546306-8                | 1546307-8              |
| 9                   | 4.05 [103.0]  | 3.75 [95.2]   | 1546306-9                | 1546307-9              |
| 10                  | 4.41 [112.0]  | 4.13 [105.0]  | 1-1546306-0              | 1-1546307-0            |
| 11                  | 4.80 [122.0]  | 4.49 [114.0]  | 1-1546306-1              | 1-1546307-1            |
| 12                  | 5.16 [131.0]  | 4.88 [124.0]  | 1-1546306-2              | 1-1546307-2            |
| 13                  | 5.55 [141.0]  | 5.24 [133.0]  | 1-1546306-3              | 1-1546307-3            |
| 14                  | 5.91 [150.0]  | 5.63 [143.0]  | 1-1546306-4              | 1-1546307-4            |
| 15                  | 6.30 [160.0]  | 5.98 [152.0]  | 1-1546306-5              | 1-1546307-5            |
| 16                  | 6.65 [169.0]  | 6.38 [162.0]  | 1-1546306-6              | 1-1546307-6            |
| 17                  | 7.05 [179.0]  | 6.73 [171.0]  | 1-1546306-7              | 1-1546307-7            |
| 18                  | 7.40 [188.0]  | 7.13 [181.0]  | 1-1546306-8              | 1-1546307-8            |
| 19                  | 7.79 [198.0]  | 7.48 [190.0]  | 1-1546306-9              | 1-1546307-9            |
| 20                  | 8.15 [207.0]  | 7.87 [200.0]  | 2-1546306-0              | 2-1546307-0            |
| 21                  | 8.54 [217.0]  | 8.23 [209.0]  | 2-1546306-1              | 2-1546307-1            |
| 22                  | 8.90 [226.0]  | 8.62 [219.0]  | 2-1546306-2              | 2-1546307-2            |
| 23                  | 9.29 [236.0]  | 8.98 [228.0]  | 2-1546306-3              | 2-1546307-3            |
| 24                  | 9.65 [245.0]  | 9.37 [238.0]  | 2-1546306-4              | 2-1546307-4            |
| 25                  | 10.04 [255.0] | 9.72 [247.0]  | 2-1546306-5              | 2-1546307-5            |
| 26                  | 10.39 [264.0] | 10.12 [257.0] | 2-1546306-6              | 2-1546307-6            |
| 27                  | 10.79 [274.0] | 10.47 [266.0] | 2-1546306-7              | 2-1546307-7            |
| 28                  | 11.14 [283.0] | 10.87 [276.0] | 2-1546306-8              | 2-1546307-8            |
| 29                  | 11.54 [293.0] | 11.22 [285.0] | 2-1546306-9              | 2-1546307-9            |
| 30                  | 11.89 [302.0] | 11.61 [295.0] | 3-1546306-0              | 3-1546307-0            |

## Double-Row, Dual-Barrier Strips (Continued)

### .433 [11.0] Centerlines

#### Material & Finish

**Insulator Body**—UL94V-0,  
thermoplastic, black

**Terminals**—Brass, tin plated

**Screw**—#6-32 steel, nickel plated

#### Mechanical Properties

**Screw Torque**—12 in-lb

#### Electrical Properties

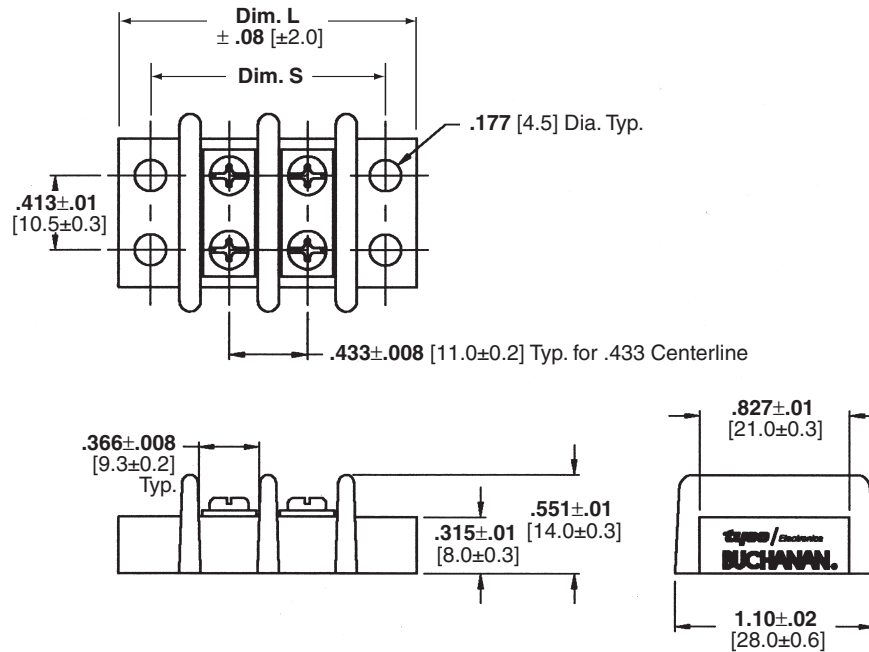
**Current Rating**—20 A, 300 VAC

**Wire Range**—14-22 AWG

**Withstanding Voltage**—2000 VAC  
min.

#### Environmental Properties

**Operating Temperature**—  
-40°F to +221°F [-40°C to +120°C]



| No. of<br>Positions | Dimension     |                | Part Numbers             |                        |
|---------------------|---------------|----------------|--------------------------|------------------------|
|                     | L             | S              | w/Binding Head<br>Screws | w/Wire<br>Clamp Screws |
| 2                   | 1.65 [41.8]   | 1.264 [32.1]   | 1546481-2                | 1546477-2              |
| 3                   | 2.08 [52.8]   | 1.697 [43.1]   | 1546481-3                | 1546477-3              |
| 4                   | 2.51 [63.8]   | 2.130 [54.1]   | 1546481-4                | 1546477-4              |
| 5                   | 2.94 [74.8]   | 2.563 [65.1]   | 1546481-5                | 1546477-5              |
| 6                   | 3.38 [85.8]   | 2.996 [76.1]   | 1546481-6                | 1546477-6              |
| 7                   | 3.81 [96.8]   | 3.429 [87.1]   | 1546481-7                | 1546477-7              |
| 8                   | 4.24 [107.8]  | 3.862 [98.1]   | 1546481-8                | 1546477-8              |
| 9                   | 4.68 [118.8]  | 4.295 [109.1]  | 1546481-9                | 1546477-9              |
| 10                  | 5.11 [129.8]  | 4.728 [120.1]  | 1-1546481-0              | 1-1546477-0            |
| 11                  | 5.54 [140.8]  | 5.161 [131.1]  | 1-1546481-1              | 1-1546477-1            |
| 12                  | 5.98 [151.8]  | 5.594 [142.1]  | 1-1546481-2              | 1-1546477-2            |
| 13                  | 6.41 [162.8]  | 6.028 [153.1]  | 1-1546481-3              | 1-1546477-3            |
| 14                  | 6.84 [173.8]  | 6.461 [164.1]  | 1-1546481-4              | 1-1546477-4            |
| 15                  | 7.27 [184.8]  | 6.894 [175.1]  | 1-1546481-5              | 1-1546477-5            |
| 16                  | 7.71 [195.8]  | 7.327 [186.1]  | 1-1546481-6              | 1-1546477-6            |
| 17                  | 8.14 [206.8]  | 7.760 [197.1]  | 1-1546481-7              | 1-1546477-7            |
| 18                  | 8.57 [217.8]  | 8.193 [208.1]  | 1-1546481-8              | 1-1546477-8            |
| 19                  | 9.01 [228.8]  | 8.626 [219.1]  | 1-1546481-9              | 1-1546477-9            |
| 20                  | 9.44 [239.8]  | 9.059 [230.1]  | 2-1546481-0              | 2-1546477-0            |
| 21                  | 9.87 [250.8]  | 9.492 [241.1]  | 2-1546481-1              | 2-1546477-1            |
| 22                  | 10.31 [261.8] | 9.925 [252.1]  | 2-1546481-2              | 2-1546477-2            |
| 23                  | 10.74 [272.8] | 10.358 [263.1] | 2-1546481-3              | 2-1546477-3            |
| 24                  | 11.17 [283.8] | 10.791 [274.1] | 2-1546481-4              | 2-1546477-4            |
| 25                  | 11.61 [294.8] | 11.224 [285.1] | 2-1546481-5              | 2-1546477-5            |
| 26                  | 12.04 [305.8] | 11.657 [296.1] | 2-1546481-6              | 2-1546477-6            |

## Double-Row, Dual-Barrier Strips (Continued)

### .437 [11.1] Centerlines

#### Material & Finish

**Insulator Body**—UL94V-0,  
thermoplastic, black

**Terminals**—Brass, tin plated

**Screw**—#6-32 steel, nickel plated

#### Mechanical Properties

**Screw Torque**—12 in-lb

#### Electrical Properties

**Current Rating**—20 A, 300 VAC

**Wire Range**—14-22 AWG

**Withstanding Voltage**—2000 VAC  
min.

#### Environmental Properties

**Operating Temperature**—  
-40°F to +221°F [-40°C to +120°C]

#### Hardware Options

**1776110-x**—Single-sided Quick  
Connects, see page 176

**1776057-x**—Two-sided Quick  
Connects, see page 176

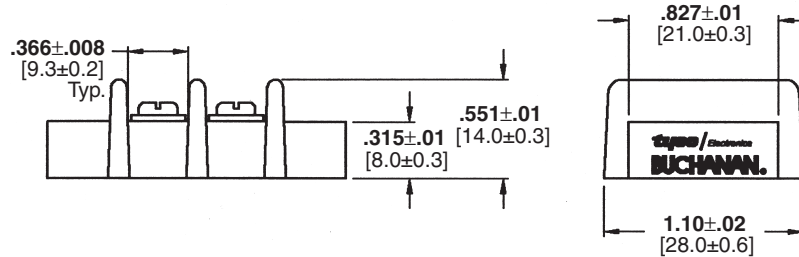
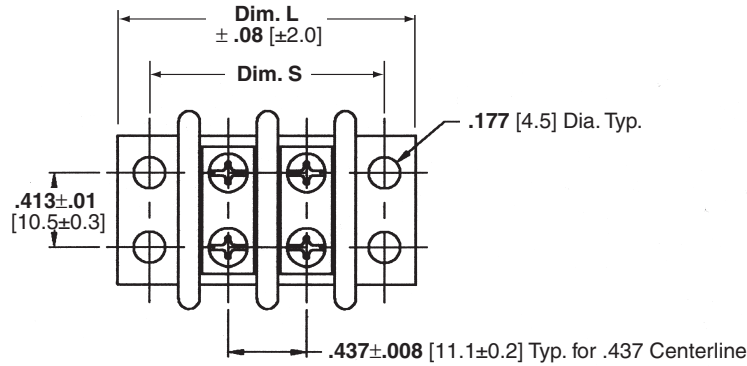
**J7**—Spade jumper, see page 177

**J7140**—Spade jumper, see page 177

**J7240**—Flanged jumper, see page 177

**J7340**—Ring tongue jumper,  
see page 177

**J76**—Over-the-barrier jumper,  
see page 177



| No. of<br>Positions | Dimension     |                | Part Numbers             |                        |
|---------------------|---------------|----------------|--------------------------|------------------------|
|                     | L             | S              | w/Binding Head<br>Screws | w/Wire<br>Clamp Screws |
| 2                   | 1.62 [41.2]   | 1.264 [32.1]   | 1546670-2                | 1546671-2              |
| 3                   | 2.06 [52.3]   | 1.697 [43.1]   | 1546670-3                | 1546671-3              |
| 4                   | 2.50 [63.4]   | 2.130 [54.1]   | 1546670-4                | 1546671-4              |
| 5                   | 2.93 [74.5]   | 2.563 [65.1]   | 1546670-5                | 1546671-5              |
| 6                   | 3.37 [85.6]   | 2.996 [76.1]   | 1546670-6                | 1546671-6              |
| 7                   | 3.81 [96.7]   | 3.429 [87.1]   | 1546670-7                | 1546671-7              |
| 8                   | 4.24 [107.8]  | 3.862 [98.1]   | 1546670-8                | 1546671-8              |
| 9                   | 4.68 [118.9]  | 4.295 [109.1]  | 1546670-9                | 1546671-9              |
| 10                  | 5.12 [130.0]  | 4.728 [120.1]  | 1-1546670-0              | 1-1546671-0            |
| 11                  | 5.55 [141.1]  | 5.161 [131.1]  | 1-1546670-1              | 1-1546671-1            |
| 12                  | 5.99 [152.2]  | 5.594 [142.1]  | 1-1546670-2              | 1-1546671-2            |
| 13                  | 6.43 [163.3]  | 6.028 [153.1]  | 1-1546670-3              | 1-1546671-3            |
| 14                  | 6.87 [174.4]  | 6.461 [164.1]  | 1-1546670-4              | 1-1546671-4            |
| 15                  | 7.30 [185.5]  | 6.894 [175.1]  | 1-1546670-5              | 1-1546671-5            |
| 16                  | 7.74 [196.6]  | 7.327 [186.1]  | 1-1546670-6              | 1-1546671-6            |
| 17                  | 8.18 [207.7]  | 7.760 [197.1]  | 1-1546670-7              | 1-1546671-7            |
| 18                  | 8.61 [218.8]  | 8.193 [208.1]  | 1-1546670-8              | 1-1546671-8            |
| 19                  | 9.05 [229.9]  | 8.626 [219.1]  | 1-1546670-9              | 1-1546671-9            |
| 20                  | 9.49 [241.0]  | 9.059 [230.1]  | 2-1546670-0              | 2-1546671-0            |
| 21                  | 9.93 [252.1]  | 9.492 [241.1]  | 2-1546670-1              | 2-1546671-1            |
| 22                  | 10.36 [263.2] | 9.925 [252.1]  | 2-1546670-2              | 2-1546671-2            |
| 23                  | 10.80 [274.3] | 10.358 [263.1] | 2-1546670-3              | 2-1546671-3            |
| 24                  | 11.24 [285.4] | 10.791 [274.1] | 2-1546670-4              | 2-1546671-4            |
| 25                  | 11.67 [296.5] | 11.224 [285.1] | 2-1546670-5              | 2-1546671-5            |
| 26                  | 12.11 [307.6] | 11.657 [296.1] | 2-1546670-6              | 2-1546671-6            |

## Double-Row, Dual-Barrier Strips (Continued)

### .563 [14.3] Centerline

#### Material & Finish

**Insulator Body**—UL94V-0,  
thermoplastic, black

**Terminals**—Brass, tin plated

**Screw**—M4.0 steel, nickel plated

#### Mechanical Properties

**Screw Torque**—16 in-lb

#### Electrical Properties

**Current Rating**—30 A, 300 VAC

**Wire Range**—10-22 AWG

**Withstanding Voltage**—2000 VAC  
min.

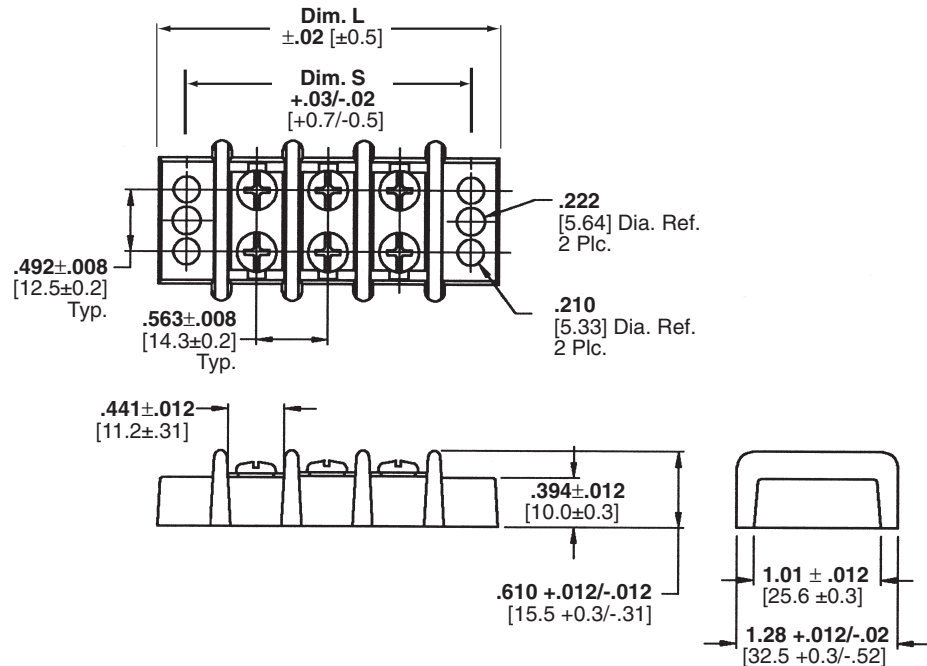
#### Environmental Properties

**Operating Temperature**—  
-40°F to +284°F [-40°C to +140°C]

#### Hardware Options

**1776174-x**—Single-sided Quick  
Connects, see page 176

**1776173-x**—Two-sided Quick  
Connects, see page 176



| No. of<br>Positions | Dimension     |               | Part Numbers           |                          |
|---------------------|---------------|---------------|------------------------|--------------------------|
|                     | L             | S             | w/Wire<br>Clamp Screws | w/Binding Head<br>Screws |
| 2                   | 2.13 [54.0]   | 1.69 [42.9]   | 1546311-2              | 1546310-2                |
| 3                   | 2.69 [68.3]   | 2.25 [57.2]   | 1546311-3              | 1546310-3                |
| 4                   | 3.25 [82.6]   | 2.81 [71.5]   | 1546311-4              | 1546310-4                |
| 5                   | 3.81 [96.9]   | 3.38 [85.8]   | 1546311-5              | 1546310-5                |
| 6                   | 4.38 [111.2]  | 3.94 [100.1]  | 1546311-6              | 1546310-6                |
| 7                   | 4.94 [125.5]  | 4.50 [114.4]  | 1546311-7              | 1546310-7                |
| 8                   | 5.50 [139.8]  | 5.07 [128.7]  | 1546311-8              | 1546310-8                |
| 9                   | 6.08 [154.1]  | 5.63 [143.0]  | 1546311-9              | 1546310-9                |
| 10                  | 6.63 [168.4]  | 6.19 [157.3]  | 1-1546311-0            | 1-1546310-0              |
| 11                  | 7.19 [182.7]  | 6.76 [171.6]  | 1-1546311-1            | 1-1546310-1              |
| 12                  | 7.75 [197.0]  | 7.32 [185.9]  | 1-1546311-2            | 1-1546310-2              |
| 13                  | 8.32 [211.3]  | 7.88 [200.2]  | 1-1546311-3            | 1-1546310-3              |
| 14                  | 8.88 [225.6]  | 8.44 [214.5]  | 1-1546311-4            | 1-1546310-4              |
| 15                  | 9.44 [239.9]  | 9.01 [228.8]  | 1-1546311-5            | 1-1546310-5              |
| 16                  | 10.02 [254.5] | 9.57 [243.1]  | 1-1546311-6            | 1-1546310-6              |
| 17                  | 10.57 [268.5] | 10.13 [257.4] | 1-1546311-7            | 1-1546311-7              |
| 18                  | 11.13 [282.8] | 10.70 [271.7] | 1-1546311-8            | 1-1546310-8              |

## Double-Row, Dual-Barrier Strips w/o Washer

### .563 [14.3] Centerline

#### Material & Finish

**Insulator Body**—UL94V-0,  
thermoplastic, black

**Terminals**—Brass, tin plated

**Screw**—M4.0 steel, nickel plated

#### Mechanical Properties

**Screw Torque**—14 in-lb

#### Electrical Properties

**Current Rating**—30 A, 600 VAC

**Wire Range**—10-22 AWG

**Withstanding Voltage**—2000 VAC  
min.

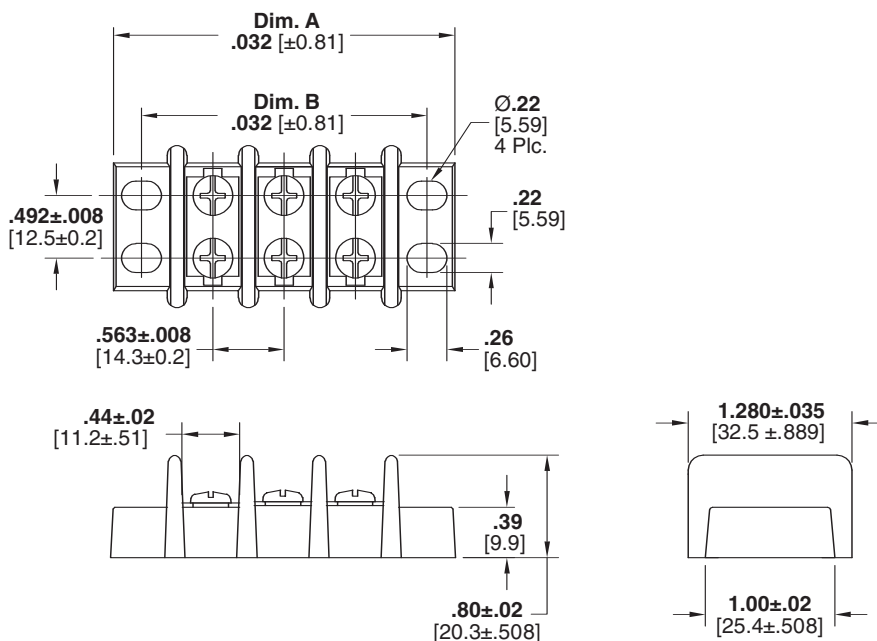
#### Environmental Properties

**Operating Temperature**—  
-40°F to +120°F [-40°C to +49°C]

#### Hardware Options

**1776174-x**—Single-sided Quick  
Connects, see page 176

**1776173-x**—Two-sided Quick  
Connects, see page 176



| No. of<br>Positions | Dimension     |               | Part Numbers           |                          |
|---------------------|---------------|---------------|------------------------|--------------------------|
|                     | L             | S             | w/Wire<br>Clamp Screws | w/Binding Head<br>Screws |
| 2                   | 2.13 [54.0]   | 1.69 [42.9]   | 1776544-2              | 1986158-2                |
| 3                   | 2.69 [68.3]   | 2.25 [57.2]   | 1776544-3              | 1986158-3                |
| 4                   | 3.25 [82.6]   | 2.81 [71.5]   | 1776544-4              | 1986158-4                |
| 5                   | 3.81 [96.9]   | 3.38 [85.8]   | 1776544-5              | 1986158-5                |
| 6                   | 4.38 [111.2]  | 3.94 [100.1]  | 1776544-6              | 1986158-6                |
| 7                   | 4.94 [125.5]  | 4.50 [114.4]  | 1776544-7              | 1986158-7                |
| 8                   | 5.50 [139.8]  | 5.07 [128.7]  | 1776544-8              | 1986158-8                |
| 9                   | 6.08 [154.1]  | 5.63 [143.0]  | 1776544-9              | 1986158-9                |
| 10                  | 6.63 [168.4]  | 6.19 [157.3]  | 1-176544-0             | 1-1986158-0              |
| 11                  | 7.19 [182.7]  | 6.76 [171.6]  | 1-176544-1             | 1-1986158-1              |
| 12                  | 7.75 [197.0]  | 7.32 [185.9]  | 1-176544-2             | 1-1986158-2              |
| 13                  | 8.32 [211.3]  | 7.88 [200.2]  | 1-176544-3             | 1-1986158-3              |
| 14                  | 8.88 [225.6]  | 8.44 [214.5]  | 1-176544-4             | 1-1986158-4              |
| 15                  | 9.44 [239.9]  | 9.01 [228.8]  | 1-176544-5             | 1-1986158-5              |
| 16                  | 10.02 [254.5] | 9.57 [243.1]  | 1-176544-6             | 1-1986158-6              |
| 17                  | 10.57 [268.5] | 10.13 [257.4] | 1-176544-7             | 1-1986158-7              |
| 18                  | 11.13 [282.8] | 10.70 [271.7] | 1-176544-8             | 1-1986158-8              |

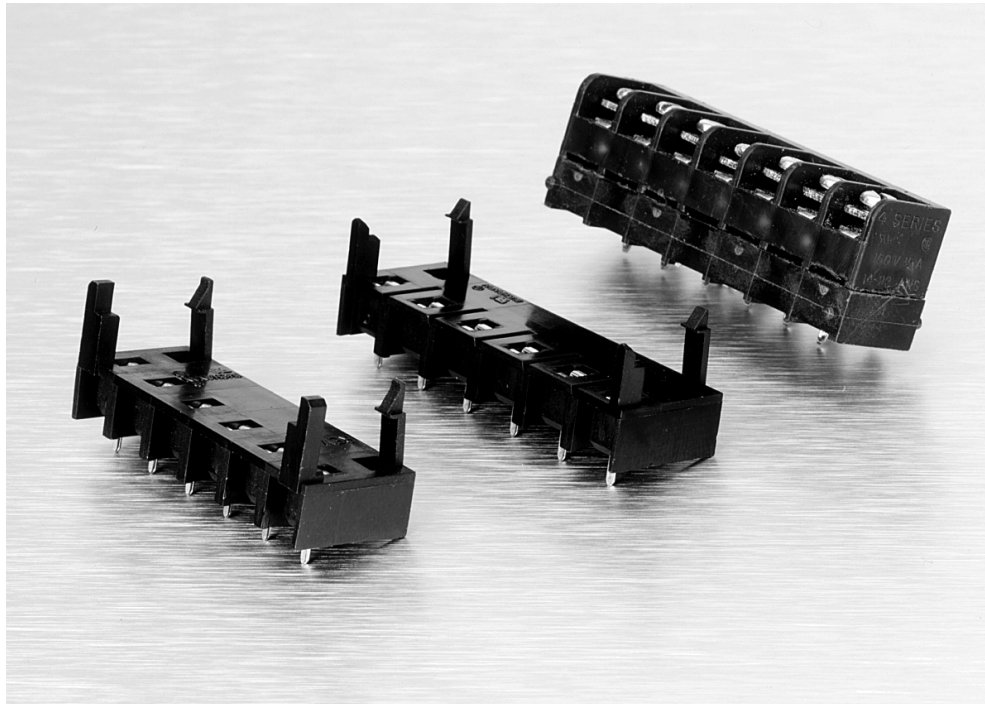
## Barrier Strip Sockets

Mateability for the socket  
line is given below:

| Socket<br>Series | Connector<br>Series |
|------------------|---------------------|
| USB              | RSB3, SSB3          |
| RSB6B            | RSB6                |

### Product Facts

- End-to-end mounting of USB sockets maintain circuit spacing: Two 12-circuit USB sockets can mate with one 24-circuit SSB3 or RSB3.
- Secure mating with built-in locking arms

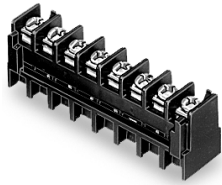


This unique plug-in socket line allows quick connection of circuits simultaneously without the use of tools.

They are designed to be wave-soldered to a PC board, after which the connector is plugged into the socket.

## 0.325" [8.26] Pitch, Series USB Socket (for Series RSB3 and SSB3)

### USB3B08S & SSB3FP080202



#### Material & Finish

**Housing Material**—Polyamide, Type 6/6

**Flammability**—UL94V-2

**Color**—Black

**Terminals Contact**—Copper alloy, bright tin plating

**Pin**—Copper alloy, bright tin plating

#### Mechanical Properties

**Pitch (Terminal Spacing)**—  
0.325" [8.26]

**Recommended PCB Hole Dia.**—  
.055" [1.40]

**Pullout Force**—5-7 lbs.

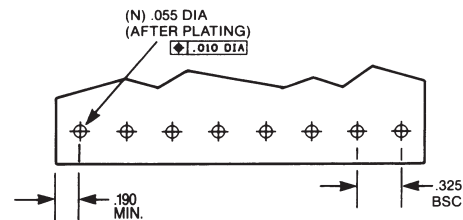
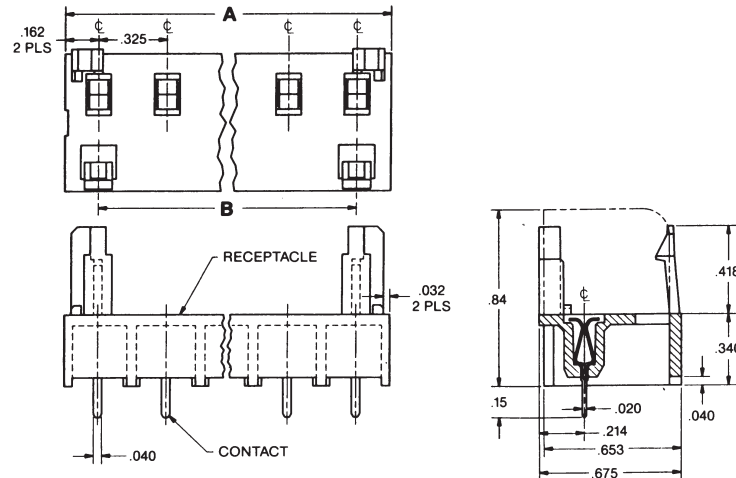
#### Electrical Properties

**Ratings**—UL Class B 10 Amps, 300V  
CSA Type B 15 Amps, 300V  
CSA Type D 10 Amps, 300V

**Dielectric Withstand**—3500V

#### Environmental Properties

**Operating Temperature Range**—  
-60°C to +105°C [-76°F to +221°F]



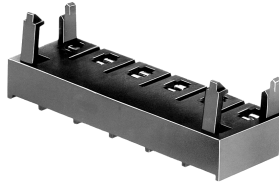
**Recommended PCB Hole Pattern**

| No. of<br>Circuits | Dimensions |       | Dual-Barrier Mating Strip<br>Catalog Number | Tri-Barrier Mating Strip<br>Catalog Number | Catalog<br>Number |
|--------------------|------------|-------|---------------------------------------------|--------------------------------------------|-------------------|
|                    | A          | B     |                                             |                                            |                   |
| 2                  | 0.650      | 0.325 | SSB3FP0202...                               | RSB3VP0212...                              | USB3B02S          |
| 3                  | 0.975      | 0.650 | SSB3FP0302...                               | RSB3VP0312...                              | USB3B03S          |
| 4                  | 1.300      | 0.975 | SSB3FP0402...                               | RSB3VP0412...                              | USB3B04S          |
| 5                  | 1.625      | 1.300 | SSB3FP0502...                               | RSB3VP0512...                              | USB3B05S          |
| 6                  | 1.950      | 1.625 | SSB3FP0602...                               | RSB3VP0612...                              | USB3B06S          |
| 7                  | 2.275      | 1.950 | SSB3FP0702...                               | RSB3VP0712...                              | USB3B07S          |
| 8                  | 2.600      | 2.275 | SSB3FP0802...                               | RSB3VP0812...                              | USB3B08S          |
| 9                  | 2.925      | 2.600 | SSB3FP0902...                               | RSB3VP0912...                              | USB3B09S          |
| 10                 | 3.250      | 2.925 | SSB3FP1002...                               | RSB3VP1012...                              | USB3B10S          |
| 11                 | 3.575      | 3.250 | SSB3FP1102...                               | RSB3VP1112...                              | USB3B11S          |
| 12                 | 3.900      | 3.575 | SSB3FP1202...                               | RSB3VP1212...                              | USB3B12S          |
| 13                 | 4.225      | 3.900 | SSB3FP1302...                               | RSB3VP1312...                              | USB3B13S          |
| 14                 | 4.550      | 4.225 | SSB3FP1402...                               | RSB3VP1412...                              | USB3B14S          |

**Note:** See page 165 to complete mating Tri-Barrier Strip Catalog Number.  
See page 169 to complete mating Dual-Barrier Strip Catalog Number.

## 0.375" [9.53] Pitch, Series RSB6B Socket (for Series RSB6 Tri-Barrier)

### RSB6B06S



#### Material & Finish

**Housing Material**—Polyamide

**Flammability**—UL94V-2

**Color**—Black

**Terminals**—Copper alloy, bright tin plating

**Pin**—Copper alloy, bright tin plating

#### Mechanical Properties

**Pitch (Terminal Spacing)**—

.375 in [9.53]

**Recommended PCB Hole Dia.**—  
.062" [1.57]

#### Electrical Properties

**Ratings**—UL Class B 20 Amps, 300V

CSA Type B 10 Amps, 300V

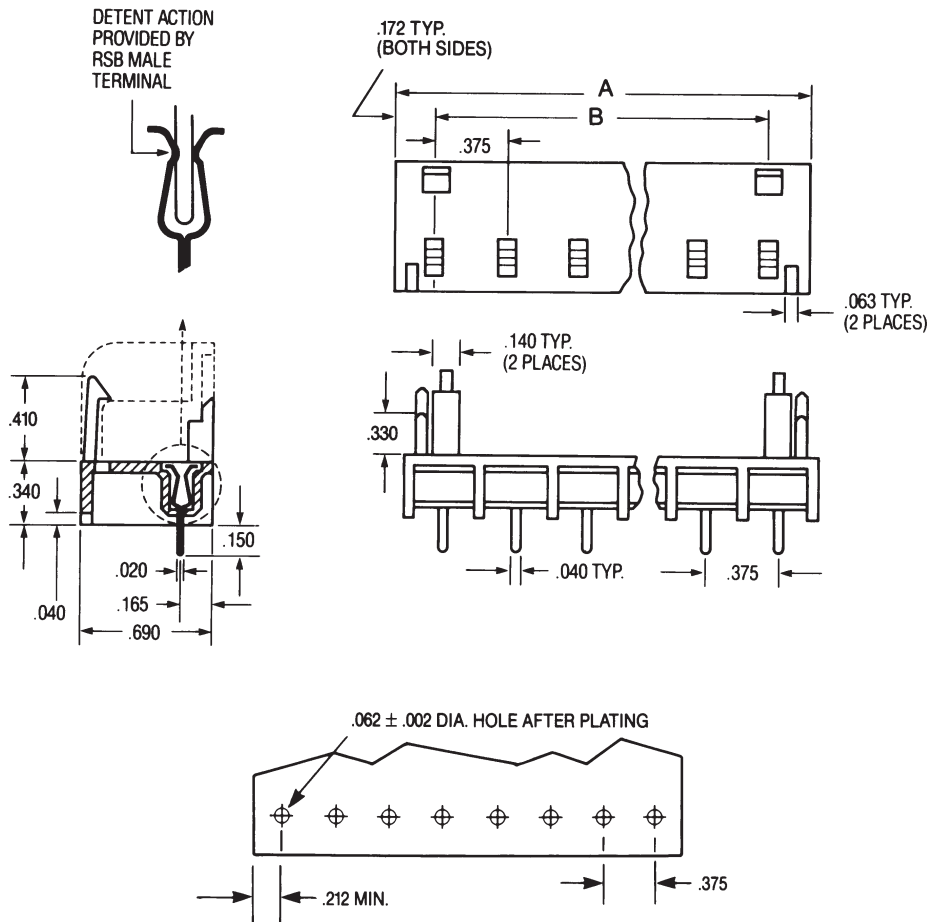
CSA Type D 5 Amps, 600V

**Dielectric Withstand**—3500V

#### Environmental Properties

**Operating Temperature Range**—

-60°C to +105°C [-76°F to +221°F]



Recommended PCB Hole Pattern

| No. of<br>Circuits | Dimensions |       | Catalog<br>Number |
|--------------------|------------|-------|-------------------|
|                    | A          | B     |                   |
| 02                 | 0.720      | 0.375 | RSB6B02S          |
| 03                 | 1.094      | 0.750 | RSB6B03S          |
| 04                 | 1.469      | 1.125 | RSB6B04S          |
| 05                 | 1.844      | 1.500 | RSB6B05S          |
| 06                 | 2.219      | 1.875 | RSB6B06S          |
| 07                 | 2.594      | 2.250 | RSB6B07S          |
| 08                 | 2.869      | 2.625 | RSB6B08S          |
| 09                 | 3.244      | 3.000 | RSB6B09S          |
| 10                 | 3.720      | 3.375 | RSB6B10S          |

**Note:** RSB6 Tri-Barrier Blocks should be ordered with Number 12 Terminal Style (printed circuit pin, V mounting) when used in combination with this plug-in socket. See page 172 for ordering information.

## 0.325" [8.26] Pitch, Series RSB3

### RSB3VP061202



#### Material & Finish

**Housing Material**—Polypropylene

**Flammability**—UL94V-2

**Color**—Black

**Terminals**—Brass w/bright Tin plating

**Screws**—Steel w/Zinc + Chromate plating

#### Mechanical Properties

**Pitch (Terminal Spacing)**—

.325 in [8.26]

**Screw Size**—6-32

**Recommended PCB Hole Dia.**—  
0.062"

**Wire Strip Length**—.31 in [7.87]

**Recommended Tightening**

**Torque**—9 in-lbs.

**Recommended Screwdrivers**—

Stanley 1006-4, Sears Craftsman 41581,  
Any #2 Phillips-Head

**Wire Lug Width (Max.)**—  
.265 in [6.73]

#### Electrical Properties

**Maximum Current**—15A

**Operating Voltage**—300V

**Wire Range**—#14-26 AWG

**Dielectric Withstand**—4000V

#### Environmental Properties

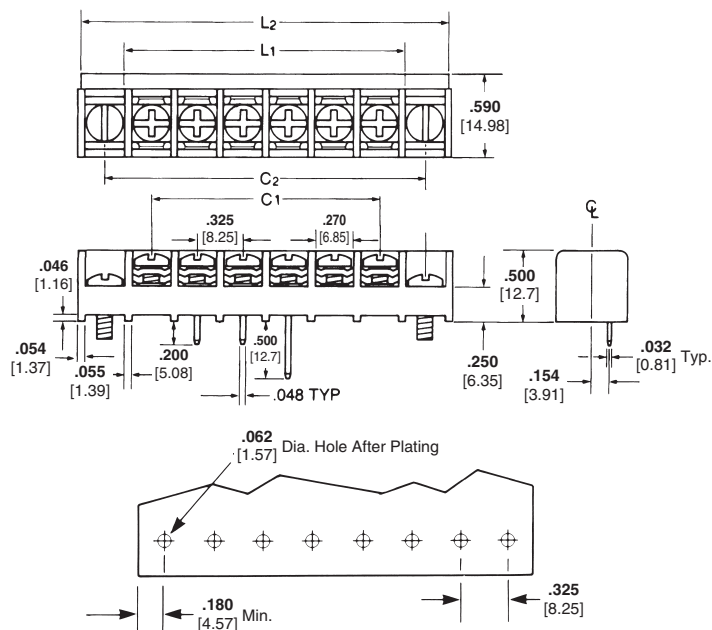
**Operating Temperature Range**—  
-60°C to +105°C [-76°F to +221°F]

For mating socket, see pg. 162.

#### Computing Barrier Block Lengths

**Direct Mounting**—Use C1 and L1 for  
Mounting Option "P".

**End Position Mounting**—Use C2 and  
L2 for Mounting Option "M".



#### Dimensions

| Circuits<br>(not positions) | C1<br>in. | L1*<br>in. | C2<br>in. | L2*<br>in. |
|-----------------------------|-----------|------------|-----------|------------|
| 02                          | 0.325     | 0.704      | 0.975     | 1.354      |
| 03                          | 0.650     | 1.029      | 1.300     | 1.679      |
| 04                          | 0.975     | 1.354      | 1.625     | 2.004      |
| 05                          | 1.300     | 1.679      | 1.950     | 2.329      |
| 06                          | 1.625     | 2.004      | 2.275     | 2.654      |
| 07                          | 1.950     | 2.329      | 2.600     | 2.979      |
| 08                          | 2.275     | 2.654      | 2.925     | 3.304      |
| 09                          | 2.600     | 2.797      | 3.250     | 3.629      |
| 10                          | 2.925     | 3.304      | 3.575     | 3.954      |
| 11                          | 3.250     | 3.629      | 3.900     | 4.279      |
| 12                          | 3.575     | 3.954      | 4.225     | 4.604      |
| 13                          | 3.900     | 4.279      | 4.550     | 4.929      |
| 14                          | 4.225     | 4.604      | 4.875     | 5.254      |
| 16                          | 4.875     | 5.254      | 5.525     | 5.904      |
| 17                          | 5.200     | 5.579      | 5.850     | 6.229      |
| 18                          | 5.525     | 5.904      | 6.175     | 7.554      |
| 19                          | 5.850     | 6.229      | 6.500     | 6.879      |
| 20                          | 6.175     | 6.554      | 6.825     | 7.204      |
| 21                          | 6.500     | 6.879      | 7.150     | 7.529      |
| 22                          | 6.825     | 7.204      | 7.475     | 7.854      |
| 23                          | 7.150     | 7.529      | 7.800     | 8.179      |
| 24                          | 7.475     | 7.854      | 8.125     | 8.504      |
| 25                          | 7.800     | 8.179      | 8.450     | 8.829      |
| 26                          | 8.125     | 8.504      | 8.775     | 9.154      |
| 27                          | 8.450     | 8.829      | 9.100     | 9.479      |
| 28                          | 8.775     | 9.154      | 9.425     | 9.804      |
| 29                          | 9.100     | 9.479      | 9.750     | 10.129     |
| 30                          | 9.425     | 9.804      | 10.075    | 10.454     |
| 31                          | 9.750     | 10.129     | 10.400    | 10.779     |
| 32                          | 10.075    | 10.454     | 10.725    | 11.104     |
| 33                          | 10.400    | 10.779     | 11.050    | 11.429     |
| 34                          | 10.725    | 11.104     | 11.357    | 11.754     |
| 35                          | 11.050    | 11.429     | —         | —          |
| 36                          | 11.357    | 11.754     | —         | —          |

\*L2 and L1 are based on molded-to-length strips.



LR25557



E63810

**0.325" [8.26] Pitch, Series RSB3 (Continued)**

**Ordering Information**

**RSB**   **3**   **V**   **P**   **06**   **12**   **02**   **11**

**A**   **B**   **C**   **D**   **E**   **F**   **G**   **H**

**A Single Screw Tri-Barrier Strip RSB**

**B Contact Spacing (Center-to-Center)**  
3=.325 in.

**C Mounting Position**  
V=Vertical Mounting

**D End Contact Mounting Options**  
M=End Position Mounting: open end positions with barriers.  
P=Direct Mounting: all positions filled with contacts, with barriers

**E No. of Circuits (Not Positions)**  
02 through 34 for M Option  
02 through 36 for P Option

**F Terminal Style**  
12=Printed Circuit Pin for use with USB3 Series Socket  
15=Superseded by 4 PCR per page 125  
17=Superseded by 4WWV, page 125

**G Top Hardware Options**

01=Bright zinc and chromate plated steel binding-head screw



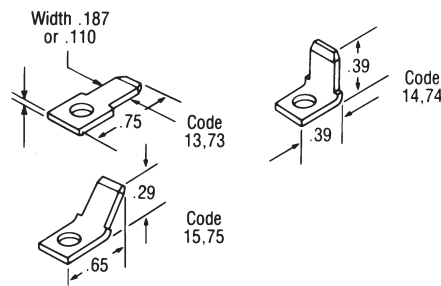
02=Bright zinc and chromate plated steel screw and captive clamp – Do not order in combination with other top hardware.



**Quick-Connect Blades**  
(supplied with 01 screw)

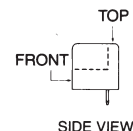
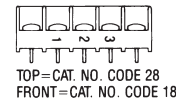
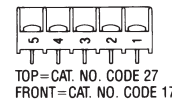
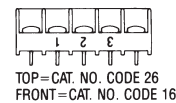
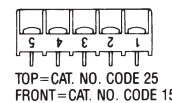
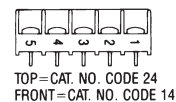
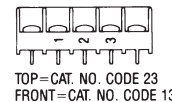
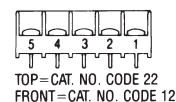
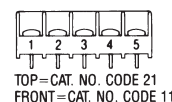
| .110 wide   | .187 wide   |
|-------------|-------------|
| x.020 thick | x.020 thick |
| 13          | 73=         |
| 14          | 74=         |
| 15          | 75=         |

**Catalog Number Codes:** 13 through 15 and 73 through 75. A complete selection of .187" and .110" quick-connect blades for connecting wire terminated with female quick connects. Single-sided types in flat, 45° and 90° angle bends can be supplied. Material is brass with tin plating. All blades supplied with 01 screws. Various quick-connects can be combined.



**H Circuit Identification Options**

Catalog Number Codes: 11 through 18 and 21 through 28. RSB3 blocks may be ordered with white circuit identification numbers on the molding in 16 variations. Custom markings available on special order.

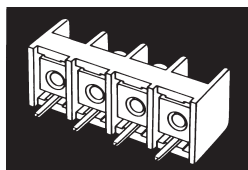


## 0.325" [8.26] Pitch, Series RSB3 (Continued)

### Mounting Position

#### Vertical Mounting

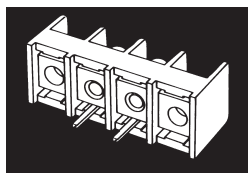
**Catalog Letter Code: V.** Used where direct top-to-bottom feed-through is required with no need for circuit isolation on the bottom side. The most common example of this is printed circuit board mounting.



### End Contact Mounting Options

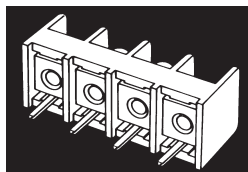
#### End Position Mounting

**Catalog Letter Code: M.** Supplied without contact in end sections to allow installer to mount blocks with screws in end section holes. Base of block will support #6 mounting screws.



#### Direct Mounting

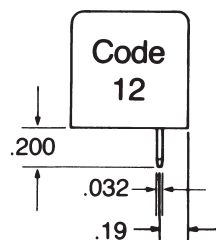
**Catalog Letter Code: P.** RSB3 may be solder-mounted using the bottom terminals themselves, as in the case of printed circuit board applications.



### Terminal Style

#### Printed Circuit Pin

**Catalog Number Code: 12.** Designed specifically for use with our USB3 socket, page 162



### Hardware Options

**3C1xxx**—Safety cover, see page 175

**J3140**—Jumpers, see page 177

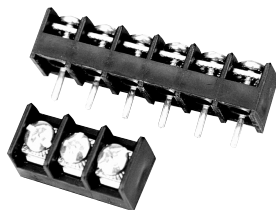
**3L02**—Wire clamp screw, see page 178

**3L01**—Binding head screw, see page 178

## Engineering Notes

## 0.325" [8.26] Pitch, Series SSB3

### SSB3FP##0202



#### Material & Finish

**Housing Material**—Polypropylene

**Flammability**—UL94V-2

**Color**—Black

**Terminals**—Brass, bright acid tin over copper plating

**Screw**—Steel w/ Zinc + Chromate plating

#### Mechanical Properties

**Pitch (Terminal Spacing)**—

.325" [8.26]

**Screw Size**—6-32

**Recommended PCB Hole Dia.**—

.062" [1.57]

**Wire Strip Length**— .31" [7.87]

**Recommended Tightening**

**Torque**—9 in.-lbs.

**Recommended Screwdrivers**—

Stanley 1006-4, Sears Craftsman 41581,  
Any #2 Phillips Head.

**Wire Lug Width (Max.)**—

.265" [6.73]

#### Electrical Properties

**Ratings**—UL Class B 20 Amps, 300V

UL Class C 20 Amps, 300V

UL Class D 10 Amps, 300V

CSA Type B 10 Amps, 300V

CSA Type D 10 Amps, 300V

**Wire Range**—#14-26 AWG

**Dielectric Withstand**—4500V

#### Environmental Properties

**Operating Temperature Range**—

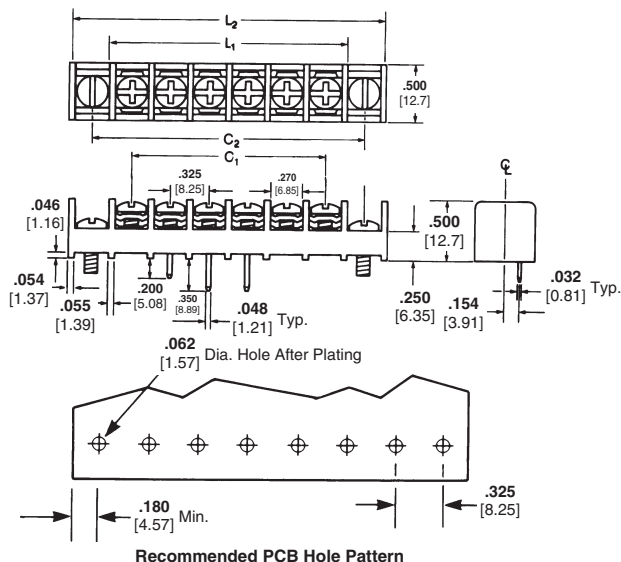
60°C to +105°C [-76°F to +221°F]

#### Computing Barrier Block Lengths

**Direct Mounting**— Use C1 & L1 for  
Mounting Option "P".

**End Position Mounting**— Use C2 &  
L2 for Mounting Options "F" and "M".

For mating socket, see pg. 162.



#### Dimensions

| Circuits<br>(not positions) | C1<br>in. | L1*<br>in. | C2<br>in. | L2*<br>in. |
|-----------------------------|-----------|------------|-----------|------------|
| 02                          | 0.325     | 0.704      | 0.975     | 1.354      |
| 03                          | 0.650     | 1.029      | 1.300     | 1.679      |
| 04                          | 0.975     | 1.354      | 1.625     | 2.004      |
| 05                          | 1.300     | 1.679      | 1.950     | 2.329      |
| 06                          | 1.625     | 2.004      | 2.275     | 2.654      |
| 07                          | 1.950     | 2.329      | 2.600     | 2.979      |
| 08                          | 2.275     | 2.654      | 2.925     | 3.304      |
| 09                          | 2.600     | 2.979      | 3.250     | 3.629      |
| 10                          | 2.925     | 3.304      | 3.575     | 3.954      |
| 11                          | 3.250     | 3.629      | 3.900     | 4.279      |
| 12                          | 3.575     | 3.954      | 4.225     | 4.604      |
| 13                          | 3.900     | 4.279      | 4.550     | 4.929      |
| 14                          | 4.225     | 4.604      | 4.875     | 5.254      |
| 15                          | 4.550     | 4.949      | 5.200     | 5.579      |
| 16                          | 4.875     | 5.254      | 5.525     | 5.879      |
| 17                          | 5.200     | 5.579      | 5.850     | 6.229      |
| 18                          | 5.525     | 5.904      | 6.175     | 6.554      |
| 19                          | 5.850     | 6.229      | 6.500     | 6.879      |
| 20                          | 6.2175    | 6.554      | 6.825     | 7.204      |
| 21                          | 6.500     | 6.879      | 7.150     | 7.529      |
| 22                          | 6.825     | 7.204      | 7.475     | 7.854      |
| 23                          | 7.150     | 7.529      | 7.800     | 8.179      |
| 24                          | 7.475     | 7.854      | 8.125     | 8.504      |
| 25                          | 7.800     | 8.179      | 8.450     | 8.829      |
| 26                          | 8.125     | 8.504      | 8.775     | 9.154      |
| 27                          | 8.450     | 8.829      | 9.100     | 9.479      |
| 28                          | 8.775     | 9.154      | 9.425     | 9.804      |
| 29                          | 9.100     | 9.479      | 9.750     | 10.129     |
| 30                          | 9.425     | 9.804      | 10.075    | 10.454     |
| 31                          | 9.750     | 10.129     | 10.400    | 10.779     |
| 32                          | 10.075    | 10.454     | 10.725    | 11.104     |
| 33                          | 10.400    | 10.779     | 11.050    | 11.429     |
| 34                          | 10.725    | 11.104     | 11.375    | 11.754     |
| 35                          | 11.050    | 11.429     | —         | —          |
| 36                          | 11.375    | 11.754     | —         | —          |



EC/98/003-01 12241/CL LR25557 E63810

## 0.325" [8.26] Pitch, Series SSB3 (Continued)

### Ordering Information

**SSB** **3** **F** **P** **06** **02** **02** **Suffix**

**A** **B** **C** **D** **E** **F** **G** **H**

#### A Single Screw Dual-Barrier Strip SSB

#### B Contact Spacing (Center-to-Center) 3=.325 in.

#### C Base F=Raised Base

#### D Mounting Options F= Open end positions without end barriers M= Open end positions with end barriers P= All positions filled with contacts, with end barriers

#### E No. of Circuits (Not Positions) 02 through 36

#### F Terminal Style 02= Printed Circuit Pin 04= Extended Circuit Board 11= Right-Angle Bend .18 x .12

#### G Top Hardware Options

01= Bright zinc and chromate  
plated steel  
binding-head  
screw



02= Bright zinc and chromate  
plated steel screw  
and captive clamp  
– Do not order in  
combination with other top  
hardware.



#### Quick-Connect Blades (supplied with 01 screw)

| .110 wide | .187 wide                                                                               |
|-----------|-----------------------------------------------------------------------------------------|
| x.020     | x.020                                                                                   |
| thick     | thick                                                                                   |
| 10        | 70=    |
| 11        | 71=  |
| 12        | 72=  |
| 13        | 73=  |
| 14        | 74=  |
| 15        | 75=  |

#### H Circuit Identification Options

Catalog Number Codes: 11  
through 16. SSB blocks may be  
ordered with circuit identification  
numbers in white on the molding  
in six different variations. Custom  
markings are available on special  
order.

11= 12345...

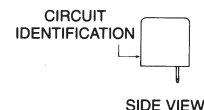
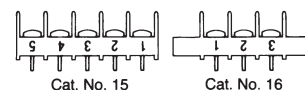
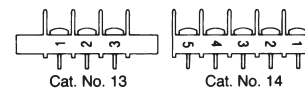
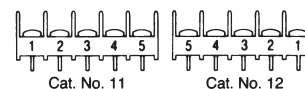
12= ...54321

13= 1 2 3 4 5 ...

14= ... 5 4 3 2 1

15= 12345...

16= ...54321



### Hardware Options

3C1xxx—Safety cover, see page 175

J3140—Jumpers, see page 177

3L02—Wire clamp screw, see page 178

3L01—Binding head screw,  
see page 178

QC1x—.110 Quick connects,  
see page 176

QC7x—.187 Quick connects,  
see page 176

For mating socket, see pg. 162.



EC/98/003-01



12241/CL



LR25557



E63810

## 0.325" [8.26] Pitch, Series SSB3, Options

### Base

**Catalog Letter Code: F.** Lends itself most readily to applications where direct top-to-bottom feed-through is required with no special requirement for circuit isolation on the bottom side. The most common example of this is printed circuit board mounting.



### Mounting Options

#### End Position Mounting

**Catalog Letter Code: M.** Provides a printed circuit board mounting option with top-side wire entry.



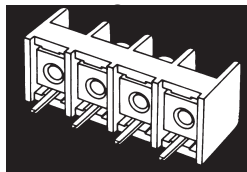
#### End Position Mounting Without Barriers

**Catalog Letter Code: F.** Facilitates mounting-screw access when end sections are used for mounting.



#### Direct Mounting:

**Catalog Letter Code: P.** SSBs may be solder-mounted using the bottom terminals themselves, as in the case of printed circuit board applications.



### Printed Circuit Pin:

#### Catalog Number Code: 02.

Designed specifically for mounting on .063" thick circuit board. Special, readily solderable plating permits good fillet development in automated soldering processes.



#### Extended Printed Circuit Pin:

**Catalog Number Code: 04.** Useful where extra length is needed, as in thicker printed circuit boards or single-wrap connections.

### Top Hardware Options

#### Binding Head Screws

**Catalog Number Code: 01.** In most applications, binding head screws will provide excellent wire retention because of exclusive wire locking tabs. Screws are bright zinc and chromate plated steel.



#### Captive Clamp

#### Catalog Number Code: 02.

For applications requiring extra security, captive clamps under the screw heads augment the locking tabs on each contact. Screws have a unique Phil-slot design accepting either Phillips-head or straight screwdriver. Code 02 screw is bright zinc and chromate plated steel.



### Quick Connects

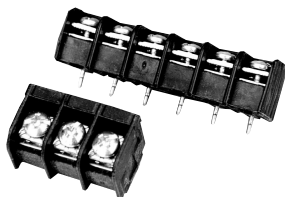
#### Catalog Number Codes: 10 through 75.

A complete selection of .187" and .110" quick-connect blades are available for connecting wire terminated with female quick connects. Single- and double-sided types in flat, 45° and 90° angle bends can be supplied. Material is brass with tin plating. All blades supplied with 01 screws. Various quick-connects can be combined.



## 0.375" [9.53] Pitch, Series RSB6

### RSB6RP##1102



#### Material & Finish

**Housing Material**—Polypropylene

**Flammability**—UL94V-2

**Color**—Black

**Terminals**—Brass, bright acid tin over copper plating

**Screw**—Steel w/Zinc + Chromate plating

#### Mechanical Properties

**Pitch (Terminal Spacing)**—  
.375" [9.53]

**Screw Size**—6-32

**Recommended PCB Hole Dia.**—  
.062" [1.57]

**Wire Strip Length**—.38" [9.65]

**Recommended Tightening**

**Torque**—12 in.-lbs.

**Recommended Screwdrivers**—  
Stanley 1006-4, Sears Craftsman 41581,  
Any #2 Phillips-Head

**Wire Lug Width (Max.)**—8.1mm  
[.320"]

#### Electrical Properties

**Ratings**—UL Class B 20 Amps, 300V  
CSA Type C 15 Amps, 150V  
CSA Type D 10 Amps, 300V

**Wire Range**—12-22 AWG

**Dielectric Withstand**—3500V

#### Environmental Properties

**Operating Temperature Range**—  
60°C to +105°C [-76°F to +221°F]

#### Computing RSB Block Lengths

**Direct Mounting**—Use C1 & L1 for  
VP, SP, RP mounting options

**End Position Mounting**—Use L2 &  
C2 for VM, SM, RM, VE, SE, RE  
mounting options

For mating socket, see pg. 163.

#### Hardware Options

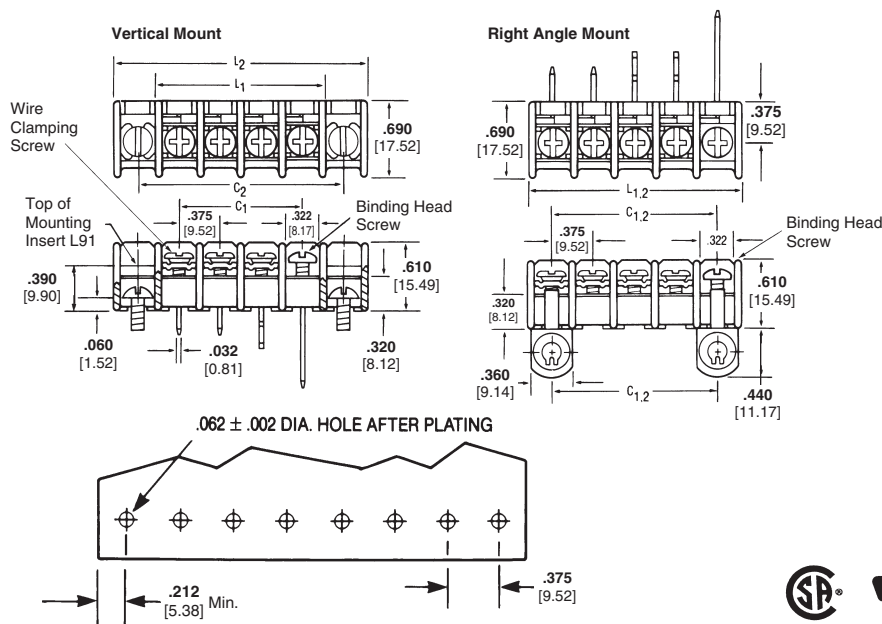
**J6**—Jumpers, see page 177

**L02**—Wire clamp screw, steel,  
see page 178

**L09**—Wire clamp screw, brass,  
see page 178

**L01**—Binding head screw,  
see page 178

**L04**—Binding head screw, brass,  
see page 178



#### Dimensions

| Circuits<br>(not positions) | C1<br>in. | L1*<br>in. | C2<br>in. | L2*<br>in. |
|-----------------------------|-----------|------------|-----------|------------|
| 01                          | —         | —          | 0.75      | 1.22       |
| 02                          | 0.37      | 0.84       | 1.13      | 1.59       |
| 03                          | 0.75      | 1.22       | 1.50      | 1.97       |
| 04                          | 1.13      | 1.59       | 1.88      | 2.34       |
| 05                          | 1.50      | 1.97       | 2.25      | 2.72       |
| 06                          | 1.88      | 2.34       | 2.63      | 3.09       |
| 07                          | 2.25      | 2.72       | 3.00      | 3.47       |
| 08                          | 2.63      | 3.09       | 3.37      | 3.84       |
| 09                          | 3.00      | 3.47       | 3.75      | 3.84       |
| 10                          | 3.37      | 3.84       | 4.13      | 4.59       |
| 11                          | 3.75      | 4.22       | 4.50      | 4.97       |
| 12                          | 4.13      | 4.59       | 4.88      | 5.34       |
| 13                          | 4.50      | 4.97       | 5.25      | 5.72       |
| 14                          | 4.88      | 5.34       | 5.63      | 6.09       |
| 15                          | 5.25      | 5.72       | 6.00      | 6.47       |
| 16                          | 5.63      | 6.09       | 6.38      | 6.84       |
| 17                          | 6.00      | 6.47       | 6.75      | 7.22       |
| 18                          | 6.38      | 6.84       | 7.13      | 7.59       |
| 19                          | 6.75      | 7.22       | 7.50      | 7.97       |
| 20                          | 7.13      | 7.59       | 7.88      | 8.34       |
| 21                          | 7.50      | 7.97       | 8.25      | 8.72       |
| 22                          | 7.88      | 8.34       | 8.63      | 9.09       |
| 23                          | 8.25      | 8.72       | 9.00      | 9.47       |
| 24                          | 8.63      | 9.09       | 9.75      | 9.84       |
| 25                          | 9.00      | 9.47       | 9.75      | 10.22      |
| 26                          | 9.38      | 9.84       | 10.13     | 10.59      |
| 27                          | 9.75      | 10.22      | 10.50     | 10.97      |
| 28                          | 10.13     | 10.59      | 10.88     | 11.34      |
| 29                          | 10.50     | 10.97      | 11.25     | 11.72      |
| 30                          | 10.88     | 11.34      | 11.63     | 12.09      |
| 31                          | 11.25     | 11.72      | 12.00     | 12.47      |
| 32                          | 11.63     | 12.09      | 12.38     | 12.84      |
| 33                          | 12.00     | 12.47      | 12.75     | 13.22      |
| 34                          | 12.38     | 12.84      | 13.13     | 13.59      |
| 35                          | 12.75     | 13.22      | 13.50     | 13.97      |
| 36                          | 13.13     | 13.59      | 13.88     | 14.34      |

## 0.375" [9.56] Pitch, Series RSB6 (Continued)

### Ordering Information

**RSB    6    R    P    07    12    02    11**  
**A       B       C       D       E       F       G       H**

**A** Single Screw Tri-Barrier Strips  
RSB

**B** Contact Spacing  
6=.375 in. (6/16)

**C** Mounting Position Options  
V= Vertical Mounting  
H= High Rise (use with #18 terminal style)

**D** End Contact Options  
E= Open end pos. with mounting inserts  
M= Open end positions  
P= All positions filled with contacts

**E** No. of Circuits (Not Positions)  
02 through 34 for M Option  
02 through 36 for P Option

**F** Terminal Style  
11=Superseded by 6STV, page 129  
12=Circuit Board, V Mounting (select this option when block is to be used with RSB plug-in socket)  
13=Superseded by 6TBV, page 129  
14=Superseded by 6STR, page 129  
15=Superseded by 6PCR, page 129  
16=Superseded by 6WWR, page 129  
17=Superseded by 6WWV, page 129  
18=Circuit Board (for High Rise Mounting)

**G** Top Hardware Options

01=  
Bright zinc and chromate plated steel binding-head screw

02=  
Bright zinc and chromate steel screw and captive clamp – Do not order in combination with other top hardware

03=Stainless steel binding-head screw

04=Nickel plated brass binding-head screw

09=Nickel plated brass screw and captive clamp – Do not order in combination with other top hardware

#### Quick-Connect Blades

(supplied with 01 screw)

| .250 [6.35] wide |             | .187 [4.75] wide |             |
|------------------|-------------|------------------|-------------|
| x.032 [.81]      | x.020 [.51] | x.032 [.81]      | x.020 [.51] |
| thick            | thick       | thick            | thick       |
| 22               | 42=         | 11               |             |
| 23               | 43=         | 12               |             |
| 24               | 44=         | 13               |             |
| 25               | 45=         | 14               |             |
| 29               | 49=         | 15               |             |
| 30               | 50=         | 16               |             |
| 31               | 51=         | 17               |             |
| 33               | 53=         | 18               |             |
| 35               | 55=         |                  |             |
| 36               | 56=         |                  |             |

|    | thick | thick |
|----|-------|-------|
| 22 | 42=   | 11    |
| 23 | 43=   | 12    |
| 24 | 44=   | 13    |
| 25 | 45=   | 14    |
| 29 | 49=   | 15    |
| 30 | 50=   | 16    |
| 31 | 51=   | 17    |
| 33 | 53=   | 18    |
| 35 | 55=   |       |
| 36 | 56=   |       |

**H** Circuit Identification Options

Request drawing C7013624 for complete information

| Front | Top                  |
|-------|----------------------|
| 11    | 21 = 12345...        |
| 12    | 22 = ...54321        |
| 13    | 23 = 1 2 3 4 5 . . . |
| 14    | 24 = . . . 5 4 3 2 1 |
| 15    | 25 = 12345...1       |
| 16    | 26 = ...54321        |
| 17    | 27 = 1 2 3 4 5 . . . |
| 18    | 28 = . . . 5 4 3 2 1 |

For mating socket, see pg. 152.

## 0.375" [9.56] Pitch, Series RSB6, Features/Options

### Terminal Style

#### Vertical Terminal

**Catalog Number Code 12:** Designed specifically for use with our RSB6B Socket, page 163.



### Mounting & Contact Position Options

#### Vertical, Direct Mounting

**Catalog Code VP:** This configuration is frequently used on printed circuit boards where solder connections are used to fasten the block to the board.



#### Vertical, End Position Mounting

##### Catalog Code VM:

Used where end sections are needed for mounting. Thickness of base is sufficient to support mounting screws.



### High Rise, All Positions Filled with Contacts

##### Catalog Code HP:

Designed for high density; two rows deep when used in conjunction with a VP configuration.



### Top Hardware Options:

#### Binding Head Screws

Four Styles Available.



#### Captive Clamp

##### Catalog Number Code: 02 & 09.

For applications requiring extra security, captive clamps under the screw heads augment the locking tabs on each contact. Screws have #8 pan head with a unique Phil-slot design accepting either Phillips-head or straight screwdriver. The body is #6 to allow use of larger wire.



#### Quick Connects

**Catalog Code below:** A selection of .187" and .250" quick connect blades with tin plated brass are available for connecting wire terminated with female quick-connects. They are available individually or in combination. See ordering information.



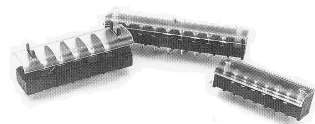
### High Rise, Mounting Standoffs

Designed for high density; allows two rows of contacts on two levels when used with a VP mounting configuration.



## Accessories — Barrier Strip Safety Covers

### For Series BC6, #3, JC6



### For Series BC6, #3, JC6 Mounting

**TC 3**—Aluminum mounting bushings and screws

**TC 2, 9**—Plastic fasteners attached to block with thru-bolts and nuts (not supplied)

### Center Spacing

**TC 3**—0.250 inch [6.35]

**TC 2, 9**—0.375 inch [9.56]

**Material**—Clear, rigid PVC, UL94V-0

### For Series #4, #6, #8

### Physical Properties

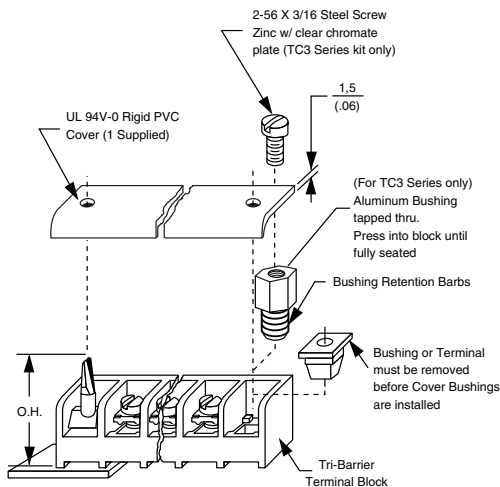
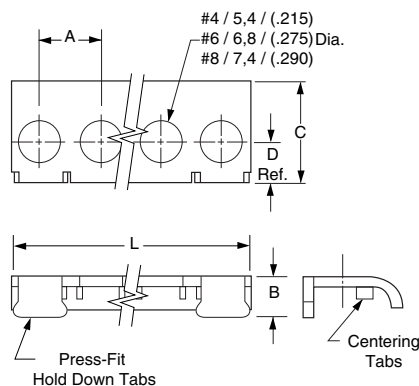
**Centerline spacing**—8.2/[.325] - 9.5/[.375] 11.1/[.4375]

**Positions**—2 thru 16, molded to length

**Material**—Black, thermoplastic, UL94V-0

**Shock and Vibration**—to MIL-STD. 1344 method 2005.1 Condition III.

### For Series #4, #6, #8



### Ordering Information

## TC 4 - 06 - PFH - CL

### A Series

**TC** = Cover

### B Center Spacing

**2** = BC6 Series

**3** = #3 Series

**4** = #4 Series

**6** = #6 Series

**8** = #8 Series

**9** = JC6 Series

### C No. of Circuits

(Not positions)

**02** through **24**

for Series BC6, JC6

**02** through **30**

for Series #3

**02** through **16**

for Series #4, #6, #8

### D Access Holes

**PF\*** = Press Fit without holes

**PFH\*** = Press Fit with holes

**AG** = Adder for Series BC6, #3, JC6

### E Color (add for Series #4, #6, #8 only)

**(blank)** = Black (Series BC6, #3, JC6 are clear)

**CL** = Translucent (Available only for Series #4, #6, #8)

| Overall Height (O.H.) |        |        |
|-----------------------|--------|--------|
| TC2                   | TC3    | TC9    |
| 0.970"                | 0.650" | 0.970" |

\* Add for Series #4, #6, #8

| Catalog # | A            | B          | C           | D Ref.       | L                        |
|-----------|--------------|------------|-------------|--------------|--------------------------|
| TC4       | 8,2 (.325)   | 6,0 (.238) | 13,5 (.531) | 5,7 (.225)   | A* (N-1)+7,9/ (.312) #4  |
| TC6       | 9,5 (.375)   | 6,3 (.250) | 13,3 (.525) | 6,4 (.253)   | A* (N-1)+4,4/ (.370) #6  |
| TC8       | 11,1 (.4375) | 8,1 (.314) | 21,5 (.846) | 11,1 (.4375) | A* (N-1)+10,9/ (.430) #8 |

## Accessories — Barrier Strip Safety Covers (Continued)

### Safety Covers

Dead front protection designed to prevent accidental contact with energized circuits. Access holes for test probes are provided over each terminal. Nylon clips are included with each cover. Covers meet UL94V-0, with 50°C temperature index. Blank circuit identification optional.

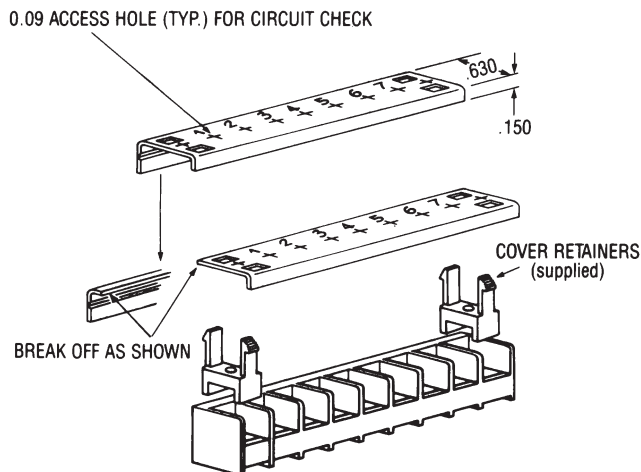
For SSB3, RSB3, RSB6 and SSB7 Series.

### Related Product Data

#### Wire Pins and Ferrules

Pages 109-111

For more information on Tyco Electronics Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.



### Ordering Information

| 3                                                  | C                              | 1                      | N                                                                                              | 07                                                                                                                                  |
|----------------------------------------------------|--------------------------------|------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Centerline Dimensions<br>3=.325 in.<br>7=.4375 in. | Cover Material<br>C=Yellow PVC | Style<br>1=Closed Back |                                                                                                | Number of Circuits<br>(Use Two Digits)<br>02 through 34<br>Max for SSB7=25<br>Max for RSB6=34<br>Max for RSB3=34<br>Max for SSB3=34 |
|                                                    |                                |                        | Circuit Identification<br>N=No Markings<br>F=Forward Sequence (as shown)<br>R=Reverse Sequence |                                                                                                                                     |

## Accessories — Quick-Connect (QC) Tabs

### Physical Properties

#### Tabs

**Material**—Tin plated brass

**Dimensions**— #4 Series 0.187" wide x 0.020" thick,  
#6 Series 0.250" wide x 0.032" thick (0.187" x 0.020"  
optional), #8 Series 0.250" wide x 0.032" thick

#### Ordering Information: Tabs

## QC4 - 180 - 3

A

B

C

#### A Style Size

**QC4** = for #4 Series  
(45° tab angle  
not available)

**QC6** = for #6 Series

**QC8** = for #8 Series

#### C Tab Size

**3** = 0.187 w x 0.020

**4** = 0.250 w x 0.032

#### B Tab Angle

**180** = 180° (flat)

**45** = 45°

**90** = 90°

**Note:** QC tabs may be  
stacked to achieve several  
angle configurations.

#### .0325" Pitch, Series SSB3

##### QUICK-CONNECT Tabs

| Description        | .110 wide x<br>.020 thick |          | .187 wide x<br>.020 thick |          |
|--------------------|---------------------------|----------|---------------------------|----------|
|                    | Part No.                  | Cat. No. | Part No.                  | Cat. No. |
| Flat, Two-Sided    | 5-1437402-7               | QC10     | 7-1437402-5               | QC70     |
| 45°, Two-Sided     | 5-1437402-8               | QC11     | 7-1437402-6               | QC71     |
| 90°, Two-Sided     | 5-1437402-9               | QC12     | 7-1437402-7               | QC72     |
| Flat, Single-Sided | 6-1437402-0               | QC13     | 7-1437402-8               | QC73     |
| 45°, Single-Sided  | 6-1437402-1               | QC14     | 7-1437402-9               | QC74     |
| 90°, Single-Sided  | 6-1437402-2               | QC15-BU  | 8-1437402-0               | QC75     |

#### .375" & .4375" Pitch, Series JC6 and SSB7

##### QUICK-CONNECT Tabs

| Description                 | .250 wide x<br>.032 thick |          | .187 wide x<br>.020 thick |          |
|-----------------------------|---------------------------|----------|---------------------------|----------|
|                             | Part No.                  | Cat. No. | Part No.                  | Cat. No. |
| Flat, Two-Sided             | 1546986-1                 | QC20-BU  | 6-1437402-9               | QC40-BU  |
| 45°, Two-Sided              | 1546986-3                 | QC21     | 7-1437402-0               | QC41     |
| 90°, Two-Sided              | 1546986-4                 | QC22     | 7-1437402-1               | QC42     |
| Flat, Single-Sided          | 6-1437402-5               | QC23     | 7-1437402-2               | QC43     |
| 45°, Single-Sided           | 6-1437402-6               | QC24     | 7-1437402-3               | QC44     |
| 90°, Single-Sided           | 6-1437402-7               | QC25     | 7-1437402-4               | QC45     |
| Flat, Two-Sided, Extra-Long | 1776090-1                 | —        | —                         | —        |
| 90°, Two-Sided, Extra-Long  | 1776090-2                 | —        | —                         | —        |
| 45°, Two-Sided, Extra-Long  | 1776090-3                 | —        | —                         | —        |

### Related Product Data

#### Wire Pins and Ferrules

Pages 109-111

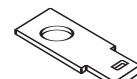
For more information on Tyco Electronics Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.



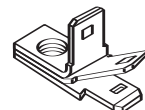
90°



45°



180°



Stackable Tabs

#### .375" Pitch, Double Row

##### QUICK-CONNECT Tabs

| Description        | .250 wide x<br>.032 thick |          | .187 wide x<br>.032 thick |          |
|--------------------|---------------------------|----------|---------------------------|----------|
|                    | Part No.                  | Cat. No. | Part No.                  | Cat. No. |
| Flat, Two-Sided    | 1776860-1                 | —        | 1776803-1                 | —        |
| 45°, Two-Sided     | 1776860-2                 | —        | 1776803-2                 | —        |
| 90°, Two-Sided     | 1776860-3                 | —        | 1776803-3                 | —        |
| Flat, Single-Sided | 1776843-1                 | —        | —                         | —        |
| 45°, Single-Sided  | 1776843-2                 | —        | —                         | —        |
| 90°, Single-Sided  | 1776843-3                 | —        | —                         | —        |

#### .563" Pitch, Double Row

##### QUICK-CONNECT Tabs

| Description        | .250 wide x<br>.032 thick |          |
|--------------------|---------------------------|----------|
|                    | Part No.                  | Cat. No. |
| Flat, Two-Sided    | 1776173-1                 | —        |
| 45°, Two-Sided     | 1776173-2                 | —        |
| 90°, Two-Sided     | 1776173-3                 | —        |
| 45°/90°, Two-Sided | 1776173-4                 | —        |
| Flat, Single-Sided | 1776174-1                 | —        |
| 45°, Single-Sided  | 1776174-2                 | —        |
| 90°, Single-Sided  | 1776174-3                 | —        |

#### .437" Pitch, Double Row

##### QUICK-CONNECT Tabs

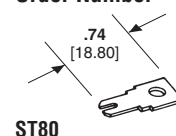
| Description        | .250 wide x<br>.032 thick |          |
|--------------------|---------------------------|----------|
|                    | Part No.                  | Cat. No. |
| Flat, Two-Sided    | 1776057-3                 | —        |
| 45°, Two-Sided     | 1776057-2                 | —        |
| 90°, Two-Sided     | 1776057-1                 | —        |
| Flat, Single-Sided | 1776110-3                 | —        |
| 45°, Single-Sided  | 1776110-2                 | —        |
| 90°, Single-Sided  | 1776110-1                 | —        |

### Solder Tabs:

For making top-side solder connections  
Single-Sided

| Part No.    | Cat. No. |
|-------------|----------|
| 1-1437403-1 | ST80     |

### Order Number



## Accessories — Jumpers

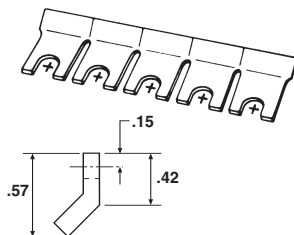
### AROUND-THE-BARRIER

40 circuits; snap apart to  
desired lengths.

#### Spade Jumper

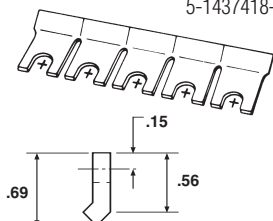
**Catalog Number Part No.**

**J3140** (for 0.325" Pitch) 5-1437418-3



#### Spade Jumper

**J6140** (for 0.375" Pitch and #6 Screw)  
5-1437418-4



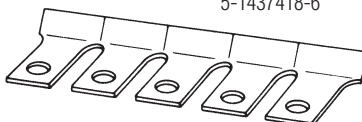
#### Flanged Spade Jumper

**J6240** (for 0.375" Pitch and #6 Screw)  
5-1437418-5



#### Ring Tongue Jumper

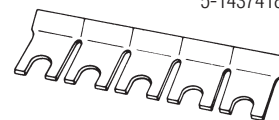
**J6340** (for 0.375" Pitch and #6 Screw)  
5-1437418-6



#### Spade Jumper

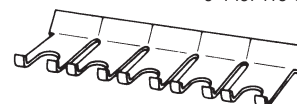
**Catalog Number Part No.**

**J7140** (for 0.4375" Pitch and #6 Screw)  
5-1437418-7



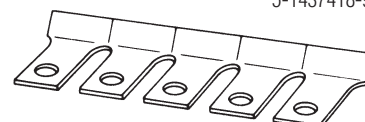
#### Flanged Spade Jumper

**J7240** (for 0.4375" Pitch and #6 Screw)  
5-1437418-8



#### Ring Tongue Jumper

**J7340** (for 0.4375" Pitch and #6 Screw)  
5-1437418-9



### Over-the-Barrier Two Circuit (Brass, Tin Plated)

#### Spade Jumper

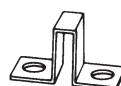
**J74** (for 0.375" Pitch, Series RSB6 &  
SSB6; 0.4375" Pitch, SSB7)  
6-1437418-0



**J76** (0.4375" and 0.375" Double-Row)  
1776058-1

#### Ring Tongue Jumper

**J75** (for 0.375" Pitch, Series RSB6 &  
SSB6; 0.4375" Pitch, SSB7)  
6-1437418-1



**J77** (0.563" Double-Row)  
1776058-1

### Order Number

**Jx x**

**A**

**B**

#### **A** Block Series

**J3** = #3 Series

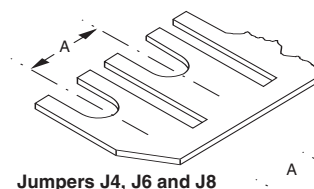
**J4** = #4 Series, 4DB

**J6** = #6 Series, JC6, BC6, NC6, MB6

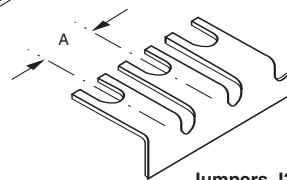
**J8** = #8 Series, 1546670, 1546671

#### **B** No. of Circuits (Not positions)

2 through 16



Jumpers J4, J6 and J8

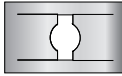


Jumpers J3

| Block Series | Centerline Spacing A |
|--------------|----------------------|
| J3           | 6,4 (0.250")         |
| J4           | 8,3 (0.325")         |
| J6           | 9,5 (0.375")         |
| J8           | 11,1 (0.438")        |

## Accessories — Hardware & Brackets

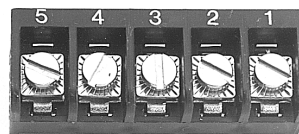
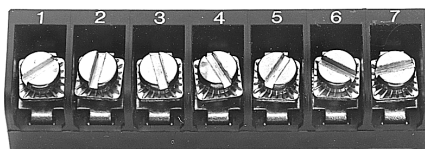
|                            |                                                                                   | Catalog<br>Number | Part<br>Number | Description                     | Series                             |
|----------------------------|-----------------------------------------------------------------------------------|-------------------|----------------|---------------------------------|------------------------------------|
| <b>Binding Head Screws</b> |  | <b>3L01</b>       | 1437402-2      | #6-32 Steel<br>w/clear chromate | RSB3, SSB3                         |
|                            |                                                                                   | <b>L01</b>        | 2-1437402-4    | #6-32 Steel<br>w/clear chromate | SSB6, SSB7,<br>RSB6                |
|                            |                                                                                   | —                 | 8-1437649-4    | #4-40 Steel<br>w/clear chromate | Series #4                          |
|                            |                                                                                   |                   | 1437651-8      | #6-32 Steel<br>w/clear chromate | Series #6, BC6, NC6,<br>JC6        |
|                            |                                                                                   | <b>L03</b>        | 2-1437402-6    | #6-32<br>Stainless Steel        | SSB6, SSB7, RSB6<br>Series #6, JC6 |
|                            |                                                                                   | <b>L04</b>        | 2-1437402-7    | #6-32 Brass<br>w/nickel plate   | SSB6, SSB7,<br>RSB6                |
|                            |                                                                                   | —                 | 1447429-1      | #8-32 Steel<br>w/clear chromate | Series #8                          |
| <b>Wire Clamp Screws</b>   |  | <b>3L02</b>       | 1437402-3      | #6-32 Steel<br>w/clear chromate | RSB3, SSB3                         |
|                            |                                                                                   | <b>L02</b>        | 2-1437402-5    | #6-32 Steel<br>w/clear chromate | SSB6, SSB7,<br>RSB6                |
|                            |                                                                                   | <b>L09</b>        | 2-1437402-8    | #6-32 Brass<br>w/nickel plate   | SSB6, SSB7,<br>RSB6                |
|                            |                                                                                   | —                 | 8-1437649-0    | #4-40 Steel<br>w/clear chromate | Series #4                          |
|                            |                                                                                   | —                 | 1437651-5      | #6-32 Brass<br>w/nickel plate   | Series #6, BC6,<br>JC6, NC6, MB6   |
|                            |                                                                                   | —                 | 1437651-2      | #6-32 Steel<br>w/clear chromate | Series #6, BC6,<br>JC6, NC6, MB6   |
|                            |                                                                                   | —                 | 1447425-1      | #8-32 Steel<br>w/clear chromate | Series #8                          |
|                            |                                                                                   | —                 | 9-1437667-9    | #6-32 Steel<br>w/clear chromate | 4DB                                |

|                                                                                                        |                                                                                     | Catalog Number         | Part No.    |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------|-------------|
| <b>MOUNTING INSERTS</b> (Nylon)<br>for mounting RSBs with blank<br>end sections                        |  | <b>L91</b>             | 5-1437402-1 |
|                                                                                                        |                                                                                     |                        |             |
| <b>PRESS-ON RETAINING CLIPS</b><br>(Stainless Steel)<br>for mounting turret base SSBs,<br>JC6, and BC6 |  | <b>JC/BC-Retaining</b> | 1437661-7   |
|                                                                                                        |                                                                                     |                        |             |
| <b>Angle Bracket</b><br>for mounting SSBs with right angle<br>terminals, copper alloy, tin plated      |  | <b>L92</b>             | 5-1437402-2 |
|                                                                                                        |                                                                                     |                        |             |

## Accessories — Standard and Custom Legends

### Product Facts

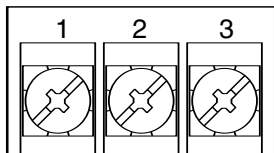
- Permanent markings,  
impervious to cleaning  
solvents per MIL-STD 202,  
Method 215
- Alphabetical and numerical  
legending
- Numbers and characters can  
be in any order
- Size and spacing of  
characters may be tailored to  
your application
- White markings standard
- Custom legends available on  
special request



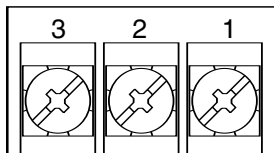
Custom legending can lend a personal touch to your product...helps in circuit identification and makes wiring faster and easier. Alphabetical and numerical markings are available in either standard or custom styles to best suit your specific applications.

Legending is available to the styles depicted below.

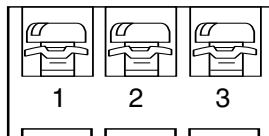
### Standard Legending Arrangements



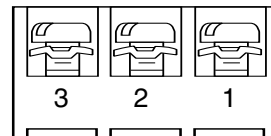
Style A1



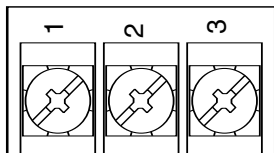
Style B1



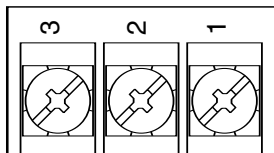
Style C1



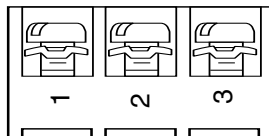
Style D1



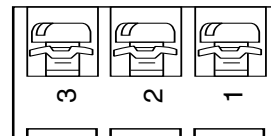
Style A2



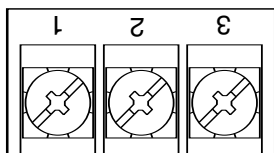
Style B2



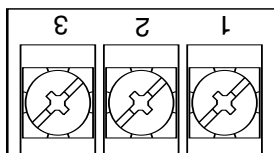
Style C2



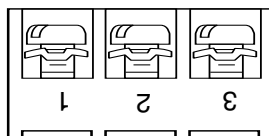
Style D2



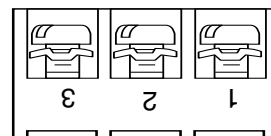
Style A3



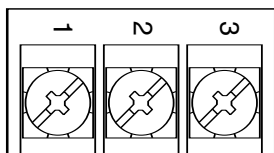
Style B3



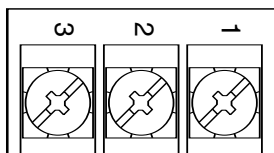
Style C3



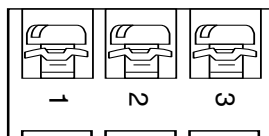
Style D3



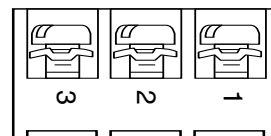
Style A4



Style B4



Style C4



Style D4

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## Engineering Notes

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## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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