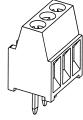


**Note:** All part numbers are RoHS Compliant.

**Index—Eurostyle**

**One-Piece Board Mount  
(Cage Clamp)**



	Page No.	Page No.	Page No.
<b>16-30 AWG</b>	Straight		
2.54 mm Centerline	8	—	—
5.08 mm Centerline	8	—	—

**Low Profile  
High Temperature and Standard**

	Page No.	Page No.	Page No.
<b>16-28 AWG</b>	Straight		
3.5 mm Centerline	9	—	—
3.81 mm Centerline	9	—	—

**Stacking with Interlock**

	Straight	Rt.-Angle	
<b>14-30 AWG</b>			
3.50 mm Centerline	9	19	—
3.81 mm Centerline	10	19	—

**Low Profile  
Stacking with Interlock**

	Straight	Rt.-Angle	
<b>16-30 AWG</b>			
5.00 mm Centerline	11	20	—
5.08 mm Centerline	11	21	—
10.00 mm Centerline	16, 17	24	—
10.16 mm Centerline	18	25	—

**Stacking with Interlock**

	Straight	Rt.-Angle	Angled
<b>12-30 AWG</b>			
5.00 mm Centerline	12	20, 21, 28	26
5.08 mm Centerline	13, 14	21, 22	26
7.50 mm Centerline	14, 15	23	—
7.62 mm Centerline	15, 16	23	—
10.00 mm Centerline	16, 17	24	27
10.16 mm Centerline	18	25	27

**High Current  
Stacking with Interlock**

	Straight	Rt.-Angle	Angled
<b>10-24 AWG</b>			
6.35 mm Centerline	29	—	—
9.52 mm Centerline	29	—	30

**Multi-Level Stacking  
with Interlock  
1st and 2nd Level**

<b>16-30 AWG</b>	
5.00 mm Centerline	32
5.08 mm Centerline	33

<b>12-30 AWG</b>	
5.00 mm Centerline	32
5.08 mm Centerline	33, 34

**Multi-Level Stacking with Interlock  
2nd and 3rd Level**

<b>16-30 AWG</b>	
5.08 mm Centerline	34
<b>12-30 AWG</b>	
5.08 mm Centerline	35

**Multi-Level Stacking  
with Interlock  
Three Levels**

	Page No.
<b>16-30 AWG</b>	
5.00 mm Centerline	35
5.08 mm Centerline	36

<b>12-30 AWG</b>	
5.00 mm Centerline	36
5.08 mm Centerline	37

**Multi-Level Stacking  
with Interlock 2nd Level**

<b>16-30 AWG</b>	
5.00 mm Centerline	38
5.08 mm Centerline	39

<b>12-30 AWG</b>	
5.00 mm Centerline	38, 39
5.08 mm Centerline	40

**Multi-Level Stacking  
with Interlock 3rd Level**

<b>16-30 AWG</b>	
5.00 mm Centerline	41
10.00 mm Centerline	43

<b>12-30 AWG</b>	
5.00 mm Centerline	41
5.08 mm Centerline	42

**One-Piece Board Mount  
(Wire Protector Version)**

**Straight Stacking with Interlock**

<b>14-22 AWG</b>	
5.00 mm Centerline	95

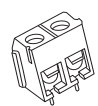
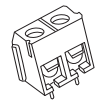
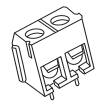
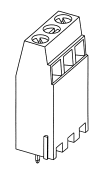
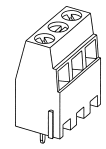
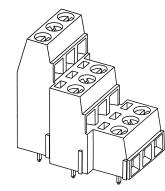
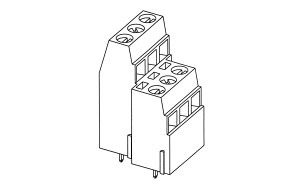
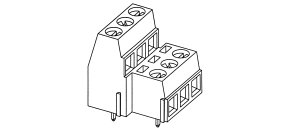
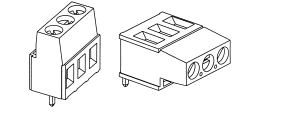
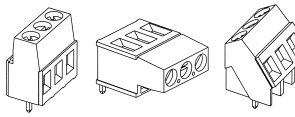
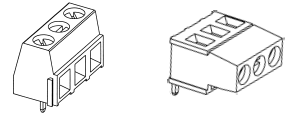
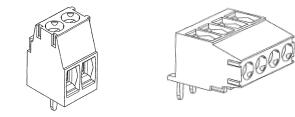
**Low Profile  
Straight Stacking with Interlock  
(LT)**

<b>14-22 AWG</b>	
5.00 mm Centerline	95, 97

**Straight Stacking with Interlock  
(LT)**

<b>18-26 AWG</b>	
3.50 mm Centerline	96

<b>14-22 AWG</b>	
5.00 mm Centerline	98



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**Note:** The BUCHANAN brand name is listed on most pages in this catalog. Tyco Electronics Corporation is consolidating AMP, BUCHANAN and RDI brand Terminal Blocks under the BUCHANAN brand. The form, fit and function of the former RDI and AMP Terminal Blocks will NOT change. In a “running” change, only the molded “RDI” and “AMP” logos on the housings will change to “BUCHANAN” logos. In some cases, a BUCHANAN or RDI series of part numbers has been replaced by an equivalent product, which may currently be labeled BUCHANAN, RDI or AMP product.

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### Restriction on the use of Hazardous Substances (RoHS)

At Tyco Electronics, we’re ready to support your RoHS requirements. We’ve assessed more than 1.5 million end items/components for RoHS compliance, and issued new part numbers where any change was required to eliminate the restricted materials.

Part numbers in this catalog are RoHS Compliant, unless marked otherwise. These products comply with European Union Directive 2002/95/EC as amended 1 January 2006 that restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in

certain electrical and electronic products sold into the EU as of 1 July 2006.

Note - For purposes of this Catalog, included within the definition of RoHS Compliant are products that are clearly “Out of Scope” of the RoHS Directive such as hand tools and other non-electrical accessories. Information regarding RoHS compliance is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change. For latest compliance status, refer to our website referenced at right.

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Our comprehensive on-line RoHS Customer Support Center provides a forum to answer your questions and support your RoHS needs. A RoHS FAQ (Frequently Asked Questions) is available with links to more detailed information. You can also submit RoHS questions and receive a response within 24 hours during a normal work week. The Support Center also provides:

- n Cross-Reference from Non-compliant to Compliant Products
- n Ability to browse RoHS Compliant Products in our on-line catalog

- n Downloadable Technical Data
  - n Customer Information Presentation
  - n More detailed information regarding the definitions used above
- So whatever your questions when it comes to RoHS, we’ve got the answers at [www.tycoelectronics.com/leadfree](http://www.tycoelectronics.com/leadfree)

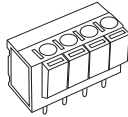
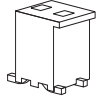
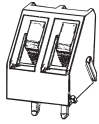




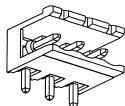
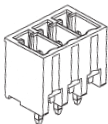
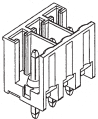
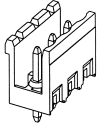
**Note:** All part numbers are RoHS Compliant.

**Index—Eurostyle**

**One-Piece Board Mount  
(Wire Protector Version)**



**Two-Piece**



**45° Wire Inlet with Interlock  
(LT)**

14-22 AWG	Page No.
5.00 mm Centerline	99
5.08 mm Centerline	99

**SMT with Wire Trap**

2.5 mm Centerline	101
-------------------	-----

**Screwless**

14-22 AWG	
5.00 mm Centerline	103-105
5.08 mm Centerline	103-105

**Straight Open End Headers**

5.00 mm Centerline	51
5.08 mm Centerline	52
7.50 mm Centerline	53
7.62 mm Centerline	54
10.00 mm Centerline	55
10.16 mm Centerline	56

**Straight Open End Headers  
with Interlock**

3.50 mm Centerline	49
3.81 mm Centerline	50
5.00 mm Centerline	57
5.08 mm Centerline	57

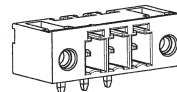
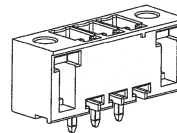
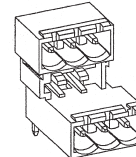
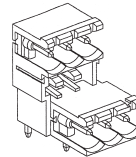
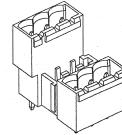
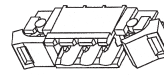
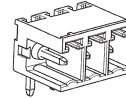
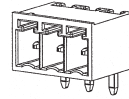
**Straight Closed End  
Headers**

3.50 mm Centerline	49
3.81 mm Centerline	50
5.00 mm Centerline	51
5.08 mm Centerline	52
7.50 mm Centerline	53
7.62 mm Centerline	54
10.00 mm Centerline	55
10.16 mm Centerline	56

**Right-Angle Open End  
Stacking Headers**

5.00 mm Centerline	59
5.08 mm Centerline	61
7.50 mm Centerline	62
7.62 mm Centerline	63
10.00 mm Centerline	64
10.16 mm Centerline	65

**Two-Piece (Continued)**



**Right-Angle Closed End  
Headers**

	Page No.
3.50 mm Centerline	58
3.81 mm Centerline	58
5.00 mm Centerline	59
5.08 mm Centerline	61
7.50 mm Centerline	62
7.62 mm Centerline	63
10.00 mm Centerline	64
10.16 mm Centerline	65

**Right-Angle Open End  
Headers with Interlock**

5.00 mm Centerline	66
5.08 mm Centerline	66

**Right-Angle Closed End  
Headers with Ejectors**

5.08 mm Centerline	67
--------------------	----

**Straight Closed End  
Double-Row Headers  
with Interlock**

5.00 mm Centerline	68
5.08 mm Centerline	68
10.00 mm Centerline	69
10.16 mm Centerline	69

**Right-Angle Open End  
Double-Row Headers  
with Interlock**

5.00 mm Centerline	70
5.08 mm Centerline	70

**Right-Angle Closed End  
Double-Row Headers  
with Interlock**

5.00 mm Centerline	71
5.08 mm Centerline	71
10.00 mm Centerline	72
10.16 mm Centerline	72

**Straight Headers with  
Threaded Flange**

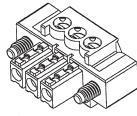
3.50 mm Centerline	45
3.81 mm Centerline	45
5.08 mm Centerline	46

**Right-Angle Closed End  
Headers with Threaded Flange**

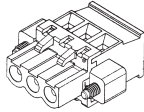
3.50 mm Centerline	47
3.81 mm Centerline	47
5.00 mm Centerline	48
5.08 mm Centerline	48

**Index—Eurostyle**

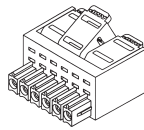
**Two-Piece (Continued)**



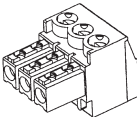
<b>Right-Angle Plugs with Screw Flange</b>	Page No.
<b>14-30 AWG</b>	
3.50 mm Centerline	73
3.81 mm Centerline	73
<b>12-30 AWG</b>	
5.00 mm Centerline	74
5.08 mm Centerline	74



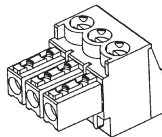
<b>Straight Plugs with Screw Flange, Left- and Right-Hand Versions</b>	Page No.
<b>12-30 AWG</b>	
5.08 mm Centerline	75



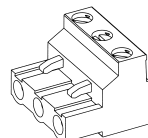
<b>PIVOT BLOCK Plugs (IDC)</b>	Page No.
<b>22-24 AWG</b>	
3.5 mm Centerline	102



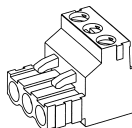
<b>Right-Angle Plugs</b>	Page No.
<b>14-30 AWG</b>	
3.50 mm Centerline	76
3.81 mm Centerline	76



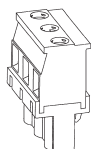
<b>Right-Angle Plugs with Interlock</b>	Page No.
<b>14-30 AWG</b>	
3.81 mm Centerline	80



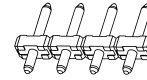
<b>Right-Angle Plugs with Retention Latch</b>	Page No.
<b>12-30 AWG</b>	
5.00 mm Centerline	77
5.08 mm Centerline	77
7.50 mm Centerline	78
7.62 mm Centerline	78
10.00 mm Centerline	79
10.16 mm Centerline	79



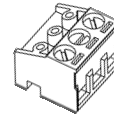
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<b>12-30 AWG</b>	
5.00 mm Centerline	81
5.08 mm Centerline	81



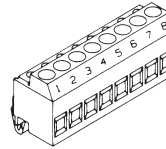
<b>Straight Plugs with Retention Latch, Left- and Right-Hand Versions</b>	Page No.
<b>12-30 AWG</b>	
5.00 mm Centerline	82
5.08 mm Centerline	83
7.50 mm Centerline	84
7.62 mm Centerline	84
10.00 mm Centerline	84
10.16 mm Centerline	84



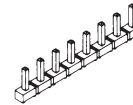
<b>Unshrouded Pin Headers</b>	Page No.
5.0 mm Centerline	85
10.0 mm Centerline	85



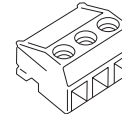
<b>Special 90°/180° and 90°/270° Plug Connectors</b>	Page No.
<b>14-30 AWG</b>	
5.0 mm Centerline	86, 87
10.0 mm Centerline	88



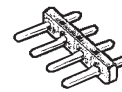
<b>Flush-Mount Plug-In Connectors with Cage Clamp</b>	Page No.
<b>12-30 AWG</b>	
5.00 mm Centerline	89
5.08 mm Centerline	91



<b>Unshrouded Pin Headers</b>	Page No.
5.00 mm Centerline	90
5.08 mm Centerline	92

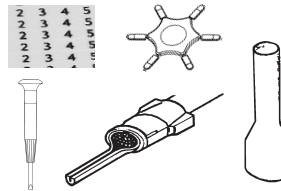


<b>Flush Mount Plug</b>	Page No.
<b>14-22 AWG</b>	
5.00 mm Centerline	100



<b>Straight Unshrouded Pin Header</b>	Page No.
5.00 mm Centerline	100

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## Stacking Screw Clamp Connectors

### Product Facts

n Certified by the VDE Testing  
and Certification Institute  
VDE File No. 6917  
(Two-Piece Version)  
VDE File No. 6920  
(One-Piece Version)



n Recognized under  
the Component Program of  
Underwriters  
Laboratories Inc.,  
File No. E60677



n Certified by Canadian  
Standards  
Association,  
File No. 703157

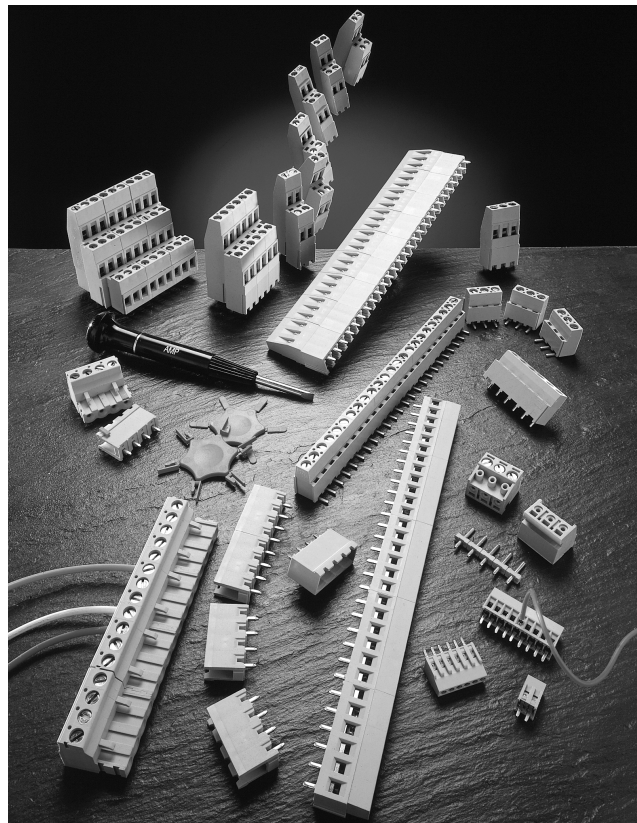


n Produced under Quality  
Management System  
certified to ISO 9001

### Technical Documents

**Product Specification:**  
108-20166 Terminal Block Connectors,  
Stacking PC Board Mount

**Application Specification:**  
114-20079 Terminal Block  
Stacking Connectors



Terminal Block connectors feature the special rising cage clamp design (see illustration on page 7). The modular design of Terminal Block connectors consists of one-piece board mount terminal blocks and plug connectors with mating straight and right-angle shrouded headers. A special version – which can be mated either 90° or 180° – completes the product line. Terminal Block connectors offer several advantages:

- n IR Reflow compatible
- n Terminal Block connectors have a rising cage clamp which promotes numerous reliable connections and disconnections at field installations
- n All blocks are supplied with open screws which shortens the time for connection
- n The double captive screw system guards against lost screws

- n All metal parts are non-magnetic
- n The housing material used is halogen free Polyamide 6.6 according to UL 94V-0 (self-extinguishing); operating temperature -40°C to +105°C
- n The housing funnel entry design enables an easier product application
- n The open bottom design facilitates the PCB washing and reduces trapping of soldering fumes and dirt, with better insulation
- n Available on the board mount connectors is test probe access to determine if an electrical connection has been made
- n Contacts are post tinned with nickel underplate which allows the product to be used in specially corrosive environments

Board mount connectors, as well as pc board plugs and headers, are stackable end-

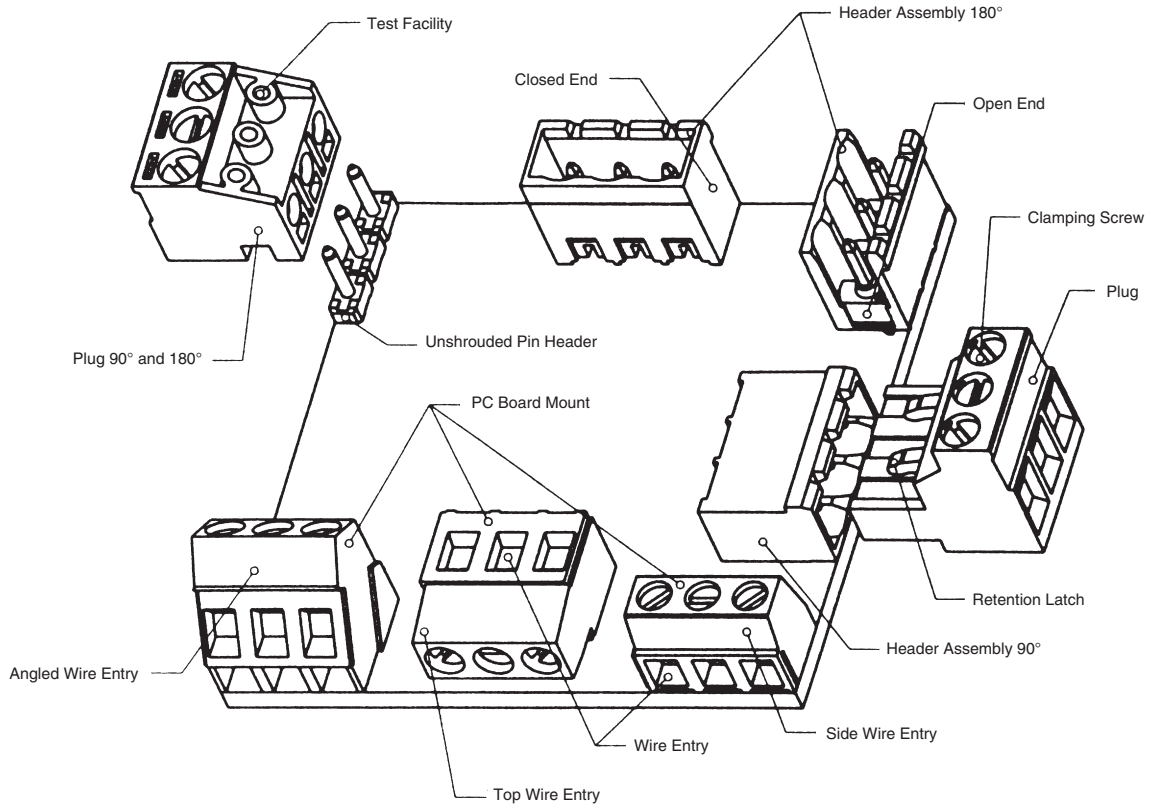
to-end without loss of centerline spacing.

Ease of assembly is facilitated by built-in interlocks on the housings. Pre-assembled products can be delivered upon request. Adhesive labels are available to number the cavities. Customer specific labeling is also available upon request.

Terminal Block connectors are interchangeable with most existing products and pc board footprint is fully compatible with existing Industry Standards.

**Note:** All part numbers are RoHS Compliant.

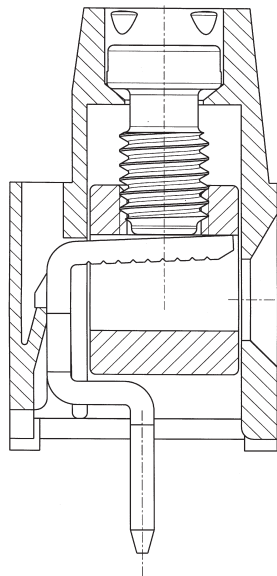
**Terminal Block Board Mount Connectors**



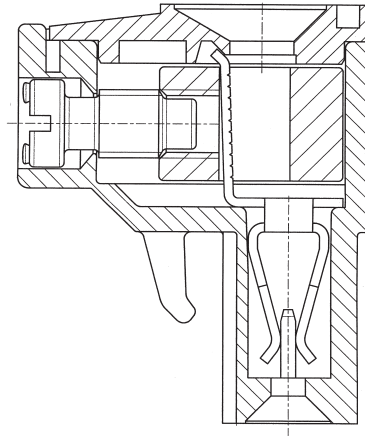
Eurostyle  
**1**

**Rising Cage Clamp Design**

**Cross Section One-Piece Connector**



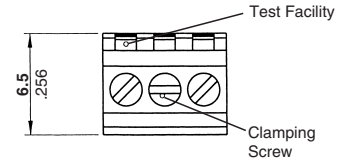
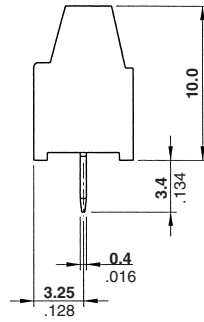
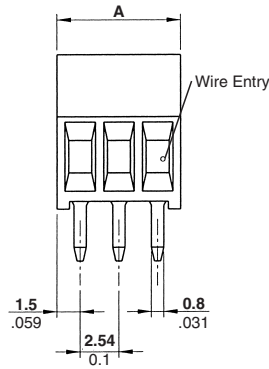
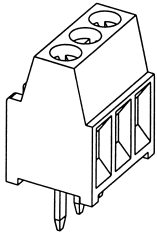
**Cross Section Two-Piece Connector**



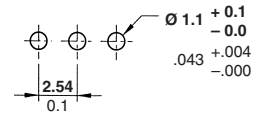
**Note:** All part numbers are RoHS Compliant.

**Board Mount, Side Wire Entry**

**Board Mount,  
2.54 mm Centerline,  
Side Wire Entry**  
**UL Rating – 150 V, 10 A  
16-30 AWG**



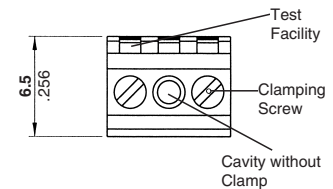
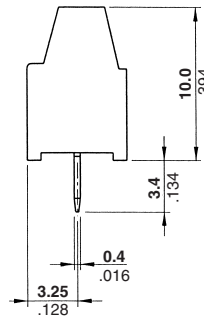
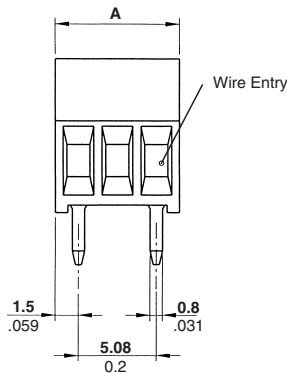
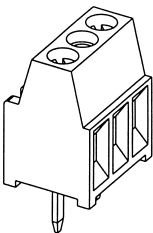
**Recommended PC Board Layout**



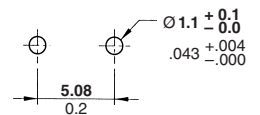
**Suggested Screw Torque—**  
1.73 in.-lbs.

No. of Positions	Dim. A	Part Numbers	
		Green	Gray
2	5.54 [0.218]	282834-2	1546215-2
3	8.08 [0.318]	282834-3	1546215-3
4	10.62 [0.418]	282834-4	1546215-4
5	13.16 [0.518]	282834-5	1546215-5
6	15.70 [0.618]	282834-6	1546215-6
7	18.24 [0.718]	282834-7	1546215-7
8	20.78 [0.818]	282834-8	1546215-8
9	23.32 [0.918]	282834-9	1546215-9
10	25.86 [1.018]	1-282834-0	1-1546215-0
11	28.40 [1.118]	1-282834-1	1-1546215-1
12	30.94 [1.218]	1-282834-2	1-1546215-2

**Board Mount,  
5.08 mm Centerline,  
Side Wire Entry**  
**Color – Green**  
**UL Rating – 300 V, 10 A  
16-30 AWG**



**Recommended PC Board Layout**



**Suggested Screw Torque—**  
1.73 in.-lbs.

No. of Positions	Dim. A	Part Numbers
2	8.08 [0.318]	282835-2
3	13.16 [0.518]	282835-3
4	18.24 [0.718]	282835-4
5	23.32 [0.918]	282835-5
6	28.40 [1.118]	282835-6

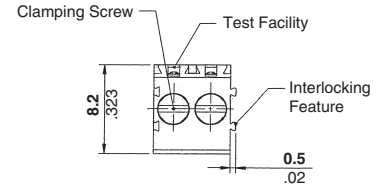
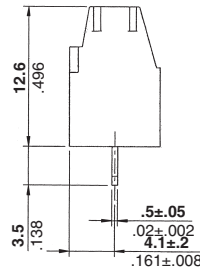
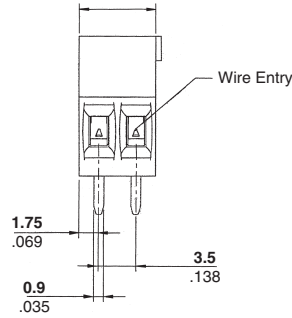
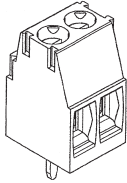


**Note:** All part numbers are RoHS Compliant.

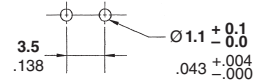
## Board Mount, Side Wire Entry

**Board Mount w/Interlock, 3.5 mm Centerline, Side Wire Entry**

**UL Rating – 300 V, 12 A  
14-30 AWG**



**Recommended PC Board Layout**



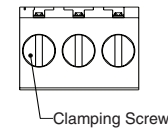
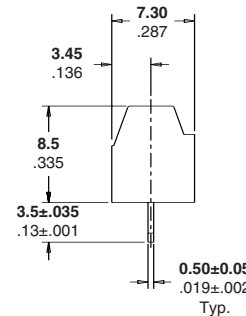
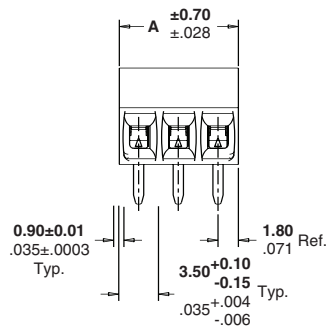
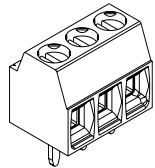
**Suggested Screw Torque—**  
2.2 in.-lbs.

No. of Positions	Dim. A	Part Numbers	
		Green	Blue
2	7.0 [0.276]	284391-2	1546227-2
3	10.5 [0.413]	284391-3	1546227-3
4	14.0 [0.551]	284391-4	1546227-4
5	17.5 [0.689]	284391-5	1546227-5
6	21.0 [0.827]	284391-6	1546227-6
7	24.5 [0.965]	284391-7	1546227-7
8	28.0 [1.102]	284391-8	1546227-8
9	31.5 [1.240]	284391-9	1546227-9
10	35.0 [1.378]	1-284391-0	1-1546227-0
11	38.5 [1.516]	1-284391-1	1-1546227-1
12	42.0 [1.654]	1-284391-2	1-1546227-2
13	45.5 [1.791]	1-284391-3	1-1546227-3

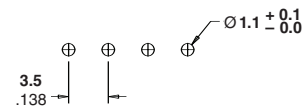
No. of Positions	Dim. A	Part Numbers	
		Green	Blue
14	49.0 [1.929]	1-284391-4	1-1546227-4
15	52.5 [2.067]	1-284391-5	1-1546227-5
16	56.0 [2.205]	1-284391-6	1-1546227-6
17	59.5 [2.343]	1-284391-7	1-1546227-7
18	63.0 [2.480]	1-284391-8	1-1546227-8
19	66.5 [2.618]	1-284391-9	1-1546227-9
20	70.0 [2.756]	2-284391-0	2-1546227-0
21	73.5 [2.894]	2-284391-1	2-1546227-1
22	77.0 [3.031]	2-284391-2	2-1546227-2
23	80.5 [3.169]	2-284391-3	2-1546227-3
24	84.0 [3.307]	2-284391-4	2-1546227-4
25	87.5 [3.445]	2-284391-5	2-1546227-5

**Board Mount 3.5 mm Centerline, Side Wire Entry**

**UL Rating – 300 V, 12 A  
16-28 AWG**



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers	
		Black*	Green
2	7.00 [276]	1776112-2	1546551-2
3	10.50 [413]	1776112-3	1546551-3
4	14.00 [551]	1776112-4	1546551-4
5	17.50 [689]	—	1546551-5
6	21.00 [827]	—	1546551-6
7	24.50 [965]	—	1546551-7
8	28.00 [1.102]	—	1546551-8
9	31.50 [1.240]	—	1546551-9
10	35.00 [1.378]	—	1-1546551-0
11	38.50 [1.516]	—	1-1546551-1
12	42.00 [1.654]	—	1-1546551-2
13	45.50 [1.791]	—	1-1546551-3

No. of Positions	Dim. A	Part Numbers	
		Black*	Green
14	49.00 [1.929]	—	1-1546551-4
15	52.50 [2.067]	—	1-1546551-5
16	56.00 [2.205]	—	1-1546551-6
17	59.50 [2.343]	—	1-1546551-7
18	63.00 [2.480]	—	1-1546551-8
19	66.50 [2.618]	—	1-1546551-9
20	70.00 [2.756]	—	2-1546551-0
21	73.50 [2.894]	—	2-1546551-1
22	77.00 [3.031]	—	2-1546551-2
23	80.50 [3.169]	—	2-1546551-3
24	84.00 [3.307]	—	2-1546551-4
25	87.50 [3.445]	—	2-1546551-5

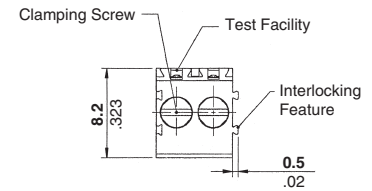
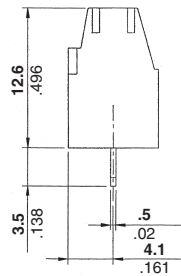
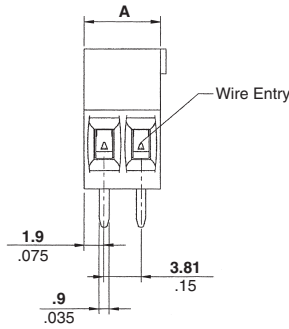
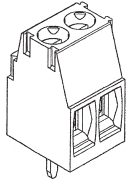
\*Wave solder process capable to 265°C [509°F] for 10 seconds

**Note:** All part numbers are RoHS Compliant.

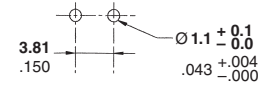
**Board Mount, Side Wire Entry (Continued)**

**Board Mount w/Interlock,  
3.81 mm Centerline,  
Side Wire Entry  
Color – Green**

**UL Rating – 300 V, 12 A  
14-30 AWG**



**Recommended PC Board Layout**



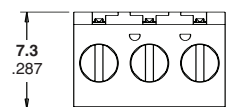
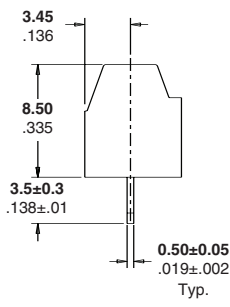
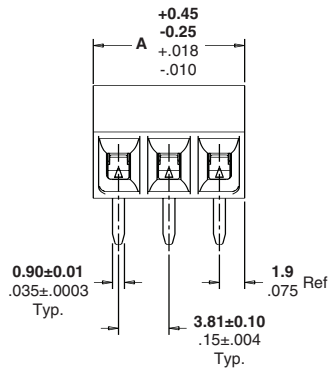
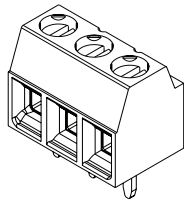
**Suggested Screw Torque—  
2.2 in.-lbs.**

No. of Positions	Dim. A	Part Numbers
2	7.62 [0.300]	284392-2
3	11.43 [0.450]	284392-3
4	15.24 [0.600]	284392-4
5	19.05 [0.750]	284392-5
6	22.86 [0.900]	284392-6
7	26.67 [1.050]	284392-7
8	30.48 [1.200]	284392-8
9	34.29 [1.350]	284392-9
10	38.10 [1.500]	1-284392-0
11	41.91 [1.650]	1-284392-1
12	45.72 [1.800]	1-284392-2
13	49.53 [1.950]	1-284392-3

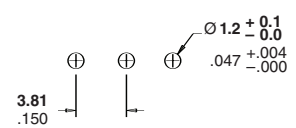
No. of Positions	Dim. A	Part Numbers
14	53.34 [2.100]	1-284392-4
15	57.15 [2.250]	1-284392-5
16	60.96 [2.400]	1-284392-6
17	64.77 [2.550]	1-284392-7
18	68.58 [2.700]	1-284392-8
19	72.39 [2.850]	1-284392-9
20	76.20 [3.000]	2-284392-0
21	80.01 [3.150]	2-284392-1
22	83.82 [3.300]	2-284392-2
23	87.63 [3.450]	2-284392-3
24	91.44 [3.600]	2-284392-4
25	95.25 [3.750]	2-284392-5

**Board Mount,  
3.81 mm Centerline,  
Side Wire Entry**

**UL Rating – 150 V, 12 A  
16-28 AWG**



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers	
		Black*	Green
2	7.62 [.300]	1776113-2	1546552-2
3	11.43 [.450]	1776113-3	1546552-3
4	15.24 [.600]	1776113-4	1546552-4
5	19.05 [.750]	1776113-5	1546552-5
6	22.86 [.900]	1776113-6	1546552-6
7	26.67 [1.050]	1776113-7	1546552-7
8	30.48 [1.200]	1776113-8	1546552-8
9	34.29 [1.350]	1776113-9	1546552-9
10	38.10 [1.500]	1-1776113-0	1-1546552-0
11	41.91 [1.650]	1-1776113-1	1-1546552-1
12	45.72 [1.800]	1-1776113-2	1-1546552-2
13	49.53 [1.950]	—	1-1546552-3

No. of Positions	Dim. A	Part Numbers	
		Black*	Green
14	53.34 [2.100]	—	1-1546552-4
15	57.15 [2.250]	—	1-1546552-5
16	60.96 [2.400]	—	1-1546552-6
17	64.77 [2.550]	—	1-1546552-7
18	68.58 [2.700]	—	1-1546552-8
19	72.39 [2.850]	—	1-1546552-9
20	76.20 [3.000]	—	2-1546552-0
21	80.01 [3.150]	—	2-1546552-1
22	83.82 [3.300]	—	2-1546552-2
23	87.63 [3.450]	—	2-1546552-3
24	91.44 [3.600]	—	2-1546552-4
25	95.25 [3.750]	—	2-1546552-5

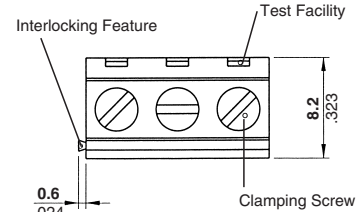
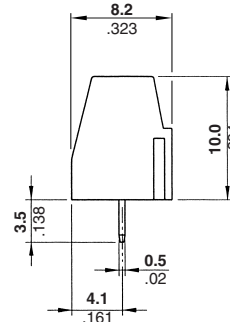
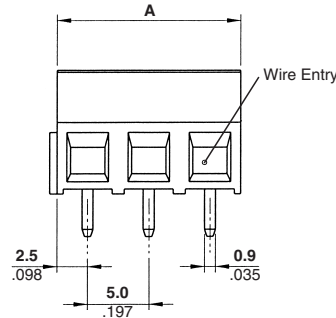
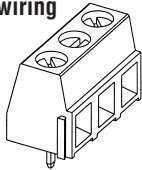
\*Wave solder process capable to 265°C [509°F] for 10 seconds

**Note:** All part numbers are RoHS Compliant.

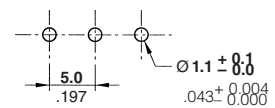
**Board Mount, Side Wire Entry (Continued)**

**Board Mount w/Interlock, Low Profile, 5.0 mm Centerline, Side Wire Entry**

**UL Rating – 300 V, 13.5 A  
16-30 AWG  
10 A for field wiring applications**



**Recommended PC Board Layout**



**Suggested Screw Torque—**  
6.0 in.-lbs.

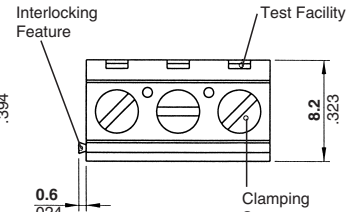
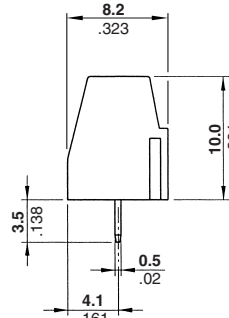
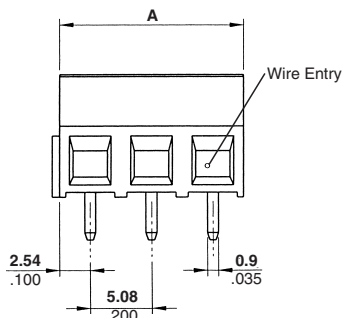
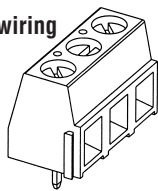
No. of Positions	Dim. A	Part Numbers		
		Green	Gray	Black*
2	10.0 [0.394]	282836-2	1546216-2	1776118-2
3	15.0 [0.591]	282836-3	1546216-3	1776118-3
4	20.0 [0.787]	282836-4	1546216-4	1776118-4
5	25.0 [0.984]	282836-5	1546216-5	1776118-5
6	30.0 [1.181]	282836-6	1546216-6	1776118-6
7	35.0 [1.378]	282836-7	1546216-7	1776118-7
8	40.0 [1.575]	282836-8	1546216-8	1776118-8
9	45.0 [1.772]	282836-9	1546216-9	—
10	50.0 [1.968]	1-282836-0	1-1546216-0	—
11	55.0 [2.165]	1-282836-1	1-1546216-1	—
12	60.0 [2.362]	1-282836-2	1-1546216-2	—
13	65.0 [2.559]	1-282836-4	1-1546216-3	—

No. of Positions	Dim. A	Part Numbers		
		Green	Gray	Black*
14	70.0 [2.756]	1-282836-5	1-1546216-4	—
15	75.0 [2.953]	1-282836-6	1-1546216-5	—
16	80.0 [3.150]	1-282836-7	1-1546216-6	—
17	85.0 [3.346]	1-282836-8	1-1546216-7	—
18	90.0 [3.543]	1-282836-9	1-1546216-8	—
19	95.0 [3.740]	2-282836-0	1-1546216-9	—
20	100.0 [3.937]	2-282836-1	2-1546216-0	—
21	105.0 [4.134]	2-282836-2	2-1546216-1	—
22	110.0 [4.331]	2-282836-3	2-1546216-2	—
23	115.0 [4.528]	2-282836-4	2-1546216-3	—
24	120.0 [4.724]	2-282836-5	2-1546216-4	—
25	125.0 [4.921]	2-282836-6	2-1546216-5	—

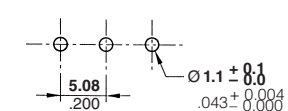
\*Wave solder process capable to 265°C [509°F] for 10 seconds

**Board Mount w/Interlock, Low Profile, 5.08 mm Centerline, Side Wire Entry**

**UL Rating – 300 V, 13.5 A  
16-30 AWG  
10 A for field wiring applications**



**Recommended PC Board Layout**



**Suggested Screw Torque—**  
6.0 in.-lbs.

No. of Positions	Dim. A	Part Numbers		
		Green	Gray	Black*
2	10.16 [0.400]	282837-2	1546217-2	1776119-2
3	15.24 [0.600]	282837-3	1546217-3	1776119-3
4	20.32 [0.800]	282837-4	1546217-4	1776119-4
5	25.40 [1.000]	282837-5	1546217-5	1776119-5
6	30.48 [1.200]	282837-6	1546217-6	1776119-6
7	35.56 [1.400]	282837-7	1546217-7	1776119-7
8	40.64 [1.600]	282837-8	1546217-8	1776119-8
9	45.72 [1.800]	282837-9	1546217-9	—
10	50.80 [2.000]	1-282837-0	1-1546217-0	—
11	55.88 [2.200]	1-282837-1	1-1546217-1	—
12	60.96 [2.400]	1-282837-2	1-1546217-2	—
13	66.04 [2.600]	1-282837-6	1-1546217-6	—

No. of Positions	Dim. A	Part Numbers		
		Green	Gray	Black*
14	71.12 [2.800]	1-282837-7	1-1546217-7	—
15	76.20 [3.000]	1-282837-8	1-1546217-8	—
16	81.28 [3.200]	1-282837-9	1-1546217-9	—
17	86.36 [3.400]	2-282837-0	2-1546217-0	—
18	91.44 [3.600]	2-282837-1	2-1546217-1	—
19	96.52 [3.800]	2-282837-2	2-1546217-2	—
20	101.60 [4.000]	2-282837-3	2-1546217-3	—
21	106.68 [4.200]	2-282837-4	2-1546217-4	—
22	111.76 [4.400]	2-282837-5	2-1546217-5	—
23	116.84 [4.600]	2-282837-6	2-1546217-6	—
24	121.92 [4.800]	2-282837-7	2-1546217-7	—
25	127.00 [5.000]	2-282837-8	2-1546217-8	—

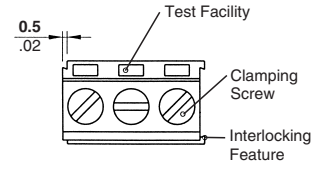
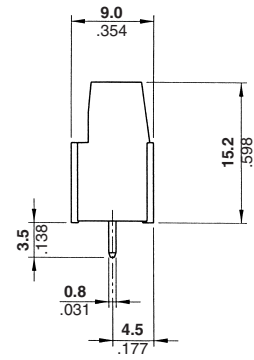
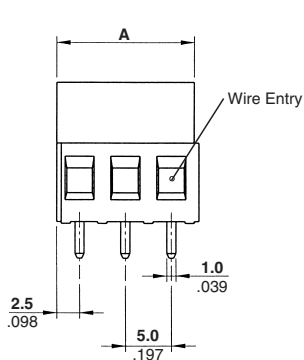
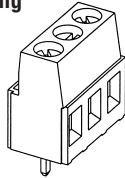
\*Wave solder process capable to 265°C [509°F] for 10 seconds

**Note:** All part numbers are RoHS Compliant.

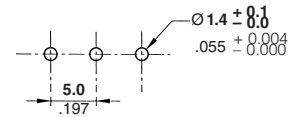
**Board Mount, Side Wire Entry (Continued)**

**Board Mount w/Interlock,  
5.0 mm Centerline,  
Side Wire Entry**

**UL Rating – 300 V, 17.5 A  
12-30 AWG  
15 A for field wiring  
applications**



**Recommended PC Board Layout**



**Suggested Screw Torque—  
7.0 in.-lbs.**

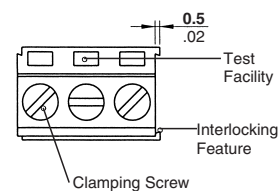
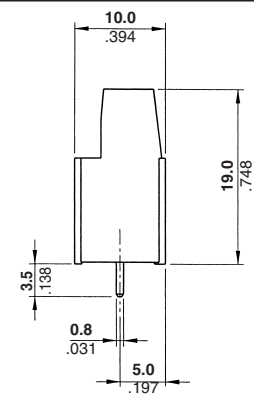
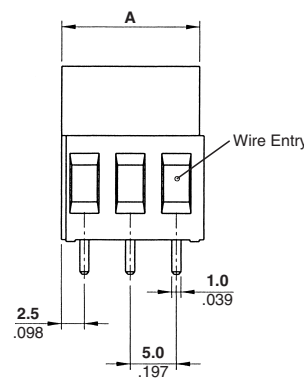
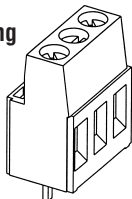
No. of Positions	Dim. A	Part Numbers		
		Green	Blue	Black
2	10.0 [0.394]	796683-2	796681-2	796682-2
3	15.0 [0.591]	796683-3	796681-3	796682-3
4	20.0 [0.787]	796683-4	796681-4	796682-4
5	25.0 [0.984]	796683-5	796681-5	796682-5
6	30.0 [1.181]	796683-6	796681-6	796682-6
7	35.0 [1.378]	796683-7	796681-7	796682-7
8	40.0 [1.575]	796683-8	796681-8	796682-8
9	45.0 [1.772]	796683-9	796681-9	796682-9
10	50.0 [1.968]	1-796683-0	1-796681-0	1-796682-0
11	55.0 [2.165]	1-796683-1	1-796681-1	1-796682-1
12	60.0 [2.362]	1-796683-2	1-796681-2	1-796682-2
13	65.0 [2.559]	1-796683-3	1-796681-3	1-796682-3

No. of Positions	Dim. A	Part Numbers		
		Green	Blue	Black
14	70.0 [2.756]	1-796683-4	1-796681-4	1-796682-4
15	75.0 [2.953]	1-796683-5	1-796681-5	1-796682-5
16	80.0 [3.150]	1-796683-6	1-796681-6	1-796682-6
17	85.0 [3.346]	1-796683-7	1-796681-7	1-796682-7
18	90.0 [3.543]	1-796683-8	1-796681-8	1-796682-8
19	95.0 [3.740]	1-796683-9	1-796681-9	1-796682-9
20	100.0 [3.937]	2-796683-0	2-796681-0	2-796682-0
21	105.0 [4.134]	2-796683-1	2-796681-1	2-796682-1
22	110.0 [4.331]	2-796683-2	2-796681-2	2-796682-2
23	115.0 [4.528]	2-796683-3	2-796681-3	2-796682-3
24	120.0 [4.724]	2-796683-4	2-796681-4	2-796682-4
25	125.0 [4.921]	2-796683-5	2-796681-5	2-796682-5

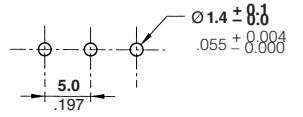
**Note:** BUCHANAN Terminal Block Series B02C4VxxT has been superceded/replaced with 796681-x.  
RDI Terminal Block Series 5KEV-xx has been superceded/replaced with 796683-x (green) or 796682-x (black).

**Board Mount w/Interlock,  
5.0 mm Centerline,  
Side Wire Entry  
Color – Green**

**UL Rating – 300 V, 24 A  
12-30 AWG  
20 A for field wiring  
applications**



**Recommended PC Board Layout**



**Suggested Screw Torque—  
7.0 in.-lbs.**

No. of Positions	Dim. A	Part Number
2	10.0 [.394]	282856-2
3	15.0 [.591]	282856-3
4	20.0 [.787]	282856-4
5	25.0 [.984]	282856-5
6	30.0 [1.181]	282856-6
7	35.0 [1.378]	282856-7
8	40.0 [1.575]	282856-8
9	45.0 [1.772]	282856-9
10	50.0 [1.968]	1-282856-0
11	55.0 [2.165]	1-282856-1
12	60.0 [2.362]	1-282856-2
13	65.0 [2.559]	1-282856-3

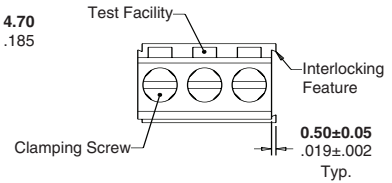
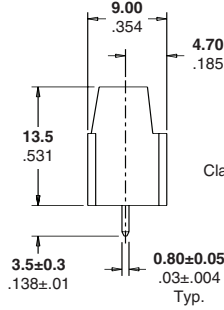
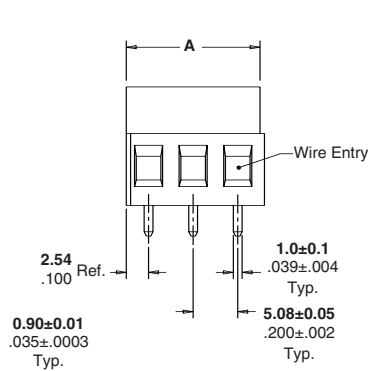
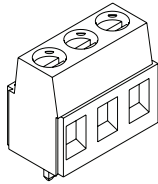
No. of Positions	Dim. A	Part Number
14	70.0 [2.756]	1-282856-5
15	75.0 [2.953]	1-282856-6
16	80.0 [3.150]	1-282856-7
17	85.0 [3.346]	1-282856-8
18	90.0 [3.543]	1-282856-9
19	95.0 [3.740]	2-282856-0
20	100.0 [3.937]	2-282856-1
21	105.0 [4.134]	2-282856-2
22	110.0 [4.331]	2-282856-3
23	115.0 [4.528]	2-282856-4
24	120.0 [4.724]	2-282856-5
25	125.0 [4.921]	2-282856-6

**Note:** All part numbers are RoHS Compliant.

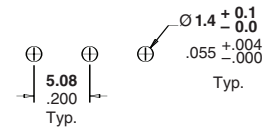
**Board Mount, Side Wire Entry (Continued)**

**Board Mount w/Interlock, 5.08 mm Centerline, Side Wire Entry**

**UL Rating – 300 V, 17.5 A  
12-30 AWG  
15 A for field wiring applications**



**Recommended PC Board Layout**



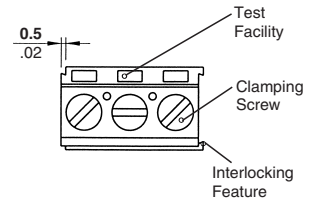
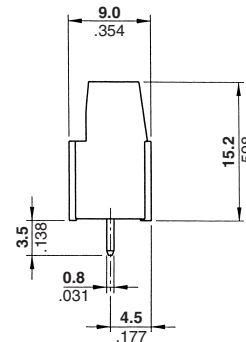
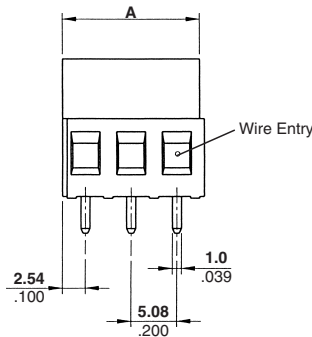
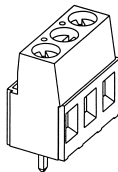
No. of Positions	Dim. A	Part Numbers	
		Black*	Green
2	10.16 [0.400]	1776126-2	796911-2
3	15.24 [0.600]	1776126-3	796911-3
4	20.32 [0.800]	—	796911-4
5	25.40 [1.000]	—	796911-5
6	30.48 [1.200]	—	796911-6
7	35.56 [1.400]	—	796911-7
8	40.64 [1.600]	—	796911-8
9	45.72 [1.800]	—	796911-9
10	50.80 [2.000]	—	1-796911-0
11	55.88 [2.200]	—	1-796911-1
12	60.96 [2.400]	—	1-796911-2
13	66.04 [2.600]	—	1-796911-3

\*Wave solder process capable to 265°C [509°F] for 10 seconds

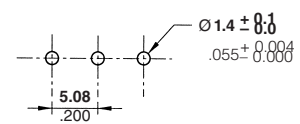
No. of Positions	Dim. A	Part Numbers	
		Black*	Green
14	71.12 [2.800]	—	1-796911-4
15	76.20 [3.000]	—	1-796911-5
16	81.28 [3.200]	—	1-796911-6
17	86.36 [3.400]	—	1-796911-7
18	91.44 [3.600]	—	1-796911-8
19	96.52 [3.800]	—	1-796911-9
20	101.60 [4.000]	—	2-796911-0
21	106.68 [4.200]	—	2-796911-1
22	111.76 [4.400]	—	2-796911-2
23	116.84 [4.600]	—	2-796911-3
24	121.92 [4.800]	—	2-796911-4
25	127.00 [5.000]	—	2-796911-5

**Board Mount w/Interlock, 5.08 mm Centerline, Side Wire Entry**

**UL Rating – 300 V, 17.5 A  
12-30 AWG  
15 A for field wiring applications**



**Recommended PC Board Layout**



**Suggested Screw Torque—**  
7.0 in.-lbs.

No. of Positions	Dim. A	Part Numbers		
		Green	Black	Gray
2	10.16 [0.400]	282841-2	796949-2	1546218-2
3	15.24 [0.600]	282841-3	796949-3	1546218-3
4	20.32 [0.800]	282841-4	796949-4	1546218-4
5	25.40 [1.000]	282841-5	796949-5	1546218-5
6	30.48 [1.200]	282841-6	796949-6	1546218-6
7	35.56 [1.400]	282841-7	796949-7	1546218-7
8	40.64 [1.600]	282841-8	796949-8	1546218-8
9	45.72 [1.800]	282841-9	796949-9	1546218-9
10	50.80 [2.000]	1-282841-0	1-796949-0	1-1546218-0
11	55.88 [2.200]	1-282841-1	1-796949-1	1-1546218-1
12	60.96 [2.400]	1-282841-2	1-796949-2	1-1546218-2
13	66.04 [2.600]	1-282841-6	1-796949-3	1-1546218-3

No. of Positions	Dim. A	Part Numbers		
		Green	Black	Gray
14	71.12 [2.800]	1-282841-7	1-796949-4	1-1546218-4
15	76.20 [3.000]	1-282841-8	1-796949-5	1-1546218-5
16	81.28 [3.200]	1-282841-9	1-796949-6	1-1546218-6
17	86.36 [3.400]	2-282841-0	1-796949-7	1-1546218-7
18	91.44 [3.600]	2-282841-1	1-796949-8	1-1546218-8
19	96.52 [3.800]	2-282841-2	1-796949-9	1-1546218-9
20	101.60 [4.000]	2-282841-3	2-796949-0	2-1546218-0
21	106.68 [4.200]	2-282841-4	2-796949-1	2-1546218-1
22	111.76 [4.400]	2-282841-5	2-796949-2	2-1546218-2
23	116.84 [4.600]	2-282841-6	2-796949-3	2-1546218-3
24	121.92 [4.800]	2-282841-7	2-796949-4	2-1546218-4
25	127.00 [5.000]	2-282841-8	2-796949-5	2-1546218-5



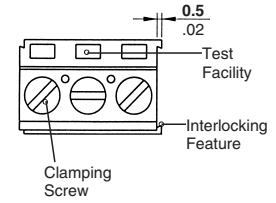
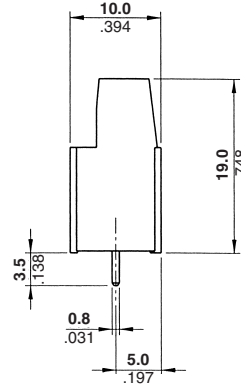
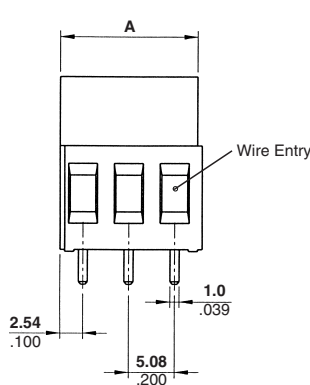
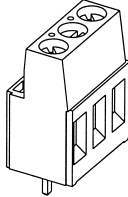


**Note:** All part numbers are RoHS Compliant.

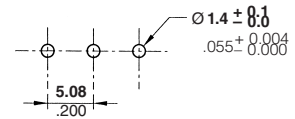
**Board Mount, Side Wire Entry (Continued)**

**Board Mount w/Interlock, 5.08 mm Centerline, Side Wire Entry**  
Color – Green

**UL Rating – 300 V, 24 A**  
**12-30 AWG**  
**20 A for field wiring applications**



**Recommended PC Board Layout**



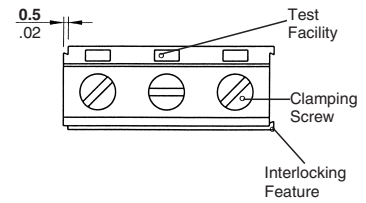
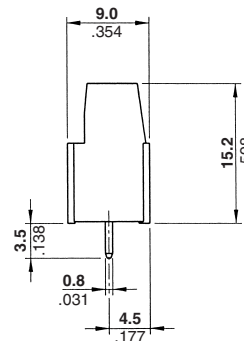
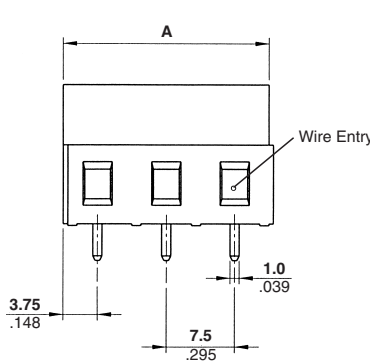
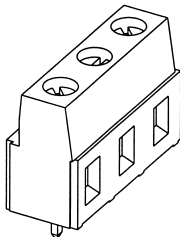
**Suggested Screw Torque—**  
7.0 in.-lbs.

No. of Positions	Dim. A	Part Numbers
2	10.16 [0.400]	282857-2
3	15.24 [0.600]	282857-3
4	20.32 [0.800]	282857-4
5	25.40 [1.000]	282857-5
6	30.48 [1.200]	282857-6
7	35.56 [1.400]	282857-7
8	40.64 [1.600]	282857-8
9	45.72 [1.800]	282857-9
10	50.80 [2.000]	1-282857-0
11	55.88 [2.200]	1-282857-1
12	60.96 [2.400]	1-282857-2
13	66.04 [2.600]	1-282857-3

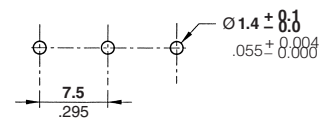
No. of Positions	Dim. A	Part Numbers
14	71.12 [2.800]	1-282857-4
15	76.20 [3.000]	1-282857-5
16	81.28 [3.200]	1-282857-6
17	86.36 [3.400]	1-282857-7
18	91.44 [3.600]	1-282857-8
19	96.52 [3.800]	1-282857-9
20	101.60 [4.000]	2-282857-0
21	106.68 [4.200]	2-282857-1
22	111.76 [4.400]	2-282857-2
23	116.84 [4.600]	2-282857-3
24	121.92 [4.800]	2-282857-4
25	127.00 [5.000]	2-282857-5

**Board Mount w/Interlock, 7.5 mm Centerline, Side Wire Entry**  
Color – Green

**UL Rating – 300 V, 17.5 A**  
**12-30 AWG**  
**15 A for field wiring applications**



**Recommended PC Board Layout**



**Suggested Screw Torque—**  
7.0 in.-lbs.

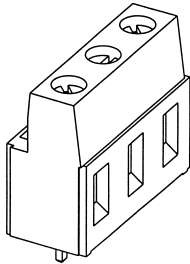
No. of Positions	Dim. A	Part Numbers
2	15.0 [0.591]	282844-2
3	22.5 [0.886]	282844-3
4	30.0 [1.181]	282844-4

**Note:** All part numbers are RoHS Compliant.

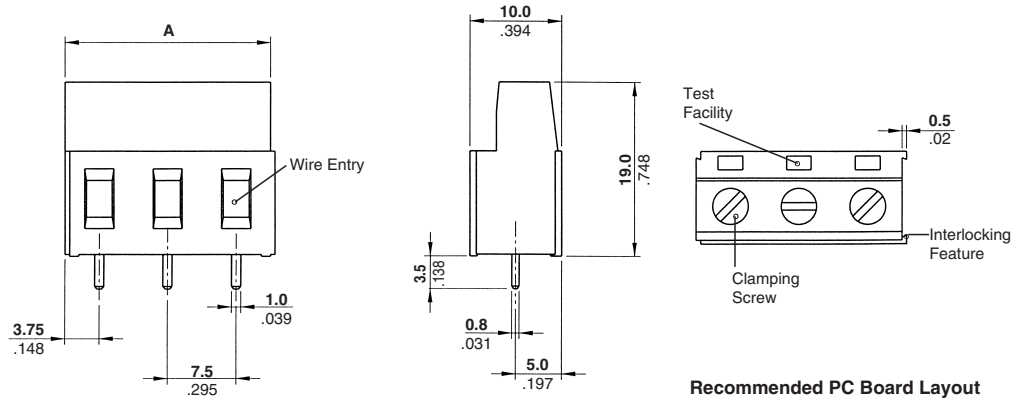
**Board Mount, Side Wire Entry (Continued)**

**Board Mount w/Interlock, 7.5 mm Centerline, Side Wire Entry**

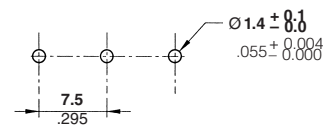
**UL Rating – 300 V, 24 A  
12-30 AWG  
20 A for field wiring applications**



**Suggested Screw Torque—**  
7.0 in.-lbs.



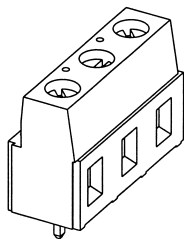
**Recommended PC Board Layout**



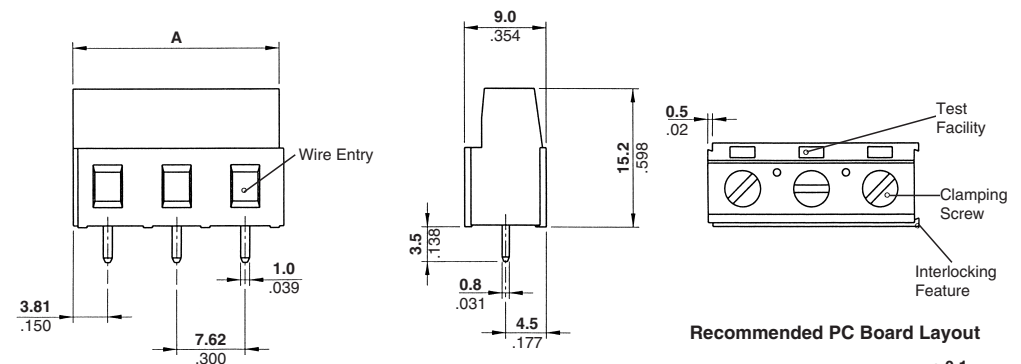
No. of Positions	Dim. A	Part Numbers	
		Green	Black
2	15.0 [0.591]	282860-2	1546062-2
3	22.5 [0.886]	282860-3	1546062-3
4	30.0 [1.181]	282860-4	1546062-4

**Board Mount w/Interlock, 7.62 mm Centerline, Side Wire Entry  
Color – Green**

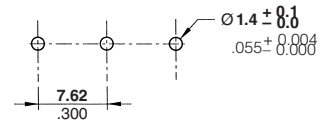
**UL Rating – 300 V, 17.5 A  
12-30 AWG  
15 A for field wiring applications**



**Suggested Screw Torque—**  
7.0 in.-lbs.



**Recommended PC Board Layout**



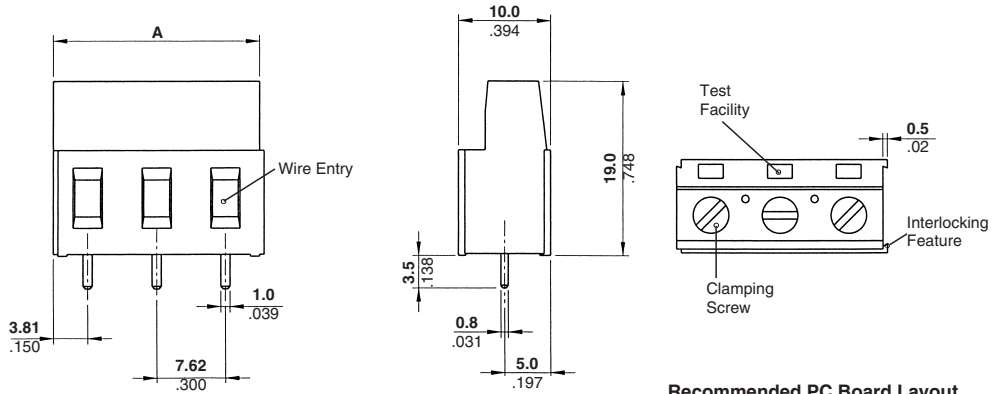
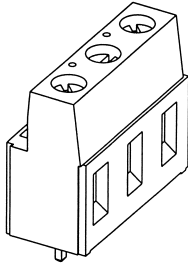
No. of Positions	Dim. A	Part Numbers
2	15.24 [.600]	282845-2
3	22.86 [.900]	282845-3

**Note:** All part numbers are RoHS Compliant.

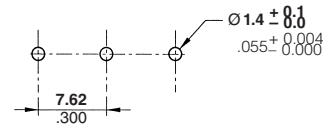
**Board Mount, Side Wire Entry (Continued)**

**Board Mount w/Interlock,  
7.62 mm Centerline,  
Side Wire Entry  
Color – Green**

**UL Rating – 300 V, 24 A  
12-30 AWG  
20 A for field wiring applications**



**Recommended PC Board Layout**

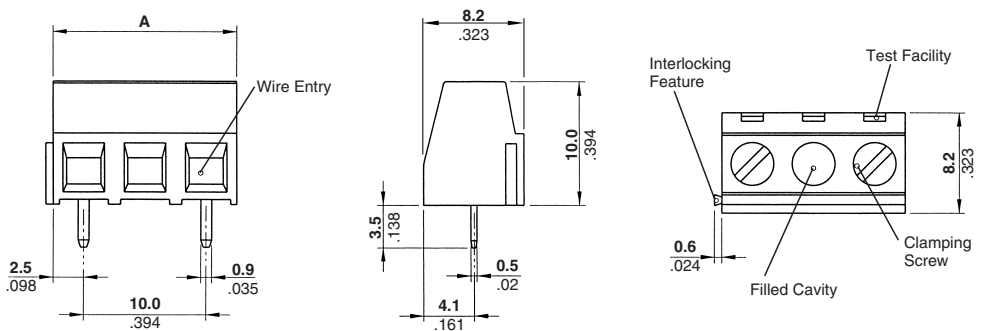
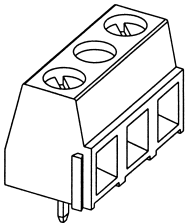


**Suggested Screw Torque—**  
7.0 in.-lbs.

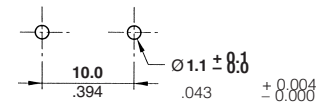
No. of Positions	Dim. A	Part Numbers
2	15.24 [.600]	282861-2
3	22.86 [.900]	282861-3

**Board Mount, Low Profile,  
10.0 mm Centerline,  
Side Wire Entry**

**UL Rating – 600 V, 13.5 A  
16-30 AWG  
10 A for field wiring applications**



**Recommended PC Board Layout**



**Suggested Screw Torque—**  
6.0 in.-lbs.

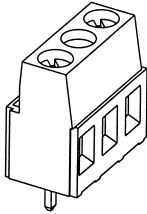
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	15.0 [0.591]	282838-2	1776112-2
3	25.0 [0.984]	282838-3	1776112-3
4	35.0 [1.378]	282838-4	1776112-4
5	45.0 [1.772]	282838-5	—
6	55.0 [2.165]	282838-6	—
7	65.0 [2.559]	282838-8	—
8	75.0 [2.953]	282838-9	—
9	85.0 [3.346]	1-282838-0	—
10	95.0 [3.740]	1-282838-1	—
11	105.0 [4.134]	1-282838-2	—
12	115.0 [4.528]	1-282838-3	—
13	125.0 [4.921]	1-282838-4	—

\*Wave solder process capable to 265°C [509°F] for 10 seconds

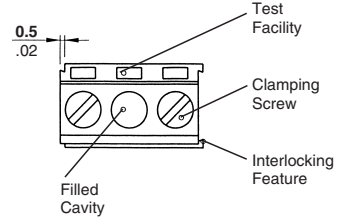
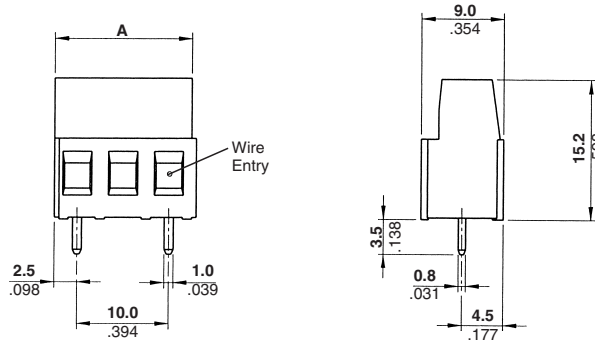
**Note:** All part numbers are RoHS Compliant.

**Board Mount, Side Wire Entry (Continued)**

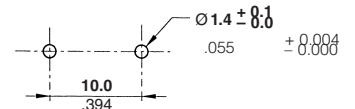
**Board Mount**  
**10.0 mm Centerline,**  
**Side Wire Entry**  
**Color – Green**  
**UL Rating – 600 V, 17.5 A**  
**12-30 AWG**  
**15 A for field wiring applications**



**Suggested Screw Torque—**  
 7.0 in.-lbs.

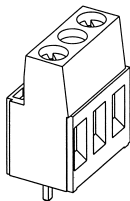


**Recommended PC Board Layout**

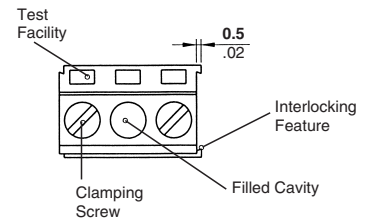
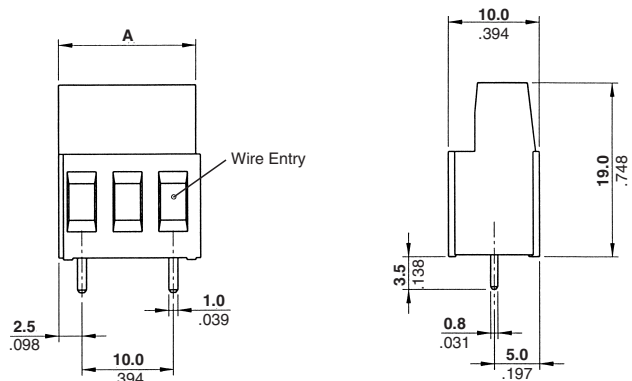


No. of Positions	Dim. A	Part Numbers
2	15.0 [0.591]	282842-2
3	25.0 [0.984]	282842-3
4	35.0 [1.378]	282842-4
5	45.0 [1.772]	282842-5
6	55.0 [2.165]	282842-6
7	65.0 [2.559]	282842-7
8	75.0 [2.953]	282842-8
9	85.0 [3.346]	282842-9
10	95.0 [3.740]	1-282842-0
11	105.0 [4.134]	1-282842-1
12	115.0 [4.528]	1-282842-2
13	125.0 [4.921]	1-282842-3

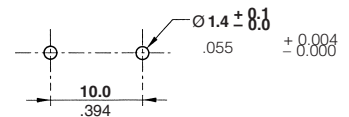
**Board Mount**  
**10.0 mm Centerline,**  
**Side Wire Entry**  
**Color – See Chart**  
**UL Rating – 600 V, 24 A**  
**12-30 AWG**  
**20 A for field wiring applications**



**Suggested Screw Torque—**  
 7.0 in.-lbs.



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers	
		Green	Blue
2	15.0 [0.591]	282858-2	796704-2
3	25.0 [0.984]	282858-3	796704-3
4	35.0 [1.378]	282858-4	796704-4
5	45.0 [1.772]	282858-5	796704-5
6	55.0 [2.165]	282858-6	796704-6
7	65.0 [2.559]	282858-7	796704-7

No. of Positions	Dim. A	Part Numbers	
		Green	Blue
8	75.0 [2.953]	282858-8	796704-8
9	85.0 [3.346]	282858-9	796704-9
10	95.0 [3.740]	1-282858-0	1-796704-0
11	105.0 [4.134]	1-282858-1	1-796704-1
12	115.0 [4.528]	1-282858-2	1-796704-2
13	125.0 [4.921]	1-282858-3	1-796704-3

**Note:** BUCHANAN Terminal Block Series B03C5VxxT has been superseded/replaced with 796704-x.

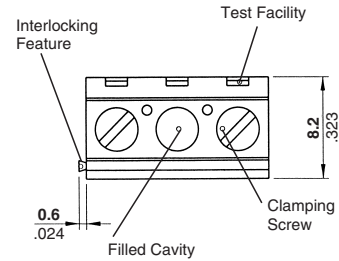
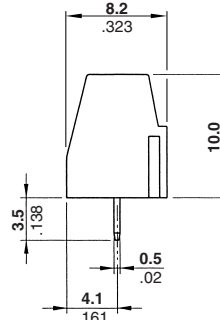
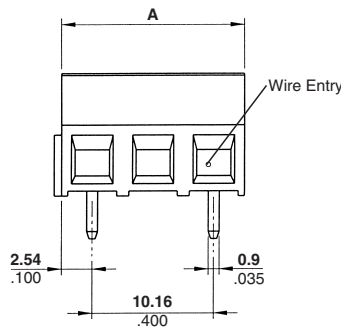
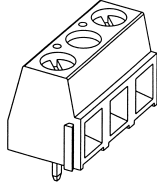


**Note:** All part numbers are RoHS Compliant.

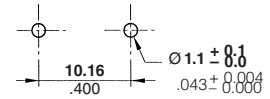
**Board Mount, Side Wire Entry (Continued)**

**Board Mount w/Interlock, Low Profile, 10.16 mm Centerline, Side Wire Entry**

**UL Rating – 300 V, 13.5 A 16-30 AWG 15 A for field wiring applications**



**Recommended PC Board Layout**



**Suggested Screw Torque—**  
6.0 in.-lbs.

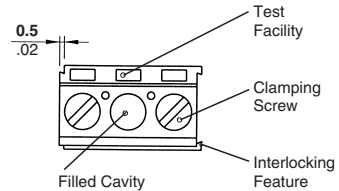
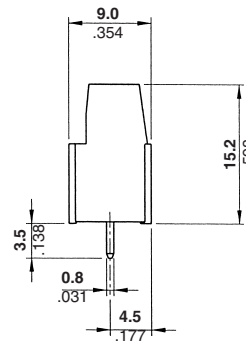
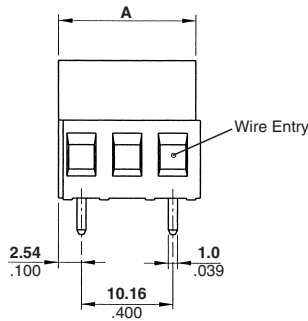
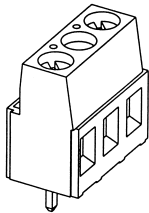
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	15.24 [0.600]	282839-2	1776123-2
3	25.40 [1.000]	282839-3	1776123-3
4	35.56 [1.400]	282839-4	1776123-4
5	45.72 [1.800]	282839-5	—
6	55.88 [2.200]	282839-6	—
7	66.04 [2.600]	282839-7	—

\*Wave solder process capable to 265°C [509°F] for 10 seconds

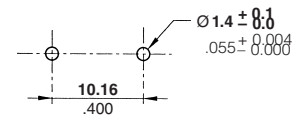
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
8	76.20 [3.000]	282839-8	—
9	86.36 [3.400]	282839-9	—
10	96.52 [3.800]	1-282839-0	—
11	106.68 [4.200]	1-282839-1	—
12	116.84 [4.600]	1-282839-2	—
13	127.00 [5.000]	1-282839-3	—

**Board Mount 10.16 mm Centerline, Side Wire Entry Color – Green**

**UL Rating – 600 V, 17.5 A 12-30 AWG 15 A for field wiring applications**



**Recommended PC Board Layout**



**Suggested Screw Torque—**  
7.0 in.-lbs.

No. of Positions	Dim. A	Part Numbers
2	15.24 [0.600]	282843-2
3	25.40 [1.000]	282843-3
4	35.56 [1.400]	282843-4
5	45.72 [1.800]	282843-5
6	55.88 [2.200]	282843-6
7	66.04 [2.600]	282843-7

No. of Positions	Dim. A	Part Numbers
8	76.20 [3.000]	282843-8
9	86.36 [3.400]	282843-9
10	96.52 [3.800]	1-282843-0
11	106.68 [4.200]	1-282843-1
12	116.84 [4.600]	1-282843-2
13	127.00 [5.000]	1-282843-3

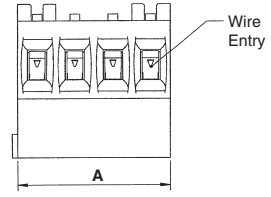
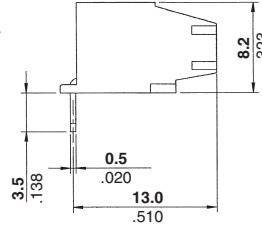
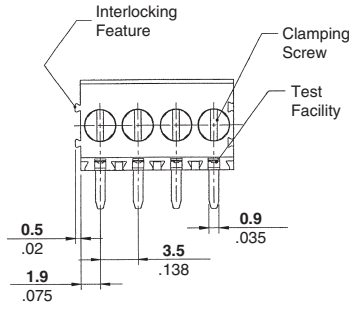
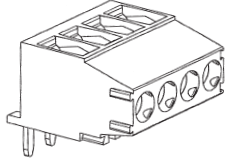


**Note:** All part numbers are RoHS Compliant.

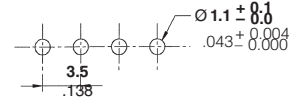
**Board Mount, Top Wire Entry**

**Board Mount w/Interlock, 3.5 mm Centerline, Top Wire Entry, Color – Green**

**UL Rating – 300 V, 12 A 14-30 AWG**



**Recommended PC Board Layout**



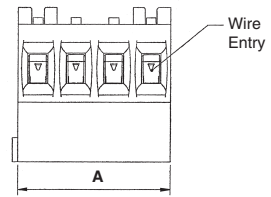
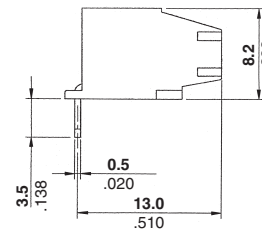
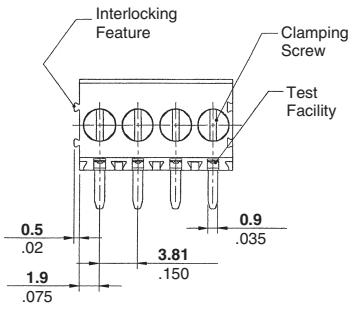
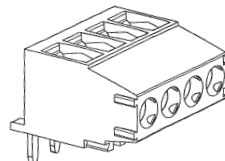
**Suggested Screw Torque—**  
2.2 in.-lbs.

No. of Positions	Dim. A	Part Numbers
2	7.0 [0.276]	284414-2
3	10.5 [0.413]	284414-3
4	14.0 [0.551]	284414-4
5	17.5 [0.689]	284414-5
6	21.0 [0.827]	284414-6
7	24.5 [0.965]	284414-7
8	28.0 [1.102]	284414-8
9	31.5 [1.240]	284414-9
10	35.0 [1.378]	1-284414-0
11	38.5 [1.516]	1-284414-1
12	42.0 [1.654]	1-284414-2
13	45.5 [1.791]	1-284414-3

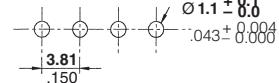
No. of Positions	Dim. A	Part Numbers
14	49.0 [1.929]	1-284414-4
15	52.5 [2.067]	1-284414-5
16	56.0 [2.205]	1-284414-6
17	59.5 [2.343]	1-284414-7
18	63.0 [2.480]	1-284414-8
19	66.5 [2.618]	1-284414-9
20	70.0 [2.756]	2-284414-0
21	73.5 [2.894]	2-284414-1
22	77.0 [3.031]	2-284414-2
23	80.5 [3.169]	2-284414-3
24	84.0 [3.307]	2-284414-4
25	87.5 [3.445]	2-284414-5

**Board Mount w/Interlock, 3.81 mm Centerline, Top Wire Entry, Color – Green**

**UL Rating – 300 V, 12 A 14-30 AWG**



**Recommended PC Board Layout**



**Suggested Screw Torque—**  
2.2 in.-lbs.

No. of Positions	Dim. A	Part Numbers
2	7.62 [0.300]	284415-2
3	11.43 [0.450]	284415-3
4	15.24 [0.600]	284415-4
5	19.05 [0.750]	284415-5
6	22.86 [0.900]	284415-6
7	26.67 [1.050]	284415-7
8	30.48 [1.200]	284415-8
9	34.29 [1.350]	284415-9
10	38.10 [1.500]	1-284415-0
11	41.91 [1.650]	1-284415-1
12	45.72 [1.800]	1-284415-2
13	49.53 [1.950]	1-284415-3

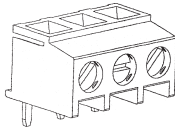
No. of Positions	Dim. A	Part Numbers
14	53.34 [2.100]	1-284415-4
15	57.15 [2.250]	1-284415-5
16	60.96 [2.400]	1-284415-6
17	64.77 [2.550]	1-284415-7
18	68.58 [2.700]	1-284415-8
19	72.39 [2.850]	1-284415-9
20	76.20 [3.000]	2-284415-0
21	80.01 [3.150]	2-284415-1
22	83.82 [3.300]	2-284415-2
23	87.63 [3.450]	2-284415-3
24	91.44 [3.600]	2-284415-4
25	95.25 [3.750]	2-284415-5



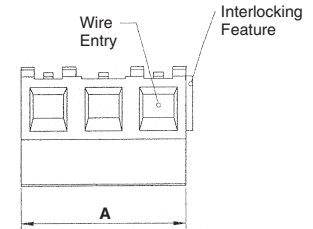
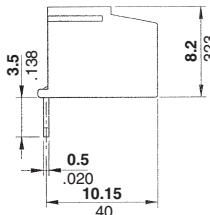
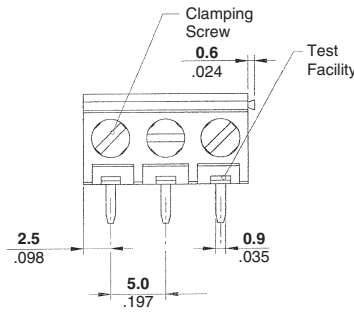
**Note:** All part numbers are RoHS Compliant.

**Board Mount, Top Wire Entry (Continued)**

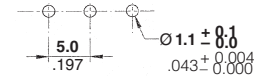
**Board Mount, Low Profile  
5.0 mm Centerline,  
Top Wire Entry**  
**UL Rating – 300 V, 13.5 A  
16-30 AWG  
10 A for field wiring applications**



**Suggested Screw Torque—**  
6.0 in.-lbs.



**Recommended PC Board Layout**

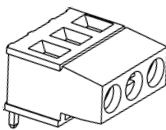


No. of Positions	Dim. A	Part Numbers		
		Green	Gray	Black*
2	10.0 [0.394]	284093-2	1546225-2	1776120-2
3	15.0 [0.591]	284093-3	1546225-3	1776120-3
4	20.0 [0.787]	284093-4	1546225-4	1776120-4
5	25.0 [0.984]	284093-5	1546225-5	1776120-5
6	30.0 [1.181]	284093-6	1546225-6	1776120-6
7	35.0 [1.378]	284093-7	1546225-7	1776120-7
8	40.0 [1.575]	284093-8	1546225-8	1776120-8
9	45.0 [1.772]	284093-9	1546225-9	—
10	50.0 [1.968]	1-284093-0	1-1546225-0	—
11	55.0 [2.165]	1-284093-1	1-1546225-1	—
12	60.0 [2.362]	1-284093-2	1-1546225-2	—
13	65.0 [2.559]	1-284093-3	1-1546225-3	—

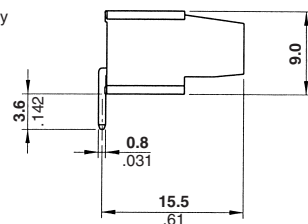
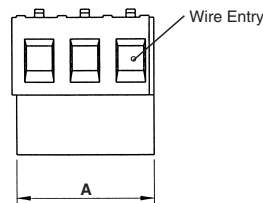
No. of Positions	Dim. A	Part Numbers		
		Green	Gray	Black*
14	70.0 [2.756]	1-284093-4	1-1546225-4	—
15	75.0 [2.953]	1-284093-5	1-1546225-5	—
16	80.0 [3.150]	1-284093-6	1-1546225-6	—
17	85.0 [3.346]	1-284093-7	1-1546225-7	—
18	90.0 [3.543]	1-284093-8	1-1546225-8	—
19	95.0 [3.740]	1-284093-9	1-1546225-9	—
20	100.0 [3.937]	2-284093-0	2-1546225-0	—
21	105.0 [4.134]	2-284093-1	2-1546225-1	—
22	110.0 [4.331]	2-284093-2	2-1546225-2	—
23	115.0 [4.528]	2-284093-3	2-1546225-3	—
24	120.0 [4.724]	2-284093-4	2-1546225-4	—
25	125.0 [4.921]	2-284093-5	2-1546225-5	—

\*Wave solder process capable to 265°C [509°F] for 10 seconds

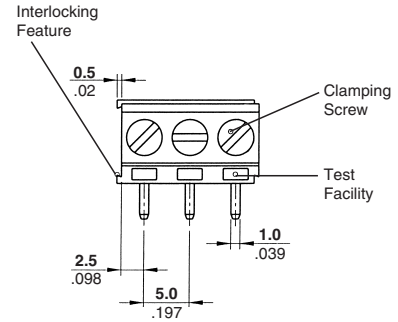
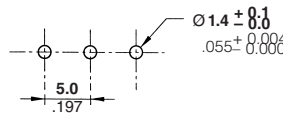
**Board Mount w/Interlock,  
5.0 mm Centerline,  
Top Wire Entry**  
**UL Rating – 300 V, 17.5 A  
12-30 AWG  
15 A for field wiring applications**



**Suggested Screw Torque—**  
7.0 in.-lbs.



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers	
		Green	Blue
2	10.0 [0.394]	796748-2	796684-2
3	15.0 [0.591]	796748-3	796684-3
4	20.0 [0.787]	796748-4	796684-4
5	25.0 [0.984]	796748-5	796684-5
6	30.0 [1.181]	796748-6	796684-6
7	35.0 [1.378]	796748-7	796684-7
8	40.0 [1.575]	796748-8	796684-8
9	45.0 [1.772]	796748-9	796684-9
10	50.0 [1.968]	1-796748-0	1-796684-0
11	55.0 [2.165]	1-796748-1	1-796684-1
12	60.0 [2.362]	1-796748-2	1-796684-2
13	65.0 [2.559]	1-796748-3	1-796684-3

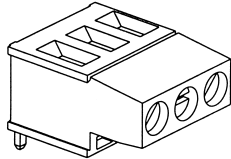
No. of Positions	Dim. A	Part Numbers	
		Green	Blue
14	70.0 [2.756]	1-796748-4	1-796684-4
15	75.0 [2.953]	1-796748-5	1-796684-5
16	80.0 [3.150]	1-796748-6	1-796684-6
17	85.0 [3.346]	1-796748-7	1-796684-7
18	90.0 [3.543]	1-796748-8	1-796684-8
19	95.0 [3.740]	1-796748-9	1-796684-9
20	100.0 [3.937]	2-796748-0	2-796684-0
21	105.0 [4.134]	2-796748-1	2-796684-1
22	110.0 [4.331]	2-796748-2	2-796684-2
23	115.0 [4.528]	2-796748-3	2-796684-3
24	120.0 [4.724]	2-796748-4	2-796684-4
25	125.0 [4.921]	2-796748-5	2-796684-5

**Note:** BUCHANAN Terminal Block Series B02C4HxxT has been superseded/replaced with 796684-xx (blue).

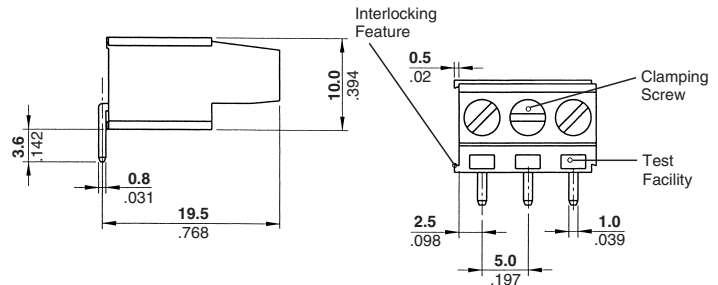
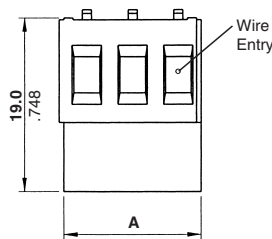
**Note:** All part numbers are RoHS Compliant.

**Board Mount, Top Wire Entry (Continued)**

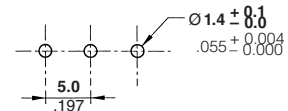
**Board Mount w/Interlock, 5.0 mm Centerline, Top Wire Entry**  
**Color – Green**  
**UL Rating – 300 V, 24 A**  
**12-30 AWG**  
**20 A for field wiring applications**



**Suggested Screw Torque—**  
 7.0 in.-lbs.



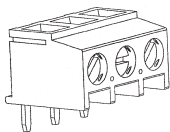
**Recommended PC Board Layout**



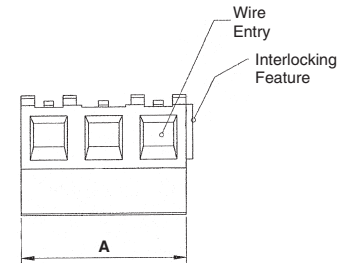
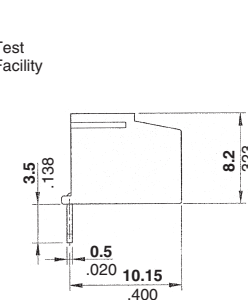
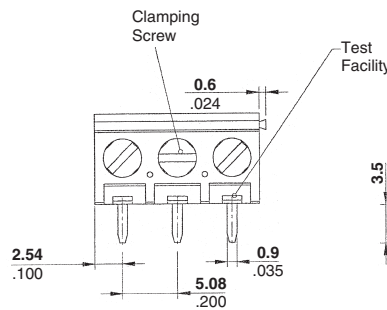
No. of Positions	Dim. A	Part Numbers
2	10.0 [.394]	282862-2
3	15.0 [.591]	282862-3
4	20.0 [.787]	282862-4
5	25.0 [.984]	282862-5
6	30.0 [1.181]	282862-6
7	35.0 [1.378]	282862-7
8	40.0 [1.575]	282862-8
9	45.0 [1.772]	282862-9
10	50.0 [1.968]	1-282862-0
11	55.0 [2.165]	1-282862-1
12	60.0 [2.362]	1-282862-2
13	65.0 [2.559]	1-282862-3

No. of Positions	Dim. A	Part Numbers
14	70.0 [2.756]	1-282862-4
15	75.0 [2.953]	1-282862-5
16	80.0 [3.150]	1-282862-6
17	85.0 [3.346]	1-282862-7
18	90.0 [3.543]	1-282862-8
19	95.0 [3.740]	1-282862-9
20	100.0 [3.937]	2-282862-0
21	105.0 [4.134]	2-282862-1
22	110.0 [4.331]	2-282862-2
23	115.0 [4.528]	2-282862-3
24	120.0 [4.724]	2-282862-4
25	125.0 [4.921]	2-282862-5

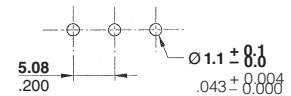
**Board Mount w/Interlock, Low Profile, 5.08 mm Centerline, Top Wire Entry**  
**UL Rating – 300 V, 13.5 A**  
**16-30 AWG**  
**10 A for field wiring applications**



**Suggested Screw Torque—**  
 6.0 in.-lbs.



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	10.16 [0.400]	284094-2	1776121-2
3	15.24 [0.600]	284094-3	1776121-3
4	20.32 [0.800]	284094-4	1776121-4
5	25.40 [1.000]	284094-5	1776121-5
6	30.48 [1.200]	284094-6	1776121-6
7	35.56 [1.400]	284094-7	1776121-7
8	40.64 [1.600]	284094-8	1776121-8
9	45.72 [1.800]	284094-9	—
10	50.80 [2.000]	1-284094-0	—
11	55.88 [2.200]	1-284094-1	—
12	60.96 [2.400]	1-284094-2	—
13	66.04 [2.600]	1-284094-3	—

No. of Positions	Dim. A	Part Numbers	
		Green	Black*
14	71.12 [2.800]	1-284094-4	—
15	76.20 [3.000]	1-284094-5	—
16	81.28 [3.200]	1-284094-6	—
17	86.36 [3.400]	1-284094-7	—
18	91.44 [3.600]	1-284094-8	—
19	96.52 [3.800]	1-284094-9	—
20	101.60 [4.000]	2-284094-0	—
21	106.68 [4.200]	2-284094-1	—
22	111.76 [4.400]	2-284094-2	—
23	116.84 [4.600]	2-284094-3	—
24	121.92 [4.800]	2-284094-4	—
25	127.00 [5.000]	2-284094-5	—

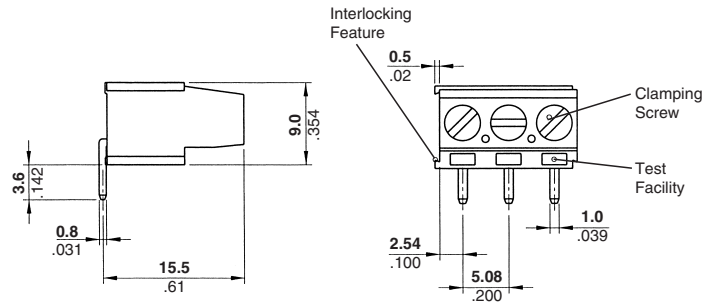
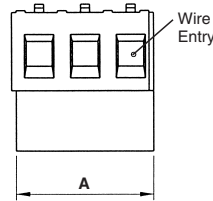
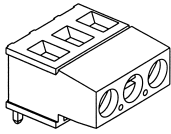
\*Wave solder process capable to 265°C [509°F] for 10 seconds



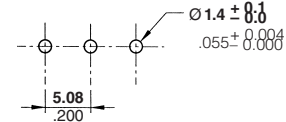
**Note:** All part numbers are RoHS Compliant.

**Board Mount, Top Wire Entry (Continued)**

**Board Mount w/Interlock, 5.08 mm Centerline, Top Wire Entry**  
**UL Rating – 300 V, 17.5 A**  
**12-30 AWG**  
**15 A for field wiring applications**



**Recommended PC Board Layout**

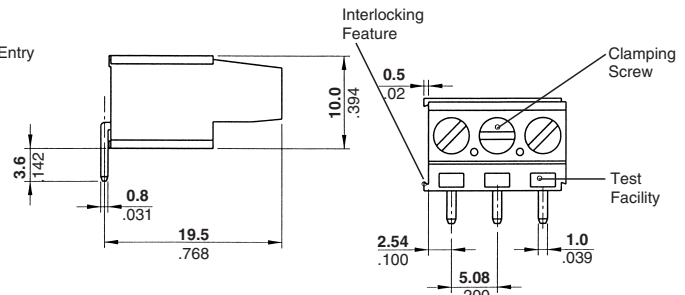
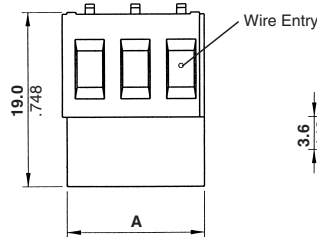
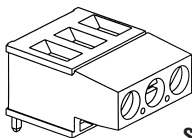


**Suggested Screw Torque—**  
 7.0 in.-lbs.

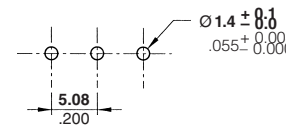
No. of Positions	Dim. A	Part Numbers	
		Green	Black
2	10.16 [0.400]	282851-2	1546073-2
3	15.24 [0.600]	282851-3	1546073-3
4	20.32 [0.800]	282851-4	1546073-4
5	25.40 [1.000]	282851-5	1546073-5
6	30.48 [1.200]	282851-6	1546073-6
7	35.56 [1.400]	282851-7	1546073-7
8	40.64 [1.600]	282851-8	1546073-8
9	45.72 [1.800]	282851-9	1546073-9
10	50.80 [2.000]	1-282851-0	1-1546073-0
11	55.88 [2.200]	1-282851-1	1-1546073-1
12	60.96 [2.400]	1-282851-2	1-1546073-2
13	66.04 [2.600]	1-282851-3	1-1546073-3

No. of Positions	Dim. A	Part Numbers	
		Green	Black
14	71.12 [2.800]	1-282851-4	1-1546073-4
15	76.20 [3.000]	1-282851-5	1-1546073-5
16	81.28 [3.200]	1-282851-6	1-1546073-6
17	86.36 [3.400]	1-282851-7	1-1546073-7
18	91.44 [3.600]	1-282851-8	1-1546073-8
19	96.52 [3.800]	1-282851-9	1-1546073-9
20	101.60 [4.000]	2-282851-0	2-1546073-0
21	106.68 [4.200]	2-282851-1	2-1546073-1
22	111.76 [4.400]	2-282851-2	2-1546073-2
23	116.84 [4.600]	2-282851-3	2-1546073-3
24	121.92 [4.800]	2-282851-4	2-1546073-4
25	127.00 [5.000]	2-282851-5	2-1546073-5

**Board Mount w/Interlock, 5.08 mm Centerline, Top Wire Entry Color – Green**  
**UL Rating – 300 V, 24 A**  
**12-30 AWG**  
**20 A for field wiring applications**



**Recommended PC Board Layout**



**Suggested Screw Torque—**  
 7.0 in.-lbs.

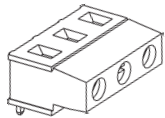
No. of Positions	Dim. A	Part Numbers
2	10.16 [0.400]	282863-2
3	15.24 [0.600]	282863-3
4	20.32 [0.800]	282863-4
5	25.40 [1.000]	282863-5
6	30.48 [1.200]	282863-6
7	35.56 [1.400]	282863-7
8	40.64 [1.600]	282863-8
9	45.72 [1.800]	282863-9
10	50.80 [2.000]	1-282863-0
11	55.88 [2.200]	1-282863-1
12	60.96 [2.400]	1-282863-2
13	66.04 [2.600]	1-282863-3

No. of Positions	Dim. A	Part Numbers
14	71.12 [2.800]	1-282863-4
15	76.20 [3.000]	1-282863-5
16	81.28 [3.200]	1-282863-6
17	86.36 [3.400]	1-282863-7
18	91.44 [3.600]	1-282863-8
19	96.52 [3.800]	1-282863-9
20	101.60 [4.000]	2-282863-0
21	106.68 [4.200]	2-282863-1
22	111.76 [4.400]	2-282863-2
23	116.84 [4.600]	2-282863-3
24	121.92 [4.800]	2-282863-4
25	127.00 [5.000]	2-282863-5

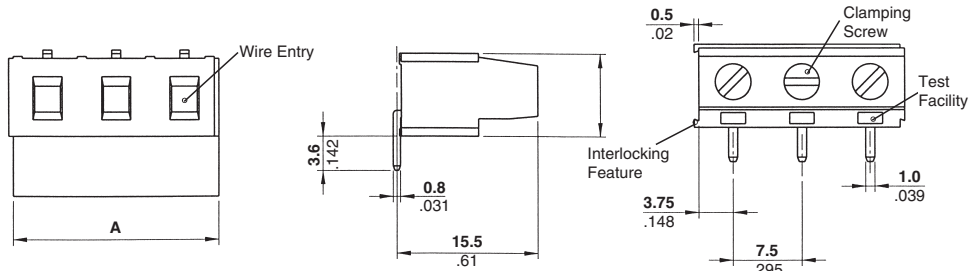
**Note:** All part numbers are RoHS Compliant.

**Board Mount, Top Wire Entry (Continued)**

**Top Wire Entry**  
**7.5 mm Centerline,**  
**Color – Green**  
**UL Rating – 300 V, 17.5 A**  
**12-30 AWG**  
**15 A for field wiring applications**

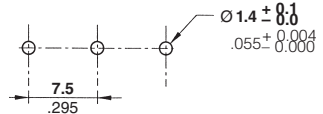


**Suggested Screw Torque—**  
7.0 in.-lbs.

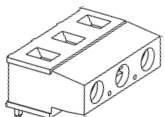


No. of Positions	Dim. A	Part Numbers
2	15.0 [0.591]	282854-2
3	22.5 [0.886]	282854-3
4	30.0 [1.181]	282854-4

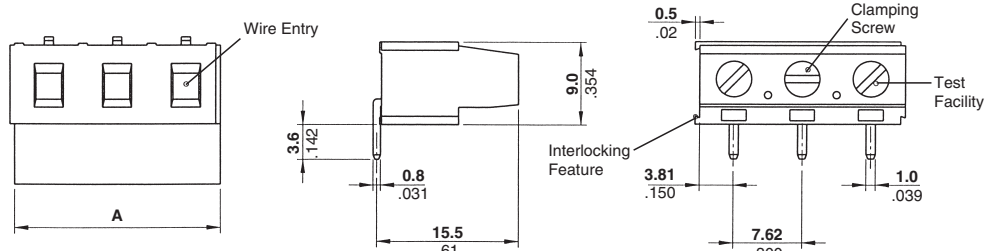
**Recommended PC Board Layout**



**Top Wire Entry**  
**7.62 mm Centerline,**  
**Color – Green**  
**UL Rating – 300 V, 17.5 A**  
**12-30 AWG**  
**15 A for field wiring applications**

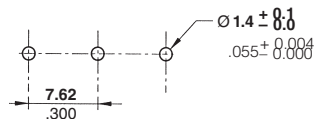


**Suggested Screw Torque—**  
7.0 in.-lbs.

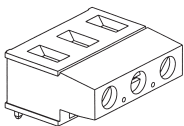


No. of Positions	Dim. A	Part Numbers
2	15.24 [.600]	282855-2
3	22.86 [.900]	282855-3

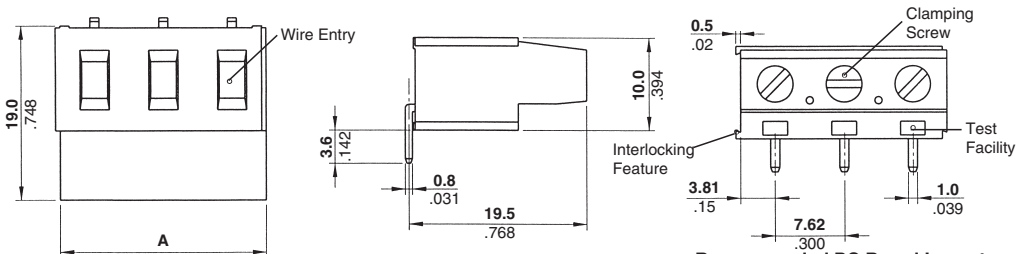
**Recommended PC Board Layout**



**Top Wire Entry**  
**7.62 mm Centerline,**  
**Color – Green**  
**UL Rating – 300 V, 24 A**  
**12-30 AWG**  
**20 A for field wiring applications**

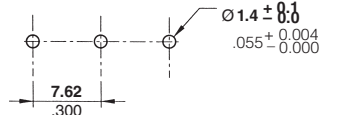


**Suggested Screw Torque—**  
7.0 in.-lbs.



No. of Positions	Dim. A	Part Numbers
2	15.24 [.600]	282867-2
3	22.86 [.900]	282867-3

**Recommended PC Board Layout**

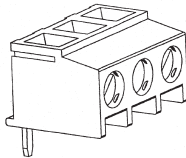




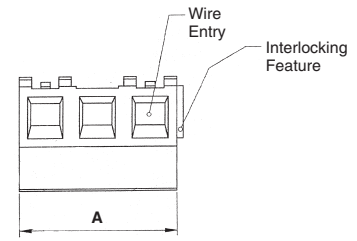
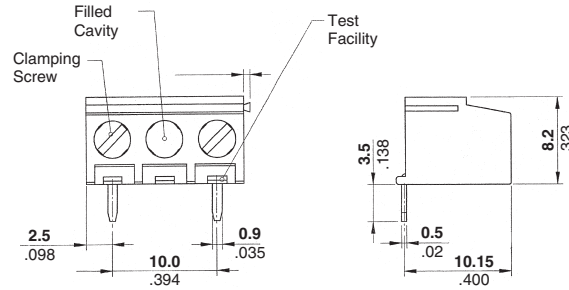
**Note:** All part numbers are RoHS Compliant.

**Board Mount, Top Wire Entry (Continued)**

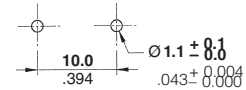
**Board Mount, Low Profile**  
**10.0 mm Centerline,**  
**Top Wire Entry,**  
**Color – Black**  
**UL Rating – 600 V, 13.5 A**  
**16-30 AWG**  
**10 A for field wiring applications**



**Suggested Screw Torque—**  
 6.0 in.-lbs.



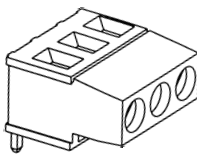
**Recommended PC Board Layout**



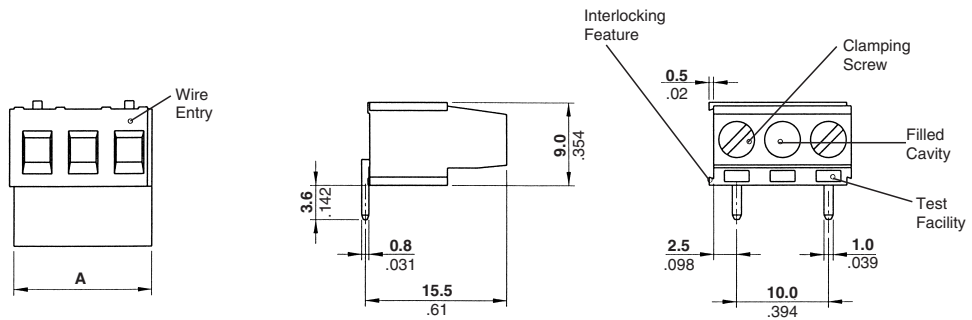
No. of Positions	Dim. A	Part Numbers
2	15.0 [.591]	1776124-2
3	20.0 [.787]	1776124-3
4	25.0 [.984]	1776124-4

Wave solder process capable to 265°C [509°F] for 10 seconds

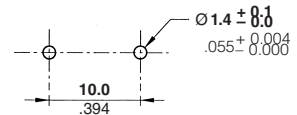
**Board Mount**  
**10.0 mm Centerline,**  
**Top Wire Entry**  
**Color – Green**  
**UL Rating – 600 V, 17.5 A**  
**12-30 AWG**  
**15 A for field entry applications**



**Suggested Screw Torque—**  
 7.0 in.-lbs.



**Recommended PC Board Layout**



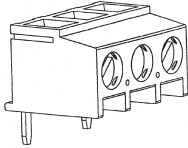
No. of Positions	Dim. A	Part Numbers
2	15.0 [.591]	282852-2
3	20.0 [.787]	282852-3
4	25.0 [.984]	282852-4
5	30.0 [1.181]	282852-5
6	35.0 [1.378]	282852-6
7	40.0 [1.575]	282852-7
8	45.0 [1.772]	282852-8
9	50.0 [1.968]	282852-9
10	55.0 [2.165]	1-282852-0
11	60.0 [2.362]	1-282852-1
12	65.0 [2.559]	1-282852-2
13	70.0 [2.775]	1-282852-3

**Note:** All part numbers are RoHS Compliant.

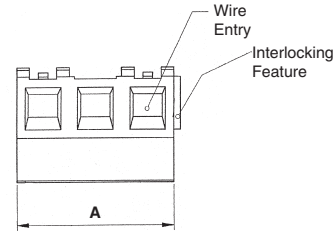
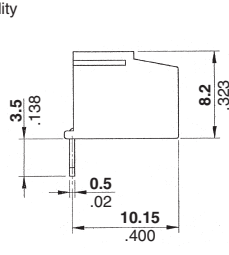
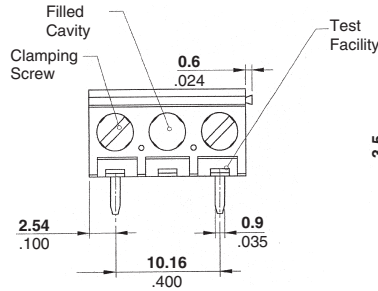
**Board Mount, Top Wire Entry (Continued)**

**Board Mount, Low Profile, 10.16 mm Centerline, Top Wire Entry**  
Color – Black

**UL Rating – 600 V, 13.5 A**  
**16-30 AWG**  
**10 A for field wiring applications**



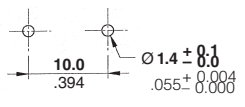
**Suggested Screw Torque—**  
6.0 in.-lbs.



No. of Positions	Dim. A	Part Numbers
2	15.24 [0.600]	1776125-2
3	20.32 [0.800]	1776125-3
4	25.40 [1.000]	1776125-4

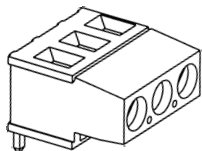
Wave solder process capable to 265°C [509°F] for 10 seconds

**Recommended PC Board Layout**

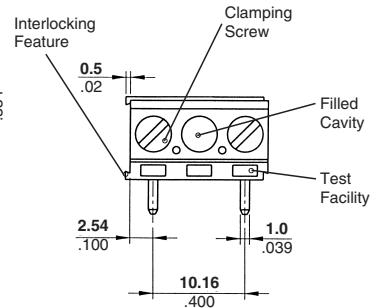
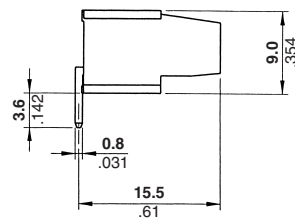
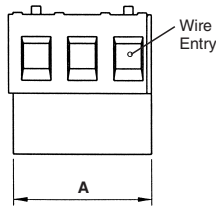


**Board Mount, 10.16 mm Centerline, Top Wire Entry**  
Color – Green

**UL Rating – 600 V, 17.5 A**  
**12-30 AWG**  
**15 A for field wiring applications**

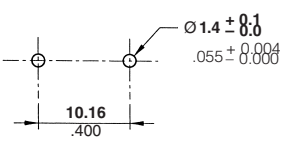


**Suggested Screw Torque—**  
7.0 in.-lbs.



No. of Positions	Dim. A	Part Numbers
2	15.24 [0.600]	282853-2
3	20.32 [0.800]	282853-3
4	25.40 [1.000]	282853-4
5	30.48 [1.200]	282853-5
6	35.56 [1.400]	282853-6
7	40.64 [1.600]	282853-7
8	45.72 [1.800]	282853-8
9	50.80 [2.000]	282853-9
10	55.88 [2.200]	1-282853-0
11	60.96 [2.400]	1-282853-1
12	66.04 [2.600]	1-282853-2
13	71.12 [2.800]	1-282853-3

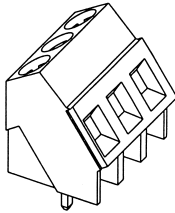
**Recommended PC Board Layout**



**Note:** All part numbers are RoHS Compliant.

### Board Mount, 35° Angled Wire Entry

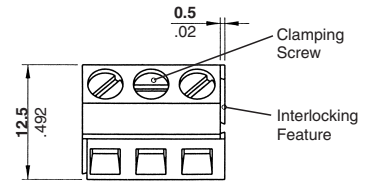
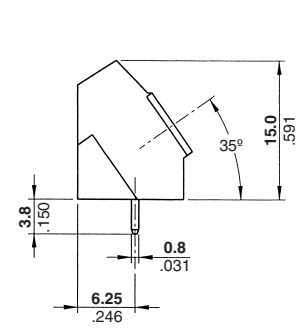
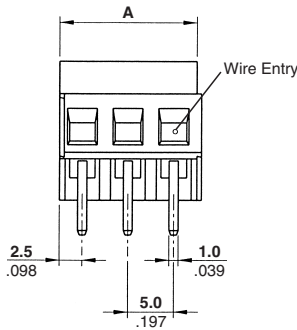
**Board Mount w/Interlock,  
5.0 mm Centerline,  
35° Angled Wire Entry**  
**UL Rating – 300 V, 17.5 A  
12-30 AWG  
15 A for field wiring applications**



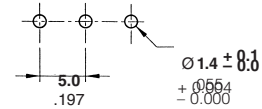
**Suggested Screw Torque—**  
7.0 in.-lbs.

**Notes:**

1. BUCHANAN Terminal Block Series B04C4VXXT has been superceded/replaced with part number 796688-xx (blue color) and 796689-xx (black color).
2. RDI Terminal Block Series 5LEA-XX has been superceded/replaced with part number 796690-xx (green color).
3. RDI Terminal Block Series 5LEA-XX-1 has been superceded/replaced with part number 796689-xx (black color).

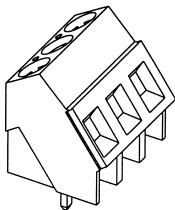


**Recommended PC Board Layout**

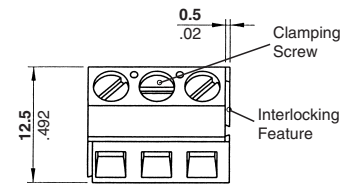
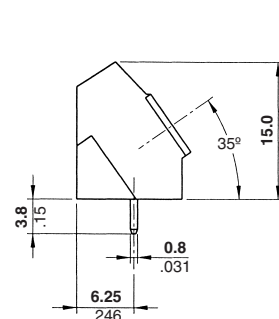
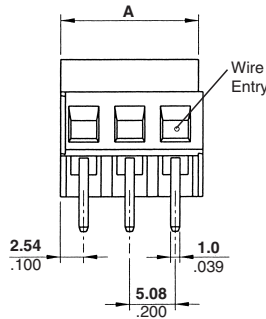


No. of Positions	Dim. A	Part Numbers			
		Gray	Blue	Black	Green
2	10.0 [0.394]	1546219-2	796688-2	796689-2	796690-2
3	15.0 [0.591]	1546219-3	796688-3	796689-3	796690-3
4	20.0 [0.787]	1546219-4	796688-4	796689-4	796690-4
5	25.0 [0.984]	1546219-5	796688-5	796689-5	796690-5
6	30.0 [1.181]	1546219-6	796688-6	796689-6	796690-6
7	35.0 [1.378]	1546219-7	796688-7	796689-7	796690-7
8	40.0 [1.575]	1546219-8	796688-8	796689-8	796690-8
9	45.0 [1.772]	1546219-9	796688-9	796689-9	796690-9
10	50.0 [1.968]	1-1546219-0	1-796688-0	1-796689-0	1-796690-0
11	55.0 [2.165]	1-1546219-1	1-796688-1	1-796689-1	1-796690-1
12	60.0 [2.362]	1-1546219-2	1-796688-2	1-796689-2	1-796690-2

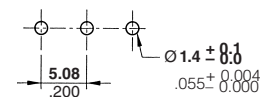
**Board Mount w/Interlock,  
5.08 mm Centerline,  
35° Angled Wire Entry**  
**UL Rating – 300 V, 17.5 A  
12-30 AWG  
15 A for field wiring applications**



**Suggested Screw Torque—**  
7.0 in.-lbs.



**Recommended PC Board Layout**



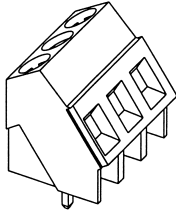
No. of Positions	Dim. A	Part Numbers		
		Gray	Green	Black
2	10.16 [0.400]	1546220-2	282847-2	1546074-2
3	15.24 [0.600]	1546220-3	282847-3	1546074-3
4	20.32 [0.800]	1546220-4	282847-4	1546074-4
5	25.40 [1.000]	1546220-5	282847-5	1546074-5
6	30.48 [1.200]	1546220-6	282847-6	1546074-6
7	35.56 [1.400]	1546220-7	282847-7	1546074-7
8	40.64 [1.600]	1546220-8	282847-8	1546074-8
9	45.72 [1.800]	1546220-9	282847-9	1546074-9
10	50.80 [2.000]	1-1546220-0	1-282847-0	1-1546074-0
11	55.88 [2.200]	1-1546220-1	1-282847-1	1-1546074-1
12	60.96 [2.400]	1-1546220-2	1-282847-2	1-1546074-2

**Note:** RDI Terminal Block Series 2EEA-xx has been superceded/replaced with 282847-xx series.

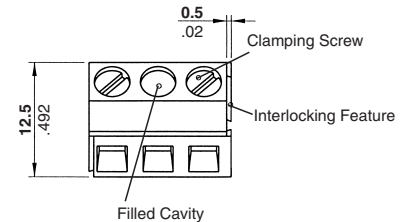
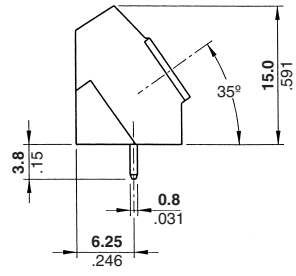
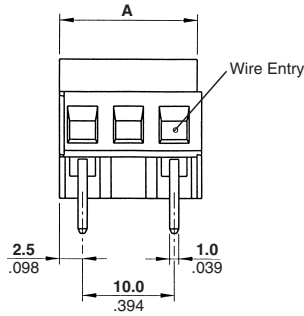
**Note:** All part numbers are RoHS Compliant.

**Board Mount, 35° Angled Wire Entry (Continued)**

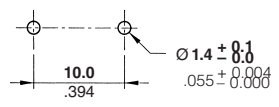
**Board Mount,  
10.0 mm Centerline,  
35° Angled Wire Entry  
Color – Green**  
**UL Rating – 600 V, 17.5 A  
12-30 AWG  
15 A for field wiring applications**



**Suggested Screw Torque—  
7.0 in.-lbs.**

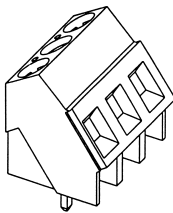


**Recommended PC Board Layout**

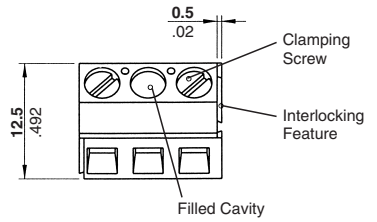
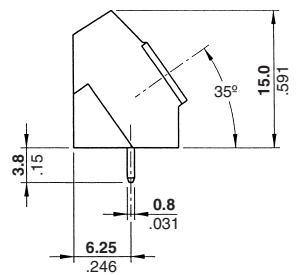
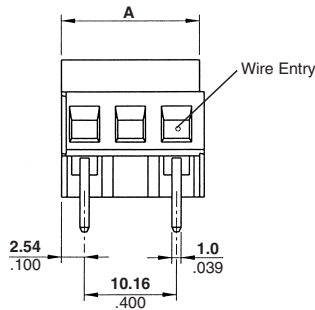


No. of Positions	Dim. A	Part Numbers
2	15.0 [0.591]	282848-2
3	25.0 [0.984]	282848-3
4	35.0 [1.378]	282848-4
5	45.0 [1.772]	282848-5
6	55.0 [2.165]	282848-6

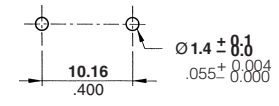
**Board Mount,  
10.16 mm Centerline,  
35° Angled Wire Entry  
Color – Green**  
**UL Rating – 600 V, 17.5 A  
12-30 AWG  
15 A for field wiring applications**



**Suggested Screw Torque—  
7.0 in.-lbs.**



**Recommended PC Board Layout**



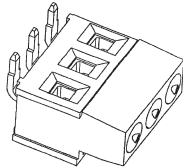
No. of Positions	Dim. A	Part Numbers
2	15.24 [0.600]	282849-2
3	25.40 [1.000]	282849-3
4	35.56 [1.400]	282849-4
5	45.72 [1.800]	282849-5
6	55.88 [2.200]	282849-6

**Note:** All part numbers are RoHS Compliant.

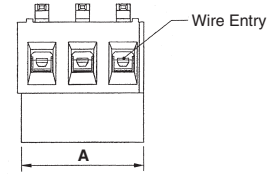
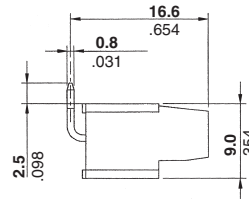
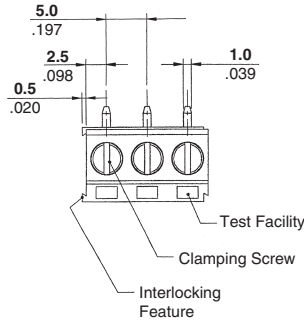
**Board Mount, Bottom Wire Entry**

**Board Mount w/Interlock,  
5.0 mm Centerline,  
270° Bottom Wire Entry  
Color – Green**

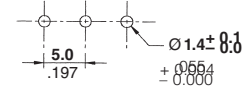
**UL Rating – 300 V, 17.5 A  
12-30 AWG  
15 A for field wiring applications**



**Suggested Screw Torque—**  
7.0 in.-lbs.



**Recommended PC Board Layout**



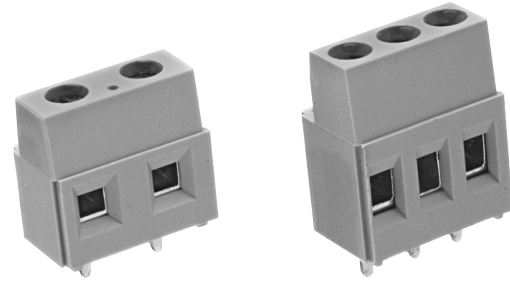
No. of Positions	Dim. A	Part Numbers
2	10.0 [0.394]	284410-2
3	15.0 [0.591]	284410-3
4	20.0 [0.787]	284410-4
5	25.0 [0.984]	284410-5
6	30.0 [1.181]	284410-6
7	35.0 [1.378]	284410-7
8	40.0 [1.575]	284410-8
9	45.0 [1.772]	284410-9
10	50.0 [1.968]	1-284410-0
11	55.0 [2.165]	1-284410-1
12	60.0 [2.362]	1-284410-2
13	65.0 [2.559]	1-284410-3
14	70.0 [2.756]	1-284410-4
15	75.0 [2.953]	1-284410-5
16	80.0 [3.150]	1-284410-6
17	85.0 [3.346]	1-284410-7
18	90.0 [3.543]	1-284410-8
19	95.0 [3.740]	1-284410-9
20	100.0 [3.937]	2-284410-0
21	105.0 [4.134]	2-284410-1
22	110.0 [4.331]	2-284410-2
23	115.0 [4.528]	2-284410-3
24	120.0 [4.724]	2-284410-4
25	125.0 [4.921]	2-284410-5

## High Current PCB Mount, Side Wire Entry

### Product Facts

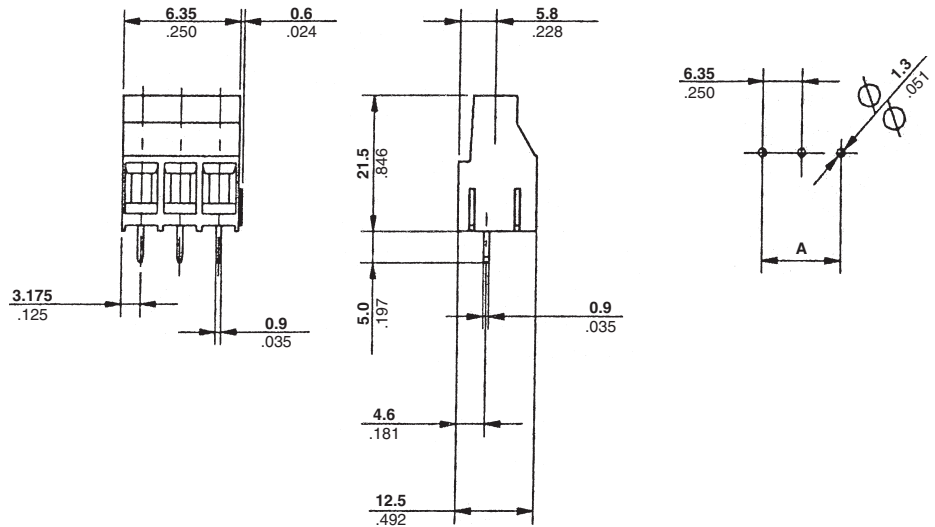
- Available in (2) centerline spacings: 6.35 mm and 9.52 mm pitch
- (2) position sizes available: 2 and 3 position
- Wire range: 10-24 AWG
- Available in (3) wire entry configurations: side wire, top wire and 35° angle

- Cage clamp style termination
- Product is modular; designed with a dovetail feature to allow building larger position sizes to increase the number of available wire positions
- Green color; other colors available upon request



**Board Mount w/Interlock,  
6.35 mm Centerline,  
Side Wire Entry,  
Color – Green**

**UL Rating—300 V, 30 A  
10-24 AWG**



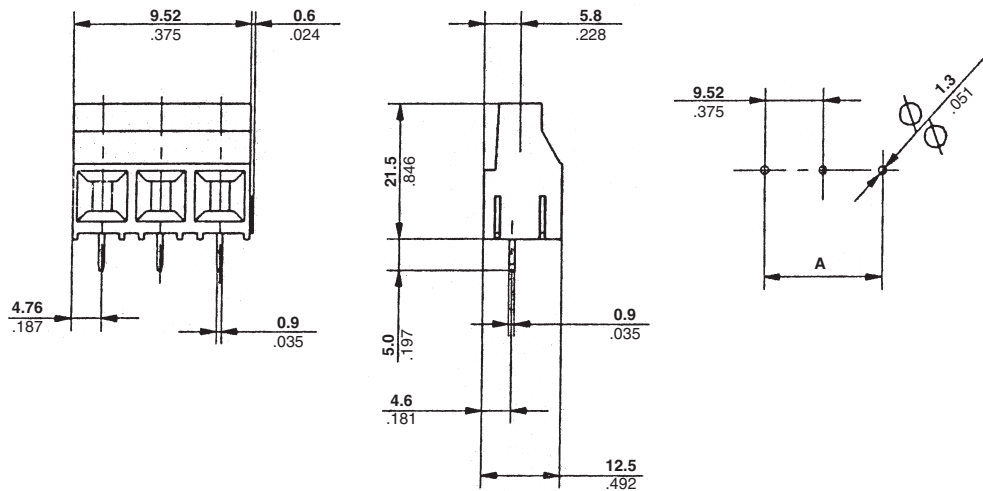
**Suggested Screw Torque—  
7.0 in.-lbs.**

No. of Positions	Dim. A	Part Numbers
2	6.35 0.250	796740-2
3	12.70 0.500	796740-3

**Board Mount w/Interlock,  
9.52 mm Centerline,  
Side Wire Entry,  
Color – Green**

**UL Rating—600 V, 30 A  
10-24 AWG**

**Suggested Screw Torque—  
7.0 in.-lbs.**



No. of Positions	Dim. A	Part Numbers
2	9.52 0.375	796739-2
3	19.04 0.704	796739-3



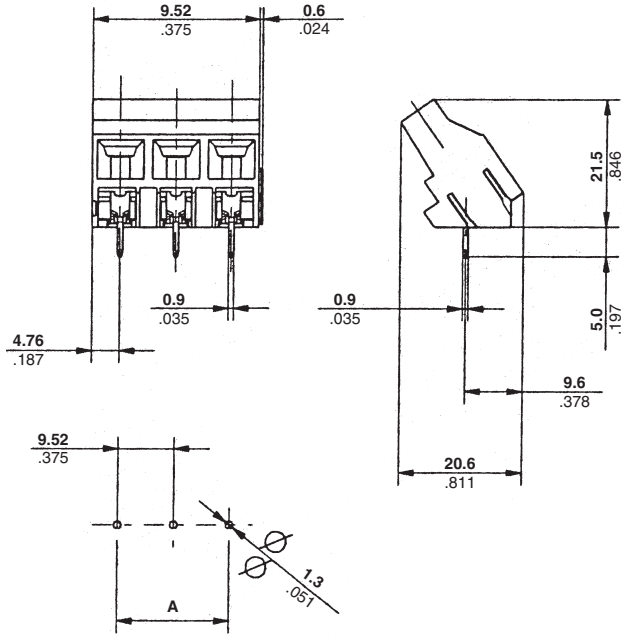
**Note:** All part numbers are RoHS Compliant.

**High Current PCB Mount, 35° Angled Wire Entry**

**Board Mount w/Interlock,  
9.52 mm Centerline,  
35° Wire Entry  
Color – Green**

**UL Rating – 600 V, 30 A  
10-24 AWG**

**Suggested Screw Torque—  
7.0 in.-lbs.**

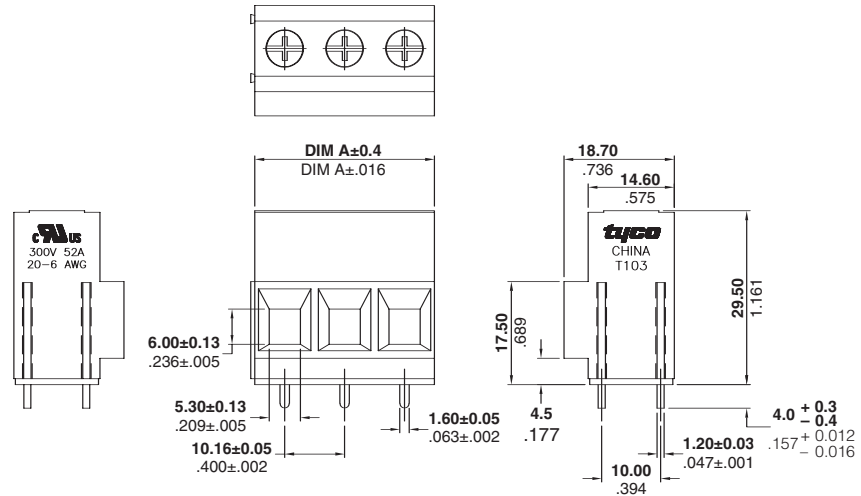


No. of Positions	Dim. A	Part Numbers
2	9.52 0.375	796741-2
3	19.04 0.704	796741-3

**Board Mount w/Interlock,  
10.16 mm Centerline,  
Side Wire Entry  
Color – Green or Black**

**UL Rating – 300 V, 52 A  
6-8 AWG**

**Suggested Screw Torque—  
10.16 in.-lbs.**



No. of Positions	Dim. A	Part Numbers	
		Green	Black
2	20.32 [.800]	1776886-2	1-1776886-2
3	30.48 [1.200]	1776886-3	1-1776886-3

## Board Mount Multi-Level Stacking

### Board Mount w/Interlock, Multi-Level Stacking 16-30 AWG

#### Product Facts

- One-piece board mount terminal blocks
- Interchangeable with existing products of other terminal block suppliers
- PC board footprint fully compatible with existing Industry Standards: pc board thickness 1.6–2.4 mm
- Modular design with interlocking fixture to assemble higher number of ways applies to 5.0 and 5.08 mm centerlines
- Rising screw clamp design
- Funnel entry housing for easier wire insertion
- Test probe access
- Terminal blocks supplied with open captive screws

Tyco Electronics is expanding the range of board mount terminal blocks with its family of multi-level Terminal Block stacking connectors; three different heights are available to combine one-piece blocks, according to the user's need for better space utilization and easier wire accessibility.

5.0, 5.08, 10.0 and 10.16 mm centerline blocks suitable for 1.5 mm<sup>2</sup> max. solid wire and 1.0 mm<sup>2</sup> max. stranded wire are described in the following pages.

#### Mechanical/Environmental Performance

##### Operating Temperature—

-40°C up to +105°C

##### Climate Category—

40/110/21 per IEC 68-1

Level	Height	Level Combinations
1st Level	10.0 mm	1st and 2nd level; 2nd and 3rd level; three levels, 2nd level; 3rd level
2nd Level	19.0 mm	
3rd Level	28.0 mm	

### Board Mount w/Interlock, Multi-Level Stacking 12-30 AWG

5.0, 5.08, 10.0 and 10.16 mm centerline blocks suitable for 4.0 mm<sup>2</sup> max. solid wire and 2.5 mm<sup>2</sup> max. stranded wire are described in the following pages.

#### Mechanical/Environmental Performance

##### Operating Temperature—

-40°C up to +105°C

##### Climate Category—

40/110/21 per IEC 68-1

Level	Height
1st Level	18.6 mm
2nd Level	31.5 mm
3rd Level	45.0 mm

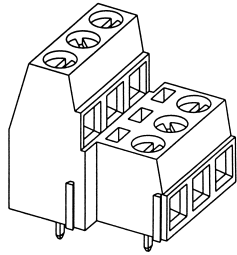
Centerline	No. of Pos.	Level Combinations
5.00 mm	2–3	1st and 2nd level; 2nd and 3rd level; three levels, 2nd level; 3rd level
5.08 mm	2–3	1st and 2nd level; 2nd and 3rd level; three levels, 2nd level; 3rd level
10.00 mm	2	1st and 2nd level; 2nd and 3rd level; three levels, 2nd level; 3rd level
10.16 mm	2	1st and 2nd level; 2nd and 3rd level; three levels, 2nd level; 3rd level

**Note:** All part numbers are RoHS Compliant.

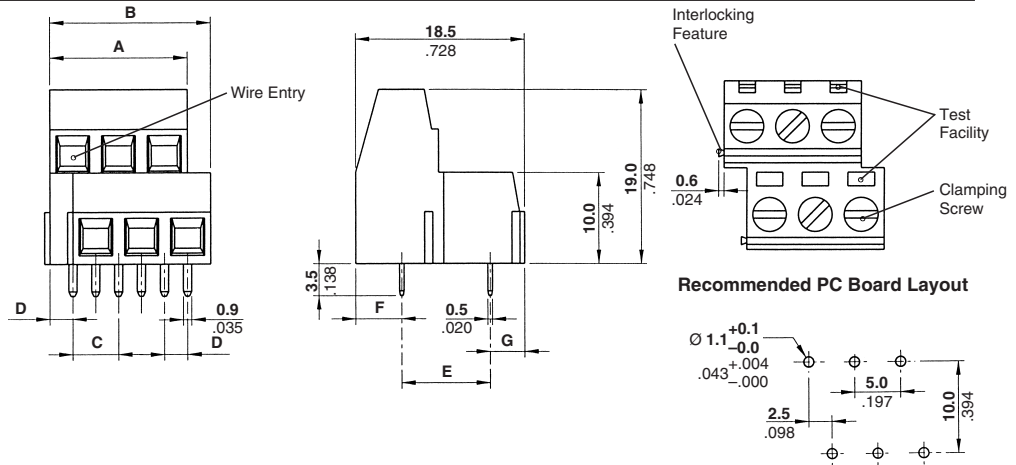
**Board Mount, 1st and 2nd Level Stacking Connectors**

**Board Mount w/Interlock, 5.0 mm Centerline, 1st and 2nd Level, Stacking Color – Green**

**UL Rating – 300 V, 13.5 A  
16-30 AWG  
10 A for field wiring applications**



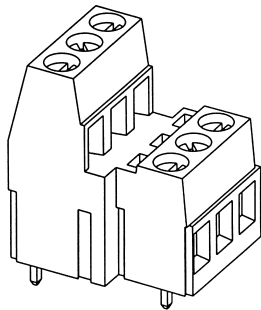
**Suggested Screw Torque—**  
6.0 in.-lb.



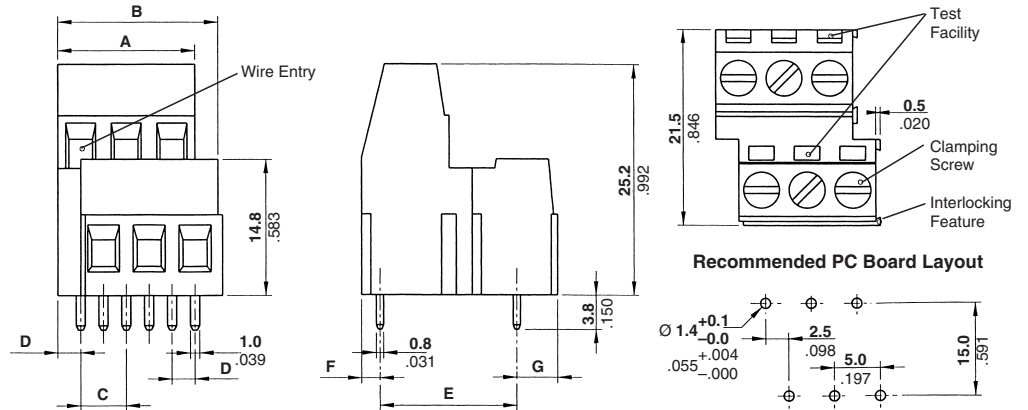
No. of Positions	Dimensions							Part Numbers
	A	B	C	D	E	F	G	
2	10.0 .394	12.5 .492	5.0 .197	2.5 .098	10.0 .394	4.4 .173	4.1 .161	282868-2
3	15.0 .591	17.5 .689	5.0 .197	2.5 .098	10.0 .394	4.4 .173	4.1 .161	282868-3

**Board Mount w/Interlock, 5.0 mm Centerline, 1st and 2nd Level, Stacking**

**UL Rating – 300 V, 17.5 A  
12-30 AWG  
15 A for field wiring applications**



**Suggested Screw Torque—**  
7.0 in.-lb.



No. of Positions	Dimensions							Part Numbers	
	A	B	C	D	E	F	G	Green	Blue
2	10.0 .394	12.5 .492	5.0 .197	2.5 .098	15.0 .591	2.0 .079	4.5 .177	282888-2	796691-2
3	15.0 .591	17.5 .689	5.0 .197	2.5 .098	15.0 .591	2.0 .079	4.5 .177	282888-3	796691-3
4	20.0 .787	22.5 .886	5.0 .197	2.5 .098	15.0 .591	2.0 .079	4.5 .177	—	796691-4
5	25.0 .984	27.5 1.083	5.0 .197	2.5 .098	15.0 .591	2.0 .079	4.5 .177	—	796691-5
6	30.0 1.181	32.5 1.28	5.0 .197	2.5 .098	15.0 .591	2.0 .079	4.5 .177	—	796691-6
7	35.0 1.378	37.5 1.476	5.0 .197	2.5 .098	15.0 .591	2.0 .079	4.5 .177	—	796691-7
8	40.0 1.575	42.5 1.673	5.0 .197	2.5 .098	15.0 .591	2.0 .079	4.5 .177	—	796691-8
9	45.0 1.772	47.5 1.87	5.0 .197	2.5 .098	15.0 .591	2.0 .079	4.5 .177	—	796691-9
10	50.0 1.968	52.5 2.067	5.0 .197	2.5 .098	15.0 .591	2.0 .079	4.5 .177	—	1-796691-0
11	55.0 2.165	57.5 2.264	5.0 .197	2.5 .098	15.0 .591	2.0 .079	4.5 .177	—	1-796691-1
12	60.0 2.362	62.5 2.461	5.0 .197	2.5 .098	15.0 .591	2.0 .079	4.5 .177	—	1-796691-2

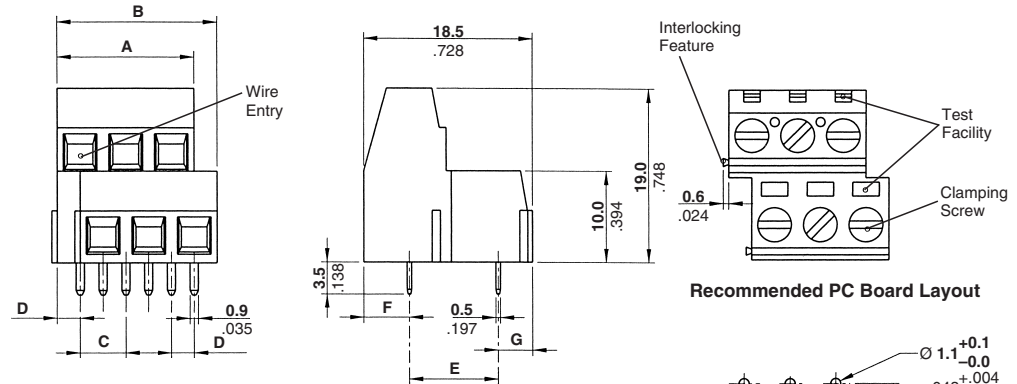
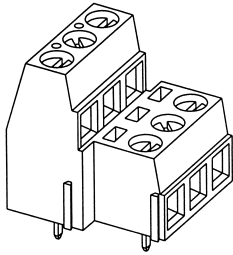
**Note:** BUCHANAN Terminal Block Series B07C4VxxT has been superceded/replaced with 796691-xx (blue). RDI Terminal Block Series 5LEEV-xx has been superceded/replaced with 796691-xx.

**Note:** All part numbers are RoHS Compliant.

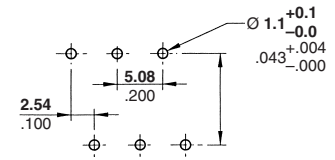
**Board Mount, 1st and 2nd Level Stacking Connectors (Continued)**

**Board Mount w/Interlock, 5.08 mm Centerline, 1st and 2nd Level, Stacking Color – Green**

**UL Rating – 300 V, 13.5 A  
16-30 AWG  
10 A for field wiring applications**



**Recommended PC Board Layout**

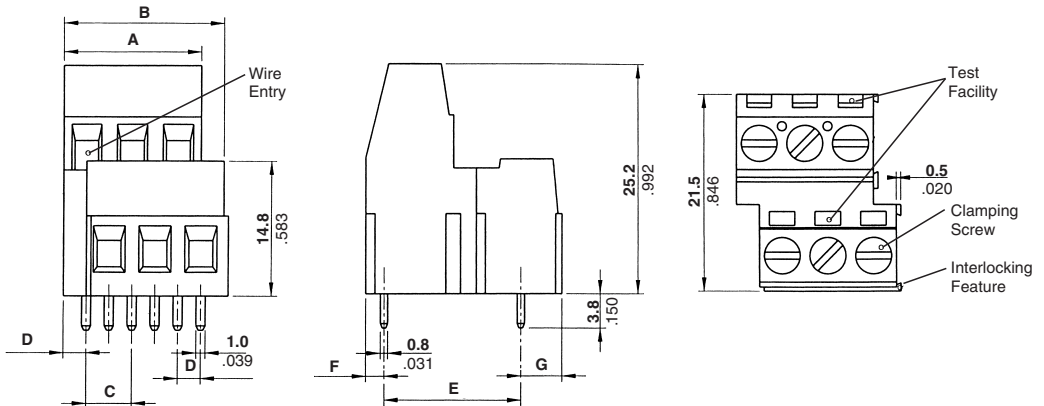
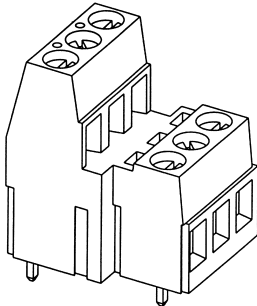


**Suggested Screw Torque—**  
6.0 in.-lb.

No. of Positions	Dimensions							Part Numbers
	A	B	C	D	E	F	G	
2	10.16 .400	12.70 .500	5.08 .200	2.54 .100	10.16 .400	4.24 .167	4.1 .161	282869-2
3	15.24 .600	17.78 .700	5.08 .200	2.54 .100	10.16 .400	4.24 .167	4.1 .161	282869-3

**Board Mount w/Interlock, 5.08 mm Centerline, 1st and 2nd Level, Stacking**

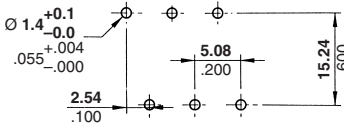
**UL Rating – 300 V, 17.5 A  
12-30 AWG  
15 A for field wiring applications**



No. of Positions	Dimensions							Part Numbers		
	A	B	C	D	E	F	G	Gray	Green	Black
2	10.16 .400	12.70 .500	5.08 .200	2.54 .100	15.24 .600	1.76 .069	4.5 .177	1546222-2	796692-2	796984-2
3	15.24 .600	17.78 .700	5.08 .200	2.54 .100	15.24 .600	1.76 .069	4.5 .177	1546222-3	796692-3	796984-3
4	20.32 0.80	22.86 0.90	5.08 .200	2.54 .100	15.24 .600	1.76 .069	4.5 .177	—	796692-4	796984-4
5	25.40 1.00	27.94 1.10	5.08 .200	2.54 .100	15.24 .600	1.76 .069	4.5 .177	—	796692-5	796984-5
6	30.48 1.20	33.02 1.30	5.08 .200	2.54 .100	15.24 .600	1.76 .069	4.5 .177	—	796692-6	796984-6
7	35.56 1.40	38.10 1.50	5.08 .200	2.54 .100	15.24 .600	1.76 .069	4.5 .177	—	796692-7	796984-7
8	40.64 1.60	43.18 1.70	5.08 .200	2.54 .100	15.24 .600	1.76 .069	4.5 .177	—	796692-8	796984-8
9	45.72 1.80	48.26 1.90	5.08 .200	2.54 .100	15.24 .600	1.76 .069	4.5 .177	—	796692-9	796984-9
10	50.80 2.00	53.34 2.10	5.08 .200	2.54 .100	15.24 .600	1.76 .069	4.5 .177	—	1-796692-0	1-796984-0
11	55.88 2.20	58.42 2.30	5.08 .200	2.54 .100	15.24 .600	1.76 .069	4.5 .177	—	1-796692-1	1-796984-1
12	60.96 2.40	63.50 2.50	5.08 .200	2.54 .100	15.24 .600	1.76 .069	4.5 .177	—	1-796692-2	1-796984-2

**Suggested Screw Torque—**  
7.0 in.-lb.

**Recommended PC Board Layout**



**Note:** RDI Terminal Block Series 2LEEV-xx/2 has been superseded/replaced with 796692-xx (green).

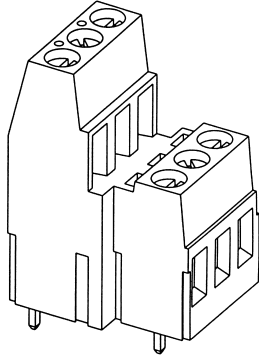


**Note:** All part numbers are RoHS Compliant.

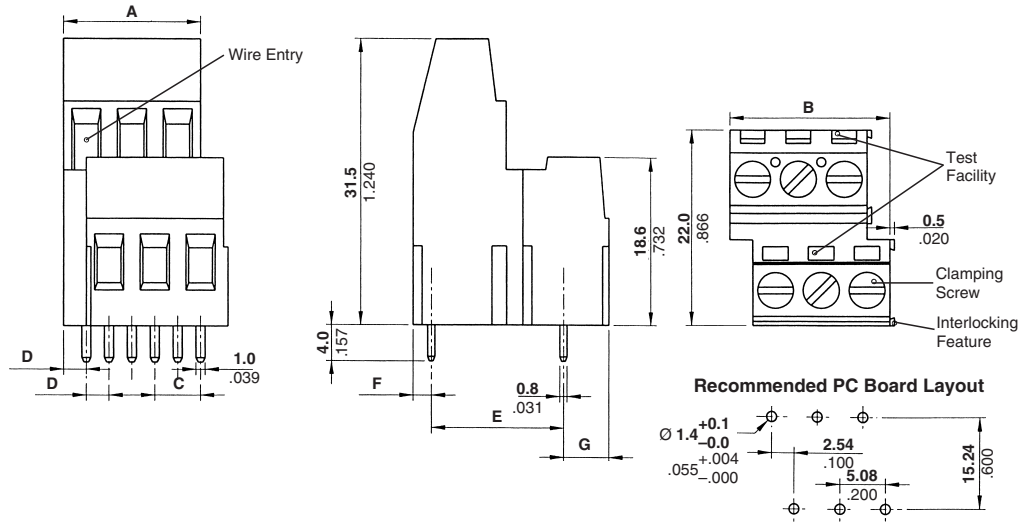
**Board Mount, 1st and 2nd Level Stacking Connectors (Continued)**

**Board Mount w/Interlock, 5.08 mm Centerline, 1st and 2nd Level, Stacking Color – Green**

**UL Rating – 300 V, 24 A  
12-30 AWG  
20 A for field wiring applications**



**Suggested Screw Torque—**  
7.0 in.-lb.

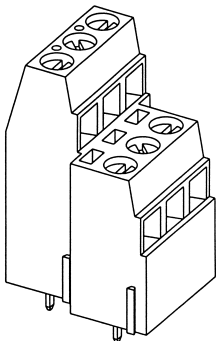


No. of Positions	Dimensions							Part Numbers
	A	B	C	D	E	F	G	
2	10.16 .400	12.70 .500	5.08 .200	2.54 .100	15.24 .600	1.76 .069	5.0 .197	282909-2
3	15.24 .600	17.78 .700	5.08 .200	2.54 .100	15.24 .600	1.76 .069	5.0 .197	282909-3

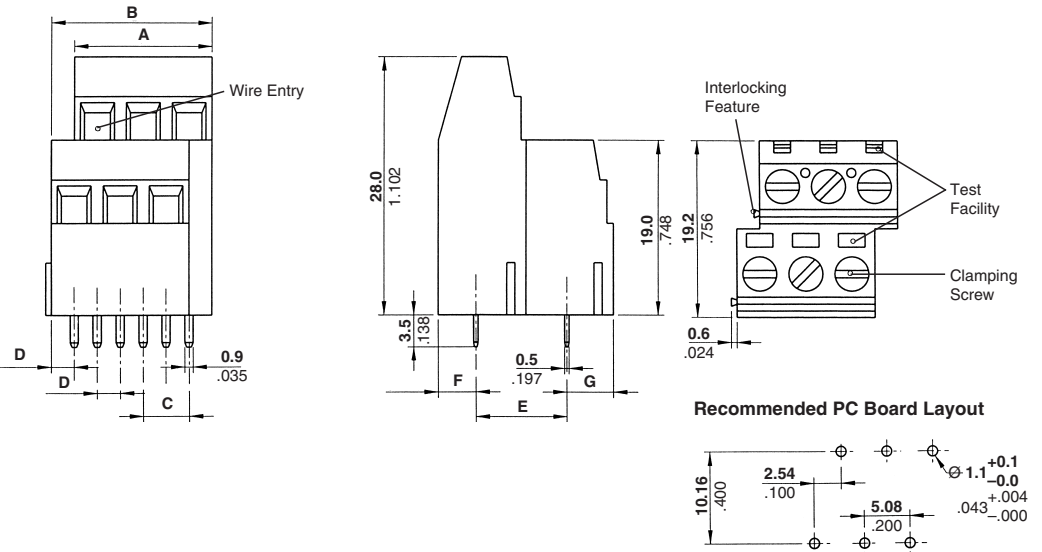
**Board Mount, 2nd and 3rd Level Stacking Connectors**

**Board Mount w/Interlock, 5.08 mm Centerline, 2nd and 3rd Level, Stacking Color – Green**

**UL Rating – 300 V, 13.5 A  
16-30 AWG  
10 A for field wiring applications**



**Suggested Screw Torque—**  
6.0 in.-lb.



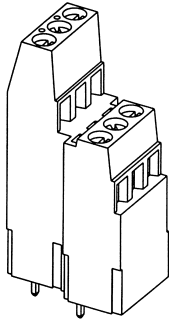
No. of Positions	Dimensions							Part Numbers
	A	B	C	D	E	F	G	
2	10.16 .400	12.70 .500	5.08 .200	2.54 .100	10.16 .400	3.78 .149	5.26 .207	282873-2
3	15.24 .600	17.78 .700	5.08 .200	2.54 .100	10.16 .400	3.78 .149	5.26 .207	282873-3

**Note:** All part numbers are RoHS Compliant.

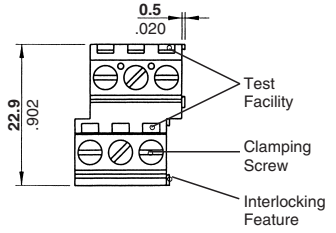
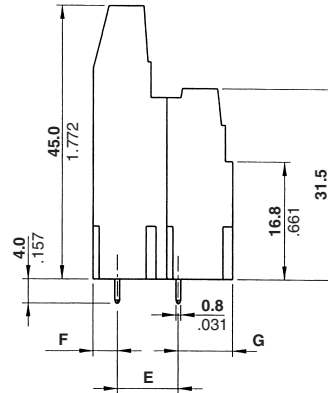
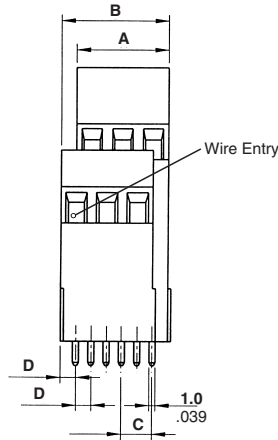
**Board Mount, 2nd and 3rd Level Stacking Connectors (Continued)**

**Board Mount w/Interlock, 5.08 mm Centerline, 2nd and 3rd Level, Stacking Color – Green**

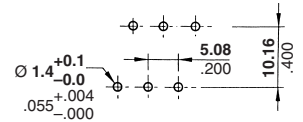
**UL Rating – 300 V, 24 A  
12-30 AWG  
20 A for field wiring applications**



**Suggested Screw Torque—**  
7.0 in.-lb.



**Recommended PC Board Layout**

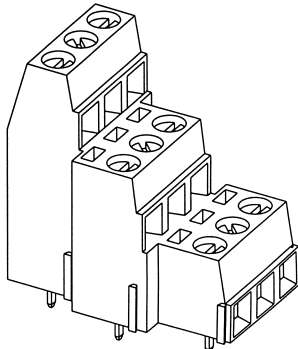


No. of Positions	Dimensions							Part Numbers
	A	B	C	D	E	F	G	
2	10.16 .400	12.70 .500	5.08 .200	2.54 .100	10.16 .400	3.6 .142	9.14 .360	282913-2
3	15.24 .600	17.78 .700	5.08 .200	2.54 .100	10.16 .400	3.6 .142	9.14 .360	282913-3

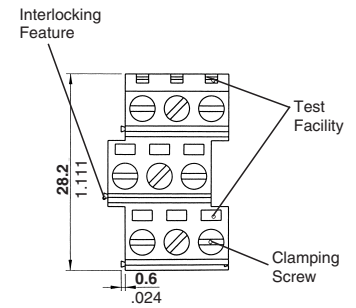
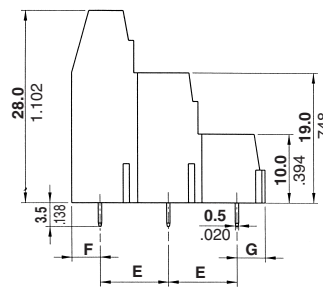
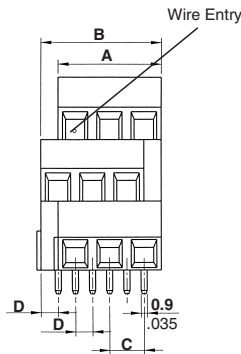
**Board Mount, Three-Levels Stacking Connectors**

**Board Mount w/Interlock, 5.0 mm Centerline, Three Levels, Stacking Color – Green**

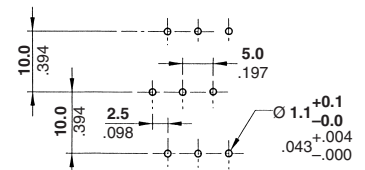
**UL Rating – 300 V, 13.5 A  
16-30 AWG  
10 A for field wiring applications**



**Suggested Screw Torque—**  
6.0 in.-lb.



**Recommended PC Board Layout**



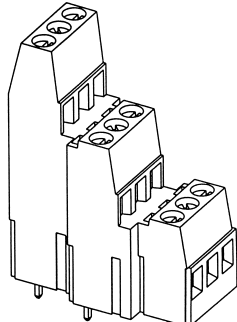
No. of Positions	Dimensions							Part Numbers
	A	B	C	D	E	F	G	
2	10.0 .394	12.5 .492	5.0 .197	2.5 .098	10.0 .394	4.1 .161	4.1 .161	282876-2
3	15.0 .591	17.5 .689	5.0 .197	2.5 .098	10.0 .394	4.1 .161	4.1 .161	282876-3



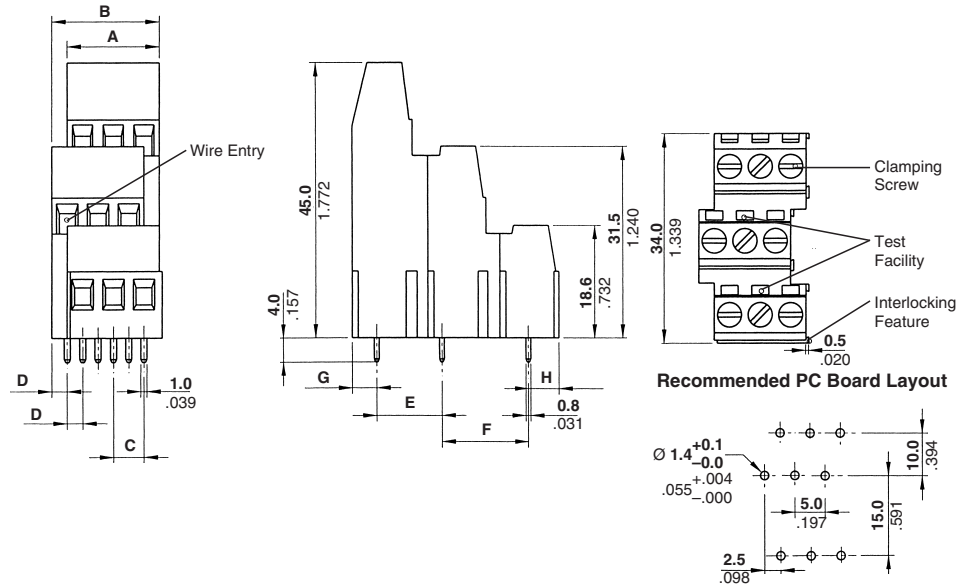
**Note:** All part numbers are RoHS Compliant.

**Board Mount, Three-Levels Stacking Connectors**

**Board Mount w/Interlock**  
**5.0 mm Centerline,**  
**Three Levels, Stacking**  
**Color – Green**  
**UL Rating – 300 V, 24 A**  
**12-30 AWG**  
**20 A for field wiring applications**

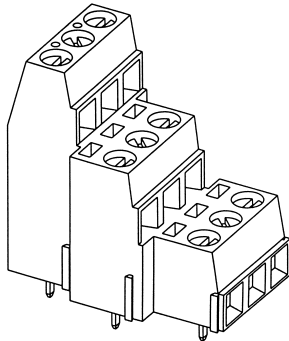


**Suggested Screw Torque—**  
 7.0 in.-lb.

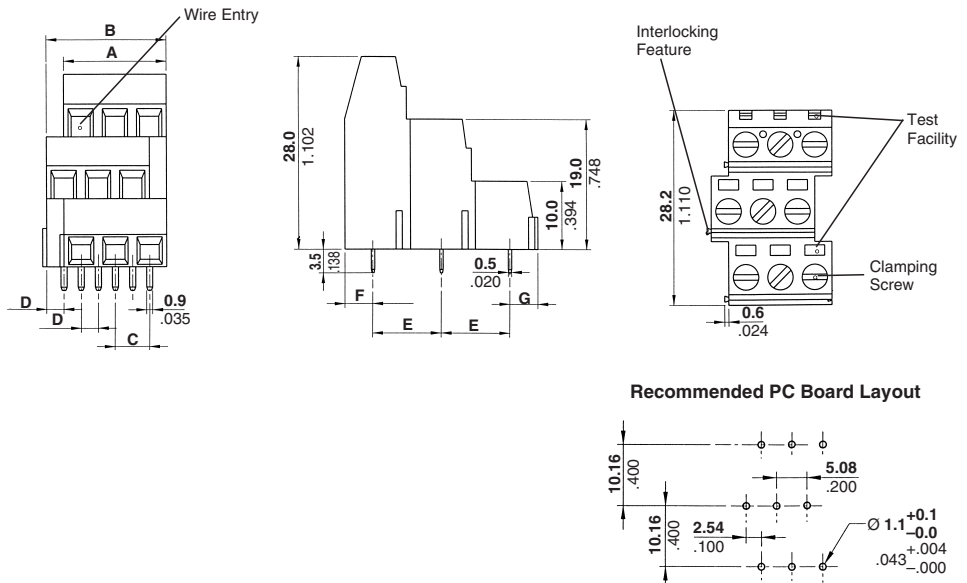


No. of Positions	Dimensions								Part Numbers
	A	B	C	D	E	F	G	H	
2	10.0 .394	12.5 .492	5.0 .197	2.5 .098	10.0 .394	15.0 .591	4.0 .157	5.0 .197	282916-2
3	15.0 .591	17.5 .689	5.0 .197	2.5 .098	10.0 .394	15.0 .591	4.0 .157	5.0 .197	282916-3

**Board Mount w/Interlock**  
**5.08 mm Centerline,**  
**Three Levels, Stacking**  
**Color – Green**  
**UL Rating – 300 V, 13.5 A**  
**16-30 AWG**  
**10 A for field wiring applications**



**Suggested Screw Torque—**  
 6.0 in.-lb.

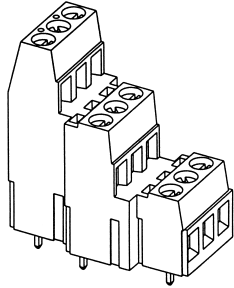


No. of Positions	Dimensions							Part Number
	A	B	C	D	E	F	G	
2	10.16 .400	12.70 .500	5.08 .200	2.54 .100	10.16 .400	3.78 .149	4.1 .161	282877-2
3	15.24 .100	17.78 .700	5.08 .200	2.54 .100	10.16 .400	3.78 .149	4.1 .161	282877-3

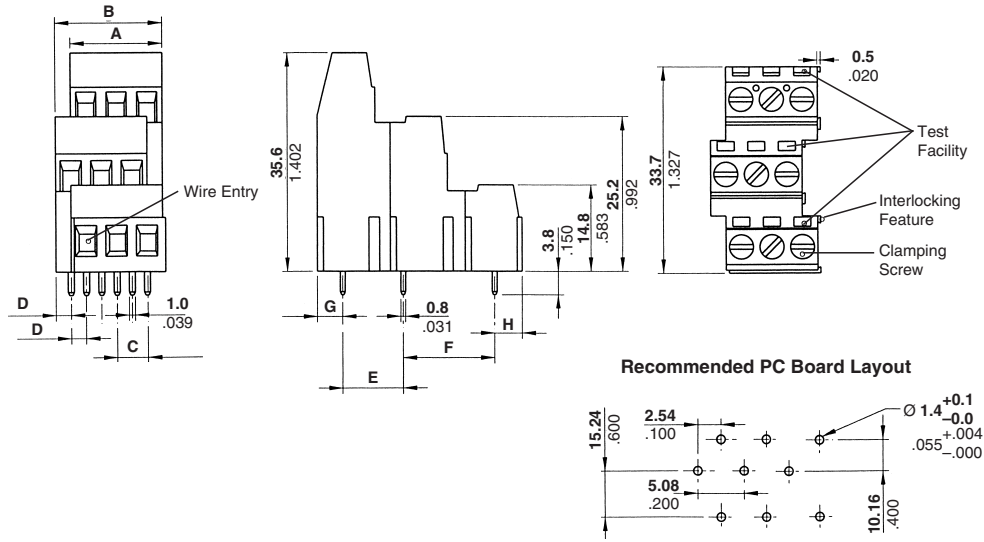
**Note:** All part numbers are RoHS Compliant.

**Board Mount, Three-Levels Stacking Connectors (Continued)**

**Board Mount w/Interlock  
5.08 mm Centerline,  
Three Levels, Stacking**  
**UL Rating – 300 V, 17.5 A  
12-30 AWG  
15 A for field wiring applications**

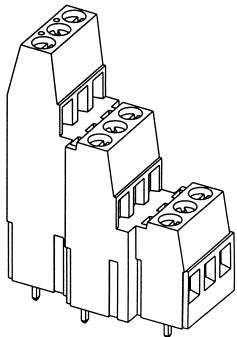


**Suggested Screw Torque—**  
7.0 in.-lb.

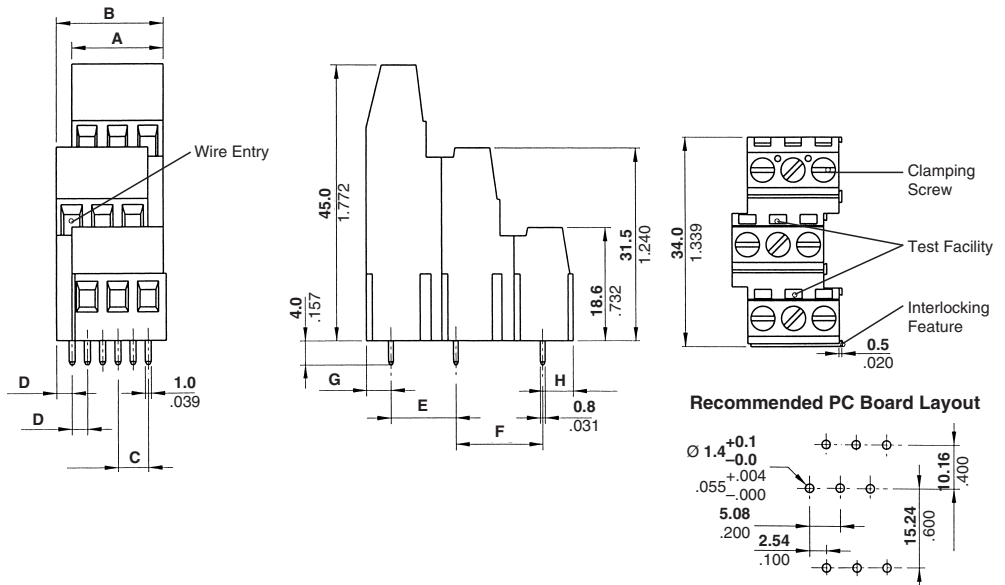


No. of Positions	Dimensions								Part Numbers	
	A	B	C	D	E	F	G	H	Green	Black
2	10.16	12.70	5.08	2.54	10.16	15.24	3.8	4.5	282897-2	1546233-2
	.400	.500	.200	.100	.400	.600	.150	.177		
3	15.24	17.78	5.08	2.54	10.16	15.24	3.8	4.5	282897-3	1546233-3
	.600	.700	.200	.100	.400	.600	.150	.177		

**Board Mount w/Interlock  
5.08 mm Centerline,  
Three Levels, Stacking  
Color – Green**  
**UL Rating – 300 V, 24 A  
12-30 AWG  
20 A for field wiring applications**



**Suggested Screw Torque—**  
7.0 in.-lb.

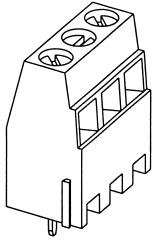


No. of Positions	Dimensions								Part Numbers	
	A	B	C	D	E	F	G	H	Green	Black
2	10.16	12.70	5.08	2.54	10.16	15.24	3.6	5.0	282917-2	
	.400	.500	.200	.100	.400	.600	.142	.197		
3	15.24	17.78	5.08	2.54	10.16	15.24	3.6	5.0	282917-3	
	.600	.700	.200	.100	.400	.600	.142	.197		

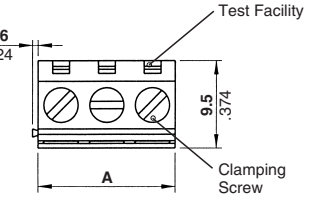
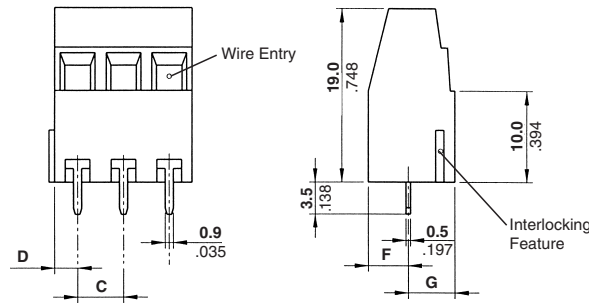
**Note:** All part numbers are RoHS Compliant.

**Board Mount, 2nd Level Stacking Connectors**

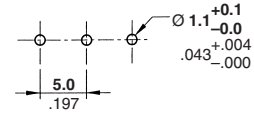
**Board Mount w/Interlock**  
**5.0 mm Centerline,**  
**2nd Level, Stacking**  
**Color – Green**  
**UL Rating – 300 V, 13.5 A**  
**16-30 AWG**  
**10 A for field wiring applications**



**Suggested Screw Torque—**  
 6.0 in.-lb.

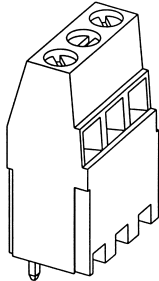


**Recommended PC Board Layout**

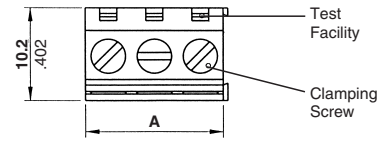
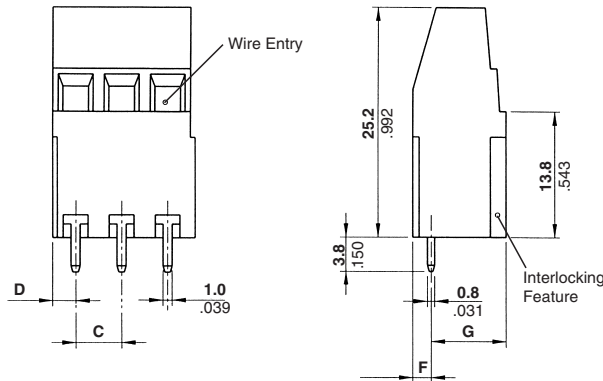


No. of Positions	Dimensions					Part Numbers
	A	C	D	F	G	
2	10.0 .394	5.0 .197	2.5 .098	4.4 .173	5.1 .201	282880-2
3	15.0 .591	5.0 .197	2.5 .098	4.4 .173	5.1 .201	282880-3

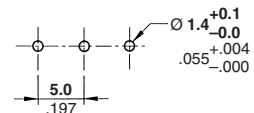
**Board Mount w/Interlock**  
**5.0 mm Centerline,**  
**2nd Level, Stacking**  
**Color – Green**  
**UL Rating – 300 V, 17.5 A**  
**12-30 AWG**  
**15 A for field wiring applications**



**Suggested Screw Torque—**  
 7.0 in.-lb.



**Recommended PC Board Layout**



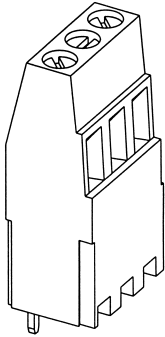
No. of Positions	Dimensions					Part Numbers
	A	C	D	F	G	
2	10.0 .394	5.0 .197	2.5 .098	2.0 .079	8.2 .323	282900-2
3	15.0 .591	5.0 .197	2.5 .098	2.0 .079	8.2 .323	282900-3

**Note:** All part numbers are RoHS Compliant.

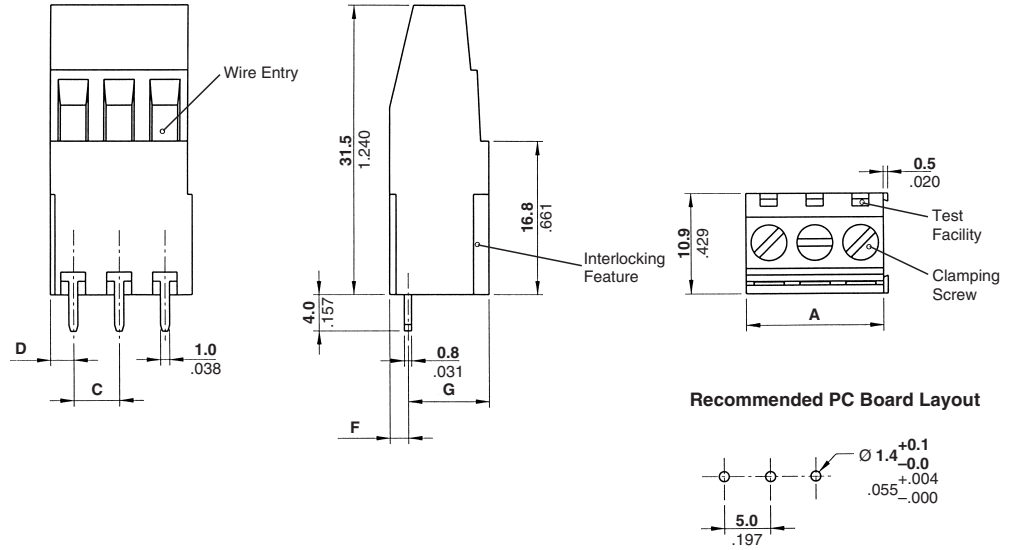
**Board Mount, 2nd Level Stacking Connectors (Continued)**

**Board Mount w/Interlock**  
**5.0 mm Centerline,**  
**2nd Level, Stacking**  
**Color – Green**

**UL Rating – 300 V, 24 A**  
**12-30 AWG**  
**20 A for field wiring applications**



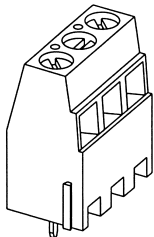
**Suggested Screw Torque—**  
7.0 in.-lb.



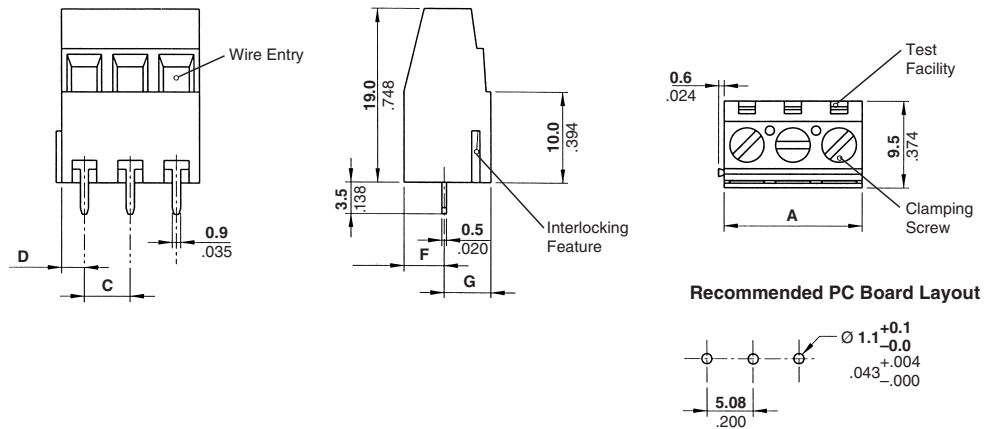
No. of Positions	Dimensions					Part Numbers
	A	C	D	F	G	
2	10.0 .394	5.0 .197	2.5 .098	2.0 .079	8.9 .350	282920-2
3	15.0 .591	5.0 .197	2.5 .098	2.0 .079	8.9 .350	282920-3

**Board Mount w/Interlock**  
**5.08 mm Centerline,**  
**2nd Level, Stacking**  
**Color – Green**

**UL Rating – 300 V, 13.5 A**  
**16-30 AWG**  
**10 A for field wiring applications**



**Suggested Screw Torque—**  
6.0 in.-lb.



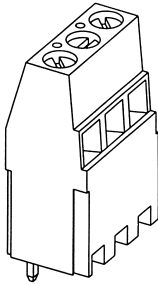
No. of Positions	Dimensions					Part Numbers
	A	C	D	F	G	
2	10.16 .400	5.08 .200	2.54 .100	4.24 .167	5.26 .207	282881-2
3	15.24 .600	5.08 .200	2.54 .100	4.24 .167	5.26 .207	282881-3



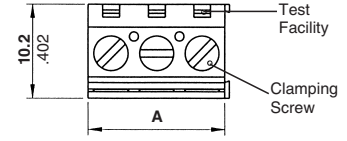
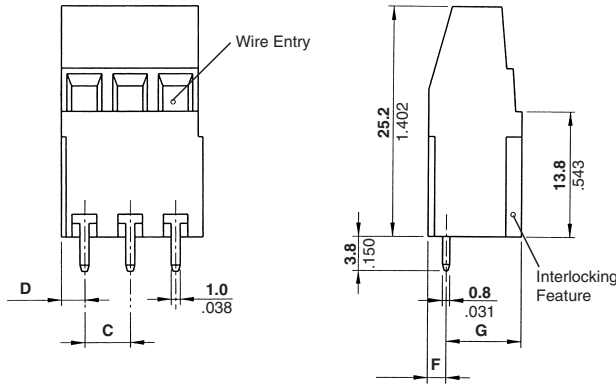
**Note:** All part numbers are RoHS Compliant.

**Board Mount, 2nd Level Stacking Connectors (Continued)**

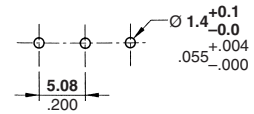
**Board Mount w/Interlock**  
**5.08 mm Centerline,**  
**2nd Level, Stacking**  
**Color – Green**  
**UL Rating – 300 V, 17.5 A**  
**12-30 AWG**  
**15 A for field wiring applications**



**Suggested Screw Torque—**  
 7.0 in.-lb.

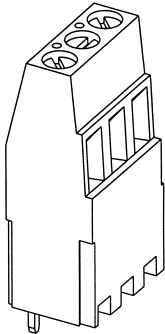


**Recommended PC Board Layout**

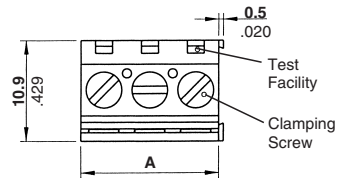
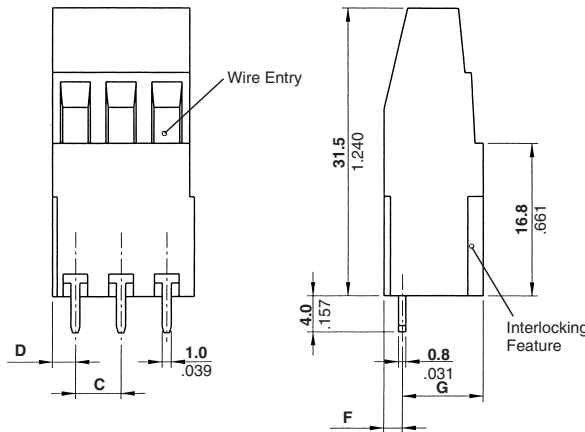


No. of Positions	Dimensions					Part Numbers
	A	C	D	F	G	
2	10.16 .400	5.08 .200	2.54 .100	1.76 .069	8.44 .332	282901-2
3	15.24 .600	5.08 .200	2.54 .100	1.76 .069	8.44 .332	282901-3

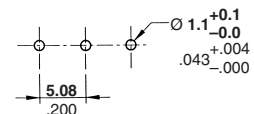
**Board Mount w/Interlock**  
**5.08 mm Centerline,**  
**2nd Level, Stacking**  
**Color – Green**  
**UL Rating – 300 V, 24 A**  
**12-30 AWG**  
**20 A for field wiring applications**



**Suggested Screw Torque—**  
 7.0 in.-lb.



**Recommended PC Board Layout**



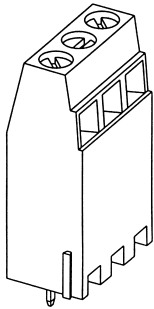
No. of Positions	Dimensions					Part Numbers
	A	C	D	F	G	
2	10.16 .400	5.08 .200	2.54 .100	1.76 .069	9.14 .360	282921-2
3	15.24 .600	5.08 .200	2.54 .100	1.76 .069	9.14 .360	282921-3

**Note:** All part numbers are RoHS Compliant.

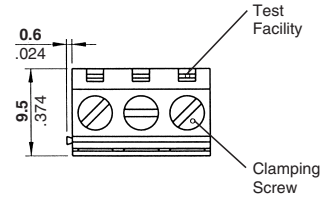
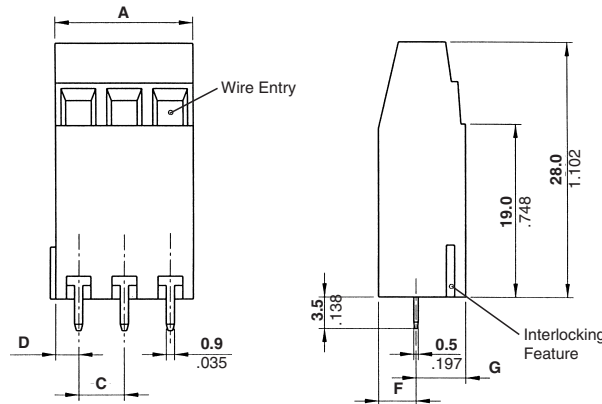
**Board Mount, 3rd Level Stacking Connectors**

**Board Mount w/Interlock**  
**5.0 mm Centerline,**  
**3rd Level, Stacking**  
**Color – Green**

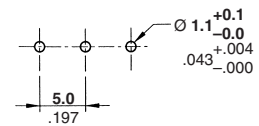
**UL Rating – 300 V, 13.5 A**  
**16-30 AWG**  
**10 A for field wiring applications**



**Suggested Screw Torque—**  
6.0 in.-lb.



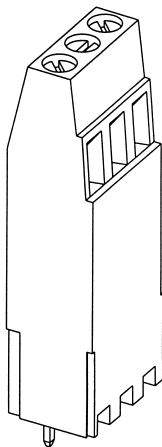
**Recommended PC Board Layout**



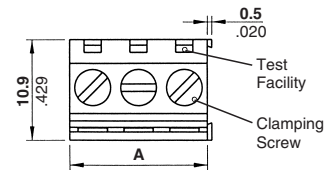
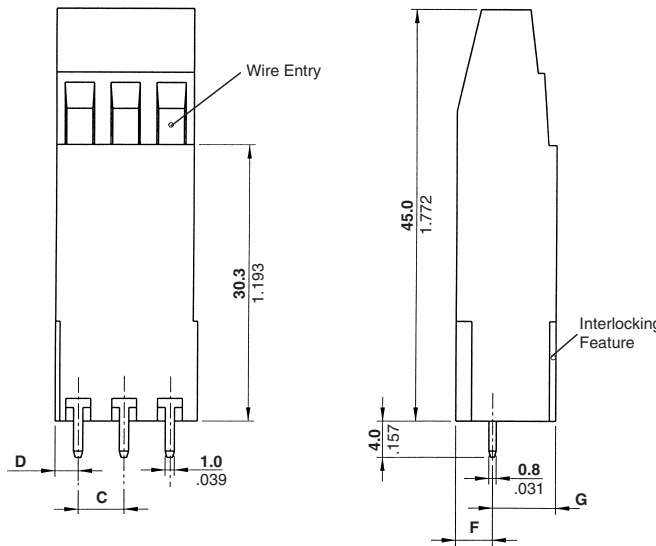
No. of Positions	Dimensions					Part Numbers
	A	C	D	F	G	
2	10.0 .394	5.0 .197	2.5 .098	4.1 .173	5.4 .213	282884-2
3	15.0 .591	5.0 .197	2.5 .098	4.1 .173	5.4 .213	282884-3

**Board Mount w/Interlock**  
**5.0 mm Centerline,**  
**3rd Level, Stacking**  
**Color – Green**

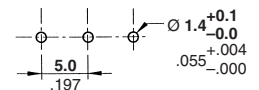
**UL Rating – 300 V, 24 A**  
**12-30 AWG**  
**20 A for field wiring applications**



**Suggested Screw Torque—**  
7.0 in.-lb.



**Recommended PC Board Layout**



No. of Positions	Dimensions					Part Numbers
	A	C	D	F	G	
2	10.0 .394	5.0 .197	2.5 .098	4.0 .157	6.9 .272	282924-2
3	15.0 .591	5.0 .197	2.5 .098	4.0 .157	6.9 .272	282924-3

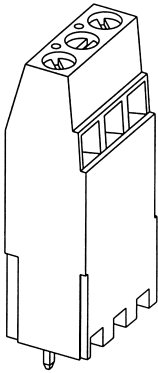


**Note:** All part numbers are RoHS Compliant.

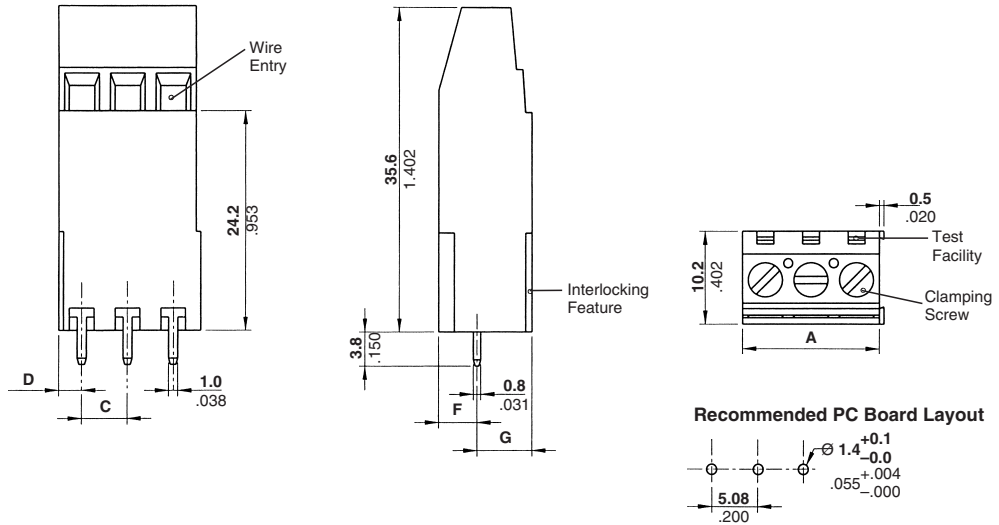
**Board Mount, 3rd Level Stacking Connectors (Continued)**

**Board Mount w/Interlock**  
**5.08 mm Centerline,**  
**3rd Level, Stacking**  
**Color – Green**

**UL Rating – 300 V, 17.5 A**  
**12-30 AWG**  
**15 A for field wiring applications**



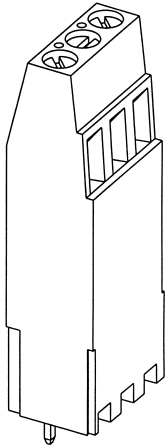
**Suggested Screw Torque—**  
7.0 in.-lb.



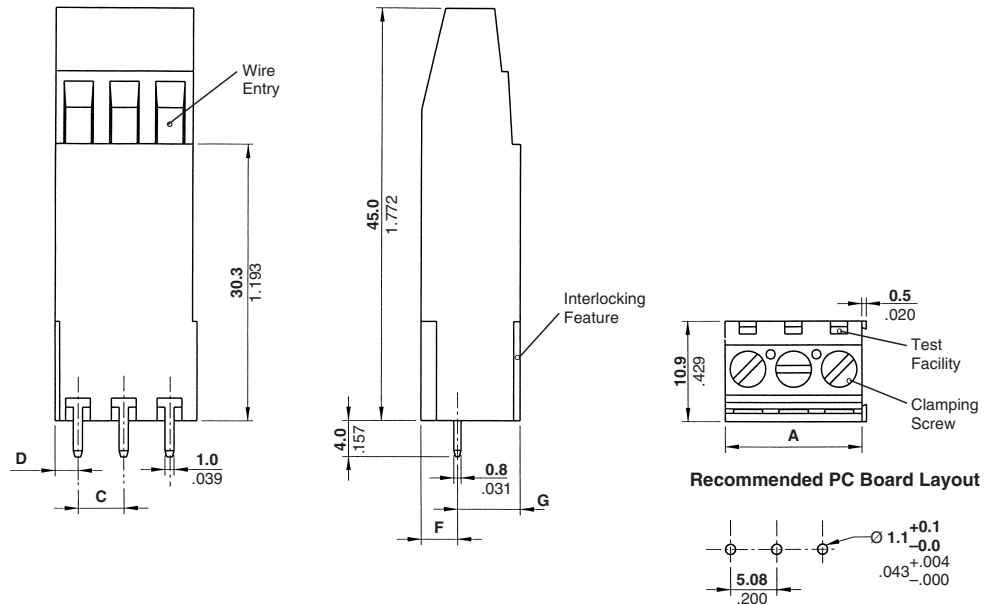
No. of Positions	Dimensions					Part Numbers
	A	C	D	F	G	
2	10.16 .400	5.08 .200	2.54 .100	3.8 .150	6.4 .252	282905-2
3	15.24 .600	5.08 .200	2.54 .100	3.8 .150	6.4 .252	282905-3

**Board Mount w/Interlock**  
**5.08 mm Centerline,**  
**3rd Level, Stacking**  
**Color – Green**

**UL Rating – 300 V, 24 A**  
**12-30 AWG**  
**20 A for field wiring applications**



**Suggested Screw Torque—**  
7.0 in.-lb.



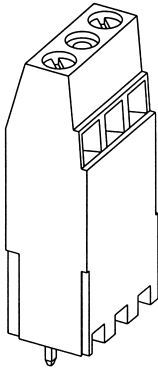
No. of Positions	Dimensions					Part Number
	A	C	D	F	G	
2	10.16 .400	5.08 .200	2.54 .100	3.6 .142	7.3 .287	282925-2
3	15.24 .600	5.08 .200	2.54 .100	3.6 .142	7.3 .287	282925-3

**Note:** All part numbers are RoHS Compliant.

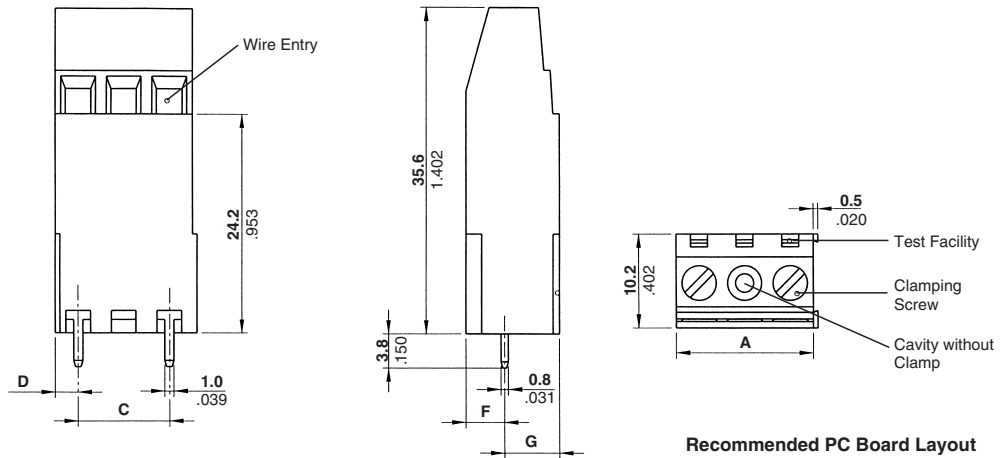
**Board Mount, 3rd Level Stacking Connectors** (Continued)

**Board Mount w/Interlock**  
**10.0 mm Centerline,**  
**3rd Level, Stacking**  
**Color – Green**

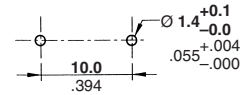
**UL Rating – 600 V, 17.5 A**  
**16-30 AWG**  
**15 A for field wiring applications**



**Suggested Screw Torque—**  
7.0 in.-lb.



**Recommended PC Board Layout**



No. of Positions	Dimensions					Part Number
	A	C	D	F	G	
2	15.0 .591	10.0 .394	2.5 .098	4.2 .165	6.0 .236	282906-2

**Note:** All part numbers are RoHS Compliant.

## Two-Piece Terminal Block Connectors

### Two-Piece Terminal Block Connectors

Tyco Electronics currently provides a full range of two-piece modular terminal blocks for headers with 3.5, 3.81, 5.0, 5.08, 7.5, 7.62, 10.0 and 10.16 mm centerline.

#### Product Facts

- n 3.5, 3.81, 5.0, 5.08, 7.5, 7.62, 10.0 and 10.16 mm centerlines
- n Straight and right-angle shrouded headers with open or closed ends
- n Double-sided female contact design
- n Built-in interlocks to assemble higher number of ways
- n Retention latches between plug and header
- n Polarization keys for easier mating
- n Special 90°/180° and 90°/270° Plugs and Unshrouded Headers (5.0 and 10.0mm Centerline)
- n Interchangeable with existing products of most terminal block suppliers
- n PC board footprint fully compatible with existing Industry Standards: pc board thickness 1.6–2.4 mm
- n 2-3-4 way modules with interlocking fixture, 3.5, 3.81, 5.0 and 5.08 mm centerline, to assemble higher number of ways
- n Polarizing keys promote proper mating (see page 108 for keys and page 107 for labeling)
- n Straight and right-angle headers
- n Stackable open end headers
- n Closed end headers
- n Retention latch between plug and header housings
- n Rising cage clamp design
- n Double-sided contact spring
- n Funnel entry plug housing for easier wire insertion
- n Captive screw
- n Plugs supplied with open screw

- n **Screw flange versions available on 3.5, 3.81, 5.0, and 5.08 mm centerlines**
- n **5.0 and 10.0 mm centerlines**
- n **Recognized under the Component Program of Underwriters Laboratories Inc., File No. E60677** 
- n **Certified by Canadian Standards Association, File No. 703157** 
- n **Interchangeable with most existing products**
- n **PC board footprint compatible with the existing Industry Standards**
- n **Rising cage clamp design**
- n **Funnel entry housing for easier wire insertion**
- n **Test probe access**
- n **Terminal blocks supplied with open captive screws**
- n **Adhesive labeling for numbering**

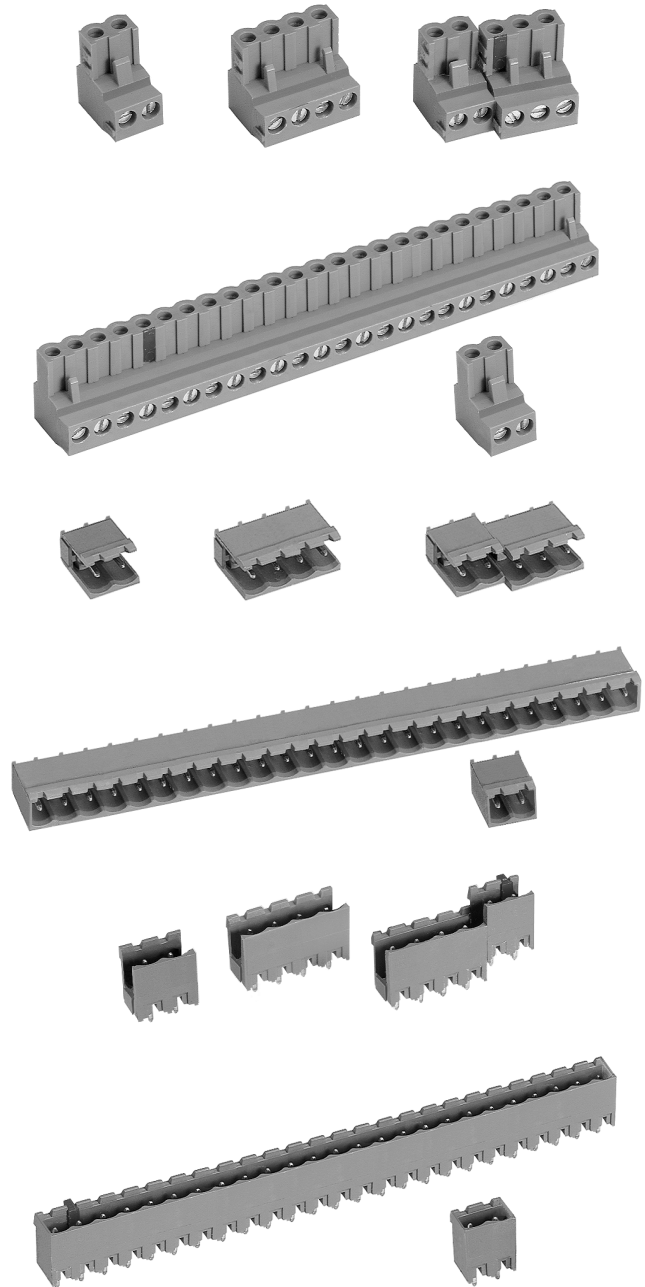
**Housing Material**—Polyamide 6/6, UL 94V-0 rated

**Male Contact**—Brass, tin plated

**Female Contact**—Phosphor bronze, tin plated

**Screw Clamp**—Brass, nickel plated

**Screw**—Brass, nickel plated



Two-Piece Header and Plug

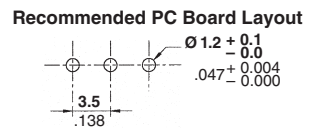
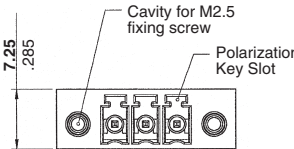
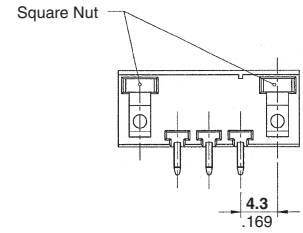
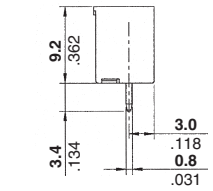
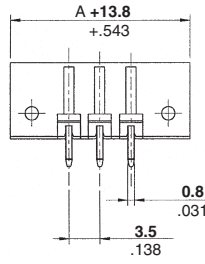
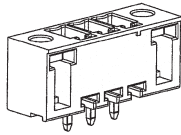
Centerline	No. of Positions
3.50 [.138]*	2–25
3.81 [.150]*	2–25
5.00 [.197]*	2–25
5.08 [.200]*	2–25
7.50 [.295]	2–12
7.62 [.300]	2–12
10.00 [.394]	2–13
10.16 [.400]	2–13

\*Flanged versions may not reflect standard position size.

**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Straight Header w/Threaded Flange, 3.5 mm Centerline**  
**UL Rating – 300 V, 11 A**

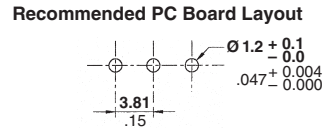
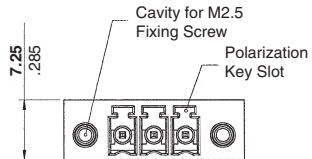
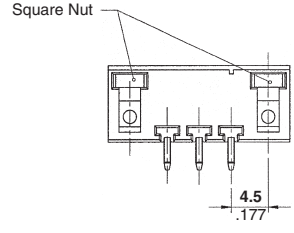
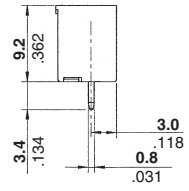
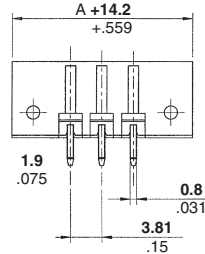
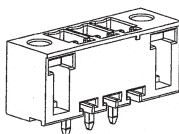


No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	3.5 [0.138]	284516-2	1776132-2
3	7.0 [0.276]	284516-3	1776132-3
4	10.5 [0.413]	284516-4	1776132-4
5	14.0 [0.551]	284516-5	1776132-5
6	17.5 [0.689]	284516-6	1776132-6
7	21.0 [0.827]	284516-7	1776132-7
8	24.5 [0.965]	284516-8	1776132-8
9	28.0 [1.102]	284516-9	1776132-9
10	31.5 [1.240]	1-284516-0	1-1776132-0
11	35.0 [1.378]	1-284516-1	1-1776132-1
12	38.5 [1.516]	1-284516-2	1-1776132-2

No. of Positions	Dim. A	Part Numbers	
		Green	Black*
13	42.0 [1.654]	1-284516-3	—
14	45.5 [1.791]	1-284516-4	—
15	49.0 [1.929]	1-284516-5	—
16	52.5 [2.067]	1-284516-6	—
17	56.0 [2.205]	1-284516-7	—
18	59.5 [2.343]	1-284516-8	—
19	63.0 [2.480]	1-284516-9	—
20	66.5 [2.618]	2-284516-0	—
21	70.0 [2.756]	2-284516-1	—
22	73.5 [2.894]	2-284516-2	—
23	77.0 [3.031]	2-284516-3	—

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

**Straight Header w/Threaded Flange, 3.81 mm Centerline**  
**UL Rating – 300 V, 11 A**



No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	3.81 [0.15]	284519-2	1776133-2
3	7.62 [0.30]	284519-3	1776133-3
4	11.43 [0.45]	284519-4	1776133-4
5	15.24 [0.60]	284519-5	1776133-5
6	19.05 [0.75]	284519-6	1776133-6
7	22.86 [0.90]	284519-7	1776133-7
8	26.67 [1.05]	284519-8	1776133-8
9	30.48 [1.20]	284519-9	1776133-9
10	34.29 [1.35]	1-284519-0	1-1776133-0
11	38.10 [1.50]	1-284519-1	1-1776133-1
12	41.91 [1.65]	1-284519-2	1-1776133-2

No. of Positions	Dim. A	Part Numbers	
		Green	Black*
13	45.72 [1.80]	1-284519-3	—
14	49.53 [1.95]	1-284519-4	—
15	53.34 [2.10]	1-284519-5	—
16	57.15 [2.25]	1-284519-6	—
17	60.96 [2.40]	1-284519-7	—
18	64.77 [2.55]	1-284519-8	—
19	68.58 [2.70]	1-284519-9	—
20	72.39 [2.85]	2-284519-0	—
21	76.20 [3.00]	2-284519-1	—
22	80.01 [3.15]	2-284519-2	—
23	83.82 [3.30]	2-284519-3	—

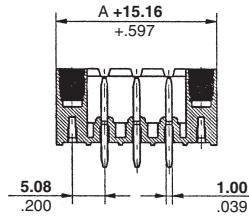
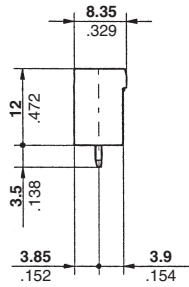
\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.



**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Straight Header w/Locking  
Screw Flange,  
5.08 mm Centerline,  
Color – Green  
UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**



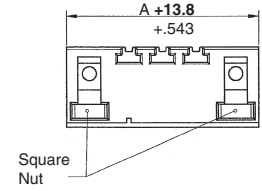
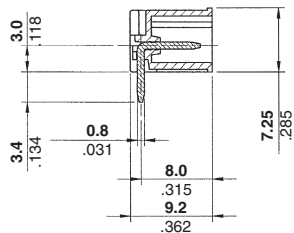
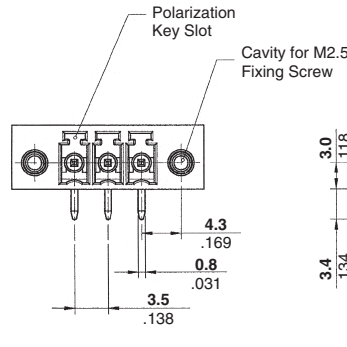
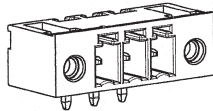
No. of Positions	Dim. A	Part Numbers
2	5.08 [0.20]	796867-2
3	10.16 [0.40]	796867-3
4	15.24 [0.60]	796867-4
5	20.32 [0.80]	796867-5
6	25.40 [1.00]	796867-6
7	30.48 [1.20]	796867-7
8	35.56 [1.40]	796867-8
9	40.64 [1.60]	796867-9
10	45.72 [1.80]	1-796867-0
11	50.80 [2.00]	1-796867-1
12	55.88 [2.20]	1-796867-2

No. of Positions	Dim. A	Part Numbers
13	60.96 [2.40]	1-796867-3
14	66.04 [2.60]	1-796867-4
15	71.12 [2.80]	1-796867-5
16	76.20 [3.00]	1-796867-6
17	81.28 [3.20]	1-796867-7
18	86.36 [3.40]	1-796867-8
19	91.44 [3.60]	1-796867-9
20	96.52 [3.80]	2-796867-0
21	101.60 [4.00]	2-796867-1
22	106.68 [4.20]	2-796867-2
23	111.76 [4.40]	2-796867-3

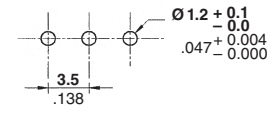
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Right-Angle Closed End Header w/Threaded Flange, 3.5 mm Centerline**  
**UL Rating – 300 V, 11 A**



**Recommended PC Board Layout**

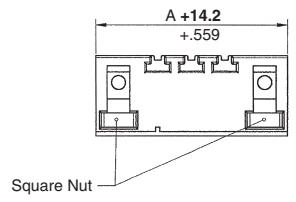
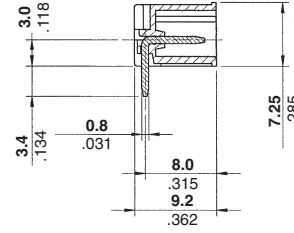
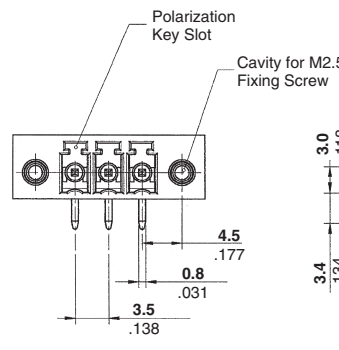
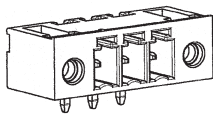


No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	3.5 [0.138]	284539-2	1776136-2
3	7.0 [0.276]	284539-3	1776136-3
4	10.5 [0.413]	284539-4	1776136-4
5	14.0 [0.551]	284539-5	1776136-5
6	17.5 [0.689]	284539-6	1776136-6
7	21.0 [0.827]	284539-7	1776136-7
8	24.5 [0.965]	284539-8	1776136-8
9	28.0 [1.102]	284539-9	1776136-9
10	31.5 [1.240]	1-284539-0	1-1776136-0
11	35.0 [1.378]	1-284539-1	1-1776136-1
12	38.5 [1.516]	1-284539-2	1-1776136-2

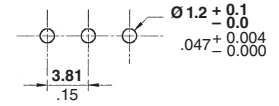
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
13	42.0 [1.654]	1-284539-3	—
14	45.5 [1.791]	1-284539-4	—
15	49.0 [1.929]	1-284539-5	—
16	52.5 [2.067]	1-284539-6	—
17	56.0 [2.205]	1-284539-7	—
18	59.5 [2.343]	1-284539-8	—
19	63.0 [2.480]	1-284539-9	—
20	66.5 [2.618]	2-284539-0	—
21	70.0 [2.756]	2-284539-1	—
22	73.5 [2.894]	2-284539-2	—
23	77.0 [3.031]	2-284539-3	—

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

**Right-Angle Closed End Header w/Threaded Flange, 3.81 mm Centerline**  
**UL Rating – 300 V, 11 A**



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	3.81 [0.15]	284541-2	1776137-2
3	7.62 [0.30]	284541-3	1776137-3
4	11.43 [0.45]	284541-4	1776137-4
5	15.24 [0.60]	284541-5	1776137-5
6	19.05 [0.75]	284541-6	1776137-6
7	22.86 [0.90]	284541-7	1776137-7
8	26.67 [1.05]	284541-8	1776137-8
9	30.48 [1.20]	284541-9	1776137-9
10	34.29 [1.35]	1-284541-0	1-1776137-0
11	38.10 [1.50]	1-284541-1	1-1776137-1
12	41.91 [1.65]	1-284541-2	1-1776137-2

No. of Positions	Dim. A	Part Numbers	
		Green	Black*
13	45.72 [1.80]	1-284541-3	—
14	49.53 [1.95]	1-284541-4	—
15	53.34 [2.10]	1-284541-5	—
16	57.15 [2.25]	1-284541-6	—
17	60.96 [2.40]	1-284541-7	—
18	64.77 [2.55]	1-284541-8	—
19	68.58 [2.70]	1-284541-9	—
20	72.39 [2.85]	2-284541-0	—
21	76.20 [3.00]	2-284541-1	—
22	80.01 [3.15]	2-284541-2	—
23	83.82 [3.30]	2-284541-3	—

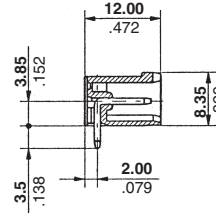
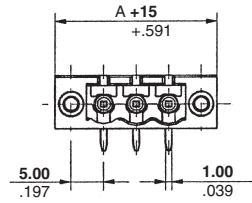
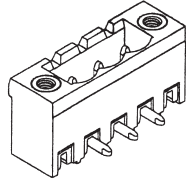
\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.



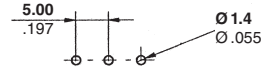
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Right-Angle Header w/Locking Screw Flange, 5.0 mm Centerline, Color – Green**  
**UL Rating – 300 V, 15 A**

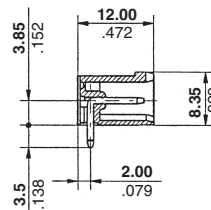
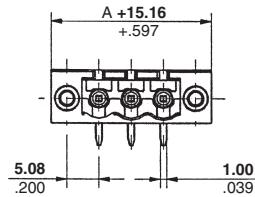
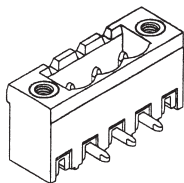


**Recommended PC Board Layout**

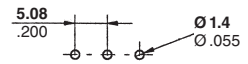


No. of Positions	Dim. A	Part Numbers
2	5.0 [0.197]	796864-2
3	10.0 [0.394]	796864-3
4	15.0 [0.591]	796864-4
5	20.0 [0.787]	796864-5
6	25.0 [0.984]	796864-6
7	30.0 [1.181]	796864-7
8	35.0 [1.378]	796864-8

**Right-Angle Header w/Locking Screw Flange, 5.08 mm Centerline, Color – Green**  
**UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**



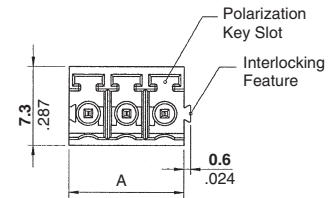
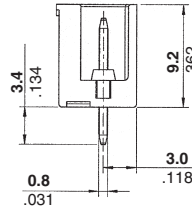
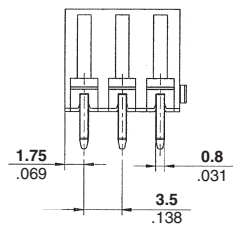
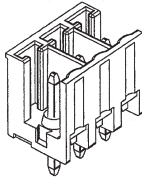
No. of Positions	Dim. A	Part Numbers
2	5.08 [0.20]	796866-2
3	10.16 [0.40]	796866-3
4	15.24 [0.60]	796866-4
5	20.32 [0.80]	796866-5
6	25.40 [1.00]	796866-6
7	30.48 [1.20]	796866-7
8	35.56 [1.40]	796866-8
9	40.64 [1.60]	796866-9
10	45.72 [1.80]	1-796866-0
11	50.80 [2.00]	1-796866-1
12	55.88 [2.20]	1-796866-2

No. of Positions	Dim. A	Part Numbers
13	60.96 [2.40]	1-796866-3
14	66.04 [2.60]	1-796866-4
15	71.12 [2.80]	1-796866-5
16	76.20 [3.00]	1-796866-6
17	81.28 [3.20]	1-796866-7
18	86.36 [3.40]	1-796866-8
19	91.44 [3.60]	1-796866-9
20	96.52 [3.80]	2-796866-0
21	101.60 [4.00]	2-796866-1
22	106.68 [4.20]	2-796866-2
23	111.76 [4.40]	2-796866-3

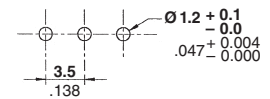
**Two-Piece Terminal Block Connectors (Continued)**

**Straight, Open End Headers,  
3.5 mm Centerline**

**UL Rating – 300 V, 11 A**



**Recommended PC Board Layout**

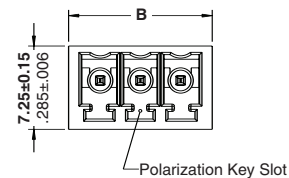
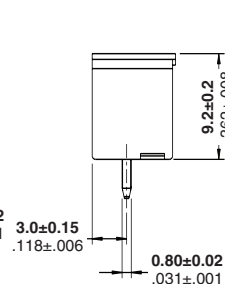
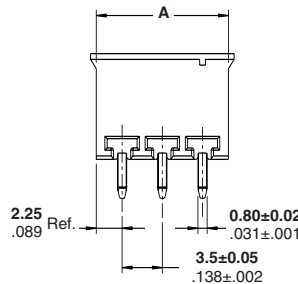
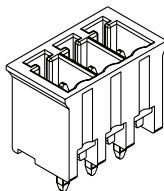


No. of Positions	Dim. A	Part Numbers Green
2	7.0 [0.276]	284515-2
3	10.5 [0.413]	284515-3
4	14.0 [0.551]	284515-4
5	17.5 [0.689]	284515-5
6	21.0 [0.827]	284515-6
7	24.5 [0.965]	284515-7
8	28.0 [1.102]	284515-8
9	31.5 [1.240]	284515-9
10	35.0 [1.378]	1-284515-0
11	38.5 [1.516]	1-284515-1
12	42.0 [1.654]	1-284515-2
13	45.5 [1.791]	1-284515-3

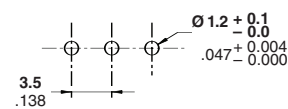
No. of Positions	Dim. A	Part Numbers Green
14	49.0 [1.929]	1-284515-4
15	52.5 [2.067]	1-284515-5
16	56.0 [2.205]	1-284515-6
17	59.5 [2.343]	1-284515-7
18	63.0 [2.480]	1-284515-8
19	66.5 [2.618]	1-284515-9
20	70.0 [2.756]	2-284515-0
21	73.5 [2.894]	2-284515-1
22	77.0 [3.031]	2-284515-2
23	80.5 [3.169]	2-284515-3
24	84.0 [3.307]	2-284515-4
25	87.5 [3.445]	2-284515-5

**Straight, Closed End Headers,  
3.5 mm Centerline**

**UL Rating – 300 V, 11 A**



**Recommended PC Board Layout**

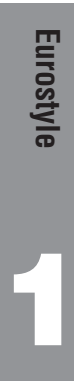


Number of Positions	Dimensions		Part Numbers		
	A	B	Green	Blue	Black*
2	8.0 [0.315]	9.0 [0.354]	284514-2	796694-2	1776130-2
3	11.5 [0.453]	12.5 [0.492]	284514-3	796694-3	1776130-3
4	15.0 [0.590]	16.0 [0.630]	284514-4	796694-4	1776130-4
5	18.5 [0.728]	19.5 [0.768]	284514-5	796694-5	1776130-5
6	22.0 [0.866]	23.0 [0.906]	284514-6	796694-6	1776130-6
7	25.5 [1.004]	26.5 [1.043]	284514-7	796694-7	1776130-7
8	29.0 [1.142]	30.0 [1.181]	284514-8	796694-8	1776130-8
9	32.5 [1.280]	33.5 [1.319]	284514-9	796694-9	1776130-9
10	36.0 [1.417]	37.0 [1.457]	1-284514-0	1-796694-0	1-1776130-0
11	39.5 [1.555]	40.5 [1.594]	1-284514-1	1-796694-1	1-1776130-1
12	43.0 [1.693]	44.0 [1.732]	1-284514-2	1-796694-2	1-1776130-2
13	46.5 [1.831]	47.5 [1.870]	1-284514-3	1-796694-3	—

Number of Positions	Dimensions		Part Numbers		
	A	B	Green	Blue	Black*
14	50.0 [1.968]	51.0 [2.008]	1-284514-4	1-796694-4	—
15	53.5 [2.106]	54.5 [2.146]	1-284514-5	1-796694-5	—
16	57.0 [2.244]	58.0 [2.283]	1-284514-6	1-796694-6	—
17	60.5 [2.382]	61.5 [2.421]	1-284514-7	1-796694-7	—
18	64.0 [2.520]	65.0 [2.599]	1-284514-8	1-796694-8	—
19	67.5 [2.657]	68.5 [2.697]	1-284514-9	1-796694-9	—
20	71.0 [2.795]	72.0 [2.835]	2-284514-0	2-796694-0	—
21	74.5 [2.933]	75.5 [2.972]	2-284514-1	2-796694-1	—
22	78.0 [3.071]	79.0 [3.110]	2-284514-2	2-796694-2	—
23	81.5 [3.209]	82.5 [3.248]	2-284514-3	2-796694-3	—
24	85.0 [3.346]	86.0 [3.386]	2-284514-4	2-796694-4	—
25	88.5 [3.484]	89.5 [3.524]	2-284514-5	2-796694-5	—

**Note:** BUCHANAN Terminal Block Series B73N3VxxT has been superceded/replaced with 796694-xx.

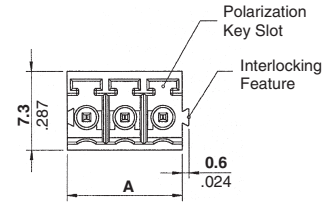
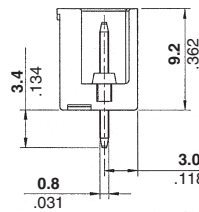
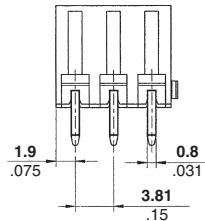
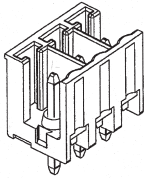
\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.



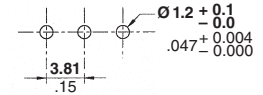
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Straight, Open End Headers,  
3.81 mm Centerline  
Color – Green  
UL Rating – 300 V, 11 A**



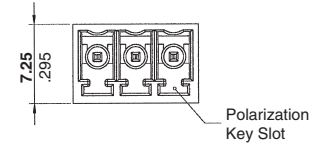
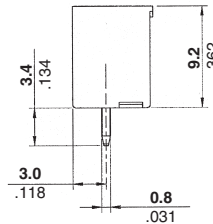
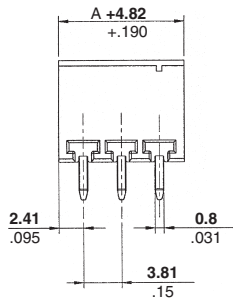
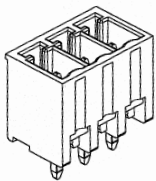
**Recommended PC Board Layout**



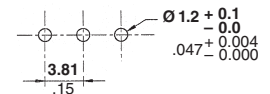
No. of Positions	Dim. A	Part Numbers
2	7.62 [0.30]	284518-2
3	11.43 [0.45]	284518-3
4	15.24 [0.60]	284518-4
5	19.05 [0.75]	284518-5
6	22.86 [0.90]	284518-6
7	26.67 [1.05]	284518-7
8	30.48 [1.20]	284518-8
9	34.29 [1.35]	284518-9
10	38.10 [1.50]	1-284518-0
11	41.91 [1.65]	1-284518-1
12	45.72 [1.80]	1-284518-2
13	49.53 [1.95]	1-284518-3

No. of Positions	Dim. A	Part Numbers
14	53.34 [2.10]	1-284518-4
15	57.15 [2.25]	1-284518-5
16	60.96 [2.40]	1-284518-6
17	64.77 [2.55]	1-284518-7
18	68.58 [2.70]	1-284518-8
19	72.39 [2.85]	1-284518-9
20	76.20 [3.00]	2-284518-0
21	80.01 [3.15]	2-284518-1
22	83.82 [3.30]	2-284518-2
23	87.63 [3.45]	2-284518-3
24	91.44 [3.60]	2-284518-4
25	95.25 [3.75]	2-284518-5

**Straight, Closed End Headers,  
3.81 mm Centerline  
UL Rating – 300 V, 11 A**



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	3.81 [0.15]	284517-2	1776131-2
3	7.62 [0.30]	284517-3	1776131-3
4	11.43 [0.45]	284517-4	1776131-4
5	15.24 [0.60]	284517-5	1776131-5
6	19.05 [0.75]	284517-6	1776131-6
7	22.86 [0.90]	284517-7	1776131-7
8	26.67 [1.05]	284517-8	1776131-8
9	30.48 [1.20]	284517-9	1776131-9
10	34.29 [1.35]	1-284517-0	1-1776131-0
11	38.10 [1.50]	1-284517-1	1-1776131-1
12	41.91 [1.65]	1-284517-2	1-1776131-2
13	45.72 [1.80]	1-284517-3	—

No. of Positions	Dim. A	Part Numbers	
		Green	Black*
14	53.34 [2.10]	1-284517-4	—
15	57.15 [2.25]	1-284517-5	—
16	60.96 [2.40]	1-284517-6	—
17	64.77 [2.55]	1-284517-7	—
18	68.58 [2.70]	1-284517-8	—
19	72.39 [2.85]	1-284517-9	—
20	76.20 [3.00]	2-284517-0	—
21	80.01 [3.15]	2-284517-1	—
22	83.82 [3.30]	2-284517-2	—
23	87.63 [3.45]	2-284517-3	—
24	91.44 [3.60]	2-284517-4	—
25	95.25 [3.75]	2-284517-5	—

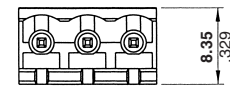
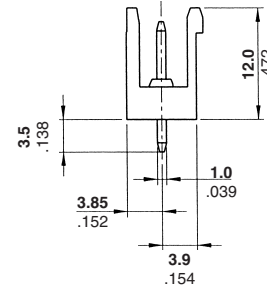
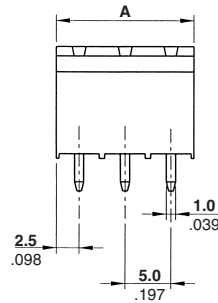
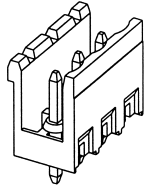
\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

**Note:** All part numbers are RoHS Compliant.

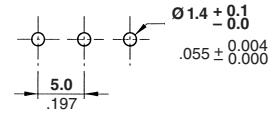
**Two-Piece Terminal Block Connectors (Continued)**

**Straight, Open End Stacking Headers, 5.0 mm Centerline Color – See chart.**

**UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers				
		Gray	Green	Blue	Black*	
2	10.0 [0.394]	1546212-2	282822-2	796697-2	1776138-2	
3	15.0 [0.591]	1546212-3	282822-3	796697-3	1776138-3	
4	20.0 [0.787]	1546212-4	282822-4	796697-4	1776138-4	
5	25.0 [0.984]	1546212-5	282822-5	796697-5	1776138-5	
6	30.0 [1.181]	1546212-6	282822-6	796697-6	1776138-6	
7	35.0 [1.378]	1546212-7	282822-7	796697-7	1776138-7	
8	40.0 [1.575]	1546212-8	282822-8	796697-8	1776138-8	
9	45.0 [1.772]	1546212-9	282822-9	796697-9	1776138-9	
10	50.0 [1.968]	1-1546212-0	1-282822-0	1-796697-0	1-1776138-0	
11	55.0 [2.165]	1-1546212-1	1-282822-1	1-796697-1	1-1776138-1	
12	60.0 [2.362]	1-1546212-2	1-282822-2	1-796697-2	1-1776138-2	
13	65.0 [2.559]	1-1546212-3	1-282822-3	1-796697-3	—	

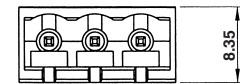
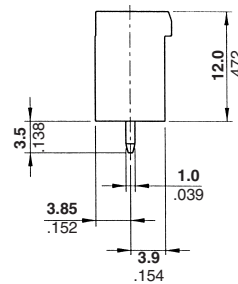
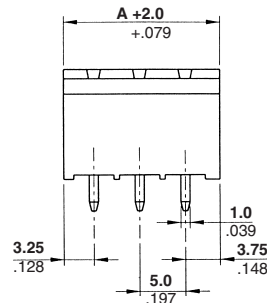
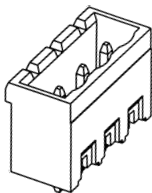
No. of Positions	Dim. A	Part Numbers				
		Gray	Green	Blue	Black*	
14	70.0 [2.756]	1-1546212-4	1-282822-4	1-796697-4	—	
15	75.0 [2.953]	1-1546212-5	1-282822-5	1-796697-5	—	
16	80.0 [3.150]	1-1546212-6	1-282822-6	1-796697-6	—	
17	85.0 [3.346]	1-1546212-7	1-282822-7	1-796697-7	—	
18	90.0 [3.543]	1-1546212-8	1-282822-8	1-796697-8	—	
19	95.0 [3.740]	1-1546212-9	1-282822-9	1-796697-9	—	
20	100.0 [3.937]	2-1546212-0	2-282822-0	2-796697-0	—	
21	105.0 [4.134]	2-1546212-1	2-282822-1	2-796697-1	—	
22	110.0 [4.331]	2-1546212-2	2-282822-2	2-796697-2	—	
23	115.0 [4.528]	2-1546212-3	2-282822-3	2-796697-3	—	
24	120.0 [4.724]	2-1546212-4	2-282822-4	2-796697-4	—	
25	125.0 [4.921]	2-1546212-5	2-282822-5	2-796697-5	—	

**Note:** BUCHANAN Terminal Block Series B72N4VxxT has been replaced by x-796697-x (blue).

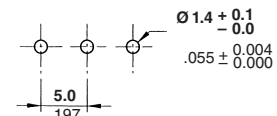
\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

**Straight, Closed End Headers, 5.0 mm Centerline Color – See chart.**

**UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**



No. of Pos.	Dim. A	Part Numbers				
		Gray	Green	Blue	Black*	
2	10.0 [0.394]	1546211-2	796642-2	796699-2	1776146-2	
3	15.0 [0.591]	1546211-3	796642-3	796699-3	1776146-3	
4	20.0 [0.787]	1546211-4	796642-4	796699-4	1776146-4	
5	25.0 [0.984]	1546211-5	796642-5	796699-5	1776146-5	
6	30.0 [1.181]	1546211-6	796642-6	796699-6	1776146-6	
7	35.0 [1.378]	1546211-7	796642-7	796699-7	1776146-7	
8	40.0 [1.575]	1546211-8	796642-8	796699-8	1776146-8	
9	45.0 [1.772]	1546211-9	796642-9	796699-9	1776146-9	
10	50.0 [1.968]	1-1546211-0	1-796642-0	1-796699-0	1-1776146-0	
11	55.0 [2.165]	1-1546211-1	1-796642-1	1-796699-1	1-1776146-1	
12	60.0 [2.362]	1-1546211-2	1-796642-2	1-796699-2	1-1776146-2	
13	65.0 [2.559]	1-1546211-3	1-796642-3	1-796699-3	—	

No. of Positions	Dim. A	Part Numbers				
		Gray	Green	Blue	Black	
14	70.0 [2.756]	1-1546211-4	1-796642-4	1-796699-4	1-796643-4	
15	75.0 [2.953]	1-1546211-5	1-796642-5	1-796699-5	1-796643-5	
16	80.0 [3.150]	1-1546211-6	1-796642-6	1-796699-6	1-796643-6	
17	85.0 [3.346]	1-1546211-7	1-796642-7	1-796699-7	1-796643-7	
18	90.0 [3.543]	1-1546211-8	1-796642-8	1-796699-8	1-796643-8	
19	95.0 [3.740]	1-1546211-9	1-796642-9	1-796699-9	1-796643-9	
20	100.0 [3.937]	2-1546211-0	2-796642-0	2-796699-0	2-796643-0	
21	105.0 [4.134]	2-1546211-1	2-796642-1	2-796699-1	2-796643-1	
22	110.0 [4.331]	2-1546211-2	2-796642-2	2-796699-2	2-796643-2	
23	115.0 [4.528]	2-1546211-3	2-796642-3	2-796699-3	2-796643-3	
24	120.0 [4.724]	2-1546211-4	2-796642-4	2-796699-4	2-796643-4	
25	125.0 [4.921]	2-1546211-5	2-796642-5	2-796699-5	2-796643-5	

**Note:** BUCHANAN Terminal Block Series B73N4VxxT has been replaced with 796699-xx (blue) and 796643-xx (black).

RDI Terminal Block Series 2EHDV-xx has been replaced with 796642-xx (green) and 796643-xx (black).

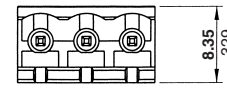
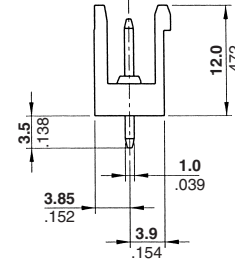
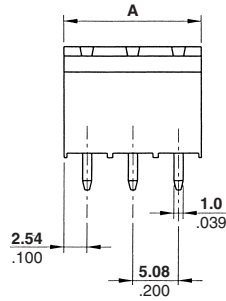
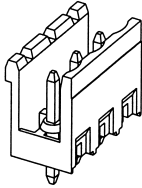
\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.



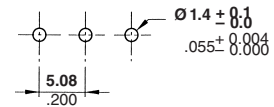
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Straight, Open End Stacking Headers, 5.08 mm Centerline Color – See chart. UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**

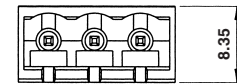
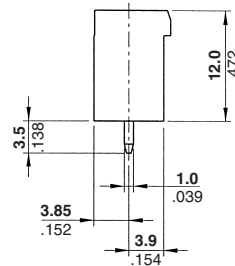
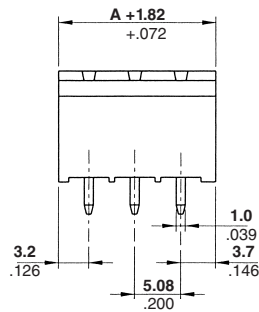
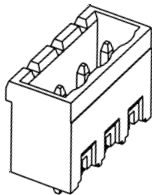


No. of Positions	Dim. A	Part Numbers		
		Green	Gray	Black*
2	10.16 [0.40]	282825-2	1546213-2	1776139-2
3	15.24 [0.60]	282825-3	1546213-3	1776139-3
4	20.32 [0.80]	282825-4	1546213-4	1776139-4
5	25.40 [1.00]	282825-5	1546213-5	1776139-5
6	30.48 [1.20]	282825-6	1546213-6	1776139-6
7	35.56 [1.40]	282825-7	1546213-7	1776139-7
8	40.64 [1.60]	282825-8	1546213-8	1776139-8
9	45.72 [1.80]	282825-9	1546213-9	—
10	50.80 [2.00]	1-282825-0	1-1546213-0	—
11	55.88 [2.20]	1-282825-1	1-1546213-1	—
12	60.96 [2.40]	1-282825-2	1-1546213-2	—
13	66.04 [2.60]	1-282825-3	1-1546213-3	—

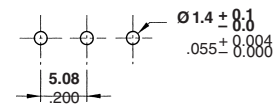
No. of Positions	Dim. A	Part Numbers		
		Green	Gray	Black*
14	71.12 [2.80]	1-282825-4	1-1546213-4	—
15	76.20 [3.00]	1-282825-5	1-1546213-5	—
16	81.28 [3.20]	1-282825-6	1-1546213-6	—
17	86.36 [3.40]	1-282825-7	1-1546213-7	—
18	91.44 [3.60]	1-282825-8	1-1546213-8	—
19	96.52 [3.80]	1-282825-9	1-1546213-9	—
20	101.60 [4.00]	2-282825-0	2-1546213-0	—
21	106.68 [4.20]	2-282825-1	2-1546213-1	—
22	111.76 [4.40]	2-282825-2	2-1546213-2	—
23	116.84 [4.60]	2-282825-3	2-1546213-3	—
24	121.92 [4.80]	2-282825-4	2-1546213-4	—
25	127.00 [5.00]	2-282825-5	2-1546213-5	—

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

**Straight, Closed End Headers, 5.08 mm Centerline Color – See chart. UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**



No. of Pos.	Dim. A	Part Numbers			
		Gray	Green	Black	Black*
2	10.16 [0.40]	1546111-2	796636-2	796637-2	1776147-2
3	15.24 [0.60]	1546111-3	796636-3	796637-3	1776147-3
4	20.32 [0.80]	1546111-4	796636-4	796637-4	1776147-4
5	25.40 [1.00]	1546111-5	796636-5	796637-5	1776147-5
6	30.48 [1.20]	1546111-6	796636-6	796637-6	1776147-6
7	35.56 [1.40]	1546111-7	796636-7	796637-7	1776147-7
8	40.64 [1.60]	1546111-8	796636-8	796637-8	1776147-8
9	45.72 [1.80]	1546111-9	796636-9	796637-9	—
10	50.80 [2.00]	1-1546111-0	1-796636-0	1-796637-0	—
11	55.88 [2.20]	1-1546111-1	1-796636-1	1-796637-1	—
12	60.96 [2.40]	1-1546111-2	1-796636-2	1-796637-2	—
13	66.04 [2.60]	1-1546111-3	1-796636-3	1-796637-3	—

No. of Positions	Dim. A	Part Numbers		
		Gray	Green	Black
14	71.12 [2.80]	1-1546111-4	1-796636-4	1-796637-4
15	76.20 [3.00]	1-1546111-5	1-796636-5	1-796637-5
16	81.28 [3.20]	1-1546111-6	1-796636-6	1-796637-6
17	86.36 [3.40]	1-1546111-7	1-796636-7	1-796637-7
18	91.44 [3.60]	1-1546111-8	1-796636-8	1-796637-8
19	96.52 [3.80]	1-1546111-9	1-796636-9	1-796637-9
20	101.60 [4.00]	2-1546111-0	2-796636-0	1-796637-0
21	106.68 [4.20]	2-1546111-1	2-796636-1	2-796637-1
22	111.76 [4.40]	2-1546111-2	2-796636-2	2-796637-2
23	116.84 [4.60]	2-1546111-3	2-796636-3	2-796637-3
24	121.92 [4.80]	2-1546111-4	2-796636-4	2-796637-4
25	127.00 [5.00]	2-1546111-5	2-796636-5	2-796637-5

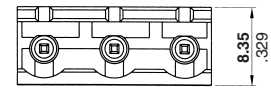
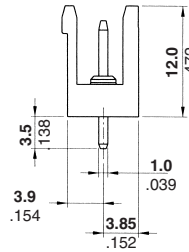
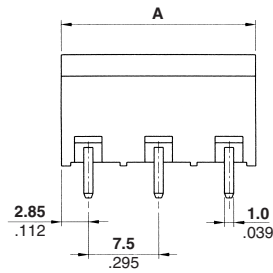
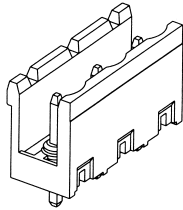
**Note:** BUCHANAN Terminal Block Series B2EHDVxx has been superceded/replaced with 796636-xx (green) and 796637-xx (black).

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

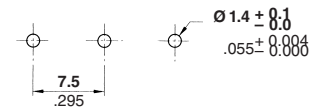
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Straight, Open End Headers, 7.5 mm Centerline  
UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**

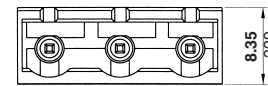
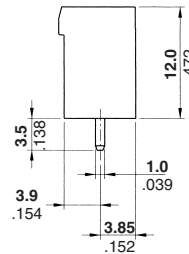
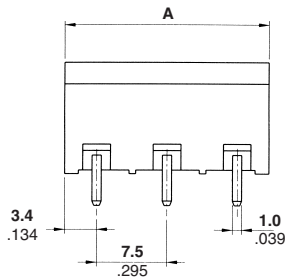
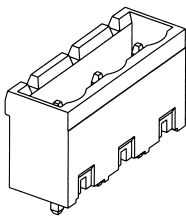


No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	13.2 [0.520]	282963-2	1776149-2
3	20.7 [0.815]	282963-3	1776149-3
4	28.2 [1.110]	282963-4	1776149-4
5	35.7 [1.406]	282963-5	1776149-5
6	43.2 [1.701]	282963-6	1776149-6
7	50.7 [1.996]	282963-7	1776149-7

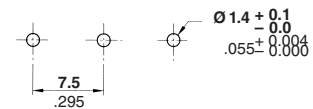
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
8	58.2 [2.291]	282963-8	1776149-8
9	65.7 [2.587]	282963-9	1776149-9
10	73.2 [2.882]	1-282963-0	1-1776149-0
11	80.7 [3.177]	1-282963-1	1-1776149-1
12	88.2 [3.472]	1-282963-2	1-1776149-2

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

**Straight, Closed End Headers, 7.5 mm Centerline  
UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	14.3 [0.563]	282964-2	1776153-2
3	21.8 [0.858]	282964-3	1776153-3
4	29.3 [1.154]	282964-4	1776153-4
5	36.8 [1.449]	282964-5	1776153-5
6	44.3 [1.744]	282964-6	1776153-6
7	51.8 [2.039]	282964-7	1776153-7

No. of Positions	Dim. A	Part Numbers	
		Green	Black*
8	59.3 [2.335]	282964-8	1776153-8
9	66.8 [2.630]	282964-9	1776153-9
10	74.3 [2.925]	1-282964-0	1-1776153-0
11	81.8 [3.220]	1-282964-1	1-1776153-1
12	89.3 [3.516]	1-282964-2	1-1776153-2

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

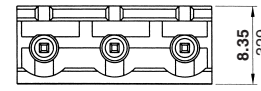
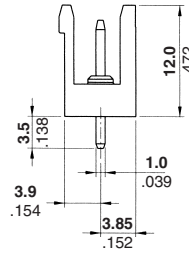
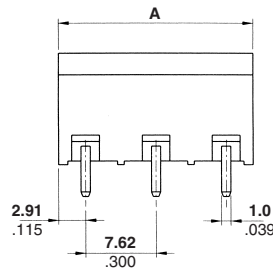
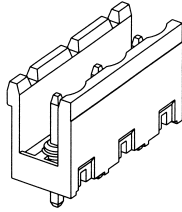




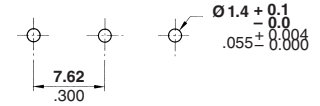
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Straight, Open End Headers, 7.62 mm Centerline**  
**UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**

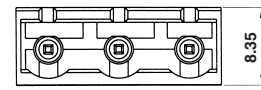
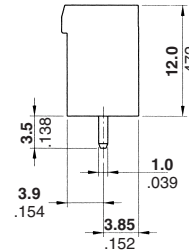
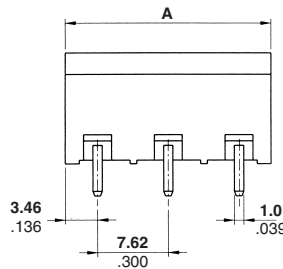
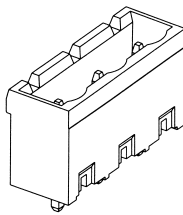


No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	13.44 [0.529]	282967-2	1776150-2
3	21.06 [0.829]	282967-3	1776150-3
4	28.68 [1.129]	282967-4	1776150-4
5	36.30 [1.429]	282967-5	1776150-5
6	43.92 [1.729]	282967-6	1776150-6
7	51.54 [2.029]	282967-7	1776150-7

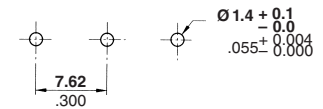
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
8	59.16 [2.329]	282967-8	1776150-8
9	66.78 [2.629]	282967-9	1776150-9
10	74.40 [2.929]	1-282967-0	1-1776150-0
11	82.02 [3.229]	1-282967-1	1-1776150-1
12	89.64 [3.529]	1-282967-2	1-1776150-2

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

**Straight, Closed End Headers, 7.62 mm Centerline**  
**UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	14.54 [0.572]	796980-2	1776154-2
3	22.16 [0.872]	796980-3	1776154-3
4	29.78 [1.172]	796980-4	1776154-4
5	37.40 [1.472]	796980-5	1776154-5
6	45.02 [1.772]	796980-6	1776154-6
7	52.64 [2.072]	796980-7	1776154-7

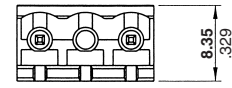
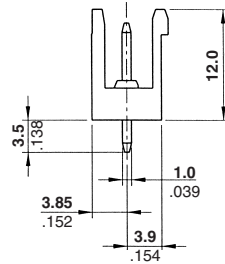
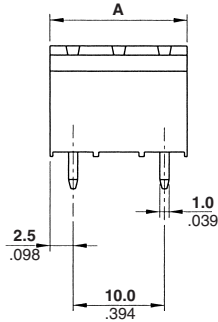
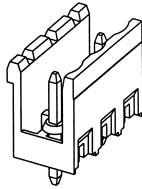
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
8	60.26 [2.372]	796980-8	1776154-8
9	67.88 [2.672]	796980-9	1776154-9
10	75.50 [2.972]	1-796980-0	1-1776154-0
11	83.12 [3.272]	1-796980-1	1-1776154-1
12	90.74 [3.572]	1-796980-2	1-1776154-2

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

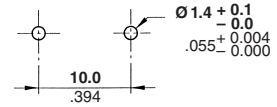
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Straight, Open End Headers, 10.0 mm Centerline**  
**UL Rating – 600 V, 24 A**



**Recommended PC Board Layout**

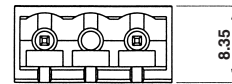
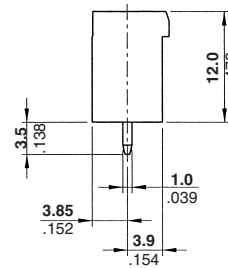
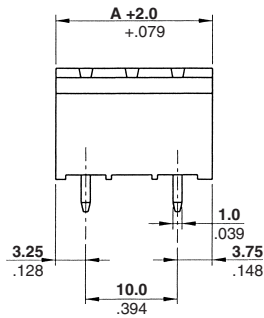
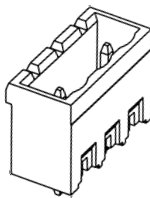


No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	15.0 [0.591]	282827-2	1776156-2
3	25.0 [0.984]	282827-3	1776156-3
4	35.0 [1.378]	282827-4	1776156-4
5	45.0 [1.772]	282827-5	—
6	55.0 [2.165]	282827-6	—
7	65.0 [2.559]	282827-7	—

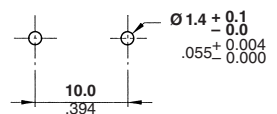
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
8	75.0 [2.953]	282827-8	—
9	85.0 [3.346]	282827-9	—
10	95.0 [3.740]	1-282827-0	—
11	105.0 [4.134]	1-282827-1	—
12	115.0 [4.528]	1-282827-2	—
13	125.0 [4.921]	1-282827-3	—

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

**Straight, Closed End Headers, 10.0 mm Centerline**  
**UL Rating – 600 V, 24 A**



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	15.0 [0.591]	282826-2	1776160-2
3	25.0 [0.984]	282826-3	1776160-3
4	35.0 [1.378]	282826-4	1776160-4
5	45.0 [1.772]	282826-5	—
6	55.0 [2.165]	282826-6	—
7	65.0 [2.559]	282826-7	—

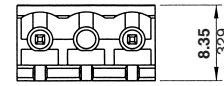
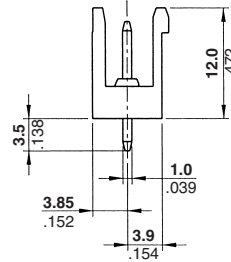
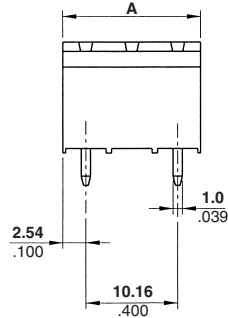
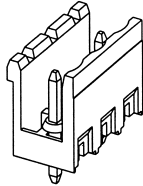
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
8	75.0 [2.953]	282826-8	—
9	85.0 [3.346]	282826-9	—
10	95.0 [3.740]	1-282826-0	—
11	105.0 [4.134]	1-282826-1	—
12	115.0 [4.528]	1-282826-2	—
13	125.0 [4.921]	1-282826-3	—

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

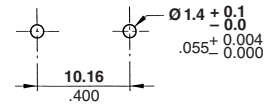
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Straight, Open End Headers, 10.16 mm Centerline  
UL Rating – 600 V, 15 A**



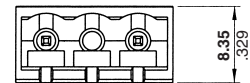
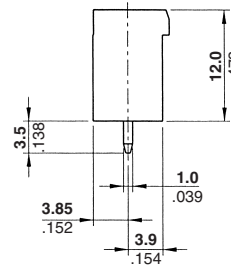
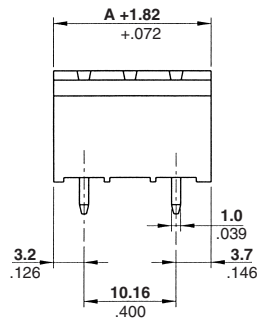
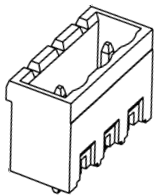
**Recommended PC Board Layout**



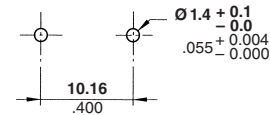
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	15.24 [0.60]	282828-2	1776161-2
3	25.40 [1.00]	282828-3	1776161-3
4	35.56 [1.40]	282828-4	1776161-4

\*Wave solder process capable to 265°C [509°F] for 10 seconds  
Dimensions may vary from what is shown for High Temperature Parts.  
Please check Customer Drawing.

**Straight, Closed End Headers, 10.16 mm Centerline  
UL Rating – 600 V, 15 A**



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	15.24 [0.60]	282828-2	1776161-2
3	25.40 [1.00]	282828-3	1776161-3
4	35.56 [1.40]	282828-4	1776161-4
5	45.72 [1.80]	282828-5	—
6	55.88 [2.20]	282828-6	—
7	66.04 [2.60]	282828-7	—

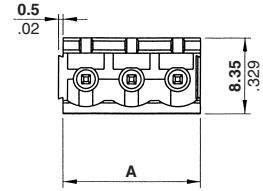
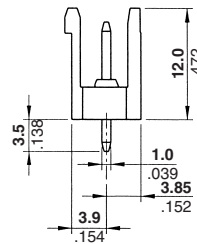
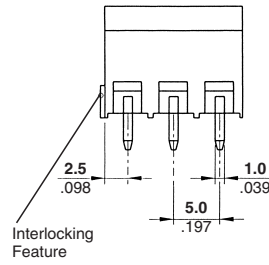
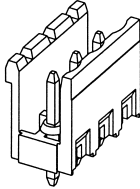
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
8	76.20 [3.00]	282828-8	—
9	86.36 [3.40]	282828-9	—
10	96.52 [3.80]	1-282828-0	—
11	106.68 [4.20]	1-282828-1	—
12	116.84 [4.60]	1-282828-2	—
13	127.00 [5.00]	1-282828-3	—

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

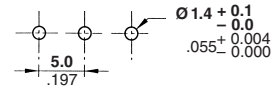
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Straight, Open End Stacking Headers w/Interlock, 5.0 mm Centerline**  
**UL Rating – 300 V, 15 A**



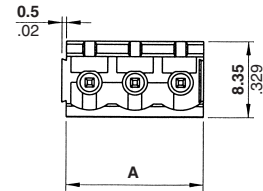
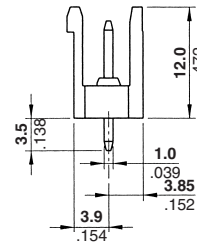
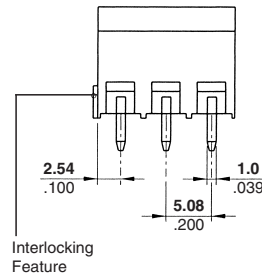
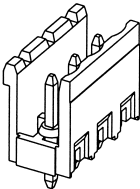
**Recommended PC Board Layout**



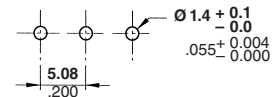
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	10.0 [.394]	282821-2	1776142-2
3	15.0 [.591]	282821-3	1776142-3
4	20.0 [.787]	282821-4	1776142-4

\*Wave solder process capable to 265°C [509°F] for 10 seconds  
Dimensions may vary from what is shown for High Temperature Parts.  
Please check Customer Drawing.

**Straight, Open End Stacking Headers w/Interlock, 5.08 mm Centerline**  
**UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	10.16 [.400]	282824-2	1776143-2
3	15.24 [.600]	282824-3	1776143-3
4	20.32 [.800]	282824-4	1776143-4

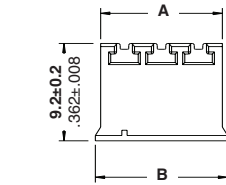
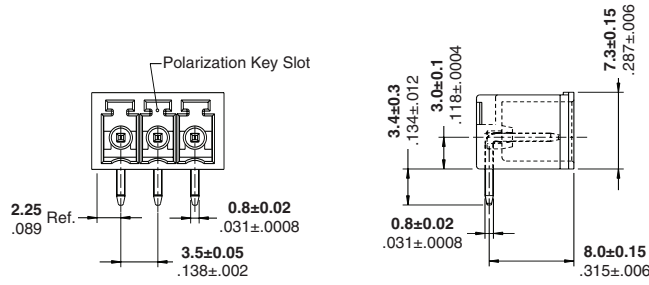
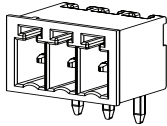
\*Wave solder process capable to 265°C [509°F] for 10 seconds  
Dimensions may vary from what is shown for High Temperature Parts.  
Please check Customer Drawing.



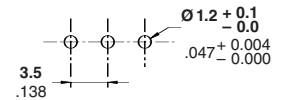
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Right-Angle, Closed End Headers, 3.5 mm Centerline Color – See chart. UL Rating – 300 V, 11 A**



**Recommended PC Board Layout**



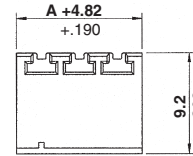
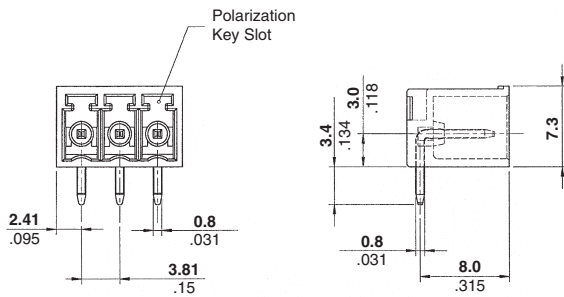
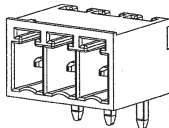
Number of Positions	Dimensions		Part Numbers		
	A	B	Green	Blue	Black*
2	8.0 [0.315]	9.0 [0.354]	284512-2	796695-2	1776134-2
3	11.5 [0.453]	12.5 [0.492]	284512-3	796695-3	1776134-3
4	15.0 [0.590]	16.0 [0.630]	284512-4	796695-4	1776134-4
5	18.5 [0.728]	19.5 [0.768]	284512-5	796695-5	1776134-5
6	22.0 [0.866]	23.0 [0.906]	284512-6	796695-6	1776134-6
7	25.5 [1.004]	26.5 [1.043]	284512-7	796695-7	1776134-7
8	29.0 [1.142]	30.0 [1.181]	284512-8	796695-8	1776134-8
9	32.5 [1.280]	33.5 [1.319]	284512-9	796695-9	—
10	36.0 [1.417]	37.0 [1.457]	1-284512-0	1-796695-0	—
11	39.5 [1.555]	40.5 [1.594]	1-284512-1	1-796695-1	—
12	43.0 [1.693]	44.0 [1.732]	1-284512-2	1-796695-2	—
13	46.5 [1.831]	47.5 [1.870]	1-284512-3	1-796695-3	—

Number of Positions	Dimensions		Part Numbers		
	A	B	Green	Blue	Black*
14	50.0 [1.968]	51.0 [2.008]	1-284512-4	1-796695-4	—
15	53.5 [2.106]	54.5 [2.146]	1-284512-5	1-796695-5	—
16	57.0 [2.244]	58.0 [2.283]	1-284512-6	1-796695-6	—
17	60.5 [2.382]	61.5 [2.421]	1-284512-7	1-796695-7	—
18	64.0 [2.520]	65.0 [2.559]	1-284512-8	1-796695-8	—
19	67.5 [2.657]	68.5 [2.697]	1-284512-9	1-796695-9	—
20	71.0 [2.795]	72.0 [2.835]	2-284512-0	2-796695-0	—
21	74.5 [2.933]	75.5 [2.972]	2-284512-1	2-796695-1	—
22	78.0 [3.071]	79.0 [3.110]	2-284512-2	2-796695-2	—
23	81.5 [3.209]	82.5 [3.248]	2-284512-3	2-796695-3	—
24	85.0 [3.346]	86.0 [3.386]	2-284512-4	2-796695-4	—
25	88.5 [3.484]	89.5 [3.524]	2-284512-5	2-796695-5	—

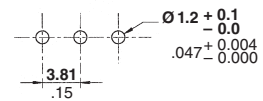
**Note:** BUCHANAN Terminal Block Series B73N3HxxT has been replaced with Part Number 796695-xx (blue).

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

**Right-Angle, Closed End Headers, 3.81 mm Centerline UL Rating – 300 V, 11 A**



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	3.81 [0.15]	284513-2	1776135-2
3	7.62 [0.30]	284513-3	1776135-3
4	11.43 [0.45]	284513-4	1776135-4
5	15.24 [0.60]	284513-5	1776135-5
6	19.05 [0.75]	284513-6	1776135-6
7	22.86 [0.90]	284513-7	1776135-7
8	26.67 [1.05]	284513-8	1776135-8
9	30.48 [1.20]	284513-9	1776135-9
10	34.29 [1.35]	1-284513-0	1-1776135-0
11	38.10 [1.50]	1-284513-1	1-1776135-1
12	41.91 [1.65]	1-284513-2	1-1776135-2
13	45.72 [1.80]	1-284513-3	—

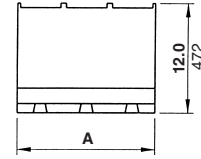
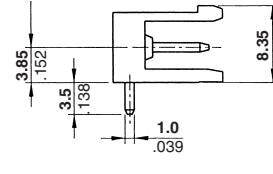
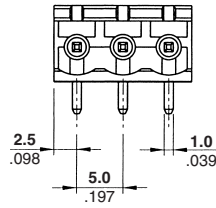
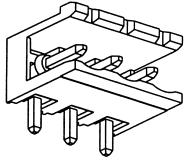
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
14	49.53 [1.95]	1-284513-4	—
15	53.34 [2.10]	1-284513-5	—
16	57.15 [2.25]	1-284513-6	—
17	60.96 [2.40]	1-284513-7	—
18	64.77 [2.55]	1-284513-8	—
19	68.58 [2.70]	1-284513-9	—
20	72.39 [2.85]	2-284513-0	—
21	76.20 [3.00]	2-284513-1	—
22	80.01 [3.15]	2-284513-2	—
23	83.82 [3.30]	2-284513-3	—
24	87.63 [3.45]	2-284513-4	—
25	91.44 [3.60]	2-284513-5	—

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

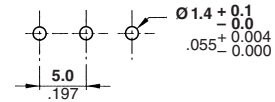
**Two-Piece Terminal Block Connectors (Continued)**

Right-Angle,  
Open End Stacking Headers,  
5.0 mm Centerline  
Color – See chart.

UL Rating – 300 V, 15 A



Recommended PC Board Layout



No. of Pos.	Dim. A	Part Numbers				
		Gray	Green	Blue	Black	Black*
2	10.0 [0.394]	1546210-2	282812-2	796698-2	1546179-2	1776140-2
3	15.0 [0.591]	1546210-3	282812-3	796698-3	1546179-3	1776140-3
4	20.0 [0.787]	1546210-4	282812-4	796698-4	1546179-4	1776140-4
5	25.0 [0.984]	1546210-5	282812-5	796698-5	1546179-5	1776140-5
6	30.0 [1.181]	1546210-6	282812-6	796698-6	1546179-6	1776140-6
7	35.0 [1.378]	1546210-7	282812-7	796698-7	1546179-7	1776140-7
8	40.0 [1.575]	1546210-8	282812-8	796698-8	1546179-8	1776140-8
9	45.0 [1.772]	1546210-9	282812-9	796698-9	1546179-9	1776140-9
10	50.0 [1.968]	1-1546210-0	1-282812-0	1-796698-0	1-1546179-0	1-1776140-0
11	55.0 [2.165]	1-1546210-1	1-282812-1	1-796698-1	1-1546179-1	1-1776140-1
12	60.0 [2.362]	1-1546210-2	1-282812-2	1-796698-2	1-1546179-2	1-1776140-2
13	65.0 [2.559]	1-1546210-3	1-282812-3	1-796698-3	1-1546179-3	—
14	70.0 [2.756]	1-1546210-4	1-282812-4	1-796698-4	1-1546179-4	—
15	75.0 [2.953]	1-1546210-5	1-282812-5	1-796698-5	1-1546179-5	—
16	80.0 [3.150]	1-1546210-6	1-282812-6	1-796698-6	1-1546179-6	—
17	85.0 [3.346]	1-1546210-7	1-282812-7	1-796698-7	1-1546179-7	—
18	90.0 [3.543]	1-1546210-8	1-282812-8	1-796698-8	1-1546179-8	—
19	95.0 [3.740]	1-1546210-9	1-282812-9	1-796698-9	1-1546179-9	—
20	100.0 [3.937]	2-1546210-0	2-282812-0	2-796698-0	2-1546179-0	—
21	105.0 [4.134]	2-1546210-1	2-282812-1	2-796698-1	2-1546179-1	—
22	110.0 [4.331]	2-1546210-2	2-282812-2	2-796698-2	2-1546179-2	—
23	115.0 [4.528]	2-1546210-3	2-282812-3	2-796698-3	2-1546179-3	—
24	120.0 [4.724]	2-1546210-4	2-282812-4	2-796698-4	2-1546179-4	—
25	125.0 [4.921]	2-1546210-5	2-282812-5	2-796698-5	2-1546179-5	—

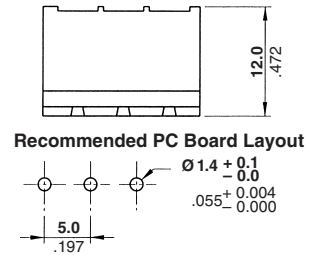
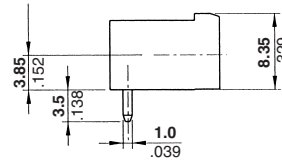
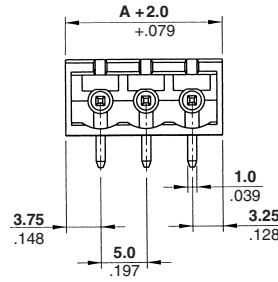
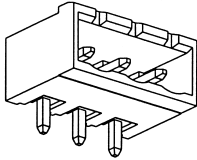
**Note:** BUCHANAN Terminal Block Series B72N4HxxT has been replaced with 796698-xx (blue).  
\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.



**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Right-Angle,  
Closed End Headers,  
5.0 mm Centerline  
Color – See chart.  
UL Rating – 300 V, 15 A**



No. of Pos.	Dim. A	Part Numbers				
		Gray	Green	Blue	Black	Black*
2	10.0 [0.394]	1546209-2	796644-2	796700-2	796645-2	1776148-2
3	15.0 [0.591]	1546209-3	796644-3	796700-3	796645-3	1776148-3
4	20.0 [0.787]	1546209-4	796644-4	796700-4	796645-4	1776148-4
5	25.0 [0.984]	1546209-5	796644-5	796700-5	796645-5	1776148-5
6	30.0 [1.181]	1546209-6	796644-6	796700-6	796645-6	1776148-6
7	35.0 [1.378]	1546209-7	796644-7	796700-7	796645-7	1776148-7
8	40.0 [1.575]	1546209-8	796644-8	796700-8	796645-8	1776148-8
9	45.0 [1.772]	1546209-9	796644-9	796700-9	796645-9	—
10	50.0 [1.968]	1-1546209-0	1-796644-0	1-796700-0	1-796645-0	—
11	55.0 [2.165]	1-1546209-1	1-796644-1	1-796700-1	1-796645-1	—
12	60.0 [2.362]	1-1546209-2	1-796644-2	1-796700-2	1-796645-2	—
13	65.0 [2.559]	1-1546209-3	1-796644-3	1-796700-3	1-796645-3	—
14	70.0 [2.756]	1-1546209-4	1-796644-4	1-796700-4	1-796645-4	—
15	75.0 [2.953]	1-1546209-5	1-796644-5	1-796700-5	1-796645-5	—
16	80.0 [3.150]	1-1546209-6	1-796644-6	1-796700-6	1-796645-6	—
17	85.0 [3.346]	1-1546209-7	1-796644-7	1-796700-7	1-796645-7	—
18	90.0 [3.543]	1-1546209-8	1-796644-8	1-796700-8	1-796645-8	—
19	95.0 [3.740]	1-1546209-9	1-796644-9	1-796700-9	1-796645-9	—
20	100.0 [3.937]	2-1546209-0	2-796644-0	2-796700-0	2-796645-0	—
21	105.0 [4.134]	2-1546209-1	2-796644-1	2-796700-1	2-796645-1	—
22	110.0 [4.331]	2-1546209-2	2-796644-2	2-796700-2	2-796645-2	—
23	115.0 [4.528]	2-1546209-3	2-796644-3	2-796700-3	2-796645-3	—
24	120.0 [4.724]	2-1546209-4	2-796644-4	2-796700-4	2-796645-4	—
25	125.0 [4.921]	2-1546209-5	2-796644-5	2-796700-5	2-796645-5	—

**Note:** RDI Terminal Block Series 2EHDR-xx has been replaced with 796644-xx (green) and 796645-xx (black). BUCHANAN Terminal Block Series B73N4HxxT has been replaced with 796700-xx (blue) and 796645-xx (black).

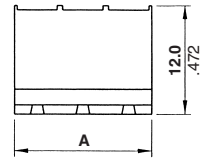
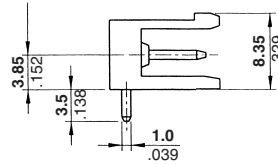
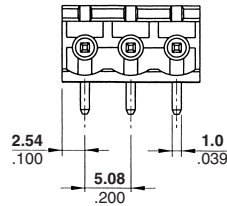
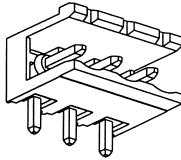
\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

**Note:** All part numbers are RoHS Compliant.

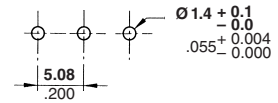
**Two-Piece Terminal Block Connectors (Continued)**

**Right-Angle, Open End Stacking Headers, 5.08 mm Centerline Color – See chart.**

**UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**



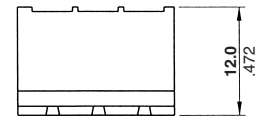
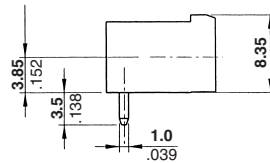
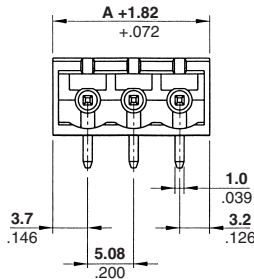
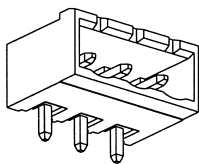
No. of Positions	Dim. A	Part Numbers		
		Green	Gray	Black*
2	10.16 [0.40]	282815-2	1546110-2	1776141-2
3	15.24 [0.60]	282815-3	1546110-3	1776141-3
4	20.32 [0.80]	282815-4	1546110-4	1776141-4
5	25.40 [1.00]	282815-5	1546110-5	1776141-5
6	30.48 [1.20]	282815-6	1546110-6	1776141-6
7	35.56 [1.40]	282815-7	1546110-7	1776141-7
8	40.64 [1.60]	282815-8	1546110-8	1776141-8
9	45.72 [1.80]	282815-9	1546110-9	—
10	50.80 [2.00]	1-282815-0	1-1546110-0	—
11	55.88 [2.20]	1-282815-1	1-1546110-1	—
12	60.96 [2.40]	1-282815-2	1-1546110-2	—
13	66.04 [2.60]	1-282815-3	1-1546110-3	—

No. of Positions	Dim. A	Part Numbers		
		Green	Gray	Black*
14	71.12 [2.80]	1-282815-4	1-1546110-4	—
15	76.20 [3.00]	1-282815-5	1-1546110-5	—
16	81.28 [3.20]	1-282815-6	1-1546110-6	—
17	86.36 [3.40]	1-282815-7	1-1546110-7	—
18	91.44 [3.60]	1-282815-8	1-1546110-8	—
19	96.52 [3.80]	1-282815-9	1-1546110-9	—
20	101.60 [4.00]	2-282815-0	2-1546110-0	—
21	106.68 [4.20]	2-282815-1	2-1546110-1	—
22	111.76 [4.40]	2-282815-2	2-1546110-2	—
23	116.84 [4.60]	2-282815-3	2-1546110-3	—
24	121.92 [4.80]	2-282815-4	2-1546110-4	—
25	127.00 [5.00]	2-282815-5	2-1546110-5	—

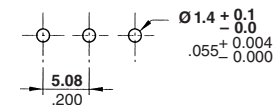
\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

**Right-Angle, Closed End Headers, 5.08 mm Centerline Color – See chart.**

**UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**



No. of Pos.	Dim. A	Part Numbers			
		Gray	Green	Black	Black*
2	10.16 [0.40]	1546109-2	796638-2	796639-2	1776038-2
3	15.24 [0.60]	1546109-3	796638-3	796639-3	1776038-3
4	20.32 [0.80]	1546109-4	796638-4	796639-4	1776038-4
5	25.40 [1.00]	1546109-5	796638-5	796639-5	1776038-5
6	30.48 [1.20]	1546109-6	796638-6	796639-6	1776038-6
7	35.56 [1.40]	1546109-7	796638-7	796639-7	1776038-7
8	40.64 [1.60]	1546109-8	796638-8	796639-8	1776038-8
9	45.72 [1.80]	1546109-9	796638-9	796639-9	—
10	50.80 [2.00]	1-1546109-0	1-796638-0	1-796639-0	—
11	55.88 [2.20]	1-1546109-1	1-796638-1	1-796639-1	—
12	60.96 [2.40]	1-1546109-2	1-796638-2	1-796639-2	—
13	66.04 [2.60]	1-1546109-3	1-796638-3	1-796639-3	—

No. of Positions	Dim. A	Part Numbers		
		Gray	Green	Black
14	71.12 [2.80]	1-1546109-4	1-796638-4	1-796639-4
15	76.20 [3.00]	1-1546109-5	1-796638-5	1-796639-5
16	81.28 [3.20]	1-1546109-6	1-796638-6	1-796639-6
17	86.36 [3.40]	1-1546109-7	1-796638-7	1-796639-7
18	91.44 [3.60]	1-1546109-8	1-796638-8	1-796639-8
19	96.52 [3.80]	1-1546109-9	1-796638-9	1-796639-9
20	101.60 [4.00]	2-1546109-0	2-796638-0	2-796639-0
21	106.68 [4.20]	2-1546109-1	2-796638-1	2-796639-1
22	111.76 [4.40]	2-1546109-2	2-796638-2	2-796639-2
23	116.84 [4.60]	2-1546109-3	2-796638-3	2-796639-3
24	121.92 [4.80]	2-1546109-4	2-796638-4	2-796639-4
25	127.00 [5.00]	2-1546109-5	2-796638-5	2-796639-5

**Note:** RDI Terminal Block Series 2EHDR-xx has been superceded/replaced with 796638-xx (green) and 796639-xx (black).

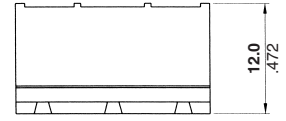
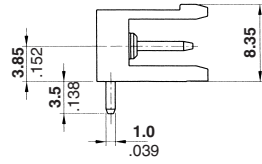
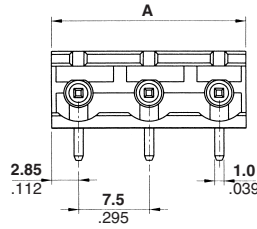
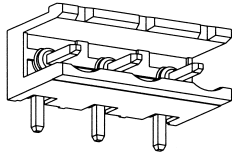
\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.



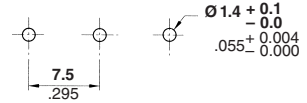
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Right-Angle, Open End Headers, 7.5 mm Centerline Color – Green UL Rating – 300 V, 15 A**



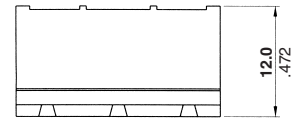
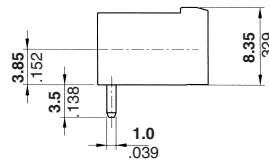
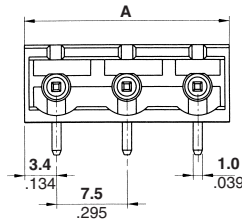
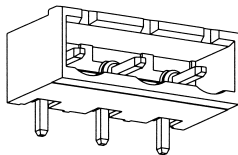
**Recommended PC Board Layout**



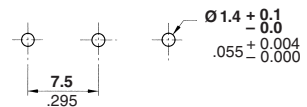
No. of Positions	Dim. A	Part Numbers
2	13.2 [0.520]	282961-2
3	20.7 [0.815]	282961-3
4	28.2 [1.110]	282961-4
5	35.7 [1.406]	282961-5
6	43.2 [1.701]	282961-6
7	50.7 [1.996]	282961-7

No. of Positions	Dim. A	Part Numbers
8	58.2 [2.291]	282961-8
9	65.7 [2.587]	282961-9
10	73.2 [2.882]	1-282961-0
11	80.7 [3.177]	1-282961-1
12	88.2 [3.472]	1-282961-2

**Right-Angle, Closed End Headers, 7.5 mm Centerline Color – Green UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**



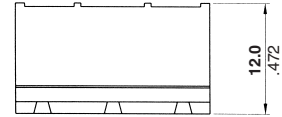
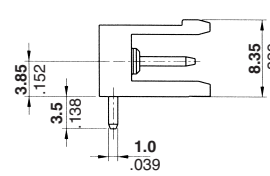
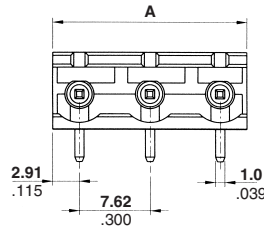
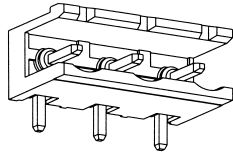
No. of Positions	Dim. A	Part Numbers
2	14.3 [0.563]	282962-2
3	21.8 [0.858]	282962-3
4	29.3 [1.154]	282962-4
5	36.8 [1.449]	282962-5
6	44.3 [1.744]	282962-6
7	51.8 [2.039]	282962-7

No. of Positions	Dim. A	Part Numbers
8	59.3 [2.335]	282962-8
9	66.8 [2.630]	282962-9
10	74.3 [2.925]	1-282962-0
11	81.8 [3.220]	1-282962-1
12	89.3 [3.516]	1-282962-2

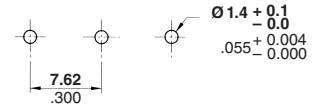
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Right-Angle, Open End Headers, 7.62 mm Centerline**  
**UL Rating – 300 V, 15 A**



Recommended PC Board Layout

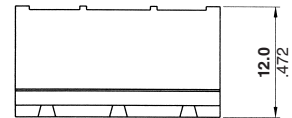
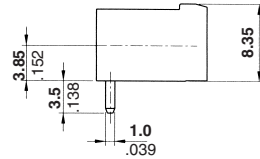
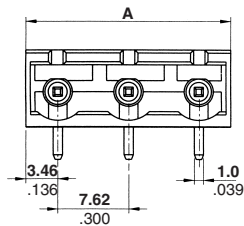
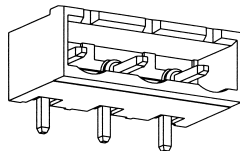


No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	13.44 [0.529]	282965-2	1776152-2
3	21.06 [0.829]	282965-3	1776152-3
4	28.68 [1.129]	282965-4	—
5	36.30 [1.429]	282965-5	—
6	43.92 [1.729]	282965-6	—
7	51.54 [2.029]	282965-7	—

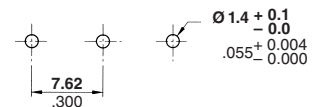
\*Wave solder process capable to 265°C [509°F] for 10 seconds  
Dimensions may vary from what is shown for High Temperature Parts.  
Please check Customer Drawing.

No. of Positions	Dim. A	Part Numbers	
		Green	Black*
8	59.16 [2.329]	282965-8	—
9	66.78 [2.629]	282965-9	—
10	74.40 [2.929]	1-282965-0	—
11	82.02 [3.229]	1-282965-1	—
12	89.64 [3.529]	1-282965-2	—

**Right-Angle, Closed End Headers, 7.62 mm Centerline**  
**UL Rating – 300 V, 15 A**



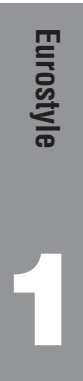
Recommended PC Board Layout



No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	14.44 [0.568]	282966-2	1776155-2
3	22.06 [0.868]	282966-3	1776155-3
4	29.68 [1.168]	282966-4	1776155-4
5	37.30 [1.468]	282966-5	1776155-5
6	44.92 [1.768]	282966-6	1776155-6
7	52.54 [2.068]	282966-7	1776155-7

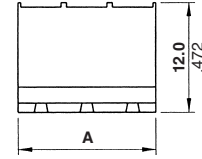
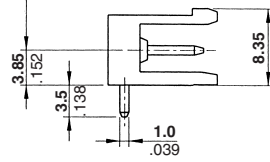
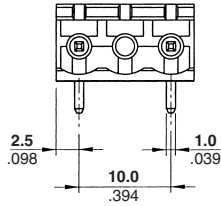
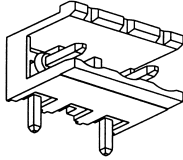
\*Wave solder process capable to 265°C [509°F] for 10 seconds  
Dimensions may vary from what is shown for High Temperature Parts.  
Please check Customer Drawing.

No. of Positions	Dim. A	Part Numbers	
		Green	Black*
8	60.16 [2.368]	282966-8	1776155-8
9	67.78 [2.668]	282966-9	1776155-9
10	75.40 [2.968]	1-282966-0	1-1776155-0
11	83.02 [3.268]	1-282966-1	1-1776155-1
12	90.64 [3.568]	1-282966-2	1-1776155-2

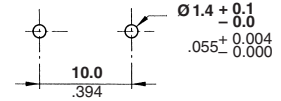


**Two-Piece Terminal Block Connectors (Continued)**

**Right-Angle,  
Open End Headers,  
10.0 mm Centerline  
UL Rating – 600 V, 15 A**



**Recommended PC Board Layout**

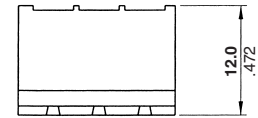
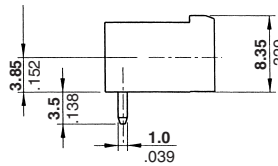
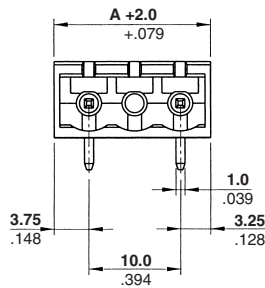
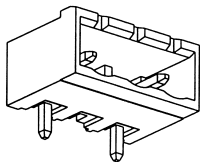


No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	15.0 [0.591]	282817-2	1776158-2
3	25.0 [0.984]	282817-3	1776158-3
4	35.0 [1.378]	282817-4	1776158-4
5	45.0 [1.772]	282817-5	—
6	55.0 [2.165]	282817-6	—
7	65.0 [2.559]	282817-7	—

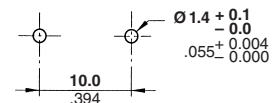
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
8	75.0 [2.953]	282817-8	—
9	85.0 [3.346]	282817-9	—
10	95.0 [3.740]	1-282817-0	—
11	105.0 [4.134]	1-282817-1	—
12	115.0 [4.528]	1-282817-2	—
13	125.0 [4.921]	1-282817-3	—

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

**Right-Angle,  
Closed End Headers,  
10.0 mm Centerline  
UL Rating – 600 V, 15 A**



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	15.0 [0.591]	282816-2	1776162-2
3	25.0 [0.984]	282816-3	1776162-3
4	35.0 [1.378]	282816-4	1776162-4
5	45.0 [1.772]	282816-5	—
6	55.0 [2.165]	282816-6	—
7	65.0 [2.559]	282816-7	—

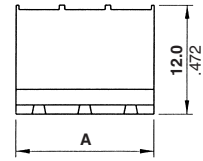
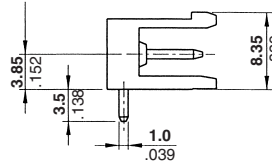
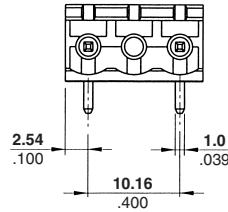
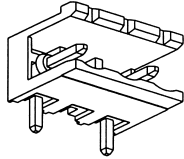
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
8	75.0 [2.953]	282816-8	—
9	85.0 [3.346]	282816-9	—
10	95.0 [3.740]	1-282816-0	—
11	105.0 [4.134]	1-282816-1	—
12	115.0 [4.528]	1-282816-2	—
13	125.0 [4.921]	1-282816-3	—

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

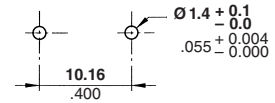
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Right-Angle, Open End Headers, 10.16 mm Centerline**  
**UL Rating – 600 V, 15 A**



**Recommended PC Board Layout**

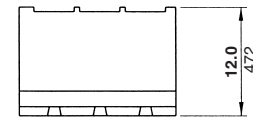
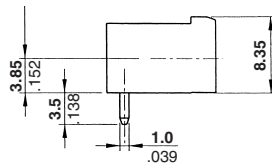
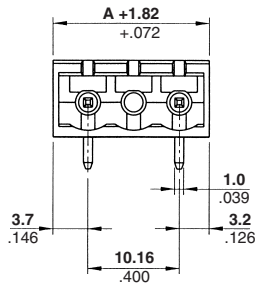
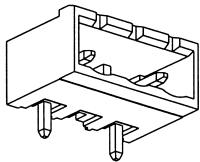


No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	15.24 [0.60]	282819-2	1776159-2
3	25.40 [1.00]	282819-3	1776159-3
4	35.56 [1.40]	282819-4	1776159-4
5	45.72 [1.80]	282819-5	—
6	55.88 [2.20]	282819-6	—
7	66.04 [2.60]	282819-7	—

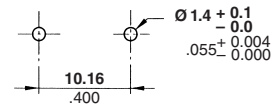
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
8	76.20 [3.00]	282819-8	—
9	86.36 [3.40]	282819-9	—
10	96.52 [3.80]	1-282819-0	—
11	106.68 [4.20]	1-282819-1	—
12	116.84 [4.60]	1-282819-2	—
13	127.00 [5.00]	1-282819-3	—

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

**Right-Angle, Closed End Headers, 10.16 mm Centerline**  
**UL Rating – 600 V, 15 A**



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	15.24 [0.60]	282818-2	1776163-2
3	25.40 [1.00]	282818-3	1776163-3
4	35.56 [1.40]	282818-4	1776163-4
5	45.72 [1.80]	282818-5	—
6	55.88 [2.20]	282818-6	—
7	66.04 [2.60]	282818-7	—

No. of Positions	Dim. A	Part Numbers	
		Green	Black*
8	76.20 [3.00]	282818-8	—
9	86.36 [3.40]	282818-9	—
10	96.52 [3.80]	1-282818-0	—
11	106.68 [4.20]	1-282818-1	—
12	116.84 [4.60]	1-282818-2	—
13	127.00 [5.00]	1-282818-3	—

\*Wave solder process capable to 265°C [509°F] for 10 seconds. Dimensions may vary from what is shown for High Temperature Parts. Please check Customer Drawing.

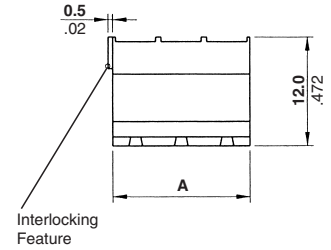
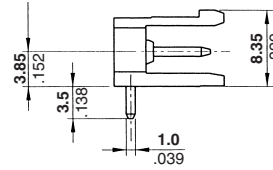
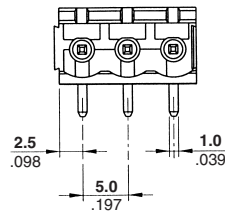
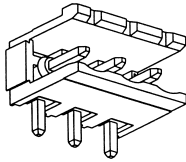




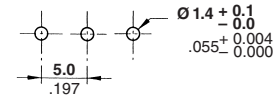
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Right-Angle,  
Open End Stacking Headers  
with Interlock,  
5.0 mm Centerline  
UL Rating – 300 V, 15 A**



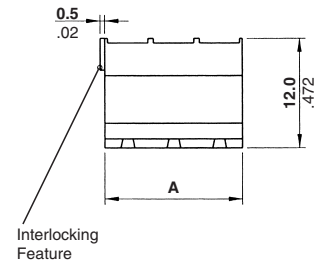
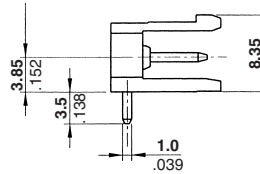
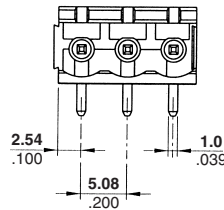
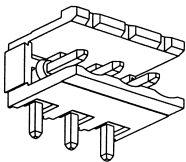
**Recommended PC Board Layout**



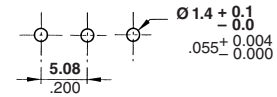
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	10.0 [.394]	282811-2	1776144-2
3	15.0 [.591]	282811-3	1776144-3
4	20.0 [.787]	282811-4	1776144-4

\*Wave solder process capable to 265°C [509°F] for 10 seconds  
Dimensions may vary from what is shown for High Temperature Parts.  
Please check Customer Drawing.

**Right-Angle,  
Open End Stacking Headers  
with Interlock,  
5.08 mm Centerline  
UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**



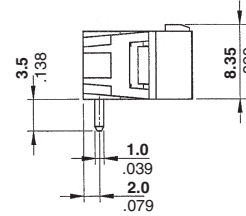
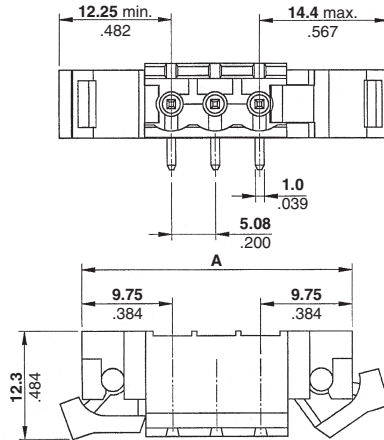
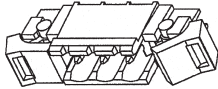
No. of Positions	Dim. A	Part Numbers	
		Green	Black*
2	10.16 [.400]	282814-2	1776145-2
3	15.24 [.600]	282814-3	1776145-3
4	20.32 [.800]	282814-4	1776145-4

\*Wave solder process capable to 265°C [509°F] for 10 seconds  
Dimensions may vary from what is shown for High Temperature Parts.  
Please check Customer Drawing.

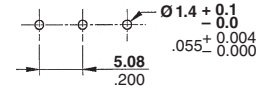
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Right-Angle,  
Closed End Headers,  
w/Ejectors,  
5.08 mm Centerline  
Color – Green**  
**UL Rating – 300 V, 15 A**



**Recommended PC Board Layout**



No. of Positions	Dim. A	Part Numbers
2	<b>24.58</b> [.968]	284008-2
3	<b>29.66</b> [1.168]	284008-3
4	<b>34.74</b> [1.368]	284008-4
5	<b>39.82</b> [1.568]	284008-5
6	<b>44.90</b> [1.768]	284008-6
7	<b>49.98</b> [1.968]	284008-7
8	<b>55.06</b> [2.168]	284008-8
9	<b>60.14</b> [2.368]	284008-9
10	<b>65.22</b> [2.568]	1-284008-0
11	<b>70.30</b> [2.768]	1-284008-1

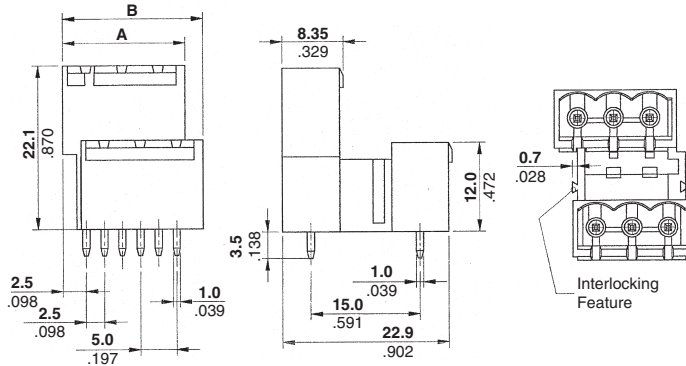
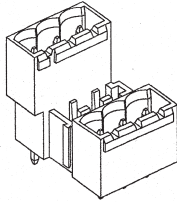
No. of Positions	Dim. A	Part Numbers
12	<b>75.38</b> [2.968]	1-284008-2
13	<b>80.46</b> [3.168]	1-284008-3
14	<b>85.54</b> [3.368]	1-284008-4
15	<b>90.62</b> [3.568]	1-284008-5
16	<b>95.70</b> [3.768]	1-284008-6
17	<b>100.78</b> [3.968]	1-284008-7
18	<b>105.86</b> [4.168]	1-284008-8
19	<b>110.94</b> [4.368]	1-284008-9
20	<b>116.02</b> [4.568]	2-284008-0
21	<b>121.10</b> [4.768]	2-284008-1



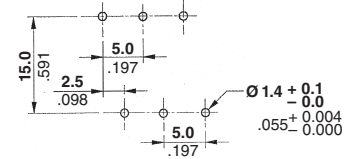
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Vertical, Closed End Double-Row Header**  
**5.0 mm Centerline**  
**Color – See chart.**  
**UL Rating – 300 V, 12 A**



**Recommended PC Board Layout**

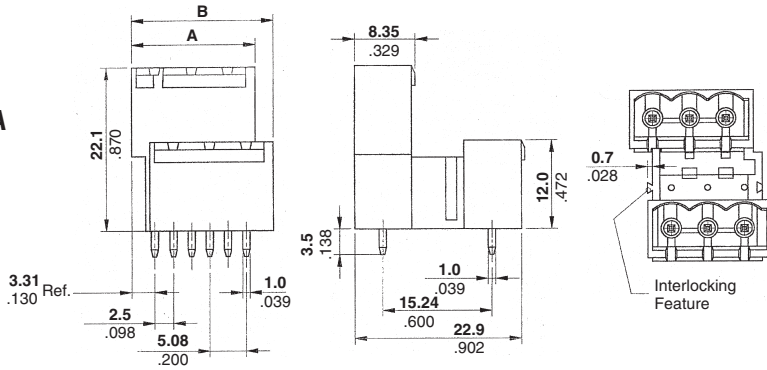
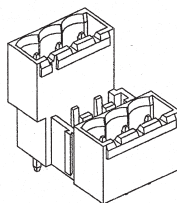


No. of Positions	Dimensions		Part Numbers		
	A	B	Green	Gray	Black*
2	12.0 [0.472]	14.5 [0.571]	284056-2	1546106-2	1776164-2
3	17.0 [0.669]	19.5 [0.768]	284056-3	1546106-3	1776164-3
4	22.0 [0.866]	24.5 [0.965]	284056-4	1546106-4	1776164-4
5	27.0 [1.063]	29.5 [1.161]	284056-5	1546106-5	1776164-5
6	32.0 [1.260]	34.5 [1.358]	284056-6	1546106-6	1776164-6
7	37.0 [1.457]	39.5 [1.555]	284056-7	1546106-7	1776164-7
8	42.0 [1.654]	44.5 [1.752]	284056-8	1546106-8	1776164-8
9	47.0 [1.850]	49.5 [1.949]	284056-9	1546106-9	—
10	52.0 [2.047]	54.5 [2.146]	284056-10	1-1546106-0	—
11	57.0 [2.244]	59.5 [2.343]	284056-11	1-1546106-1	—
12	62.0 [2.441]	64.5 [2.539]	284056-12	1-1546106-2	—
13	67.0 [2.638]	69.5 [2.736]	284056-13	1-1546106-3	—

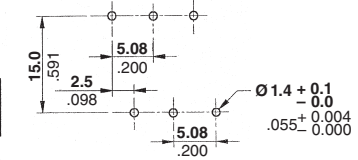
\*Wave solder process capable to 265°C [509°F] for 10 seconds

No. of Positions	Dimensions		Part Numbers		
	A	B	Green	Gray	Black*
14	72.0 [2.835]	74.5 [2.933]	284056-14	1-1546106-4	—
15	77.0 [3.031]	79.5 [3.130]	284056-15	1-1546106-5	—
16	82.0 [3.228]	84.5 [3.327]	284056-16	1-1546106-6	—
17	87.0 [3.425]	89.5 [3.524]	284056-17	1-1546106-7	—
18	92.0 [3.622]	94.5 [3.720]	284056-18	1-1546106-8	—
19	97.0 [3.819]	99.5 [3.917]	284056-19	1-1546106-9	—
20	102.0 [4.016]	104.5 [4.114]	284056-20	2-1546106-0	—
21	107.0 [4.213]	109.5 [4.311]	284056-21	2-1546106-1	—
22	112.0 [4.409]	114.5 [4.508]	284056-22	2-1546106-2	—
23	117.0 [4.606]	119.5 [4.705]	284056-23	2-1546106-3	—
24	122.0 [4.803]	124.5 [4.902]	284056-24	2-1546106-4	—
25	127.0 [5.000]	129.5 [5.098]	284056-25	2-1546106-5	—

**Vertical, Closed End Double-Row Header**  
**5.08 mm Centerline**  
**UL Rating – 300 V, 12 A**



**Recommended PC Board Layout**



No. of Positions	Dim.		Part Numbers	
	A	B	Green	Black*
2	12.20 [0.48]	14.74 [0.58]	284065-2	1776165-2
3	17.28 [0.68]	19.82 [0.78]	284065-3	1776165-3
4	22.36 [0.88]	24.90 [0.98]	284065-4	1776165-4
5	27.44 [1.08]	29.98 [1.18]	284065-5	1776165-5
6	32.52 [1.28]	35.06 [1.38]	284065-6	1776165-6
7	37.60 [1.48]	40.14 [1.58]	284065-7	1776165-7
8	42.68 [1.68]	45.22 [1.78]	284065-8	1776165-8
9	47.76 [1.88]	50.30 [1.98]	284065-9	—
10	52.84 [2.08]	55.38 [2.18]	1-284065-0	—
11	57.92 [2.28]	60.46 [2.68]	1-284065-1	—
12	63.00 [2.48]	65.54 [2.58]	1-284065-2	—
13	68.08 [2.68]	70.62 [2.78]	1-284065-3	—

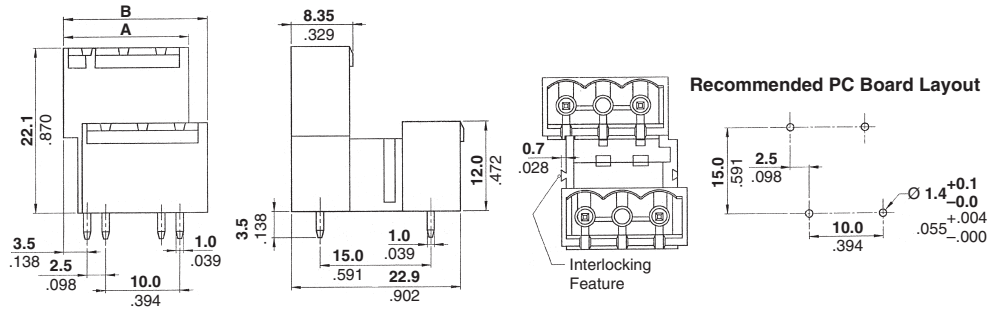
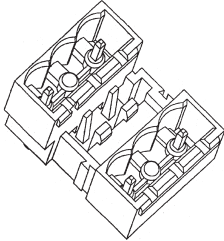
\*Wave solder process capable to 265°C [509°F] for 10 seconds

No. of Positions	Dim.		Part Numbers	
	A	B	Green	Black*
14	72.0 [2.835]	74.5 [2.933]	1-284065-4	—
15	77.0 [3.031]	79.5 [3.130]	1-284065-5	—
16	82.0 [3.228]	84.5 [3.327]	1-284065-6	—
17	87.0 [3.425]	89.5 [3.524]	1-284065-7	—
18	92.0 [3.622]	94.5 [3.720]	1-284065-8	—
19	97.0 [3.819]	99.5 [3.917]	1-284065-9	—
20	102.0 [4.016]	104.5 [4.114]	2-284065-0	—
21	107.0 [4.213]	109.5 [4.311]	2-284065-1	—
22	112.0 [4.409]	114.5 [4.508]	2-284065-2	—
23	117.0 [4.606]	119.5 [4.705]	2-284065-3	—
24	122.0 [4.803]	124.5 [4.902]	2-284065-4	—
25	127.0 [5.000]	129.5 [5.098]	2-284065-5	—

**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

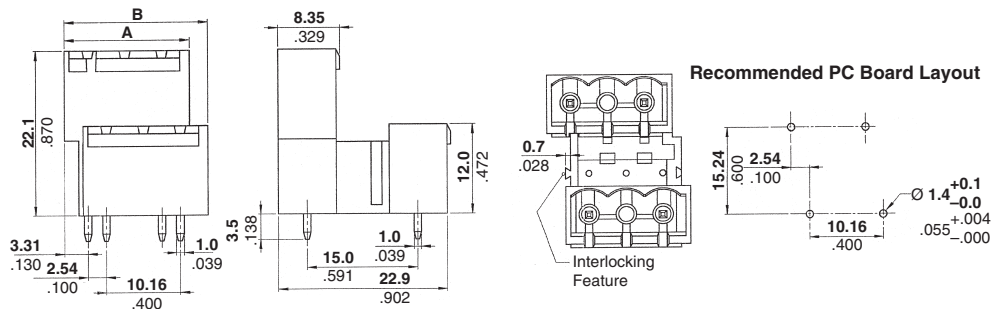
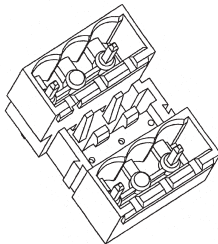
**Vertical, Closed End  
Double-Row Header  
10.0 mm Centerline  
Color – Black  
UL Rating – 600 V, 12 A**



No. of Positions	Dim.		Part Numbers*
	A	B	
2	17.0 [0.669]	19.5 [0.768]	1776168-2
3	27.0 [1.063]	29.5 [1.161]	1776168-3
4	37.0 [1.457]	39.5 [1.555]	1776168-4

\*Wave solder process capable to 265°C [509°F] for 10 seconds

**Vertical, Closed End  
Double-Row Header  
10.16 mm Centerline  
Color – Black  
UL Rating – 600 V, 12 A**



No. of Positions	Dim.		Part Numbers*
	A	B	
2	17.28 [0.68]	19.82 [0.78]	1776169-2
3	27.44 [1.08]	29.98 [1.18]	1776169-3
4	37.60 [1.48]	40.14 [1.58]	1776169-4

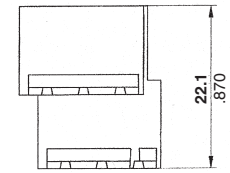
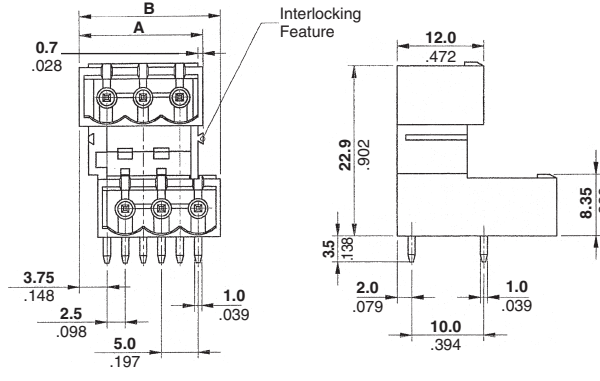
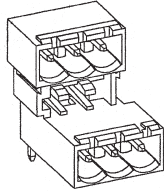
\*Wave solder process capable to 265°C [509°F] for 10 seconds



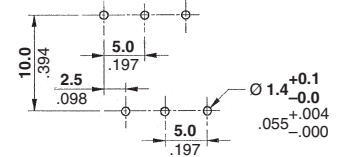
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Right-Angle, Closed End Double-Row Header w/Interlock, 5.0 mm Centerline Color – Black**  
**UL Rating – 300 V, 12 A**



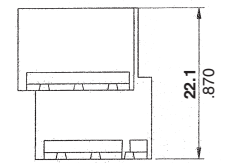
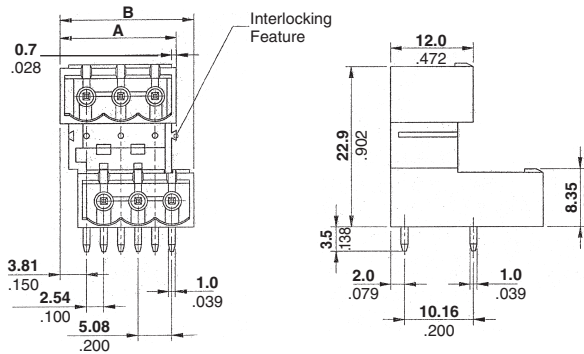
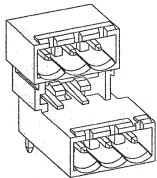
**Recommended PC Board Layout**



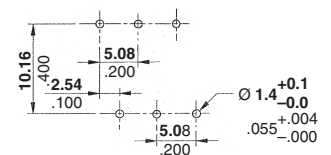
No. of Positions	Dim.		Part Numbers*
	A	B	
2	12.0 [0.472]	14.5 [0.571]	1776166-2
3	17.0 [0.669]	19.5 [0.768]	1776166-3
4	22.0 [0.866]	24.5 [0.965]	1776166-4
5	27.0 [1.063]	29.5 [1.161]	1776166-5
6	32.0 [1.260]	34.5 [1.358]	1776166-6
7	37.0 [1.457]	39.5 [1.555]	1776166-7
8	42.0 [1.654]	44.5 [1.752]	1776166-8

\*Wave solder process capable to 265°C [509°F] for 10 seconds

**Right-Angle, Closed End Double-Row Header w/Interlock, 5.08 mm Centerline**  
**UL Rating – 300 V, 12 A**



**Recommended PC Board Layout**



No. of Positions	Dim.		Part Numbers	
	A	B	Green	Black*
2	12.20 [0.48]	14.74 [0.58]	284061-2	1776167-2
3	17.28 [0.68]	19.82 [0.78]	284061-3	1776167-3
4	22.36 [0.88]	24.90 [0.98]	284061-4	1776167-4
5	27.44 [1.08]	29.98 [1.18]	284061-5	1776167-5
6	32.52 [1.28]	35.06 [1.38]	284061-6	1776167-6
7	37.60 [1.48]	40.14 [1.58]	284061-7	1776167-7
8	42.68 [1.68]	45.22 [1.78]	284061-8	1776167-8
9	47.76 [1.88]	50.30 [1.98]	284061-9	—
10	52.84 [2.08]	55.38 [2.18]	1-284061-0	—
11	57.92 [2.28]	60.46 [2.68]	1-284061-1	—
12	63.00 [2.48]	65.54 [2.58]	1-284061-2	—
13	68.08 [2.68]	70.62 [2.78]	1-284061-3	—

\*Wave solder process capable to 265°C [509°F] for 10 seconds

No. of Positions	Dim.		Part Numbers	
	A	B	Green	Black*
14	73.16 [2.88]	75.70 [2.98]	1-284061-4	—
15	78.24 [3.08]	80.78 [3.18]	1-284061-5	—
16	83.32 [3.28]	85.86 [3.38]	1-284061-6	—
17	88.40 [3.48]	90.94 [3.58]	1-284061-7	—
18	93.48 [3.68]	96.02 [3.78]	1-284061-8	—
19	98.56 [3.88]	101.10 [3.98]	1-284061-9	—
20	103.64 [4.08]	106.18 [4.18]	2-284061-0	—
21	108.72 [4.48]	111.26 [4.38]	2-284061-1	—
22	113.80 [4.88]	116.34 [4.58]	2-284061-2	—
23	118.88 [4.68]	121.42 [4.78]	2-284061-3	—
24	123.96 [4.88]	126.50 [4.98]	2-284061-4	—
25	129.04 [5.08]	131.58 [5.18]	2-284061-5	—

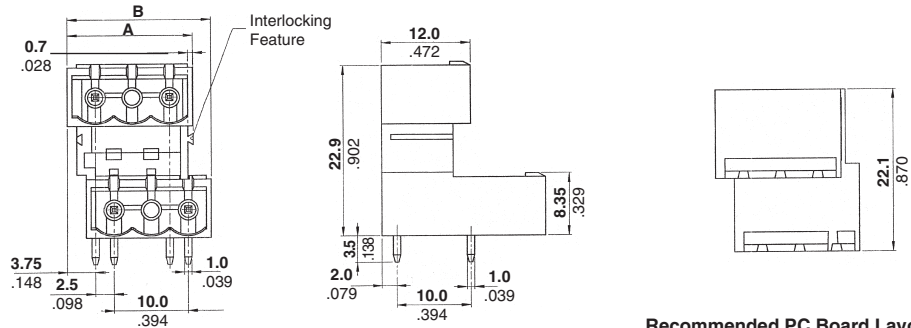
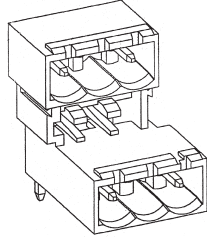




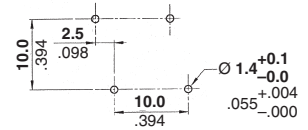
**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Right-Angle, Closed End Double-Row Header w/Interlock, 10.0 mm Centerline Color – Black**  
**UL Rating – 600 V, 12 A**



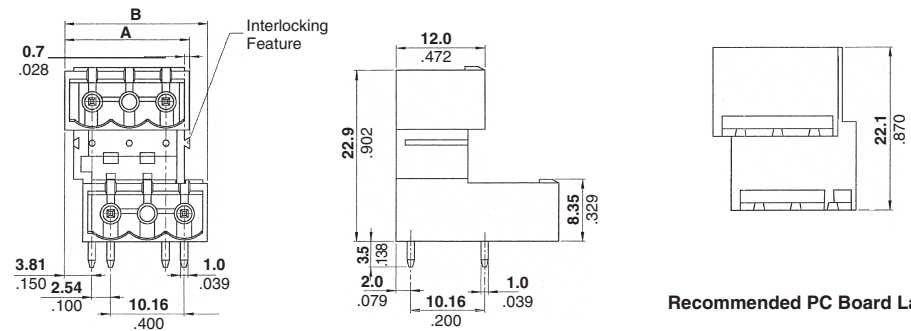
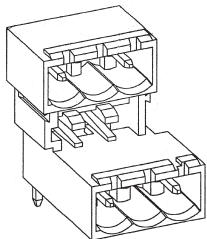
**Recommended PC Board Layout**



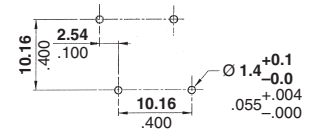
No. of Positions	Dim.		Part Numbers*
	A	B	
2	17.0 [0.669]	19.5 [0.768]	1776170-2
3	27.0 [1.063]	29.5 [1.161]	1776170-3
4	37.0 [1.457]	39.5 [1.555]	1776170-4

\*Wave solder process capable to 265°C [509°F] for 10 seconds

**Right-Angle, Closed End Double-Row Header w/Interlock, 10.16 mm Centerline Color – Black**  
**UL Rating – 600 V, 12 A**



**Recommended PC Board Layout**

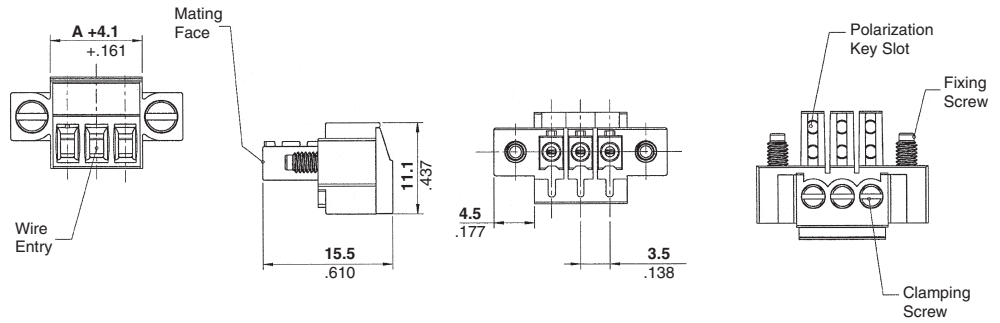
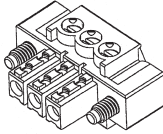


No. of Positions	Dim.		Part Numbers*
	A	B	
2	17.28 [0.68]	19.82 [0.78]	1776171-2
3	27.44 [1.08]	29.98 [1.18]	1776171-3
4	37.60 [1.48]	40.14 [1.58]	1776171-4

\*Wave solder process capable to 265°C [509°F] for 10 seconds

**Two-Piece Terminal Block Connectors (Continued)**

**Plug, Right-Angle w/Screw Flange**  
**3.5 mm Centerline**  
**Color – Green**  
**UL Rating – 300 V, 11 A**  
**14-30 AWG**

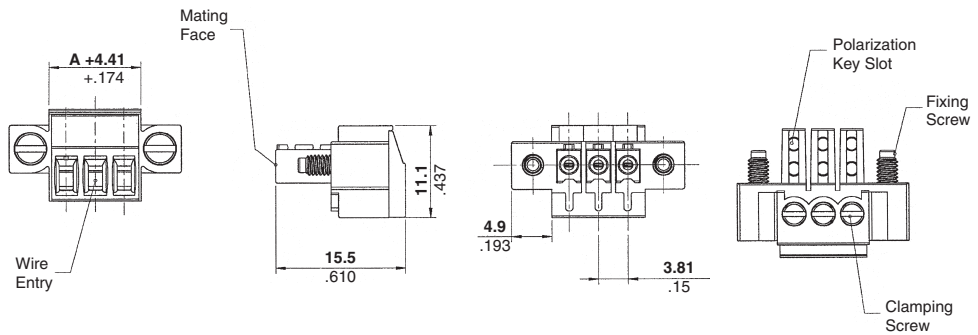
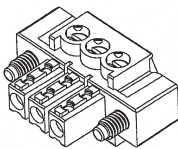


**Suggested Screw Torque—**  
2.7 in.-lb.

No. of Positions	Dim. A	Part Numbers
2	3.5 [0.138]	284510-2
3	7.0 [0.276]	284510-3
4	10.5 [0.413]	284510-4
5	14.0 [0.551]	284510-5
6	17.5 [0.689]	284510-6
7	21.0 [0.827]	284510-7
8	24.5 [0.965]	284510-8
9	28.0 [1.102]	284510-9
10	31.5 [1.240]	1-284510-0
11	35.0 [1.378]	1-284510-1
12	38.5 [1.516]	1-284510-2

No. of Positions	Dim. A	Part Numbers
13	42.0 [1.654]	1-284510-3
14	45.5 [1.791]	1-284510-4
15	49.0 [1.929]	1-284510-5
16	52.5 [2.067]	1-284510-6
17	56.0 [2.205]	1-284510-7
18	59.5 [2.343]	1-284510-8
19	63.0 [2.480]	1-284510-9
20	66.5 [2.618]	2-284510-0
21	70.0 [2.756]	2-284510-1
22	73.5 [2.894]	2-284510-2
23	77.0 [3.031]	2-284510-3

**Plug, Right-Angle w/Screw Flange**  
**3.81 mm Centerline**  
**Color – Green**  
**UL Rating – 300 V, 11 A**  
**14-30 AWG**



**Suggested Screw Torque—**  
2.7 in.-lb.

No. of Positions	Dim. A	Part Numbers
2	3.81 [0.15]	284511-2
3	7.62 [0.30]	284511-3
4	11.43 [0.45]	284511-4
5	15.24 [0.60]	284511-5
6	19.05 [0.75]	284511-6
7	22.86 [0.90]	284511-7
8	26.67 [1.05]	284511-8
9	30.48 [1.20]	284511-9
10	34.29 [1.35]	1-284511-0
11	38.10 [1.50]	1-284511-1
12	41.91 [1.65]	1-284511-2

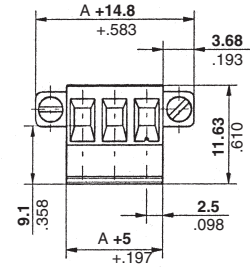
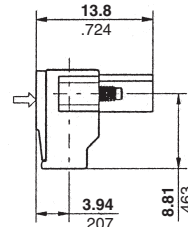
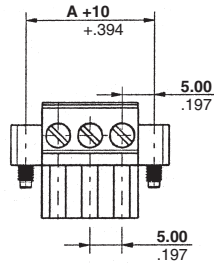
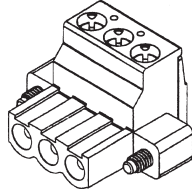
No. of Positions	Dim. A	Part Numbers
13	45.72 [1.80]	1-284511-3
14	49.53 [1.95]	1-284511-4
15	53.34 [2.10]	1-284511-5
16	57.15 [2.25]	1-284511-6
17	60.96 [2.40]	1-284511-7
18	64.77 [2.55]	1-284511-8
19	68.58 [2.70]	1-284511-9
20	72.39 [2.85]	2-284511-0
21	76.20 [3.00]	2-284511-1
22	80.01 [3.15]	2-284511-2
23	83.82 [3.30]	2-284511-3

**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Plug, Right-Angle w/Locking Screw Flange, 5.0 mm Centerline Color – Green**

**UL Rating – 300 V, 15 A 12-30 AWG**

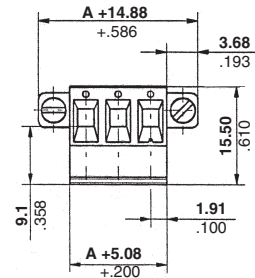
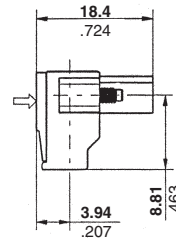
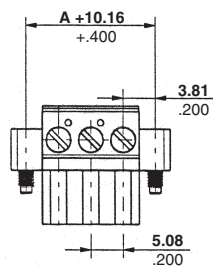
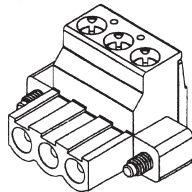


**Suggested Screw Torque—**  
7.0 in.-lb.

No. of Positions	Dim. A	Part Numbers
2	5.0 [0.197]	796858-2
3	10.0 [0.394]	796858-3
4	15.0 [0.591]	796858-4
5	20.0 [0.787]	796858-5
6	25.0 [0.984]	796858-6
7	30.0 [1.181]	796858-7
8	35.0 [1.378]	796858-8

**Plug, Right-Angle w/Locking Screw Flange, 5.08 mm Centerline Color – Green**

**UL Rating – 300 V, 15 A 12-30 AWG**



**Suggested Screw Torque—**  
7.0 in.-lb.

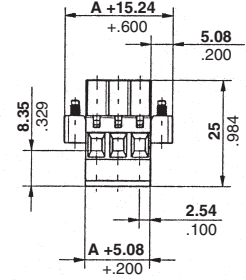
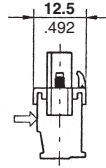
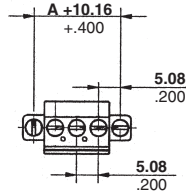
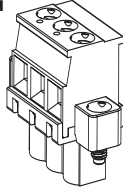
No. of Positions	Dim. A	Part Numbers
2	5.08 [0.20]	796859-2
3	10.16 [0.40]	796859-3
4	15.24 [0.60]	796859-4
5	20.32 [0.80]	796859-5
6	25.40 [1.00]	796859-6
7	30.48 [1.20]	796859-7
8	35.56 [1.40]	796859-8
9	40.64 [1.60]	796859-9
10	45.72 [1.80]	1-796859-0
11	50.80 [2.00]	1-796859-1
12	55.88 [2.20]	1-796859-2

No. of Positions	Dim. A	Part Numbers
13	60.96 [2.40]	1-796859-3
14	66.04 [2.60]	1-796859-4
15	71.12 [2.80]	1-796859-5
16	76.20 [3.00]	1-796859-6
17	81.28 [3.20]	1-796859-7
18	86.36 [3.40]	1-796859-8
19	91.44 [3.60]	1-796859-9
20	96.52 [3.80]	2-796859-0
21	101.60 [4.00]	2-796859-1
22	106.68 [4.20]	2-796859-2
23	111.76 [4.40]	2-796859-3

**Two-Piece Terminal Block Connectors (Continued)**

**Plug (Left-Hand Version),  
Straight w/Locking Screw  
Flange,  
5.08 mm Centerline  
Color – Green**

**UL Rating – 300 V, 15 A  
12-30 AWG**



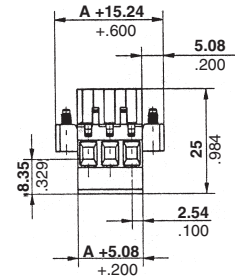
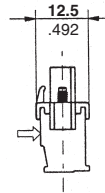
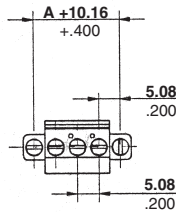
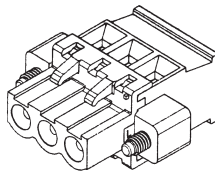
**Suggested Screw Torque—  
7.0 in.-lb.**

No. of Positions	Dim. A	Part Numbers
2	5.08 [0.20]	796861-2
3	10.16 [0.40]	796861-3
4	15.24 [0.60]	796861-4
5	20.32 [0.80]	796861-5
6	25.40 [1.00]	796861-6
7	30.48 [1.20]	796861-7
8	35.56 [1.40]	796861-8
9	40.64 [1.60]	796861-9
10	45.72 [1.80]	1-796861-0
11	50.80 [2.00]	1-796861-1
12	55.88 [2.20]	1-796861-2

No. of Positions	Dim. A	Part Numbers
13	60.96 [2.40]	1-796861-3
14	66.04 [2.60]	1-796861-4
15	71.12 [2.80]	1-796861-5
16	76.20 [3.00]	1-796861-6
17	81.28 [3.20]	1-796861-7
18	86.36 [3.40]	1-796861-8
19	91.44 [3.60]	1-796861-9
20	96.52 [3.80]	2-796861-0
21	101.60 [4.00]	2-796861-1
22	106.68 [4.20]	2-796861-2
23	111.76 [4.40]	2-796861-3

**Plug (Right-Hand Version),  
Straight w/Locking Screw  
Flange,  
5.08 mm Centerline  
Color – Green**

**UL Rating – 300 V, 15 A  
12-30 AWG**



**Suggested Screw Torque—  
7.0 in.-lb.**

No. of Positions	Dim. A	Part Numbers
2	5.08 [0.20]	796863-2
3	10.16 [0.40]	796863-3
4	15.24 [0.60]	796863-4
5	20.32 [0.80]	796863-5
6	25.40 [1.00]	796863-6
7	30.48 [1.20]	796863-7
8	35.56 [1.40]	796863-8
9	40.64 [1.60]	796863-9
10	45.72 [1.80]	1-796863-0
11	50.80 [2.00]	1-796863-1
12	55.88 [2.20]	1-796863-2

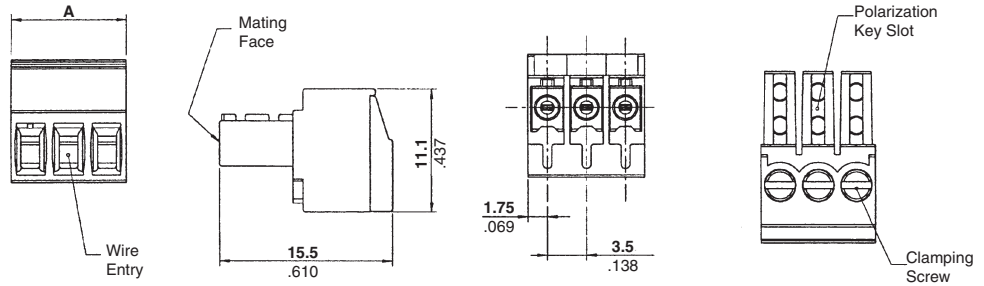
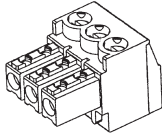
No. of Positions	Dim. A	Part Numbers
13	60.96 [2.40]	1-796863-3
14	66.04 [2.60]	1-796863-4
15	71.12 [2.80]	1-796863-5
16	76.20 [3.00]	1-796863-6
17	81.28 [3.20]	1-796863-7
18	86.36 [3.40]	1-796863-8
19	91.44 [3.60]	1-796863-9
20	96.52 [3.80]	2-796863-0
21	101.60 [4.00]	2-796863-1
22	106.68 [4.20]	2-796863-2
23	111.76 [4.40]	2-796863-3

**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Plug, Right-Angle, 3.5 mm Centerline Colors – See chart.**

**UL Rating – 300 V, 11 A 14-30 AWG**



**Suggested Screw Torque—2.7 in.-lb.**

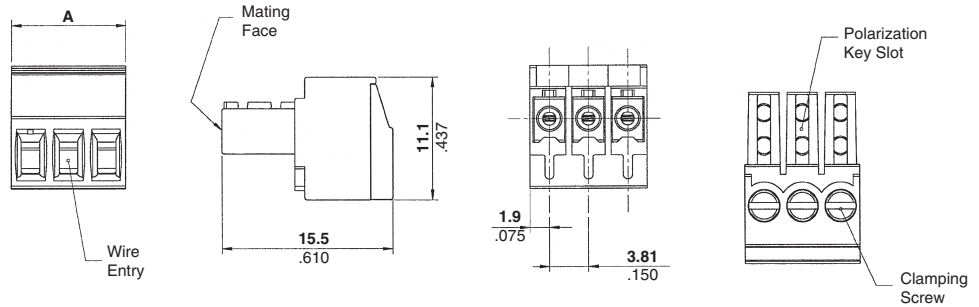
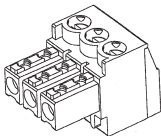
No. of Positions	Dim. A	Part Numbers	
		Green	Blue
2	7.0 [0.276]	284506-2	796693-2
3	10.5 [0.413]	284506-3	796693-3
4	14.0 [0.551]	284506-4	796693-4
5	17.5 [0.689]	284506-5	796693-5
6	21.0 [0.827]	284506-6	796693-6
7	24.5 [0.965]	284506-7	796693-7
8	28.0 [1.102]	284506-8	796693-8
9	31.5 [1.240]	284506-9	796693-9
10	35.0 [1.378]	1-284506-0	1-796693-0
11	38.5 [1.516]	1-284506-1	1-796693-1
12	42.0 [1.654]	1-284506-2	1-796693-2
13	45.5 [1.791]	1-284506-3	1-796693-3

No. of Positions	Dim. A	Part Numbers	
		Green	Blue
14	49.0 [1.929]	1-284506-4	1-796693-4
15	52.5 [2.067]	1-284506-5	1-796693-5
16	56.0 [2.205]	1-284506-6	1-796693-6
17	59.5 [2.343]	1-284506-7	1-796693-7
18	63.0 [2.450]	1-284506-8	1-796693-8
19	66.5 [2.618]	1-284506-9	1-796693-9
20	70.0 [2.756]	2-284506-0	2-796693-0
21	73.5 [2.894]	2-284506-1	2-796693-1
22	77.0 [3.031]	2-284506-2	2-796693-2
23	80.5 [3.169]	2-284506-3	2-796693-3
24	84.0 [3.307]	2-284506-4	2-796693-4
25	87.5 [3.445]	2-284506-5	2-796693-5

**Note:** BUCHANAN Terminal Block Series B52C3UxxT has been superseded/replaced with 796693-xx (blue).

**Plug, Right-Angle, 3.81 mm Centerline Color – Green**

**UL Rating – 300 V, 11 A 14-30 AWG**



**Suggested Screw Torque—2.7 in.-lb.**

No. of Positions	Dim. A	Part Numbers
2	7.62 [0.30]	284507-2
3	11.43 [0.45]	284507-3
4	15.24 [0.60]	284507-4
5	19.05 [0.75]	284507-5
6	22.86 [0.90]	284507-6
7	26.67 [1.05]	284507-7
8	30.48 [1.20]	284507-8
9	34.29 [1.35]	284507-9
10	38.10 [1.50]	1-284507-0
11	41.91 [1.65]	1-284507-1
12	45.72 [1.80]	1-284507-2
13	49.53 [1.95]	1-284507-3

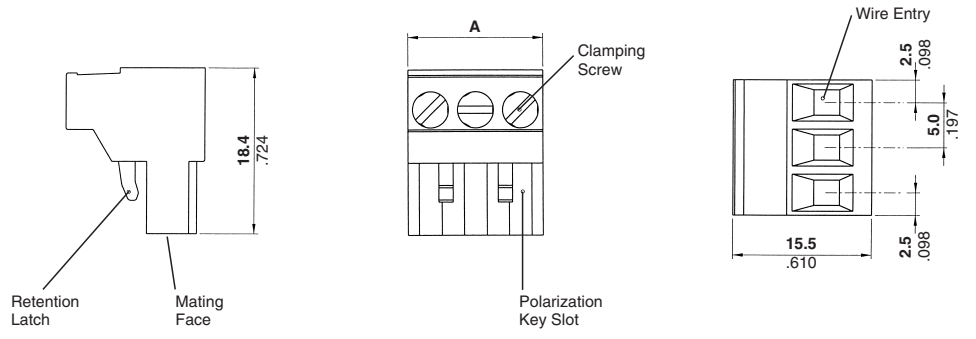
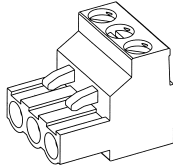
No. of Positions	Dim. A	Part Numbers
14	53.34 [2.10]	1-284507-4
15	57.15 [2.25]	1-284507-5
16	60.96 [2.40]	1-284507-6
17	64.77 [2.55]	1-284507-7
18	68.58 [2.70]	1-284507-8
19	72.39 [2.85]	1-284507-9
20	76.20 [3.00]	2-284507-0
21	80.01 [3.15]	2-284507-1
22	83.82 [3.30]	2-284507-2
23	87.63 [3.45]	2-284507-3
24	91.44 [3.60]	2-284507-4
25	95.25 [3.75]	2-284507-5

**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Plug, Right-Angle, 5.0 mm Centerline Colors – See chart.**

**UL Rating – 300 V, 15 A 12-30 AWG**



**Suggested Screw Torque—**  
7.0 in.-lb.

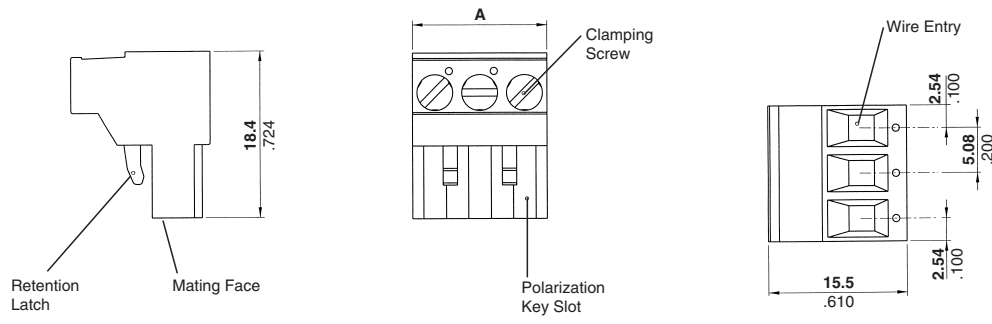
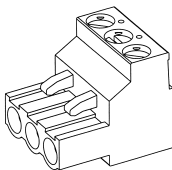
No. of Positions	Dim. A	Part Numbers			
		Gray	Green	Blue	Black
2	10.0 [0.394]	1546208-2	796640-2	796696-2	796641-2
3	15.0 [0.591]	1546208-3	796640-3	796696-3	796641-3
4	20.0 [0.787]	1546208-4	796640-4	796696-4	796641-4
5	25.0 [0.984]	1546208-5	796640-5	796696-5	796641-5
6	30.0 [1.181]	1546208-6	796640-6	796696-6	796641-6
7	35.0 [1.378]	1546208-7	796640-7	796696-7	796641-7
8	40.0 [1.575]	1546208-8	796640-8	796696-8	796641-8
9	45.0 [1.772]	1546208-9	796640-9	796696-9	796641-9
10	50.0 [1.968]	1-1546208-0	1-796640-0	1-796696-0	1-796641-0
11	55.0 [2.165]	1-1546208-1	1-796640-1	1-796696-1	1-796641-1
12	60.0 [2.362]	1-1546208-2	1-796640-2	1-796696-2	1-796641-2
13	65.0 [2.559]	1-1546208-3	1-796640-3	1-796696-3	1-796641-3

No. of Positions	Dim. A	Part Numbers			
		Gray	Green	Blue	Black
14	70.0 [2.756]	1-1546208-4	1-796640-4	1-796696-4	1-796641-4
15	75.0 [2.953]	1-1546208-5	1-796640-5	1-796696-5	1-796641-5
16	80.0 [3.150]	1-1546208-6	1-796640-6	1-796696-6	1-796641-6
17	85.0 [3.346]	1-1546208-7	1-796640-7	1-796696-7	1-796641-7
18	90.0 [3.543]	1-1546208-8	1-796640-8	1-796696-8	1-796641-8
19	95.0 [3.740]	1-1546208-9	1-796640-9	1-796696-9	1-796641-9
20	100.0 [3.937]	2-1546208-0	2-796640-0	2-796696-0	2-796641-0
21	105.0 [4.134]	2-1546208-1	2-796640-1	2-796696-1	2-796641-1
22	110.0 [4.331]	2-1546208-2	2-796640-2	2-796696-2	2-796641-2
23	115.0 [4.528]	2-1546208-3	2-796640-3	2-796696-3	2-796641-3
24	120.0 [4.724]	2-1546208-4	2-796640-4	2-796696-4	2-796641-4
25	125.0 [4.921]	2-1546208-5	2-796640-5	2-796696-5	2-796641-5

**Note:** BUCHANAN Terminal Block Series B52C4UxxT has been replaced with 796696-xx (blue) and 796641-xx (black). RDI Terminal Block Series 5ESDV-xx has been replaced with 796640-xx (green) or 796641-xx (black).

**Plug, Right-Angle, 5.08 mm Centerline Colors – See chart.**

**UL Rating – 300 V, 15 A 12-30 AWG**



**Suggested Screw Torque—**  
7.0 in.-lb.

No. of Positions	Dim. A	Part Numbers		
		Gray	Green	Black
2	10.16 [0.40]	1546108-2	796634-2	796635-2
3	15.24 [0.60]	1546108-3	796634-3	796635-3
4	20.32 [0.80]	1546108-4	796634-4	796635-4
5	25.40 [1.00]	1546108-5	796634-5	796635-5
6	30.48 [1.20]	1546108-6	796634-6	796635-6
7	35.56 [1.40]	1546108-7	796634-7	796635-7
8	40.64 [1.60]	1546108-8	796634-8	796635-8
9	45.72 [1.80]	1546108-9	796634-9	796635-9
10	50.80 [2.00]	1-1546108-0	1-796634-0	1-796635-0
11	55.88 [2.20]	1-1546108-1	1-796634-1	1-796635-1
12	60.96 [2.40]	1-1546108-2	1-796634-2	1-796635-2
13	66.04 [2.60]	1-1546108-3	1-796634-3	1-796635-3

No. of Positions	Dim. A	Part Numbers		
		Gray	Green	Black
14	71.12 [2.80]	1-1546108-4	1-796634-4	1-796635-4
15	76.20 [3.00]	1-1546108-5	1-796634-5	1-796635-5
16	81.28 [3.20]	1-1546108-6	1-796634-6	1-796635-6
17	86.36 [3.40]	1-1546108-7	1-796634-7	1-796635-7
18	91.44 [3.60]	1-1546108-8	1-796634-8	1-796635-8
19	96.52 [3.80]	1-1546108-9	1-796634-9	1-796635-9
20	101.60 [4.00]	2-1546108-0	2-796634-0	2-796635-0
21	106.68 [4.20]	2-1546108-1	2-796634-1	2-796635-1
22	111.76 [4.40]	2-1546108-2	2-796634-2	2-796635-2
23	116.84 [4.60]	2-1546108-3	2-796634-3	2-796635-3
24	121.92 [4.80]	2-1546108-4	2-796634-4	2-796635-4
25	127.00 [5.00]	2-1546108-5	2-796634-5	2-796635-5

**Note:** RDI Terminal Block Series 2ESDV-xx has been replaced with 796634-xx (green) and 796635-xx (black).



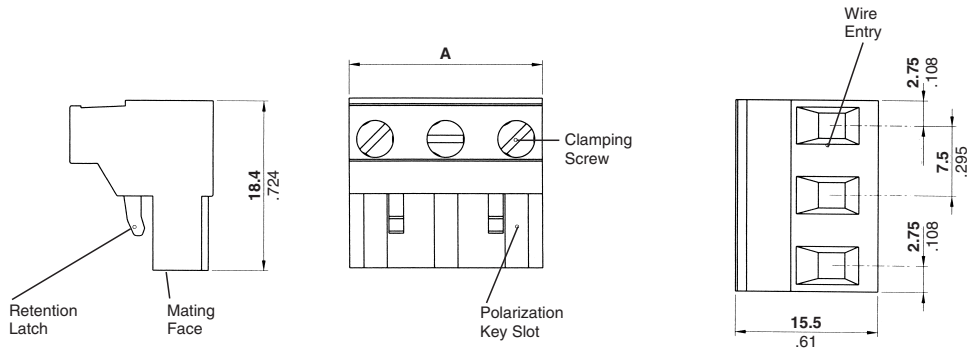
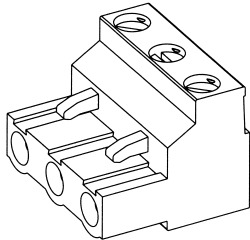


**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Plug, Right-Angle,  
7.5 mm Centerline  
Color – Green**

**UL Rating – 300 V, 15 A  
12-30 AWG**



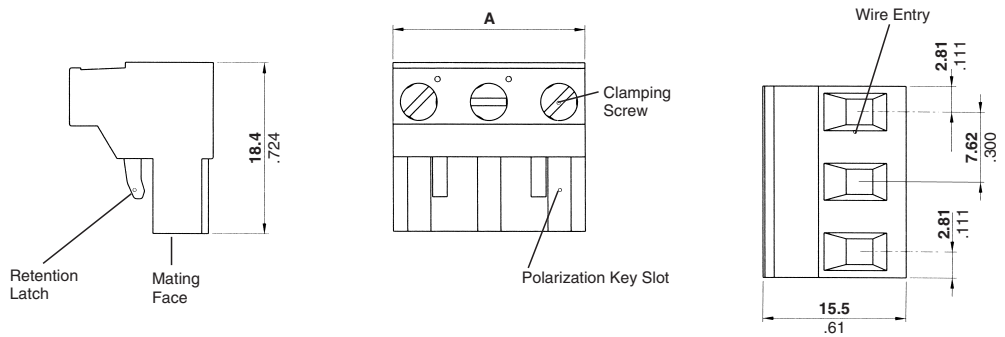
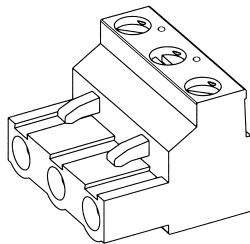
**Suggested Screw Torque—**  
7.0 in.-lb.

No. of Positions	Dim. A	Part Numbers
2	13.0 [0.512]	282959-2
3	20.5 [0.807]	282959-3
4	28.0 [1.102]	282959-4
5	35.5 [1.398]	282959-5
6	43.0 [1.693]	282959-6
7	50.5 [1.988]	282959-7

No. of Positions	Dim. A	Part Numbers
8	58.0 [2.283]	282959-8
9	65.5 [2.579]	282959-9
10	73.0 [2.874]	1-282959-0
11	80.5 [3.169]	1-282959-1
12	88.0 [3.465]	1-282959-2

**Plug, Right-Angle,  
7.62 mm Centerline  
Color – Green**

**UL Rating – 300 V, 15 A  
12-30 AWG**



**Suggested Screw Torque—**  
7.0 in.-lb.

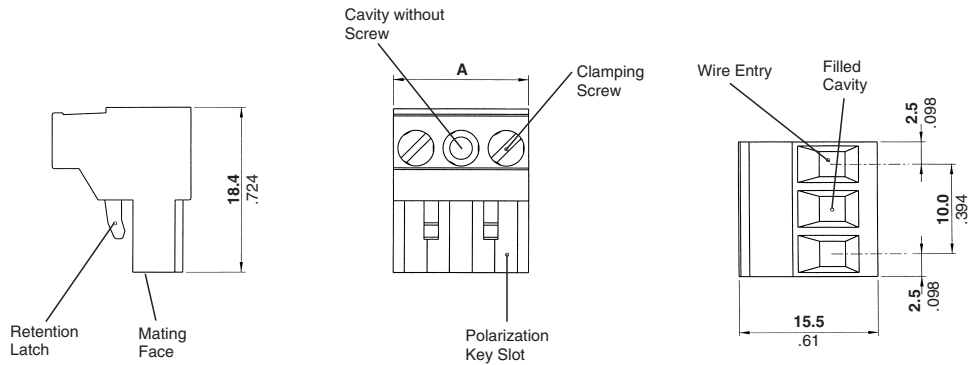
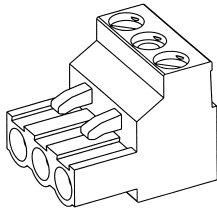
No. of Positions	Dim. A	Part Numbers
2	13.24 [0.521]	796981-2
3	20.86 [0.821]	796981-3
4	28.48 [1.121]	796981-4
5	36.10 [1.421]	796981-5
6	43.72 [1.721]	796981-6
7	51.34 [2.021]	796981-7

No. of Positions	Dim. A	Part Numbers
8	58.96 [2.321]	796981-8
9	66.58 [2.621]	796981-9
10	74.20 [2.921]	1-796981-0
11	81.82 [3.221]	1-796981-1
12	89.44 [3.521]	1-796981-2

**Two-Piece Terminal Block Connectors (Continued)**

**Plug, Right-Angle,  
10.0 mm Centerline  
Color – Green**

**UL Rating – 600 V, 15 A  
12-30 AWG**



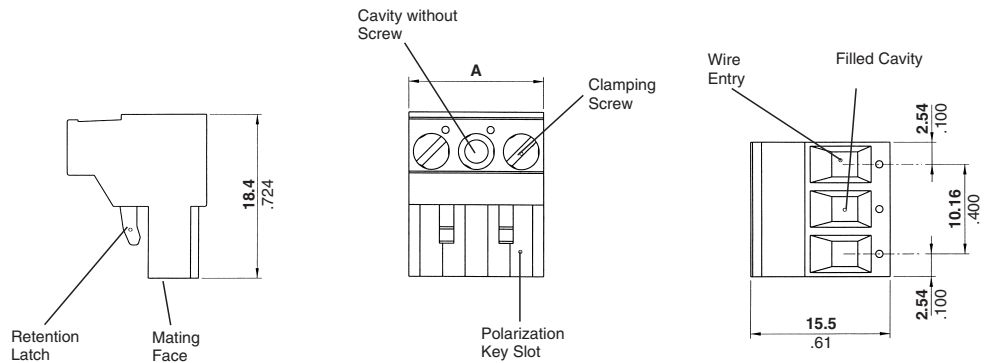
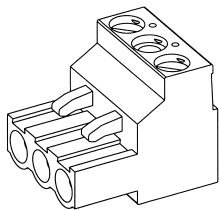
**Suggested Screw Torque—**  
7.0 in.-lb.

No. of Positions	Dim. A	Part Numbers
2	15.0 [0.591]	282808-2
3	25.0 [0.984]	282808-3
4	35.0 [1.378]	282808-4
5	45.0 [1.772]	282808-5
6	55.0 [2.165]	282808-6
7	65.0 [2.559]	282808-7

No. of Positions	Dim. A	Part Numbers
8	75.0 [2.953]	282808-8
9	85.0 [3.346]	282808-9
10	95.0 [3.740]	1-282808-0
11	105.0 [4.134]	1-282808-1
12	115.0 [4.528]	1-282808-2
13	125.0 [4.921]	1-282808-3

**Plug, Right-Angle,  
10.16 mm Centerline  
Color – Green**

**UL Rating – 600 V, 15 A  
12-30 AWG**



**Suggested Screw Torque—**  
7.0 in.-lb.

No. of Positions	Dim. A	Part Numbers
2	15.24 [0.60]	282809-2
3	25.40 [1.00]	282809-3
4	35.56 [1.40]	282809-4
5	45.72 [1.80]	282809-5
6	55.88 [2.20]	282809-6
7	66.04 [2.60]	282809-7

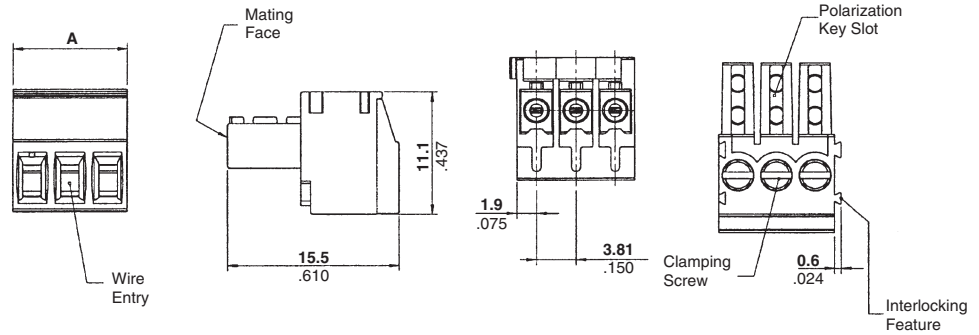
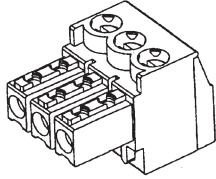
No. of Positions	Dim. A	Part Numbers
8	76.20 [3.00]	282809-8
9	86.36 [3.40]	282809-9
10	96.52 [3.80]	1-282809-0
11	106.68 [4.20]	1-282809-1
12	116.84 [4.60]	1-282809-2
13	127.00 [5.00]	1-282809-3

**Note:** All part numbers are RoHS Compliant.

**Two-Piece Terminal Block Connectors (Continued)**

**Plug, Right-Angle w/Interlock,  
3.81 mm Centerline  
Color – Green**

**UL Rating – 150 V, 12 A  
14-30 AWG**



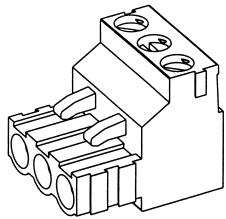
**Suggested Screw Torque—**  
2.2 in.-lb.

No. of Positions	Dim. A	Part Numbers
2	7.62 [0.30]	284509-2
3	11.43 [0.45]	284509-3
4	15.24 [0.60]	284509-4
5	19.05 [0.75]	284509-5
6	22.86 [0.90]	284509-6
7	26.67 [1.05]	284509-7
8	30.48 [1.20]	284509-8
9	34.29 [1.35]	284509-9
10	38.10 [1.50]	1-284509-0
11	41.91 [1.65]	1-284509-1
12	45.72 [1.80]	1-284509-2
13	49.53 [1.95]	1-284509-3
14	53.34 [2.10]	1-284509-4
15	57.15 [2.25]	1-284509-5
16	60.96 [2.40]	1-284509-6
17	64.77 [2.55]	1-284509-7
18	68.58 [2.70]	1-284509-8
19	72.39 [2.85]	1-284509-9
20	86.20 [3.00]	2-284509-0
21	80.01 [3.15]	2-284509-1
22	83.82 [3.30]	2-284509-2
23	87.63 [3.45]	2-284509-3
24	91.44 [3.60]	2-284509-4
25	95.25 [3.75]	2-284509-5

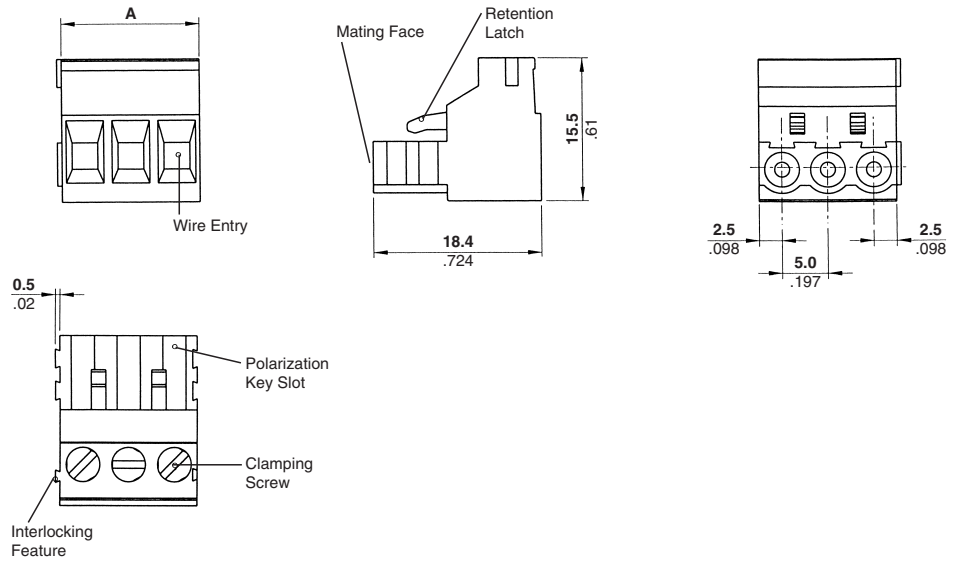
**Two-Piece Terminal Block Connectors (Continued)**

**Stacking Plug, Right-Angle with Interlock, 5.0 mm Centerline Color – Green**

**UL Rating – 300 V, 15 A  
12-30 AWG**



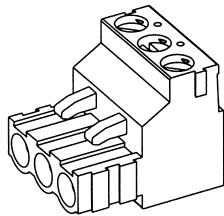
**Suggested Screw Torque—**  
7.0 in.-lb.



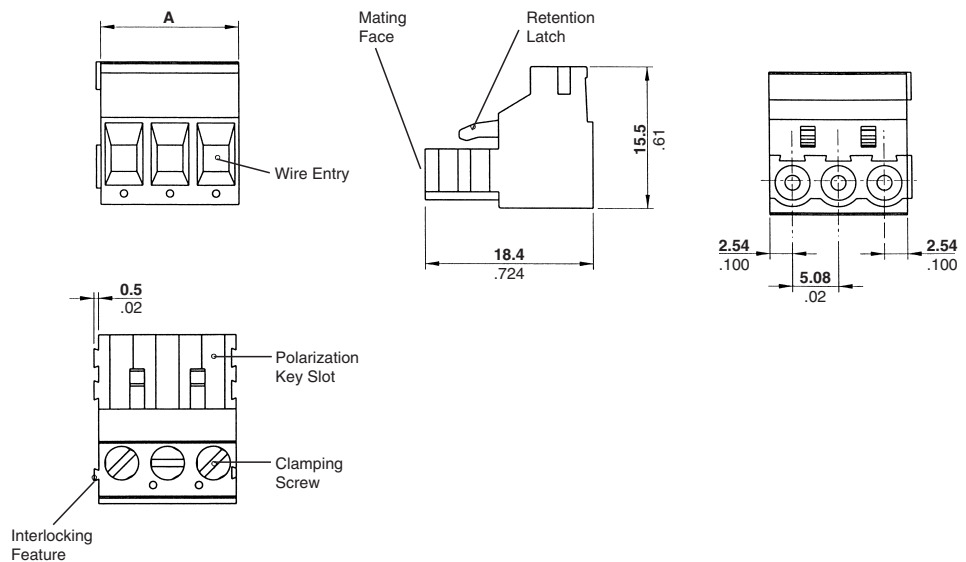
No. of Positions	Dim. A	Part Numbers
2	10.0 [.394]	282805-2
3	15.0 [.591]	282805-3
4	20.0 [.787]	282805-4

**Stacking Plug, Right-Angle with Interlock, 5.08 mm Centerline Color – Green**

**UL Rating – 300 V, 15 A  
12-30 AWG**



**Suggested Screw Torque—**  
7.0 in.-lb.



No. of Positions	Dim. A	Part Numbers
2	10.16 [.400]	282807-2
3	15.24 [.600]	282807-3
4	20.32 [.800]	282807-4

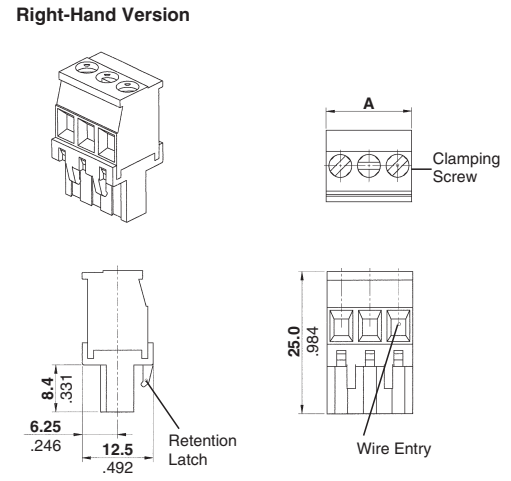
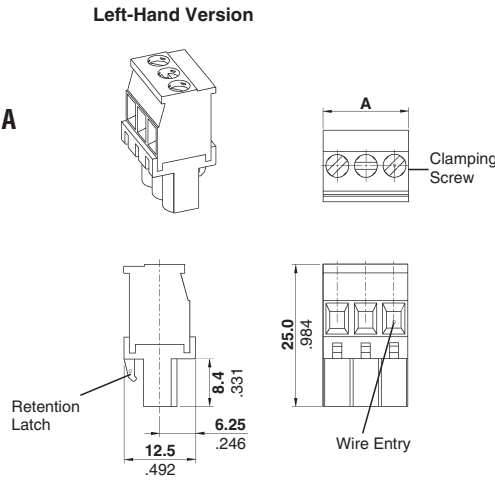
**Note:** All part numbers are RoHS Compliant.

**Straight Plugs**

**Plug, Straight,  
5.0 mm Centerline  
Color – See chart.**

**UL Rating – 300 V, 15 A  
12-30 AWG**

**Suggested Screw Torque—  
7.0 in.-lbs.**



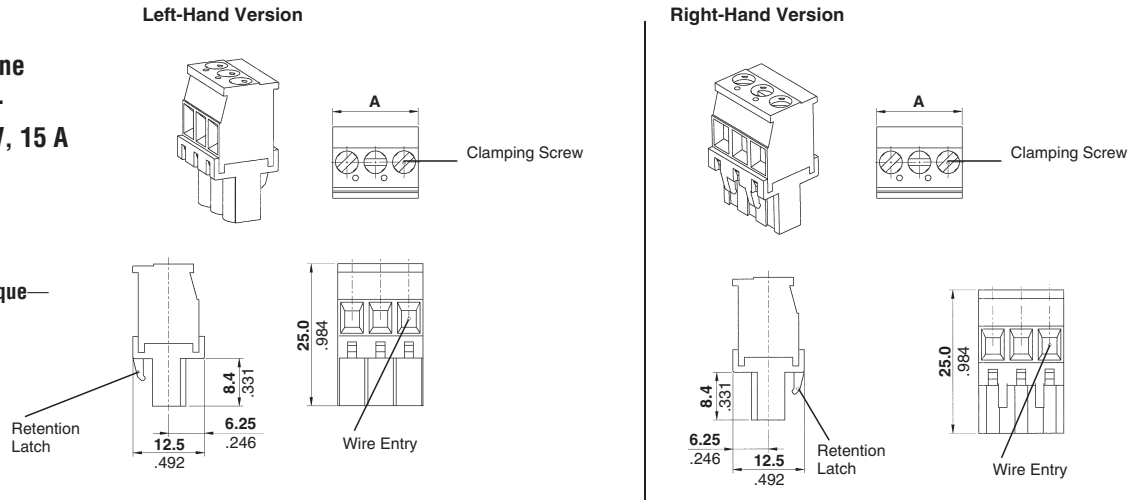
No. of Positions	Dim. A	Part Numbers					
		Left-Hand			Right-Hand		
		Green	Black	Gray	Green	Black	Gray
2	10.0 [.394]	284040-2	1546118-2	1546223-2	284046-2	1546625-2	1546857-2
3	15.0 [.591]	284040-3	1546118-3	1546223-3	284046-3	1546625-3	1546857-3
4	20.0 [.787]	284040-4	1546118-4	1546223-4	284046-4	1546625-4	1546857-4
5	25.0 [.984]	284040-5	1546118-5	1546223-5	284046-5	1546625-5	1546857-5
6	30.0 [1.181]	284040-6	1546118-6	1546223-6	284046-6	1546625-6	1546857-6
7	35.0 [1.378]	284040-7	1546118-7	1546223-7	284046-7	1546625-7	1546857-7
8	40.0 [1.575]	284040-8	1546118-8	1546223-8	284046-8	1546625-8	1546857-8
9	45.0 [1.772]	284040-9	1546118-9	1546223-9	284046-9	1546625-9	1546857-9
10	50.0 [1.968]	1-284040-0	1-1546118-0	1-1546223-0	1-284046-0	1-1546625-0	1-1546857-0
11	55.0 [2.165]	1-284040-1	1-1546118-1	1-1546223-1	1-284046-1	1-1546625-1	1-1546857-1
12	60.0 [2.362]	1-284040-2	1-1546118-2	1-1546223-2	1-284046-2	1-1546625-2	1-1546857-2
13	65.0 [2.559]	1-284040-3	1-1546118-3	1-1546223-3	1-284046-3	1-1546625-3	1-1546857-3
14	70.0 [2.756]	1-284040-4	1-1546118-4	1-1546223-4	1-284046-4	1-1546625-4	1-1546857-4
15	75.0 [2.953]	1-284040-5	1-1546118-5	1-1546223-5	1-284046-5	1-1546625-5	1-1546857-5
16	80.0 [3.150]	1-284040-6	1-1546118-6	1-1546223-6	1-284046-6	1-1546625-6	1-1546857-6
17	85.0 [3.346]	1-284040-7	1-1546118-7	1-1546223-7	1-284046-7	1-1546625-7	1-1546857-7
18	90.0 [3.543]	1-284040-8	1-1546118-8	1-1546223-8	1-284046-8	1-1546625-8	1-1546857-8
19	95.0 [3.740]	1-284040-9	1-1546118-9	1-1546223-9	1-284046-9	1-1546625-9	1-1546857-9
20	100.0 [3.937]	2-284040-0	2-1546118-0	2-1546223-0	2-284046-0	2-1546625-0	2-1546857-0
21	105.0 [4.134]	2-284040-1	2-1546118-1	2-1546223-1	2-284046-1	2-1546625-1	2-1546857-1
22	110.0 [4.331]	2-284040-2	2-1546118-2	2-1546223-2	2-284046-2	2-1546625-2	2-1546857-2
23	115.0 [4.528]	2-284040-3	2-1546118-3	2-1546223-3	2-284046-3	2-1546625-3	2-1546857-3
24	120.0 [4.724]	2-284040-4	2-1546118-4	2-1546223-4	2-284046-4	2-1546625-4	2-1546857-4
25	125.0 [4.921]	2-284040-5	2-1546118-5	2-1546223-5	2-284046-5	2-1546625-5	2-1546857-5

**Note:** All part numbers are RoHS Compliant.

**Straight Plugs (Continued)**

**Plug, Straight,  
5.08 mm Centerline  
Color – See chart.  
UL Rating – 300 V, 15 A  
12-30 AWG**

**Suggested Screw Torque—  
7.0 in.-lbs.**



No. of Positions	Dim. A	Part Numbers					
		Left-Hand			Right-Hand		
		Green	Black	Gray	Green	Black	Gray
2	10.16 [.400]	284041-2	1546105-2	1546224-2	284047-2	1546231-2	1546122-2
3	15.24 [.600]	284041-3	1546105-3	1546224-3	284047-3	1546231-3	1546122-3
4	20.32 [.800]	284041-4	1546105-4	1546224-4	284047-4	1546231-4	1546122-4
5	25.40 [1.000]	284041-5	1546105-5	1546224-5	284047-5	1546231-5	1546122-5
6	30.48 [1.200]	284041-6	1546105-6	1546224-6	284047-6	1546231-6	1546122-6
7	35.56 [1.400]	284041-7	1546105-7	1546224-7	284047-7	1546231-7	1546122-7
8	40.64 [1.600]	284041-8	1546105-8	1546224-8	284047-8	1546231-8	1546122-8
9	45.72 [1.800]	284041-9	1546105-9	1546224-9	284047-9	1546231-9	1546122-9
10	50.80 [2.000]	1-284041-0	1-1546105-0	1-1546224-0	1-284047-0	1-1546231-0	1-1546122-0
11	55.88 [2.200]	1-284041-1	1-1546105-1	1-1546224-1	1-284047-1	1-1546231-1	1-1546122-1
12	60.96 [2.400]	1-284041-2	1-1546105-2	1-1546224-2	1-284047-2	1-1546231-2	1-1546122-2
13	66.04 [2.600]	1-284041-3	1-1546105-3	1-1546224-3	1-284047-3	1-1546231-3	1-1546122-3
14	71.12 [2.800]	1-284041-4	1-1546105-4	1-1546224-4	1-284047-4	1-1546231-4	1-1546122-4
15	76.20 [3.000]	1-284041-5	1-1546105-5	1-1546224-5	1-284047-5	1-1546231-5	1-1546122-5
16	81.28 [3.200]	1-284041-6	1-1546105-6	1-1546224-6	1-284047-6	1-1546231-6	1-1546122-6
17	86.36 [3.400]	1-284041-7	1-1546105-7	1-1546224-7	1-284047-7	1-1546231-7	1-1546122-7
18	91.44 [3.600]	1-284041-8	1-1546105-8	1-1546224-8	1-284047-8	1-1546231-8	1-1546122-8
19	96.52 [3.800]	1-284041-9	1-1546105-9	1-1546224-9	1-284047-9	1-1546231-9	1-1546122-9
20	101.60 [4.000]	2-284041-0	2-1546105-0	2-1546224-0	2-284047-0	2-1546231-0	2-1546122-0
21	106.68 [4.200]	2-284041-1	2-1546105-1	2-1546224-1	2-284047-1	2-1546231-1	2-1546122-1
22	111.76 [4.400]	2-284041-2	2-1546105-2	2-1546224-2	2-284047-2	2-1546231-2	2-1546122-2
23	116.84 [4.600]	2-284041-3	2-1546105-3	2-1546224-3	2-284047-3	2-1546231-3	2-1546122-3
24	121.92 [4.800]	2-284041-4	2-1546105-4	2-1546224-4	2-284047-4	2-1546231-4	2-1546122-4
25	127.00 [5.000]	2-284041-5	2-1546105-5	2-1546224-5	2-284047-5	2-1546231-5	2-1546122-5



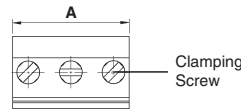
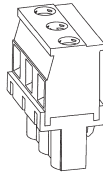


**Note:** All part numbers are RoHS Compliant.

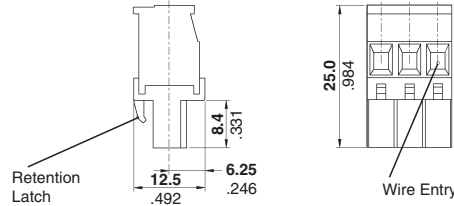
**Straight Plugs (Continued)**

**Plug, Straight,  
7.5 mm and 10.0 mm Centerline  
Color – Green**

**UL Rating – 300 V, 15 A  
12-30 AWG**



**Left-Hand Version**



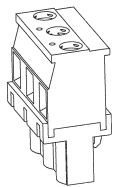
**Suggested Screw Torque—7.0 in.-lbs.**

No. of Positions	Dim. A	7.5 mm Centerline Part Numbers	
		Wire Entry	
		Left-Hand	Right-Hand
2	13.0 [ .512]	284042-2	
3	20.5 [ .807]	284042-3	
4	28.0 [1.102]	284042-4	
5	35.5 [1.398]	284042-5	
6	43.0 [1.693]	284042-6	
7	50.5 [1.988]	284042-7	
8	58.0 [2.283]	284042-8	
9	65.5 [2.579]	284042-9	
10	73.0 [2.874]	1-284042-0	
11	80.5 [3.169]	1-284042-1	
12	88.0 [3.465]	1-284042-2	

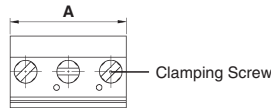
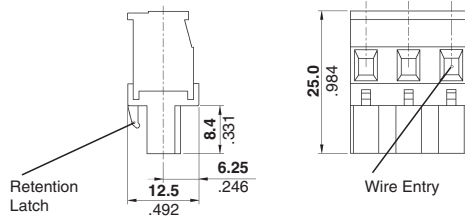
No. of Positions	Dim. A	10.0 mm Centerline Part Numbers	
		Wire Entry	
		Left-Hand	Right-Hand
2	15.0 [0.591]	284044-2	
3	25.0 [0.984]	284044-3	
4	35.0 [1.378]	284044-4	
5	45.0 [1.772]	284044-5	
6	55.0 [2.165]	284044-6	
7	65.0 [2.559]	284044-7	
8	75.0 [2.953]	284044-8	
9	85.0 [3.346]	284044-9	
10	95.0 [3.740]	1-284044-0	
11	105.0 [4.134]	1-284044-1	
12	115.0 [4.528]	1-284044-2	
13	125.0 [4.921]	1-284044-3	

**Plug, Straight,  
7.62 mm and 10.16 mm Centerline**

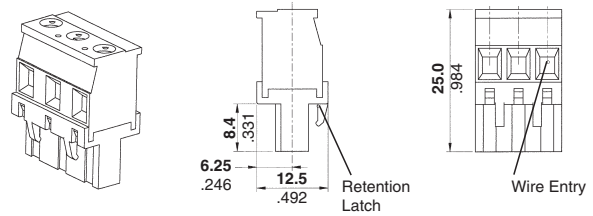
**UL Rating – 300 V, 15 A  
12-30 AWG**



**Left-Hand Version**



**Right-Hand Version**



**Suggested Screw Torque—7.0 in.-lbs.**

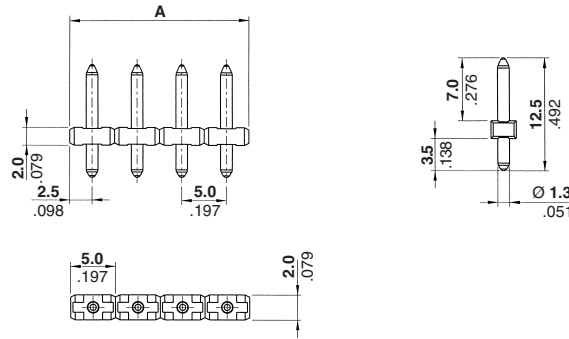
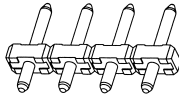
No. of Positions	Dim. A	7.62 mm Centerline Part Numbers		
		Wire Entry		
		Left-Hand	Right-Hand	Green
2	13.24 [ .521]	284043-2	1546935-2	284049-2
3	20.86 [ .821]	284043-3	1546935-3	284049-3
4	28.48 [1.121]	284043-4	1546935-4	284049-4
5	36.10 [1.421]	284043-5	1546935-5	284049-5
6	43.72 [1.721]	284043-6	1546935-6	284049-6
7	51.34 [2.021]	284043-7	1546935-7	284049-7
8	58.96 [2.321]	284043-8	1546935-8	284049-8
9	66.58 [2.621]	284043-9	1546935-9	284049-9
10	74.20 [2.921]	1-284043-0	1-1546935-0	1-284049-0
11	81.82 [3.221]	1-284043-1	1-1546935-1	1-284049-1
12	89.44 [3.521]	1-284043-2	—	1-284049-2

No. of Positions	Dim. A	10.16 mm Centerline Part Numbers		
		Wire Entry		
		Left-Hand	Right-Hand	Black
2	15.24 [0.600]	284045-2	284051-2	1776538-2
3	25.40 [1.000]	284045-3	284051-3	1776538-3
4	35.56 [1.400]	284045-4	284051-4	1776538-4
5	45.72 [1.800]	284045-5	284051-5	1776538-5
6	55.88 [2.200]	284045-6	284051-6	1776538-6
7	66.04 [2.600]	284045-7	284051-7	1776538-7
8	76.20 [3.000]	284045-8	284051-8	1776538-8
9	86.36 [3.400]	284045-9	284051-9	1776538-9
10	96.52 [3.800]	1-284045-0	1-284051-0	1-1776538-0
11	106.68 [4.200]	1-284045-1	1-284051-1	1-1776538-1
12	116.84 [4.600]	1-284045-2	1-284051-2	1-1776538-2
13	127.00 [5.000]	1-284045-3	1-284051-3	—

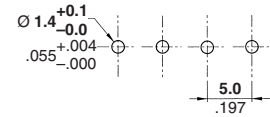
**Note:** All part numbers are RoHS Compliant.

## Unshrouded Straight Pin Headers

**Unshrouded Straight Pin Headers, 5.0 mm Centerline Color – Black UL Rating – 300 V, 12 A**



Recommended PC Board Layout

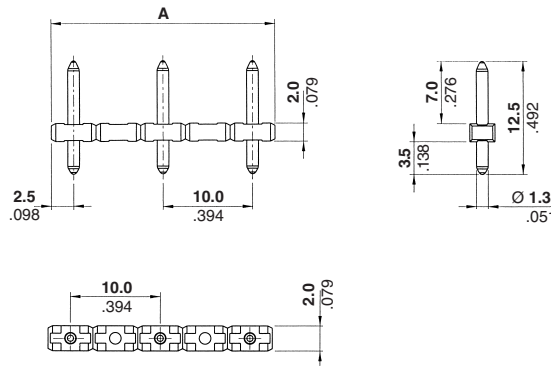
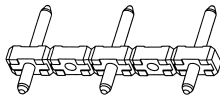


No. of Positions	Dim. A	Part Numbers*
2	10.0 [.394]	1546931-2
3	15.0 [.591]	1546931-3
4	20.0 [.787]	1546931-4
5	25.0 [.984]	1546931-5
6	30.0 [1.181]	1546931-6
7	35.0 [1.378]	1546931-7
8	40.0 [1.575]	1546931-8
9	45.0 [1.772]	1546931-9
10	50.0 [1.968]	1-1546931-0
11	55.0 [2.165]	1-1546931-1
12	60.0 [2.362]	1-1546931-2
13	65.0 [2.559]	1-1546931-3

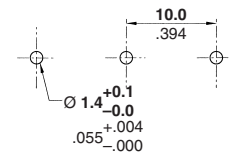
No. of Positions	Dim. A	Part Numbers*
14	70.0 [2.756]	1-1546931-4
15	75.0 [2.953]	1-1546931-5
16	80.0 [3.150]	1-1546931-6
17	85.0 [3.346]	1-1546931-7
18	90.0 [3.543]	1-1546931-8
19	95.0 [3.740]	1-1546931-9
20	100.0 [3.937]	2-1546931-0
21	105.0 [4.134]	2-1546931-1
22	110.0 [4.331]	2-1546931-2
23	115.0 [4.528]	2-1546931-3
24	120.0 [4.724]	2-1546931-4
25	125.0 [4.921]	2-1546931-5

**Note:** Mate with Special Plug Connectors on pages 86 and 87.  
\*Wave solder process capable to 265°C [509°F] for 10 seconds.

**Unshrouded Straight Pin Headers, 10.0 mm Centerline Color – Black UL Rating – 300 V, 12 A**



Recommended PC Board Layout



No. of Positions	Dim. A	Part Numbers*
2	15.0 [.591]	1546932-2
3	25.0 [.984]	1546932-3
4	35.0 [1.378]	1546932-4
5	45.0 [1.772]	1546932-5
6	55.0 [2.165]	1546932-6

**Note:** Mate with Special Plug Connectors on page 88.  
\*Wave solder process capable to 265°C [509°F] for 10 seconds.

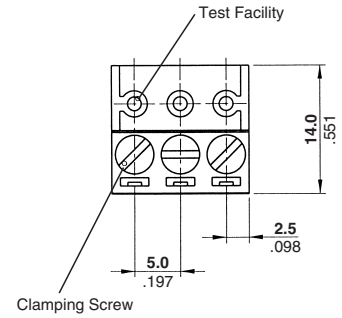
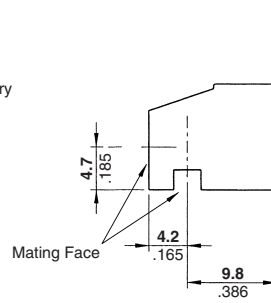
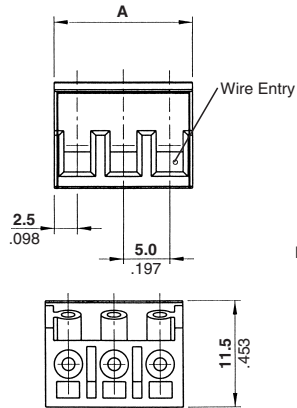
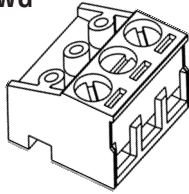


**Note:** All part numbers are RoHS Compliant.

**Special Plug Connectors**

**Special 90°/180° Plug Connectors, 5.0 mm Centerline Color – See chart.**

**UL Rating – 300 V, 12 A 14-30 AWG**



**Suggested Screw Torque—6.0 in.-lbs.**

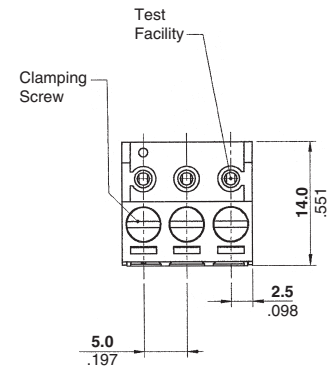
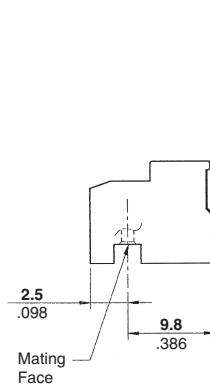
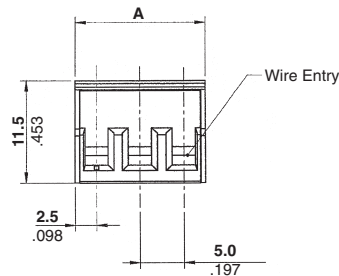
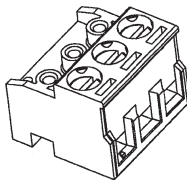
No. of Positions	Dim. A	Part Numbers	
		Green	Black
2	10.0 [.394]	282830-2	1546018-2
3	15.0 [.591]	282830-3	1546018-3
4	20.0 [.787]	282830-4	1546018-4
5	25.0 [.984]	282830-5	1546018-5
6	30.0 [1.181]	282830-6	1546018-6
7	35.0 [1.378]	282830-7	1546018-7
8	40.0 [1.575]	282830-8	1546018-8
9	45.0 [1.772]	282830-9	1546018-9
10	50.0 [1.968]	1-282830-0	1-1546018-0
11	55.0 [2.165]	1-282830-1	1-1546018-1
12	60.0 [2.362]	1-282830-2	1-1546018-2
13	65.0 [2.559]	1-282830-4	1-1546018-3

**Note:** Mate only with 1546931 (black) pin headers.

No. of Positions	Dim. A	Part Numbers	
		Green	Black
14	70.0 [.591]	1-282830-5	1-1546018-4
15	75.0 [.787]	1-282830-6	1-1546018-5
16	80.0 [.984]	1-282830-7	1-1546018-6
17	85.0 [1.181]	1-282830-8	1-1546018-7
18	90.0 [1.378]	1-282830-9	1-1546018-8
19	95.0 [1.575]	2-282830-0	1-1546018-9
20	100.0 [1.772]	2-282830-1	2-1546018-0
21	105.0 [1.968]	2-282830-2	2-1546018-1
22	110.0 [2.165]	2-282830-3	2-1546018-2
23	115.0 [2.362]	2-282830-4	2-1546018-3
24	120.0 [2.362]	2-282830-5	2-1546018-4
25	125.0 [2.362]	2-282830-6	2-1546018-5

**Special 90°/270° Plug Connectors, 5.0 mm Centerline Color – Gray**

**UL Rating – 300 V, 12 A 14-30 AWG**



**Suggested Screw Torque—6.0 in.-lbs.**

No. of Positions	Dim. A	Part Numbers
2	10.0 [.394]	1546226-2
3	15.0 [.591]	1546226-3
4	20.0 [.787]	1546226-4
5	25.0 [.984]	1546226-5
6	30.0 [1.181]	1546226-6
7	35.0 [1.378]	1546226-7
8	40.0 [1.575]	1546226-8
9	45.0 [1.772]	1546226-9
10	50.0 [1.968]	1-1546226-0
11	55.0 [2.165]	1-1546226-1
12	60.0 [2.362]	1-1546226-2
13	65.0 [2.559]	1-1546226-3

**Note:** Mate only with 1546931 (black) pin headers.

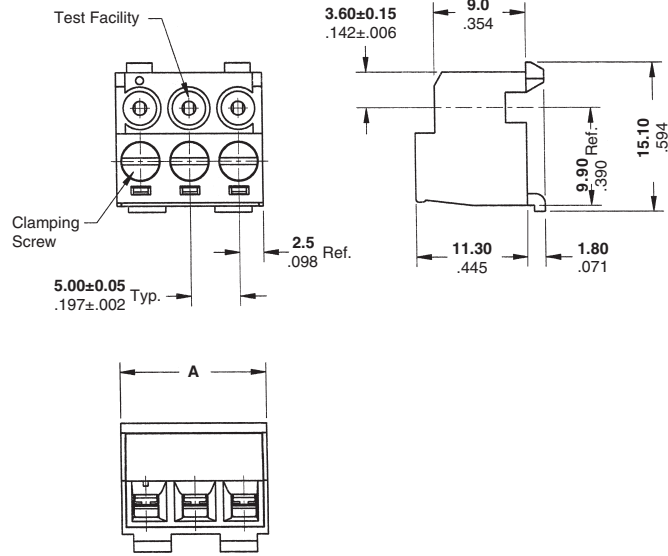
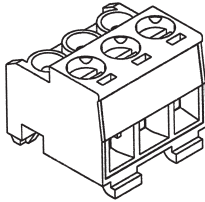
No. of Positions	Dim. A	Part Numbers
14	70.0 [.591]	1-1546226-4
15	75.0 [.787]	1-1546226-5
16	80.0 [.984]	1-1546226-6
17	85.0 [1.181]	1-1546226-7
18	90.0 [1.378]	1-1546226-8
19	95.0 [1.575]	1-1546226-9
20	100.0 [1.772]	2-1546226-0
21	105.0 [1.968]	2-1546226-1
22	110.0 [2.165]	2-1546226-2
23	115.0 [2.362]	2-1546226-3
24	120.0 [2.362]	2-1546226-4
25	125.0 [2.362]	2-1546226-5

**Note:** All part numbers are RoHS Compliant.

**Special Plug Connectors with Latch**

**Special 90°/270° Plug Connectors with Latch, 5.0 mm Centerline Color – Green**

**UL Rating – 300 V, 12 A  
14-30 AWG**



**Suggested Screw Torque**—6.0 in.-lbs.

No. of Positions	Dimension A	Part Numbers
2	10.0 [0.394]	1546173-2
3	15.0 [0.591]	1546173-3
4	20.0 [0.787]	1546173-4
5	25.0 [0.984]	1546173-5
6	30.0 [1.181]	1546173-6
7	35.0 [1.378]	1546173-7
8	40.0 [1.575]	1546173-8
9	45.0 [1.772]	1546173-9
10	50.0 [1.969]	1-1546173-0
11	55.0 [2.165]	1-1546173-1
12	60.0 [2.362]	1-1546173-2

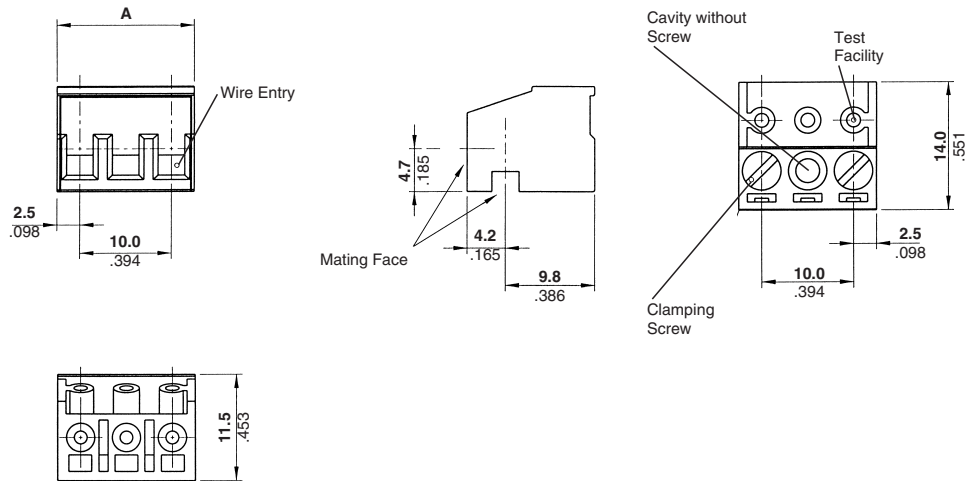
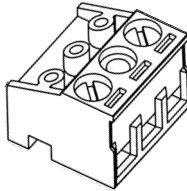
**Note:** Mate only with 1546931 (black) pin headers.



**Note:** All part numbers are RoHS Compliant.

**Special Plug Connectors**

**Special 90°/180° Plug Connectors, 10.0 mm Centerline Color – Green**  
**UL Rating – 600 V, 12 A**  
**14-30 AWG**



**Suggested Screw Torque**—6.0 in.-lbs.

No. of Positions	Dim. A	Part Numbers
2	15.0 [.591]	282831-2
3	25.0 [.984]	282831-3
4	35.0 [1.378]	282831-4
5	45.0 [1.772]	282831-5
6	55.0 [2.165]	282831-6

**Note:** Mate only with 1546932 pin headers.

**Note:** All part numbers are RoHS Compliant.

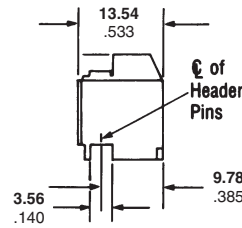
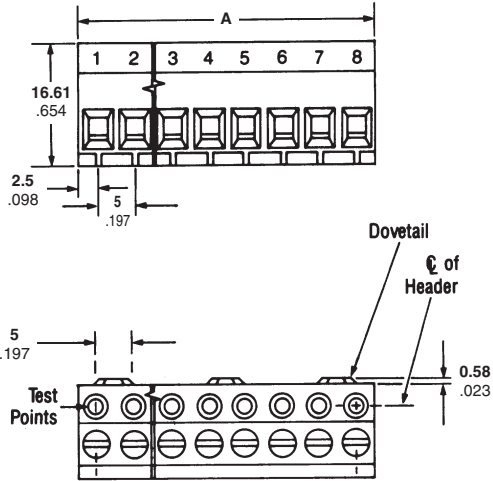
**Flush-Mount Connectors**

**5 mm Pitch**



**B51C4U (universal mounting)**

**A DIM**  
**5 mm: A = N x 5**  
**N = # of Poles**



**5 mm Flush-Mount Plug-In Connectors with Cage Clamp Series B51C4 (Mate with Series B71N4 Pin Headers)**

**Material & Finish**

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

**Flammability**—UL94V-0

**Color**—Black

**Wire Entry Contact and Spring**—Phosphor bronze, tin plated

**Wire Cage**—Hardened steel, zinc plated, yellow chromate treated

**Screw**—M2.5 x 6.2mm, steel, zinc plated, clear chromate treated

**Mechanical Properties**

**Pitch (terminal spacing)**—5mm

**Wire Strip Length**—6.4mm

**Recommended Tightening Torque**—0.5Nm [4.4 in-lbs]

**Electrical Properties**

**Maximum Current**—15A

**Operating Voltage**—300V (5mm)

**Wire Range**—12-30 AWG

**Dielectric Withstand**—2200V (5mm)

**Environmental Properties**

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

No. of Positions	5mm Universal	
	Part Number	Catalog Number
2	1437426-1	B51C4U02T
3	1437426-3	B51C4U03T
4	1437426-9	B51C4U04T
5	1-1437426-3	B51C4U05T
6	1-1437426-6	B51C4U06T
7	2-1437426-0	B51C4U07T
8	2-1437426-5	B51C4U08T
9	2-1437426-8	B51C4U09T
10	3-1437426-2	B51C4U10T
11	3-1437426-6	B51C4U11T
12	3-1437426-9	B51C4U12T
13	4-1437426-6	B51C4U13T
14	4-1437426-9	B51C4U14T
15	5-1437426-1	B51C4U15T
16	5-1437426-3	B51C4U16T
17	—	B51C4U17T
18	5-1437426-6	B51C4U18T
19	—	B51C4U19T
20	5-1437426-7	B51C4U20T
21	—	B51C4U21T
22	5-1437426-8	B51C4U22T
23	—	B51C4U23T
24	5-1437426-9	B51C4U24T



**Note:** All part numbers are RoHS Compliant.

## Flush-Mount Pin Headers

### 5 mm Pitch



### 5 mm Flush-Mount Pin Headers Series B71N4 (Mate with Series B51C4 Connectors)

#### Material & Finish

**Housing Material**—Liquid crystal polymer

**Flammability**—UL94V-0

**Color**—Black

**Solder Pin**—Phosphor bronze, tin plated

#### Mechanical Properties

**Pitch (Pin Spacing)**—5mm

**Recommended PCB Hole Dia.**—1.7mm

#### Electrical Properties

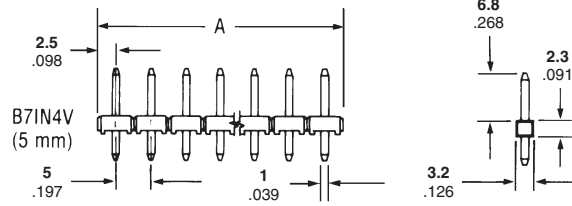
**Maximum Current**—15A

**Operating Voltage**—300V (5mm)

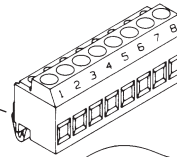
#### Environmental Properties

**Operating Temperature Range**—-30°C to +105°C [-22°F to 221°F] Tin contact system

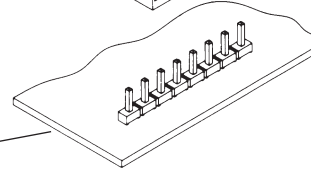
(Vertical Solder Pins)



Series B51C4 Plug-in Connector



Series B71N4 Vertical Pin Header



No. of Positions	Dimension A	Part Number	Catalog Number
2	10.00 [.394]	1776452-2	B71N4V02T
3	15.00 [.591]	1776452-3	B71N4V03T
4	15.00 [.591]	1776452-4	B71N4V04T
5	25.00 [.984]	1776452-5	B71N4V05T
6	30.00 [1.181]	1776452-6	B71N4V06T
7	35.00 [1.378]	1776452-7	B71N4V07T
8	40.00 [1.575]	1776452-8	B71N4V08T
9	45.00 [1.772]	1776452-9	B71N4V09T
10	50.00 [1.969]	1-1776452-0	B71N4V10T
11	55.00 [2.165]	1-1776452-1	B71N4V11T
12	60.00 [2.362]	1-1776452-2	B71N4V12T
13	65.00 [2.559]	1-1776452-3	B71N4V13T
14	70.00 [2.756]	1-1776452-4	B71N4V14T
15	75.00 [2.953]	1-1776452-5	B71N4V15T
16	80.00 [3.150]	1-1776452-6	B71N4V16T
17	85.00 [3.346]	1-1776452-7	B71N4V17T
18	90.00 [3.543]	1-1776452-8	B71N4V18T
19	—	—	B71N4V19T
20	100.00 [3.937]	2-1776452-0	B71N4V20T
21	—	—	B71N4V21T
22	110.00 [4.331]	2-1776452-2	B71N4V22T
23	—	—	B71N4V23T
24	120.00 [4.724]	2-1776452-4	B71N4V24T



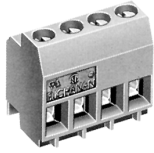
LR28387

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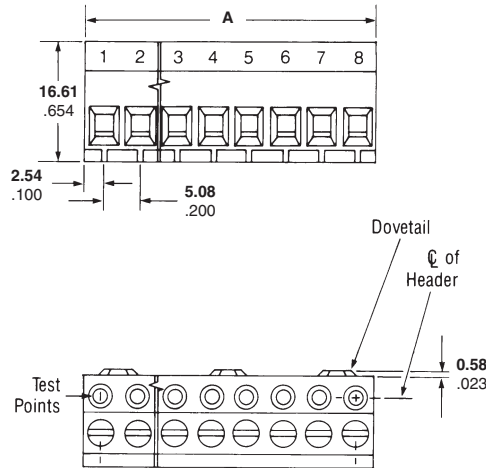
**Note:** All part numbers are RoHS Compliant.

**Flush-Mount Connectors**

**5.08 mm Pitch**



**B51C8U (universal mounting)**



**5.08 mm Flush-Mount Plug-In Connectors with Cage Clamp Series B51C8 (Mate with Series B71N8 Pin Headers)**

**Material & Finish**

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

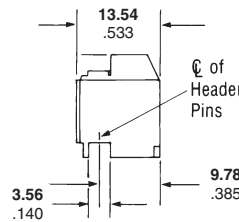
**Flammability**—UL94V-0

**Color**—Blue

**Wire Entry Contact and Spring**—Phosphor bronze, tin plated

**Wire Cage**—Hardened steel, zinc plated, yellow chromate treated

**Screw**—M2.5 x 6.2mm, steel, zinc plated, clear chromate treated



**Mechanical Properties**

**Pitch (terminal spacing)**—5.08mm

**Mounting**—Universal (vertical & horizontal)

**Wire Strip Length**—6.4mm

**Recommended Tightening Torque**—0.5 Nm (4.4 in-lbs)

**Electrical Properties**

**Maximum Current**—15A

**Operating Voltage**—300V (5.08mm)

**Wire Range**—12-30 AWG

**Dielectric Withstand**—2200V (5.08mm)

**Environmental Properties**

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

No. of Positions	Dim. A	Part Number	Catalog Number
2	10.16 [.400]	7-1437426-1	B51C8U02T
3	15.24 [.600]	7-1437426-2	B51C8U03T
4	20.32 [.800]	7-1437426-4	B51C8U04T
5	25.40 [1.000]	7-1437426-5	B51C8U05T
6	30.48 [1.200]	7-1437426-7	B51C8U06T
7	35.56 [1.400]	7-1437426-8	B51C8U07T
8	40.64 [1.600]	8-1437426-0	B51C8U08T
9	45.72 [1.800]	8-1437426-1	B51C8U09T
10	50.80 [2.000]	8-1437426-3	B51C8U10T
11	55.88 [2.200]	8-1437426-6	B51C8U11T
12	60.96 [2.400]	8-1437426-7	B51C8U12T
13	66.04 [2.600]	9-1437426-0	B51C8U13T
14	71.12 [2.800]	9-1437426-1	B51C8U14T
15	76.20 [3.000]	9-1437426-2	B51C8U15T

**Note:** All part numbers are RoHS Compliant.

## Flush-Mount Pin Headers

### 5.08 mm Pitch



### 5.08 mm Flush-Mount Pin Headers Series B71N8 (Mates with Series B51C8 Connectors)

#### Material & Finish

**Housing Material**—Liquid crystal polymer

**Flammability**—UL94V-0

**Color**—Brown

**Pin**—Phosphor bronze, tin plated

#### Mechanical Properties

**Pitch (pin spacing)**—5.08mm

**Recommended PCB Hole Dia.**—1.7mm

#### Electrical Properties

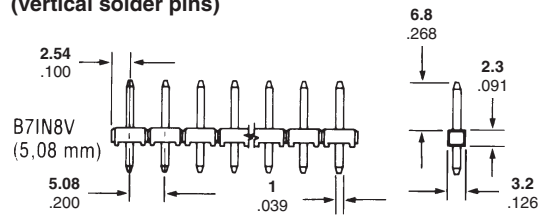
**Maximum Current**—15A

**Operating Voltage**—300V (5mm)

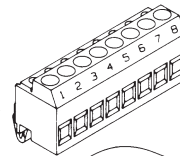
#### Environmental Properties

**Operating Temperature Range**—  
-30°C to +105°C [-22°F to 221°F] Tin contact system

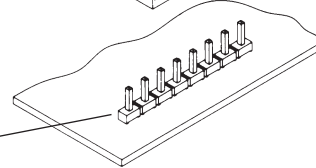
(vertical solder pins)



Series B51C8  
Plug-in Connector



Series B71N8  
Vertical Pin Header



No. of Positions	Part Number	Catalog Number
2	1776453-2	B71N8V02T
3	1776453-3	B71N8V03T
4	1776453-4	B71N8V04T
5	1776453-5	B71N8V05T
6	1776453-6	B71N8V06T
7	1776453-7	B71N8V07T
8	1776453-8	B71N8V08T
9	1776453-9	B71N8V09T
10	1-1776453-0	B71N8V10T
11	1-1776453-1	B71N8V11T
12	1-1776453-2	B71N8V12T
13	—	B71N8V13T
14	1-1776453-4	B71N8V14T
15	—	B71N8V15T
16	1-1776453-6	B71N8V16T
17	1-1776453-7	B71N8V17T
18	1-1776453-8	B71N8V18T
19	—	B71N8V19T
20	2-1776453-0	B71N8V20T
21	—	B71N8V21T
22	2-1776453-2	B71N8V22T
23	—	B71N8V23T
24	2-1776453-4	B71N8V24T



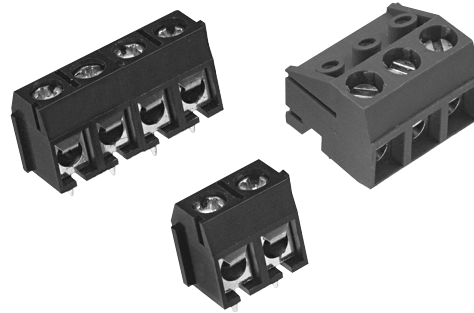
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**Note:** All part numbers are RoHS Compliant.

**Wire Protector Versions**

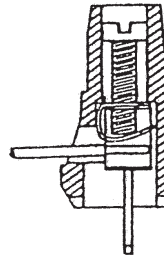
**Product Facts**

- **Modular configuration designed with a dovetail and special detent to provide a more reliable attachment after combining smaller sizes to increase the number of available wire positions**
- **Accepts various wire ranges from 14-22 AWG**
- **Exceptional UL Flammability Classification. All are rated to a flammability classification of UL 94V-0. To achieve the UL94V-0 classification, all materials are tested and proven to be self-extinguishing**
- **UL Recognition File No. E28476**
- **CSA Certification File No. 209071**
- **Pitches Available**
  - **5.0 mm and 5.08 mm Low Profile**
  - **Side and top wire entry**
    - **3.5 mm Side Entry Only**
    - **5.00 mm**
    - **5.0 mm and 5.08 mm 45° wire entry**
- **Various position sizes available**
- **Ink marking available**
- **Other colors available upon request other than those listed in catalog**

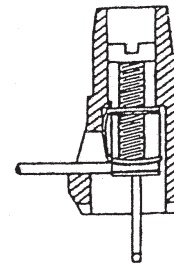


Has full wire guard protection so that the screw does not press directly on the wire. Offers "Lower Profile" terminal block than the cage clamp style. Designed for infrequent terminations.

The screw is able to accommodate both Slot head and Phillips style screwdrivers.



Open

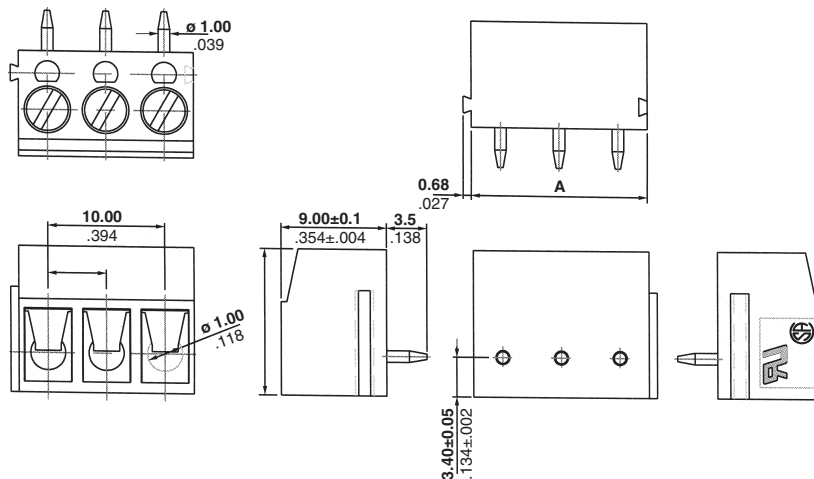


Closed

**PCB Mount, Straight, Top Wire Entry Connectors**

**Terminal Block PCB Mount**  
**Top Wire Entry**  
**w/Interlock**  
**5.0 mm Pitch (LT)**  
**Color – Blue**  
**UL Rating – 250 V, 10 A**  
**14-22 AWG**

**Suggested Screw Torque—**  
4.0 in.-lbs.



No. of Positions	Dim. A	Part Numbers
2	10.0 [0.394]	1776492-2
3	15.0 [0.591]	1776492-3
4	20.0 [0.787]	1776492-4
5	25.0 [0.984]	1776492-5
6	30.0 [1.181]	1776492-6
7	35.0 [1.378]	1776492-7
8	40.0 [1.575]	1776492-8
9	45.0 [1.772]	1776492-9
10	50.0 [1.968]	1-1776492-0
11	55.0 [2.165]	1-1776492-1
12	60.0 [2.362]	1-1776492-2
13	65.0 [2.559]	1-1776492-3
14	70.0 [2.756]	1-1776492-4
15	75.0 [2.953]	1-1776492-5
16	80.0 [3.150]	1-1776492-6
17	85.0 [3.346]	1-1776492-7
18	90.0 [3.543]	1-1776492-8
19	95.0 [3.740]	1-1776492-9
20	100.0 [3.937]	2-1776492-0
21	105.0 [4.134]	2-1776492-1
22	110.0 [4.331]	2-1776492-2
23	115.0 [4.528]	2-1776492-3
24	120.0 [4.724]	2-1776492-4

Wave solder process capable to 265°C [509°F] for 10 seconds

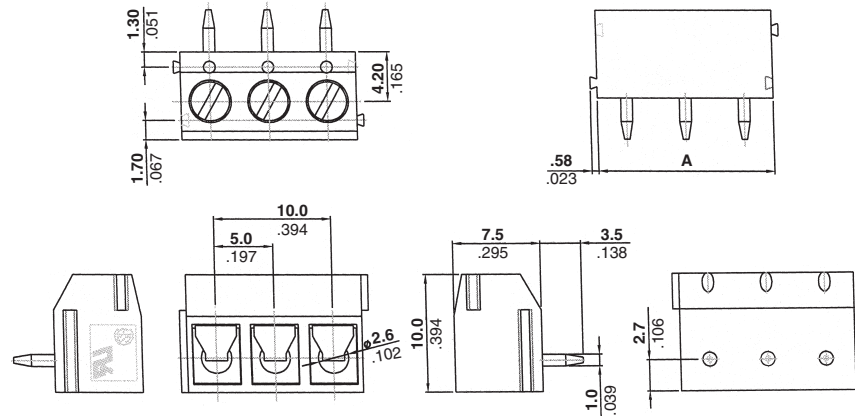
**Note:** All part numbers are RoHS Compliant.

**PCB Mount, Straight, Top Wire Entry Connectors (Continued)**

**Terminal Block PCB Mount  
Top Wire Entry  
Low Profile w/Interlock  
5.0 mm Pitch (LT)  
Color – See chart.**

**UL Rating – 250 V, 10 A  
14-22 AWG**

**Suggested Screw Torque—  
4.5 in.-lbs.**



No. of Positions	Dim. A	Part No.	
		Blue	Green
2	10.0 [.394]	1776555-2	1776267-2
3	15.0 [.591]	1776555-3	1776267-3
4	20.0 [.787]	1776555-4	1776267-4
5	25.0 [.984]	1776555-5	1776267-5
6	30.0 [1.181]	1776555-6	1776267-6
7	35.0 [1.378]	1776555-7	1776267-7
8	40.0 [1.575]	1776555-8	1776267-8
9	45.0 [1.772]	1776555-9	1776267-9
10	50.0 [1.968]	1-1776555-0	1-1776267-0
11	55.0 [2.165]	1-1776555-1	1-1776267-1
12	60.0 [2.362]	1-1776555-2	1-1776267-2
13	65.0 [2.559]	1-1776555-3	1-1776267-3
14	70.0 [.591]	1-1776555-4	1-1776267-4
15	75.0 [.787]	1-1776555-5	1-1776267-5
16	80.0 [.984]	1-1776555-6	1-1776267-6
17	85.0 [1.181]	1-1776555-7	1-1776267-7
18	90.0 [1.378]	1-1776555-8	1-1776267-8
19	95.0 [1.575]	1-1776555-9	1-1776267-9
20	100.0 [1.772]	2-1776555-0	2-1776267-0
21	105.0 [1.968]	2-1776555-1	2-1776267-1
22	110.0 [2.165]	2-1776555-2	2-1776267-2
23	115.0 [2.362]	2-1776555-3	2-1776267-3
24	120.0 [2.362]	2-1776555-4	2-1776267-4

Wave solder process capable to 265°C [509°F] for 10 seconds





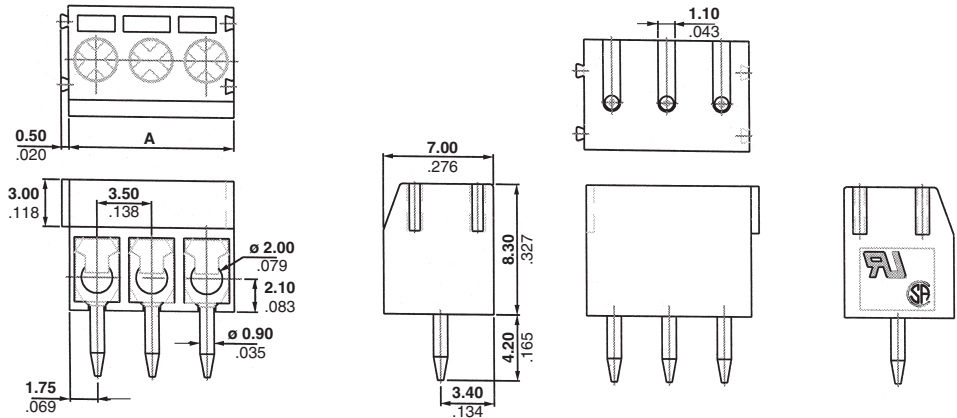
**Note:** All part numbers are RoHS Compliant.

**PCB Mount, Straight, Side Wire Entry Connectors**

**Terminal Block PCB Mount  
Side Wire Entry  
w/Interlock  
3.5 mm Pitch (LT)  
Color – Blue**

**UL Rating – 250 V, 7 A  
18-26 AWG**

**Suggested Screw Torque—  
2.5 in.-lbs.**



No. of Positions	Dim. A	Part Numbers
2	7.00 [.276]	1776275-2
3	10.50 [.413]	1776275-3
4	14.00 [.551]	1776275-4
5	17.50 [.689]	1776275-5
6	21.00 [.827]	1776275-6
7	24.50 [.965]	1776275-7
8	28.00 [1.102]	1776275-8
9	31.50 [1.240]	1776275-9
10	35.00 [1.378]	1-1776275-0
11	38.50 [1.516]	1-1776275-1
12	42.00 [1.654]	1-1776275-2
13	45.50 [1.791]	1-1776275-3
14	49.00 [1.929]	1-1776275-4
15	52.50 [2.067]	1-1776275-5
16	54.00 [2.126]	1-1776275-6
17	57.50 [2.264]	1-1776275-7
18	61.00 [2.402]	1-1776275-8
19	64.50 [2.539]	1-1776275-9
20	68.00 [2.677]	2-1776275-0
21	71.50 [2.815]	2-1776275-1
22	75.00 [2.953]	2-1776275-2
23	78.50 [3.091]	2-1776275-3
24	82.00 [3.228]	2-1776275-4

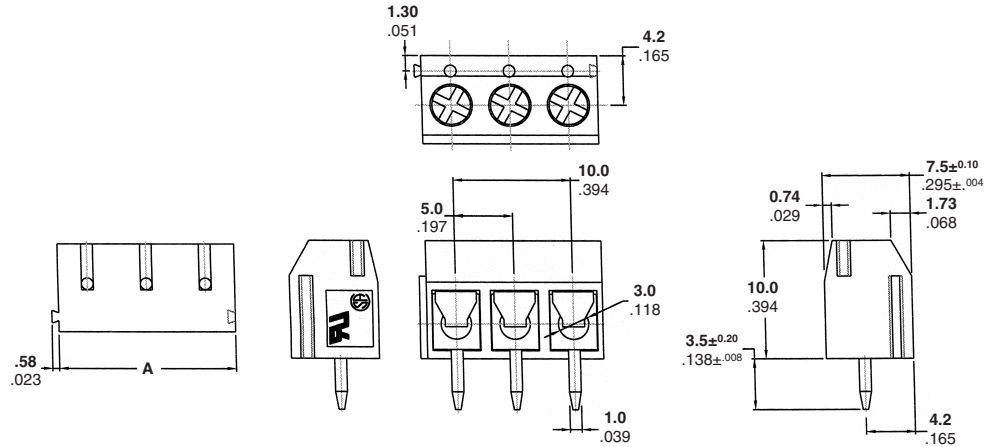
Wave solder process capable to 265°C [509°F] for 10 seconds

**Note:** All part numbers are RoHS Compliant.

**PCB Mount, Straight, Side Wire Entry Connectors (Continued)**

**Terminal Block PCB Mount  
Side Wire Entry  
Low Profile w/Interlock  
5.0 mm Pitch (LT)**

**UL Rating – 250 V, 10 A  
14-22 AWG**



**Suggested Screw Torque—**  
4.5 in.-lbs.

No. of Positions	Dim. A	Part Numbers			
		Blue	Green	Gray	Black
2	10.0 [.394]	1776244-2	1776266-2	1776504-2	1776269-2
3	15.0 [.591]	1776244-3	1776266-3	1776504-3	1776269-3
4	20.0 [.787]	1776244-4	1776266-4	1776504-4	1776269-4
5	25.0 [.984]	1776244-5	1776266-5	1776504-5	1776269-5
6	30.0 [1.181]	1776244-6	1776266-6	1776504-6	1776269-6
7	35.0 [1.378]	1776244-7	1776266-7	1776504-7	1776269-7
8	40.0 [1.575]	1776244-8	1776266-8	1776504-8	1776269-8
9	45.0 [1.772]	1776244-9	1776266-9	1776504-9	1776269-9
10	50.0 [1.968]	1-1776244-0	1-1776266-0	1-1776504-0	1-1776269-0
11	55.0 [2.165]	1-1776244-1	1-1776266-1	1-1776504-1	1-1776269-1
12	60.0 [2.362]	1-1776244-2	1-1776266-2	1-1776504-2	1-1776269-2
13	65.0 [2.559]	1-1776244-3	1-1776266-3	1-1776504-3	1-1776269-3
14	70.0 [.591]	1-1776244-4	1-1776266-4	1-1776504-4	1-1776269-4
15	75.0 [.787]	1-1776244-5	1-1776266-5	1-1776504-5	1-1776269-5
16	80.0 [.984]	1-1776244-6	1-1776266-6	1-1776504-6	1-1776269-6
17	85.0 [1.181]	1-1776244-7	1-1776266-7	1-1776504-7	1-1776269-7
18	90.0 [1.378]	1-1776244-8	1-1776266-8	1-1776504-8	1-1776269-8
19	95.0 [1.575]	1-1776244-9	1-1776266-9	1-1776504-9	1-1776269-9
20	100.0 [1.772]	2-1776244-0	2-1776266-0	2-1776504-0	2-1776269-0
21	105.0 [1.968]	2-1776244-1	2-1776266-1	2-1776504-1	2-1776269-1
22	110.0 [2.165]	2-1776244-2	2-1776266-2	2-1776504-2	2-1776269-2
23	115.0 [2.362]	2-1776244-3	2-1776266-3	2-1776504-3	2-1776269-3
24	120.0 [2.362]	2-1776244-4	2-1776266-4	2-1776504-4	2-1776269-4

Wave solder process capable to 265°C [509°F] for 10 seconds

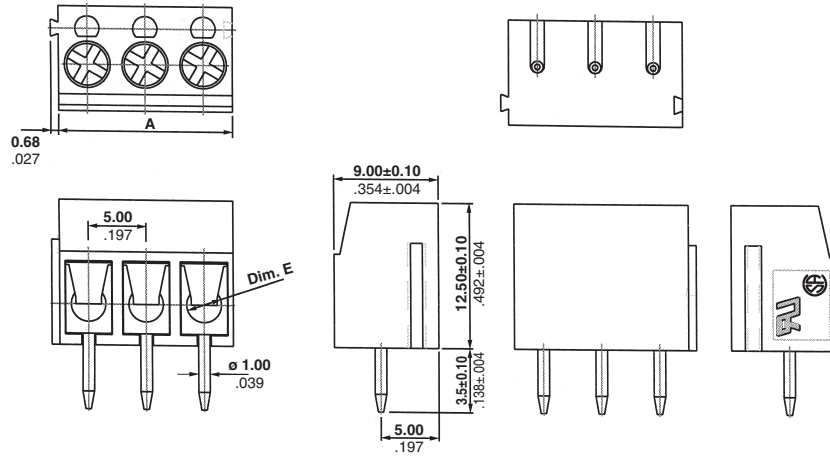


**Note:** All part numbers are RoHS Compliant.

**PCB Mount, Straight, Side Wire Entry Connectors** (Continued)

**Terminal Block PCB Mount**  
**Side Wire Entry**  
**w/Interlock**  
**5.00 mm Pitch (LT)**  
**Color – Blue**  
**UL Rating – 250 V, 10 A**  
**14-22 AWG**

**Suggested Screw Torque—**  
4.5 in.-lbs.



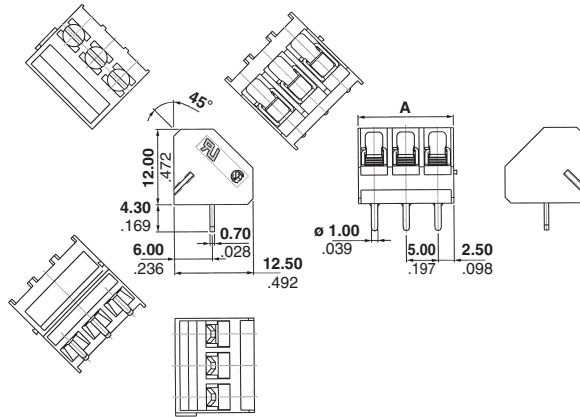
No. of Positions	Dim. A	Part Numbers
2	10.00 [.394]	1776491-2
3	15.00 [.591]	1776491-3
4	20.00 [.787]	1776491-4
5	25.00 [.984]	1776491-5
6	30.00 [1.181]	1776491-6
7	35.00 [1.378]	1776491-7
8	40.00 [1.575]	1776491-8
9	45.00 [1.772]	1776491-9
10	50.00 [1.969]	1-1776491-0
11	55.00 [2.165]	1-1776491-1
12	60.00 [2.362]	1-1776491-2
13	65.00 [2.559]	1-1776491-3
14	70.00 [2.756]	1-1776491-4
15	75.00 [2.953]	1-1776491-5
16	80.00 [3.150]	1-1776491-6
17	85.00 [3.346]	1-1776491-7
18	90.00 [3.543]	1-1776491-8
19	95.00 [3.740]	1-1776491-9
20	100.00 [3.937]	2-1776491-0
21	105.00 [4.134]	2-1776491-1
22	110.00 [4.331]	2-1776491-2
23	115.00 [4.525]	2-1776491-3
24	120.00 [4.724]	2-1776491-4

Wave solder process capable to 265°C [509°F] for 10 seconds

**Note:** All part numbers are RoHS Compliant.

**45° Wire Inlet Connectors**

**Terminal Block**  
**45° Wire Inlet w/Interlock**  
**5.00 mm Pitch (LT)**  
**Color – Blue**  
**UL Rating – 250 V, 10 A**  
**14-22 AWG**



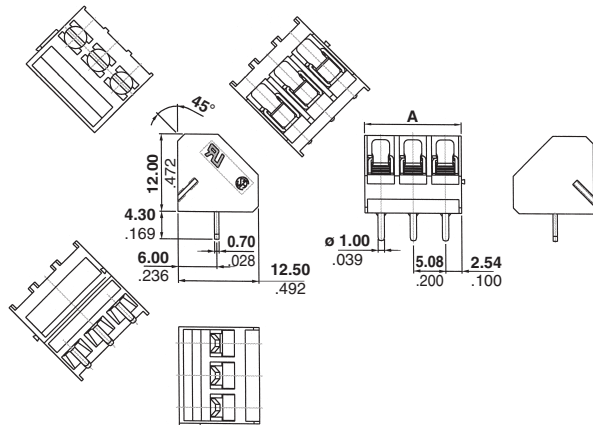
**Suggested Screw Torque—**  
 4.0 in.-lbs.

No. of Positions	Dim. A	Part Numbers
2	10.00 [.394]	1776252-2
3	15.00 [.591]	1776252-3
4	20.00 [.787]	1776252-4
5	25.00 [.984]	1776252-5
6	30.00 [1.181]	1776252-6
7	35.00 [1.378]	1776252-7
8	40.00 [1.575]	1776252-8
9	45.00 [1.772]	1776252-9
10	50.00 [1.969]	1-1776252-0
11	55.00 [2.165]	1-1776252-1
12	60.00 [2.362]	1-1776252-2
13	65.00 [2.559]	1-1776252-3

No. of Positions	Dim. A	Part Numbers
14	70.00 [2.756]	1-1776252-4
15	75.00 [2.953]	1-1776252-5
16	80.00 [3.150]	1-1776252-6
17	85.00 [3.346]	1-1776252-7
18	90.00 [3.543]	1-1776252-8
19	95.00 [3.740]	1-1776252-9
20	100.00 [3.937]	2-1776252-0
21	105.00 [4.134]	2-1776252-1
22	110.00 [4.331]	2-1776252-2
23	115.00 [4.528]	2-1776252-3
24	120.00 [4.724]	2-1776252-4

Wave solder process capable to 265°C [509°F] for 10 seconds

**Terminal Block**  
**45° Wire Inlet w/Interlock**  
**5.08 mm Pitch (LT)**  
**Color – Blue**  
**UL Rating – 250 V, 10 A**  
**14-22 AWG**



**Suggested Screw Torque—**  
 4.0 in.-lbs.

No. of Positions	Dim. A	Part Numbers
2	10.16 [.400]	1776258-2
3	15.24 [.600]	1776258-3
4	20.32 [.800]	1776258-4
5	25.40 [1.000]	1776258-5
6	30.48 [1.200]	1776258-6
7	35.56 [1.400]	1776258-7
8	40.64 [1.600]	1776258-8
9	45.72 [1.800]	1776258-9
10	50.80 [2.000]	1-1776258-0
11	55.88 [2.200]	1-1776258-1
12	60.96 [2.400]	1-1776258-2
13	66.04 [2.600]	1-1776258-3

No. of Positions	Dim. A	Part Numbers
14	71.12 [2.800]	1-1776258-4
15	76.20 [3.000]	1-1776258-5
16	81.28 [3.200]	1-1776258-6
17	86.36 [3.400]	1-1776258-7
18	91.44 [3.600]	1-1776258-8
19	96.52 [3.800]	1-1776258-9
20	101.60 [4.000]	2-1776258-0
21	106.68 [4.200]	2-1776258-1
22	111.76 [4.400]	2-1776258-2
23	116.84 [4.600]	2-1776258-3
24	121.92 [4.800]	2-1776258-4

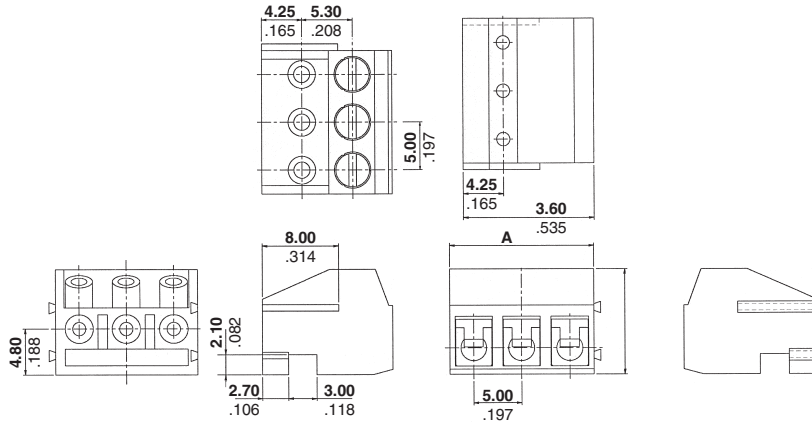
Wave solder process capable to 265°C [509°F] for 10 seconds

**Note:** All part numbers are RoHS Compliant.

**Plug, Flush Mount**

**Plug  
Flush Mount  
5.00 mm Pitch  
Color – See chart.**

**UL Rating – 250/300 V, 10 A  
14-22 AWG**



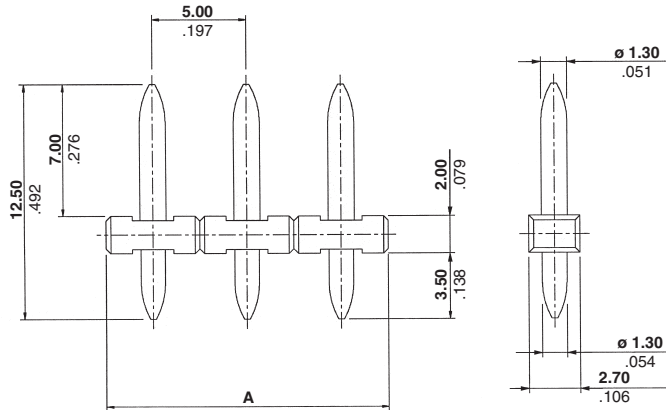
**Suggested Screw Torque—**  
4.5 in.-lbs.

No. of Positions	Dim. A	Part No.	
		Black	Blue
2	10.00 [.394]	1776280-2	1776263-2
3	15.00 [.591]	1776280-3	1776263-3
4	20.00 [.787]	1776280-4	1776263-4
5	25.00 [.984]	1776280-5	1776263-5
6	30.00 [1.181]	1776280-6	1776263-6
7	35.00 [1.378]	1776280-7	1776263-7
8	40.00 [1.575]	1776280-8	1776263-8
9	45.00 [1.772]	1776280-9	1776263-9
10	50.00 [1.969]	1-1776280-0	1-1776263-0
11	55.00 [2.165]	1-1776280-1	1-1776263-1
12	60.00 [2.362]	1-1776280-2	1-1776263-2
13	65.00 [2.559]	1-1776280-3	1-1776263-3

No. of Positions	Dim. A	Part No.	
		Black	Blue
14	70.00 [2.756]	1-1776280-4	1-1776263-4
15	75.00 [2.953]	1-1776280-5	1-1776263-5
16	80.00 [3.150]	1-1776280-6	1-1776263-6
17	85.00 [3.346]	1-1776280-7	1-1776263-7
18	90.00 [3.543]	1-1776280-8	1-1776263-8
19	95.00 [3.740]	1-1776280-9	1-1776263-9
20	100.00 [3.937]	2-1776280-0	2-1776263-0
21	105.00 [4.134]	2-1776280-1	2-1776263-1
22	110.00 [4.331]	2-1776280-2	2-1776263-2
23	115.00 [4.528]	2-1776280-3	2-1776263-3
24	120.00 [4.724]	2-1776280-4	2-1776263-4

**Header, Straight Mount**

**Header  
Straight Mount,  
Unshrouded  
5.00 mm Pitch  
Color – Blue  
UL Rating – 250/300 V, 10 A**



No. of Positions	Dim. A	Part Numbers
2	10.00 [.394]	1776489-2
3	15.00 [.591]	1776489-3
4	20.00 [.787]	1776489-4
5	25.00 [.984]	1776489-5
6	30.00 [1.181]	1776489-6
7	35.00 [1.378]	1776489-7
8	40.00 [1.575]	1776489-8
9	45.00 [1.772]	1776489-9
10	50.00 [1.969]	1-1776489-0
11	55.00 [2.165]	1-1776489-1
12	60.00 [2.362]	1-1776489-2
13	65.00 [2.559]	1-1776489-3

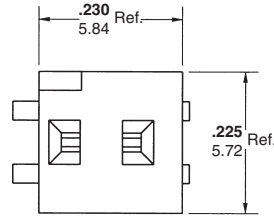
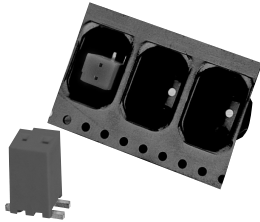
No. of Positions	Dim. A	Part Numbers
14	70.00 [2.756]	1-1776489-4
15	75.00 [2.953]	1-1776489-5
16	80.00 [3.150]	1-1776489-6
17	85.00 [3.346]	1-1776489-7
18	90.00 [3.543]	1-1776489-8
19	95.00 [3.740]	1-1776489-9
20	100.00 [3.937]	2-1776489-0
21	105.00 [4.134]	2-1776489-1
22	110.00 [4.331]	2-1776489-2
23	115.00 [4.528]	2-1776489-3
24	120.00 [4.724]	2-1776489-4

Wave solder process capable to 265°C [509°F] for 10 seconds

**Note:** All part numbers are RoHS Compliant.

**Wire Trap**

**2.5 mm Pitch**



**2.5 mm Surface Mount, Technology with Wire Trap, Series SMC**

**Material & Finish**

**Housing Material**—Polyphenylene Sulfide (PPS)

**Flammability**—UL94V-0

**Color**—Black

**Contact**—Phosphor bronze, tin plated over nickel

**Mechanical Properties**

**Pitch (terminal spacing)**—2.5mm [.098]

**Wire Strip Length**—5.5mm min, 7.11mm max. [0.22" min, 0.28" max]

**Max. Wire Insulation Diameter**—1.7mm [.067]

**Packaging**—Tape and reel and loose piece

**Electrical Properties**

**Maximum Current**—3A

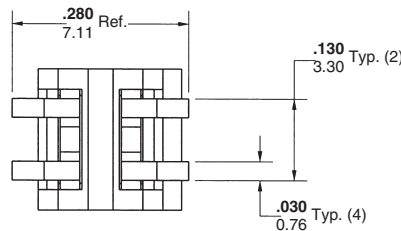
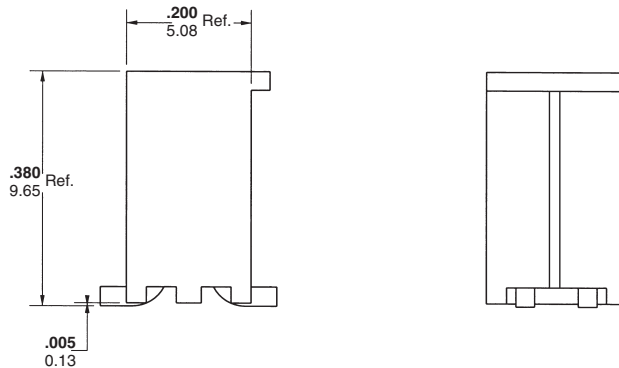
**Operating Voltage**—250V

**Wire Range**—24 AWG, stranded tin

**Dielectric Withstand**—1500 VAC

**Environmental Properties**

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



**Surface Mount with Wire Trap**

**Product Facts**

- n Available in 2.5 mm pitch
- n Accepts 24 AWG stranded tin
- n 2 position Connector
- n Current capability: 3 A
- n 250 V
- n Packaging: Tape and Reel and Loose Piece (25 pcs/bag)

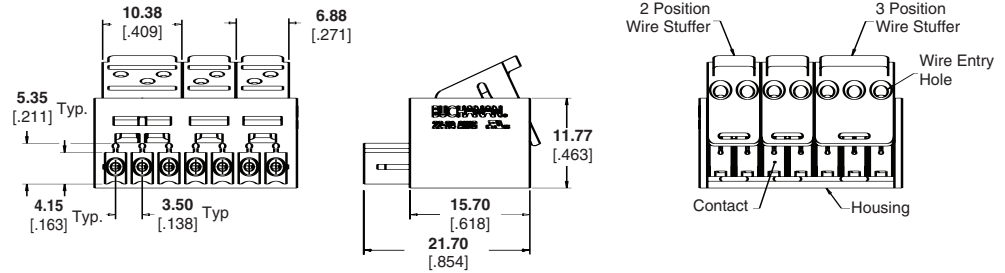
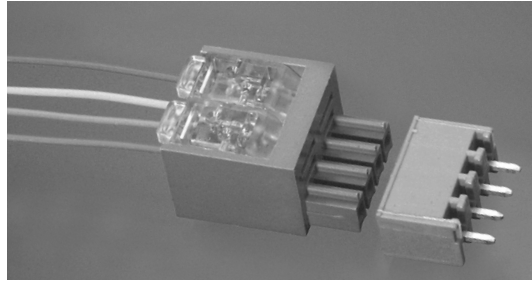
Description	No. of Positions	Part Number	Catalog Number
Tape & Reel, 500 pieces	2	1776226-1	SMC2402
25 pieces	2	1776227-1	SM2V02

**Note:** All part numbers are RoHS Compliant.

**PIVOT BLOCK 3.5 mm Plugs**

**Product Facts**

- 3.5 mm [.138] centerline IDC plug
- Alternative to screw clamp plugs
- Two-piece pluggable terminal block system
- Mates with 3.5 mm horizontal and vertical terminal block headers on pages 45, 47, 49 and 58
- Proven pivot wire termination
- Multi-position connector, IDC termination and tactile feel when terminated
- No wire stripping required
- Flanged version available
- Designs available to terminate solid and stranded wires: 22-24 AWG (2-16 positions)
- Wire stuffer allows visual inspection of wire termination
- Screwdriver required to open wire stuffer



**Material and Finish**

**Wire Stuffer**—Polycarbonate  
**Housing**—PBT Polyester, Green (standard color), blue also available  
**Contact**—Phosphor Bronze  
**Plating**—Tin over Nickel

**Performance Characteristics**

**Mechanical Properties**

10 cycles min. durability wire termination  
 15 lbs. closing force max. (2 position)  
 10 lbs. opening force max. (2 position)  
 Screws for mounting flange M2.5 fixing screw

**Electrical Properties**

Maximum current 5A (22-24 AWG)  
 Operating voltage 250 V  
 Dielectric withstanding 1500 VAC

**Technical Documents**

**Product Specification:**  
 108-1981

**Application Specification:**  
 114-13037

No. of Positions	Description	22-24 AWG	
		Part Number Blue	Part Number Green
2	IDC T/B	1776279-2	1776282-2
	IDC T/B with Screw Flange	1776281-2	1776283-2
3	IDC T/B	1776279-3	1776282-3
	IDC T/B with Screw Flange	1776281-3	1776283-3
4	IDC T/B	1776279-4	1776282-4
	IDC T/B with Screw Flange	1776281-4	1776283-4
5	IDC T/B	1776279-5	1776282-5
	IDC T/B with Screw Flange	1776281-5	1776283-5
6	IDC T/B	1776279-6	1776282-6
	IDC T/B with Screw Flange	1776281-6	1776283-6
7	IDC T/B	1776279-7	1776282-7
	IDC T/B with Screw Flange	1776281-7	1776283-7
8	IDC T/B	1776279-8	1776282-8
	IDC T/B with Screw Flange	1776281-8	1776283-8
9	IDC T/B	1776279-9	1776282-9
	IDC T/B with Screw Flange	1776281-9	1776283-9
10	IDC T/B	1-1776279-0	1-1776282-0
	IDC T/B with Screw Flange	1-1776281-0	1-1776283-0
11	IDC T/B	1-1776279-1	1-1776282-1
	IDC T/B with Screw Flange	1-1776281-1	1-1776283-1
12	IDC T/B	1-1776279-2	1-1776282-2
	IDC T/B with Screw Flange	1-1776281-2	1-1776283-2
13	IDC T/B	1-1776279-3	1-1776282-3
	IDC T/B with Screw Flange	1-1776281-3	1-1776283-3
14	IDC T/B	1-1776279-4	1-1776282-4
	IDC T/B with Screw Flange	1-1776281-4	1-1776283-4
15	IDC T/B	1-1776279-5	1-1776282-5
	IDC T/B with Screw Flange	1-1776281-5	1-1776283-5
16	IDC T/B	1-1776279-6	1-1776282-6
	IDC T/B with Screw Flange	1-1776281-6	1-1776283-6

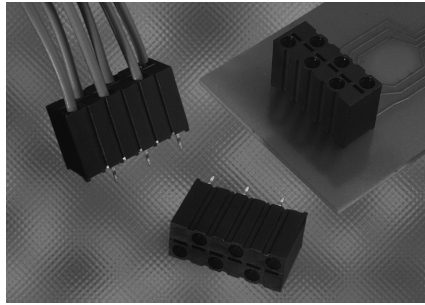


**Note:** All part numbers are RoHS Compliant.

**Vertical Screwless Wire Connectors**

**Product Facts**

- Contact design allows for retermination
- Terminates 16-18 AWG solid wire and 18 AWG bonded wire
- Through-hole solder mount with kinked legs for PCB retention



**Material and Finish**

**Housing**—UL94V-0 rated PBT  
**Contact**—Phosphor Bronze  
**Contact Finish**—Pre-tin over nickel underplate

**Performance Characteristics**

**Mechanical Properties**

5 cycles min. durability wire termination  
**Wire Retention**—5 lb. [22.25N]  
**Pitch**—.138 [3.5 mm] staggered centerline

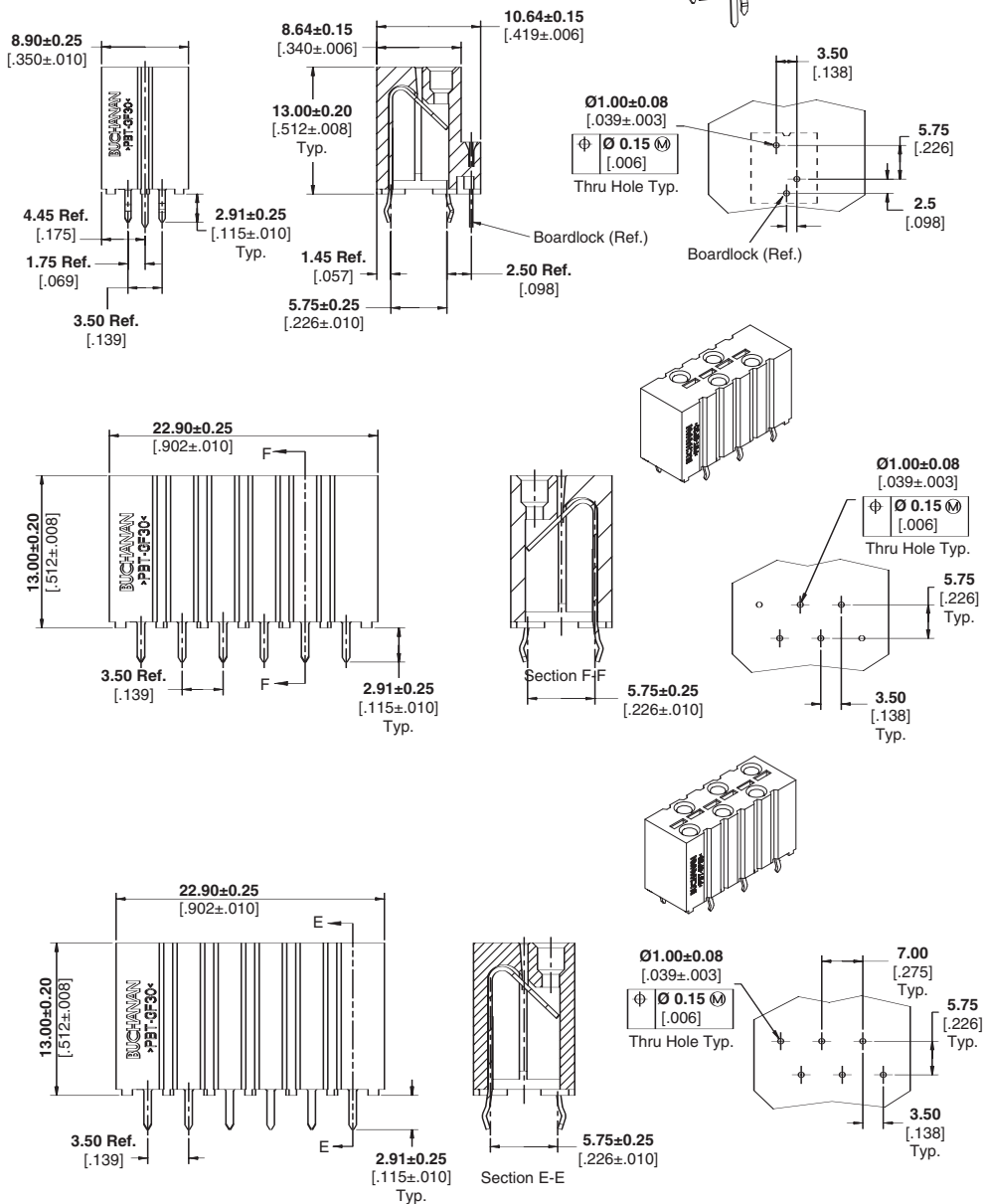
**Electrical Properties**

Maximum current 2A  
 Operating voltage 600 V  
 Dielectric withstanding 2200 VAC

**Technical Documents**

**Product Specification:**  
108-2059

**Application Specification:**  
114-13075





No. of Positions	Description	Part Numbers
2	W/Boardlock	1811957-1
4	—	1811444-1
6	—	1811398-1

**Note:** All part numbers are RoHS Compliant.

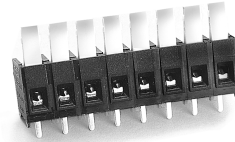
## Screwless Terminal Blocks

### Product Facts

- Available in 5.0 mm [.197] and 5.08 mm [.200] pitch sizes
- Wire range 14-22 AWG
- Current capability: 10 A (5.08 mm [.200] lever version)
- Vertical and right-angle wire insertion provides options to meet different application needs
- No special tool required, levers can be easily actuated with a finger or a screwdriver
- Screwless saves time when installing wires
- UL Recognition 
- CSA Certification 



5.0 mm and 5.08 mm Pitch  
(Pages 104, 105)



Series 2SV  
5.08 mm Pitch  
(Below)

Screwless Terminal Blocks are suitable for both solid and stranded wires and offers a fast way to complete wire connections. The lever is fully integrated into the body of the terminal

block, which means no special tools are required.

The spring is made from stainless steel strip so that there is a strong connection.

### 5.08 mm Standard Connectors with Screwless Clamp Series 2SV

#### Material & Finish

**Housing Material**—Thermoplastic polyester

**Flammability**—UL94V-0

**Color**—Black

**Clamping Terminal and Solder Pin**—Acid-tin over copper alloy

#### Mechanical Properties

**Pitch (terminal spacing)**—5.08mm [.200]

**Recommended PCB Hole Dia.**—1.4mm [.055]

#### Electrical Properties

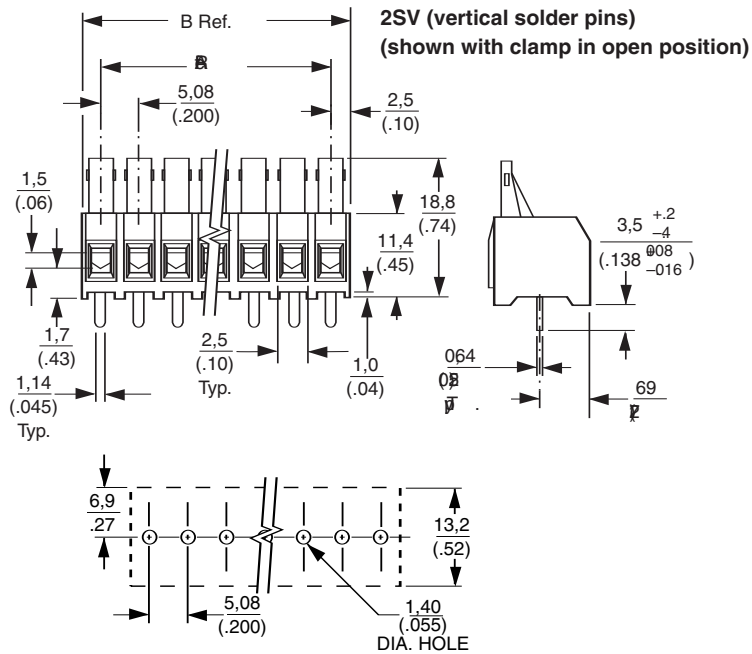
**Maximum Current**—10 A

**Operating Voltage**—150/300V (limited ratings)

**Wire Range**—18-22 AWG

#### Environmental Properties

**Max. Operating Temperature**—130°C [266°F]



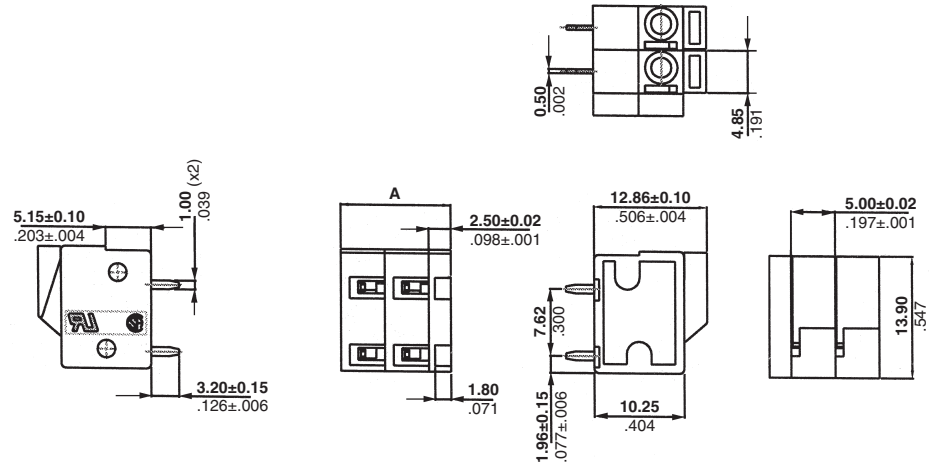
No. of Positions	Dimensions		Part Number	Catalog Number
	A	B		
2	0.2 [5.1]	0.4 [10.2]	1437671-1	2SV-02
3	0.4 [10.2]	0.6 [15.2]	1437671-4	2SV-03
4	0.6 [15.2]	0.8 [20.3]	1437671-6	2SV-04
5	0.8 [20.3]	1.0 [25.4]	1437671-7	2SV-05
6	1.0 [25.4]	1.2 [30.5]	1437671-9	2SV-06
7	1.2 [30.5]	1.4 [35.6]	1-1437671-0	2SV-07
8	1.4 [35.6]	1.6 [40.6]	1-1437671-1	2SV-08
9	1.6 [40.6]	1.8 [45.7]	1-1437671-2	2SV-09
10	1.8 [45.7]	2.0 [50.8]	1-1437671-3	2SV-10
11	2.0 [50.8]	2.2 [55.9]	1-1437671-4	2SV-11
12	2.2 [55.9]	2.4 [61.0]	1-1437671-5	2SV-12
13	2.4 [61.0]	2.6 [66.0]	1-1437671-6	2SV-13
14	2.6 [66.0]	2.8 [71.1]	1-1437671-9	2SV-14
15	2.8 [71.1]	3.0 [76.2]	2-1437671-0	2SV-15
16	3.0 [76.2]	3.2 [81.3]	2-1437671-1	2SV-16

**Note:** All part numbers are RoHS Compliant.

**Screwless, Side Wire Entry Connectors**

**Board Mount Screwless,  
5.0 mm Pitch,  
Side Wire Entry,  
Terminal Block  
Color – Green**

**UL Rating – 300 V, 10 A  
14-22 AWG**

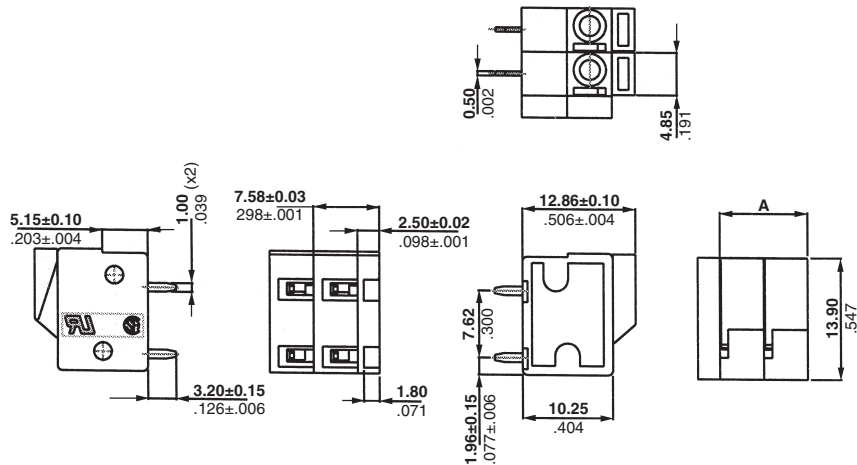


No. of Positions	Dim. A	Part Numbers
2	12.50 [.492]	1776261-2
3	17.50 [.689]	1776261-3
4	22.50 [.886]	1776261-4
5	27.50 [1.083]	1776261-5
6	32.50 [1.280]	1776261-6
7	37.50 [1.476]	1776261-7
8	42.50 [1.673]	1776261-8
9	47.50 [1.870]	1776261-9
10	52.20 [2.055]	1-1776261-0
11	57.50 [2.264]	1-1776261-1
12	62.50 [2.461]	1-1776261-2

Wave solder process capable to 265°C [509°F] for 10 seconds

**Board Mount Screwless,  
5.08 mm Pitch,  
Side Wire Entry,  
Terminal Block  
Color – Green**

**UL Rating – 300 V, 10 A  
14-22 AWG**



No. of Positions	Dim. A	Part Numbers
2	10.16 [.400]	1776262-2
3	15.24 [.600]	1776262-3
4	20.32 [.800]	1776262-4
5	25.40 [1.000]	1776262-5
6	30.48 [1.200]	1776262-6
7	35.56 [1.400]	1776262-7
8	40.64 [1.600]	1776262-8
9	45.72 [1.800]	1776262-9
10	50.80 [2.000]	1-1776262-0
11	55.88 [2.200]	1-1776262-1
12	60.96 [2.400]	1-1776262-2

Wave solder process capable to 265°C [509°F] for 10 seconds

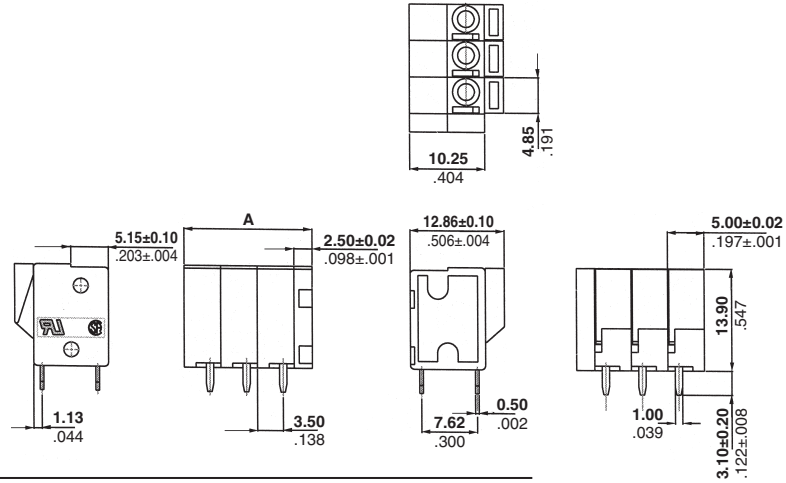


**Note:** All part numbers are RoHS Compliant.

**Screwless, Top Wire Entry Connectors**

**Board Mount Screwless,  
5.0 mm Pitch,  
Top Wire Entry,  
Terminal Block  
Color – Green**

**UL Rating – 300 V, 10 A  
14-22 AWG**

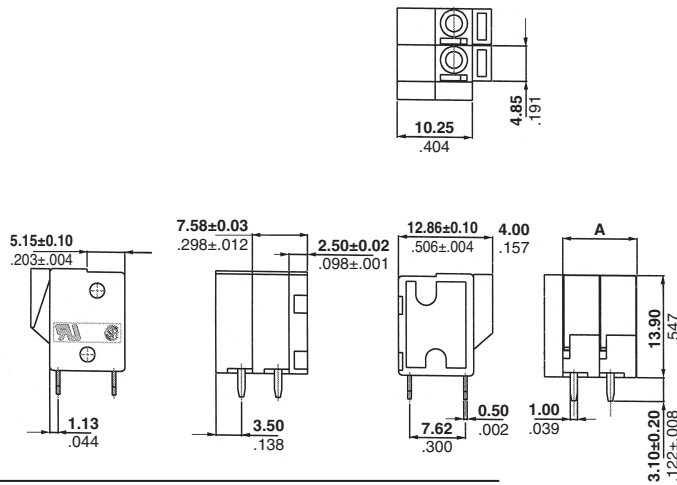


No. of Positions	Dim. A	Part Numbers
2	12.50 [.492]	1776259-2
3	17.50 [.689]	1776259-3
4	22.50 [.886]	1776259-4
5	27.50 [1.083]	1776259-5
6	32.50 [1.280]	1776259-6
7	37.50 [1.476]	1776259-7
8	42.50 [1.673]	1776259-8
9	47.50 [1.870]	1776259-9
10	52.20 [2.055]	1-1776259-0
11	57.50 [2.264]	1-1776259-1
12	62.50 [2.461]	1-1776259-2

Wave solder process capable to 265°C [509°F] for 10 seconds

**Board Mount Screwless,  
5.08 mm Pitch,  
Top Wire Entry,  
Terminal Block  
Color – Green**

**UL Rating – 300 V, 10 A  
14-22 AWG**



No. of Positions	Dim. A	Part Numbers
2	10.16 [.400]	1776260-2
3	15.24 [.600]	1776260-3
4	20.32 [.800]	1776260-4
5	25.40 [1.000]	1776260-5
6	30.48 [1.200]	1776260-6
7	35.56 [1.400]	1776260-7
8	40.64 [1.600]	1776260-8
9	45.72 [1.800]	1776260-9
10	50.80 [2.000]	1-1776260-0
11	55.88 [2.200]	1-1776260-1
12	60.96 [2.400]	1-1776260-2

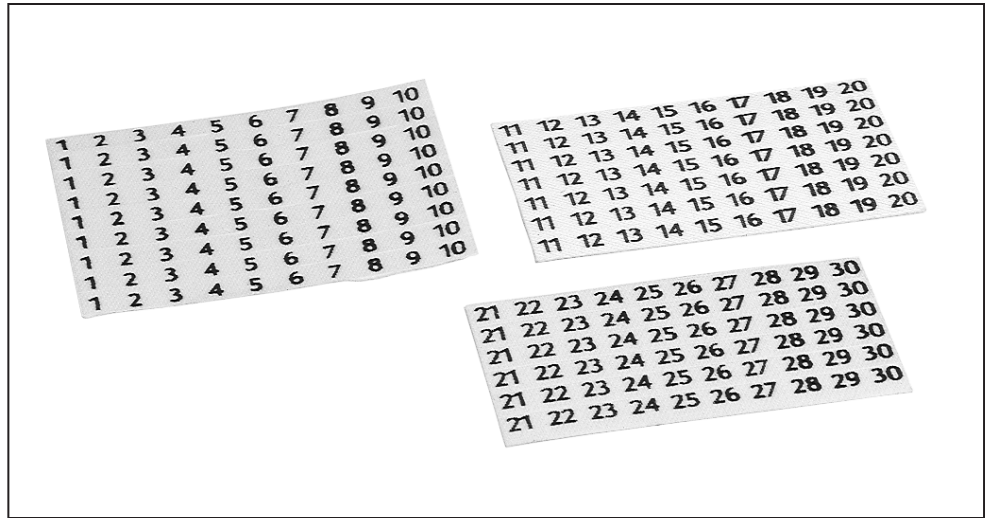
Wave solder process capable to 265°C [509°F] for 10 seconds

**Note:** All part numbers are RoHS Compliant.

**Labeling**

**Labeling**

If you need to number Terminal Block connectors, Tyco Electronics makes available an easy-to-use numbering system based on adhesive labels with proper centerline.



Eurostyle  
**1**

Centerline	Number of Positions	Numbering from...up to	Part Numbers
3.5 [.138]	10	1 ... 10	284627-1
3.5 [.138]	10	11 ... 20	284627-2
3.5 [.138]	10	21 ... 30	284627-3
3.5 [.138]	10	31 ... 40	284627-4
3.5 [.138]	10	41 ... 50	284627-5
3.5 [.138]	10	51 ... 60	284627-6
3.81 [.150]	10	1 ... 10	284628-1
3.81 [.150]	10	11 ... 20	284628-2
3.81 [.150]	10	21 ... 30	284628-3
3.81 [.150]	10	31 ... 40	284628-4
3.81 [.150]	10	41 ... 50	284628-5
3.81 [.150]	10	51 ... 60	284628-6
5.0-5.08 [.197-.200]	10	1 ... 10	282928-1
5.0-5.08 [.197-.200]	10	11 ... 20	282928-2
5.0-5.08 [.197-.200]	10	21 ... 30	282928-3
5.0-5.08 [.197-.200]	10	31 ... 40	282928-4
5.0-5.08 [.197-.200]	10	41 ... 50	282928-5
5.0-5.08 [.197-.200]	10	51 ... 60	282928-6
7.5-7.62 [.295-.300]	10	1 ... 10	282930-1
7.5-7.62 [.295-.300]	10	11 ... 20	282930-2
7.5-7.62 [.295-.300]	10	21 ... 30	282930-3
10.0-10.16 [.394-.400]	10	1 ... 10	282929-1
10.0-10.16 [.394-.400]	10	11 ... 20	282929-2
10.0-10.16 [.394-.400]	10	21 ... 30	282929-3

There are 12 adhesive labels per sheet. Please ask for customized labeling.

**Note:** All part numbers are RoHS Compliant.

**Accessories**

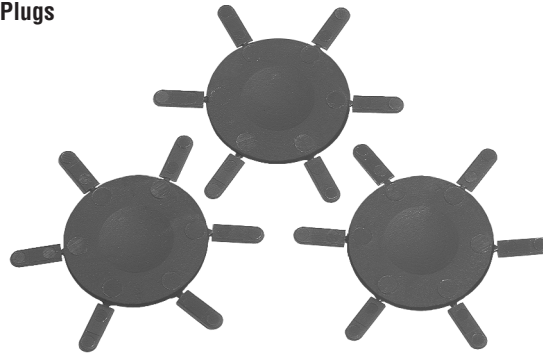
**Polarization Keys**

Polarization keys help prevent wrong mating of two-piece Terminal Block connectors (not valid for special version).

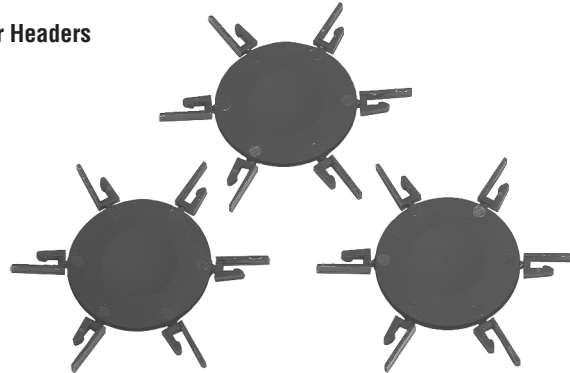
Special keys allow you to differentiate counterparts, meeting OEMs' requirement for error-free interconnections.

**Color – Red**

**For Plugs**



**For Headers**

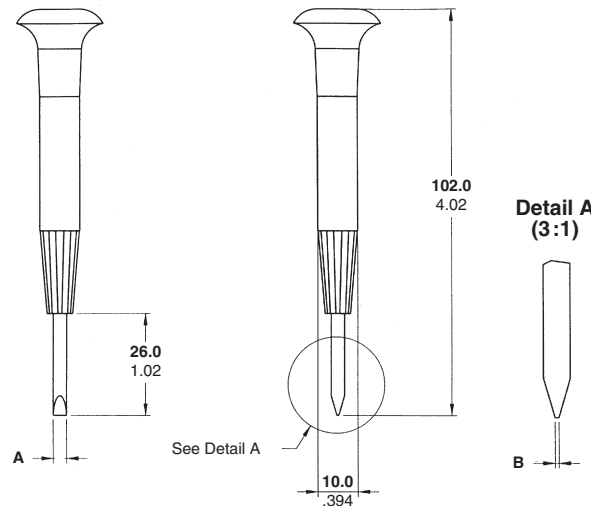


Application	Part Number*
Two-piece Terminal Block Plugs	282969-1
Two-piece Terminal Block Headers	282970-1
3.5, 3.81 mm [.138, .150] Plug	1546050-1
3.5, 3.81 mm [.138, .150] Header	1546051-1

\*Comprised of 1 Circular Carrier with 6 Keys.

**Screwdrivers**

Screwdrivers are additional accessories to facilitate the application of Terminal Block stacking connectors.

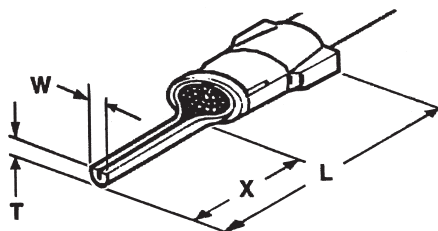


Screw	Dimensions		Part Number
	A	B	
M 1.6 [.063]	1.8 [.071]	0.3 [.012]	785730-1
M 3.0 [.118]	2.5 [.098]	0.6 [.024]	785730-2

**Accessories** (Continued)

**PLASTI-GRIP**

**Wire Pins**



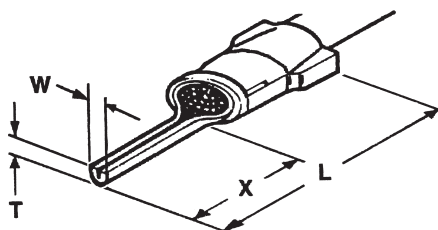
Wire Size Range AWG	Wire Size (mm <sup>2</sup> )	DIN Wire Size Range (mm <sup>2</sup> )	Insulation Diameter Max. (mm <sup>2</sup> )	Insulation Color	Dimensions				Part Number	Packaging Unit	CERTI-CRIMP Hand Tool	
					X	W	T	L				
22-16	0.25-1.60	0.35-0.50-0.75- 1.00-1.50	0.5-1.0	3.7	Red	9.9 [.390]	1.8 [.071]	1.8 [.071]	23.8 [.937]	165167-0	100	47386
16-14	1.00-2.60	1.0-1.5-2.5	>1.0-2.5	4.9	Blue	6.7 [.264]	1.8 [.071]	1.8 [.071]	20.7 [.815]	165075	100	47387-7
						9.9 [.390]	1.8 [.071]	1.8 [.071]	23.7 [.933]	165171	100	47387-7
12-10	2.70-6.60	4.0-6.0	>2.5-6.0	6.4	Yellow	9.9 [.390]	2.6 [.102]	2.6 [.102]	29.2 [1.150]	165085-0	100	59239-4

**PIDG**

**Wire Pins**

**Material and Finish**

**Pin** – Copper, tin plated  
**Insulation Sleeve** –  
Nylon



Wire Size Range AWG	Wire Size (mm <sup>2</sup> )	DIN Wire Size Range (mm <sup>2</sup> )	Insulation Diameter Max. (mm <sup>2</sup> )	Insulation Color	Dimensions				Part Number	Packaging Unit	CERTI-CRIMP Hand Tool	
					X	W	T	L				
26-22	0.10-0.40	0.14-0.20- 0.25-0.35	0.14-0.35	2.1	Yellow	6.7 [.264]	1.1 [.043]	1.1 [.043]	18.2 [.717]	165514-1	500	46121
22-16	0.25-1.60	0.35-0.50-0.75- 1.00-1.50	0.5-1.0	3.6	Red	6.7 [.264]	1.8 [.071]	1.8 [.071]	19.7 [.776]	165142-0	500	47386
						9.9 [.390]	1.9 [.075]	1.8 [.071]	22.9 [.902]	165168-0	500	47386
						6.7 [.264]	1.8 [.071]	1.8 [.071]	20.3 [.799]	165046-0	500	47387-7
16-14	1.00-2.60	1.0-1.5-2.5	>1.0-2.5	4.3	Blue	9.9 [.390]	1.8 [.071]	1.8 [.071]	23.6 [.929]	165172-0	500	47387-7
						15.2 [.598]	2.7 [.106]	2.3 [.091]	29.1 [1.146]	9-160402-2	500	47387-7
12-10	2.70-6.60	4.0-6.0	>2.5-6.0	6.4	Yellow	9.9 [.390]	2.6 [.102]	2.6 [.102]	28.5 [1.122]	165049-0	500	59239-4

**Related Product Data**

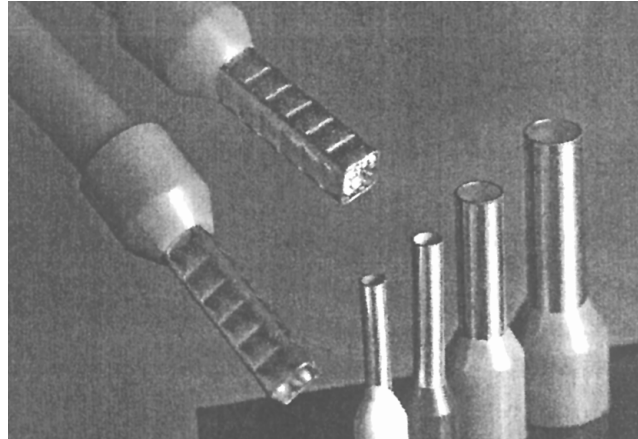
For more information on AMP  
Standard Terminals and Splices or  
Quick-Connect FASTON Receptacles  
and Tabs, request Catalog 82042.



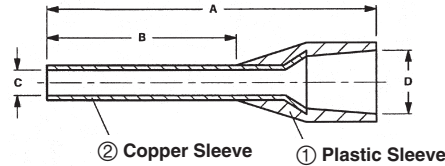
**Accessories (Continued)**

**Wire Ferrules**

These Wire Ferrules, suitable for the most common wire range of 0.5 mm<sup>2</sup> through 10.0 mm<sup>2</sup>, [20AWG-7AWG] are terminated with hand tools.

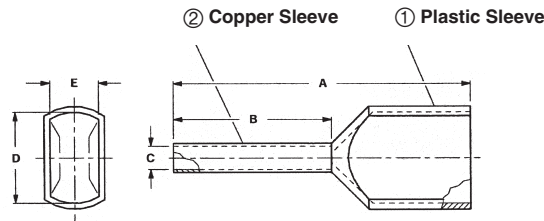


**DIN Wire Ferrules  
Tubing Form  
with Plastic Sleeve  
According to DIN 46228,  
Part 4**



Wire Size Range AWG (mm <sup>2</sup> )	Insulation Diameter Max	Version	Insulation Color	Dimensions				Strip Length	Part Number	Packaging Unit	
				A	B	C	D				
20	0.50	2.3 [.091]	Normal	White	14.0 [.551]	8.0 [.315]	1.0 [.039]	2.6 [.102]	10.0 [.394]	966067-2	500
18	0.75	2.5 [.098]	Normal	Grey	14.0 [.551]	8.0 [.315]	1.2 [.047]	2.8 [.110]	10.0 [.394]	966067-5	500
17	1.00	2.7 [.106]	Normal	Red	14.0 [.551]	8.0 [.315]	1.4 [.055]	3.0 [.118]	10.0 [.394]	966067-9	500
16	1.50	3.2 [.126]	Normal	Black	14.0 [.551]	8.0 [.315]	1.7 [.067]	3.5 [.138]	10.0 [.394]	1-966067-2	500
14	2.50	3.9 [.154]	Normal	Blue	14.0 [.551]	8.0 [.315]	2.2 [.087]	4.2 [.165]	10.0 [.394]	1-966067-6	500
11	4.00	4.5 [.177]	Normal	Grey	17.0 [.669]	10.0 [.394]	2.8 [.110]	4.8 [.189]	12.0 [.472]	1-966067-9	500
10	6.00	6.0 [.236]	Normal	Yellow	20.0 [.787]	12.0 [.472]	3.5 [.138]	6.3 [.248]	14.0 [.551]	2-966067-2	100
7	10.00	7.3 [.287]	Normal	Red	22.0 [.866]	12.0 [.472]	4.5 [.177]	7.6 [.299]	15.0 [.591]	2-966067-4	100

**Double Wire Ferrules  
Tubing Form  
with Plastic Sleeve,  
According to DIN 46228,  
Part 4**



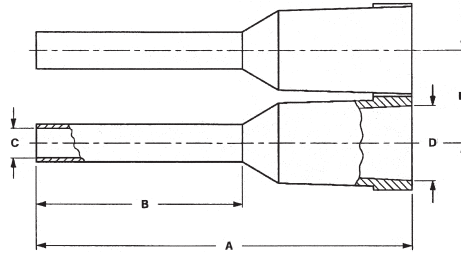
Wire Size Range AWG (mm <sup>2</sup> )	Insulation Diameter Max	Version	Insulation Color	Dimensions					Strip Length	Part Number	Packaging Unit	
				A	B	C	D	E				
2 x 20	2 x 0.50	2.1 [.083]	Normal	White	15.0 [.591]	8.0 [.315]	1.40 [.055]	4.7 [.185]	2.5 [.098]	10.0 [.394]	966144-1	500
2 x 18	2 x 0.75	2.2 [.087]	Normal	Grey	15.0 [.591]	8.0 [.315]	1.70 [.067]	5.0 [.197]	2.8 [.110]	10.0 [.394]	966144-2	500
2 x 18	2 x 0.75	2.2 [.087]	Long	Grey	17.0 [.669]	10.0 [.394]	1.70 [.067]	5.0 [.197]	2.8 [.110]	12.0 [.472]	966144-3	500
2 x 17	2 x 1.00	2.5 [.098]	Normal	Red	15.0 [.591]	8.0 [.315]	1.95 [.077]	5.4 [.213]	3.4 [.134]	10.0 [.394]	966144-4	500
2 x 16	2 x 1.50	3.0 [.118]	Normal	Black	16.0 [.630]	8.0 [.315]	2.20 [.087]	6.6 [.260]	3.6 [.142]	10.0 [.394]	966144-6	500
2 x 14	2 x 2.50	3.6 [.142]	Normal	Blue	18.5 [.728]	10.0 [.394]	2.80 [.110]	7.8 [.307]	4.2 [.165]	12.0 [.472]	966144-8	250
2 x 11	2 x 4.00	4.1 [.161]	Normal	Grey	23.0 [.906]	12.0 [.472]	3.70 [.146]	8.8 [.346]	4.9 [.193]	14.0 [.551]	1-966144-0	100

**Note:** All part numbers are RoHS Compliant.

**Accessories** (Continued)

**DIN Tubular End Sleeve with Plastic Sleeve**

According to DIN 46228, Part 4, in Strip Form



Wire Size Range AWG (mm <sup>2</sup> )	Insulation Diameter Max.	Insulation Color	Dimensions					Strip Length	Part Number	Packaging Unit
			A	B	C	D	E			
20 0.50	2.4 [.094]	White	14.5 [.571]	8.0 [.315]	1.1 [.043]	2.8 [.110]	3.5 [.138]	10.0 [.394]	1241000-1	1,000
18 0.75	2.6 [.102]	Grey	14.5 [.571]	8.0 [.315]	1.3 [.051]	2.9 [.114]	3.5 [.138]	10.0 [.394]	1241001-1	1,000
17 1.00	2.9 [.114]	Red	14.5 [.571]	8.0 [.315]	1.5 [.059]	3.2 [.126]	3.9 [.154]	10.0 [.394]	1241002-1	1,000
16 1.50	3.2 [.126]	Black	14.5 [.571]	8.0 [.315]	1.8 [.071]	3.4 [.134]	4.1 [.161]	10.0 [.394]	1241003-1	1,000
14 2.50	4.0 [.157]	Blue	14.5 [.571]	8.0 [.315]	2.3 [.091]	4.3 [.169]	5.0 [.197]	10.0 [.394]	1241004-1	500
14 2.50	4.0 [.157]	Grey	14.5 [.571]	8.0 [.315]	2.3 [.091]	4.3 [.169]	5.0 [.197]	10.0 [.394]	1241004-2	500

**Application Tooling**

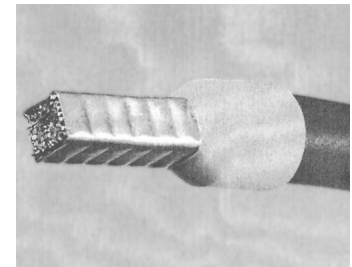
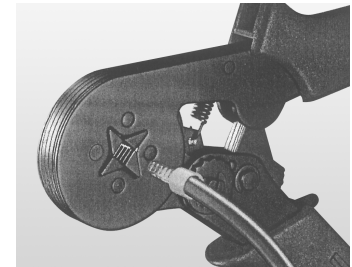
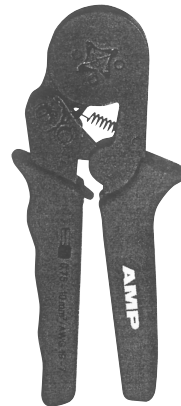
**Product Facts**

- Self-adjusting rectangular crimp profile for DIN-style crimp
- Only two hand tools are needed to crimp wire sizes from 0.14 mm<sup>2</sup> through 10.0 mm<sup>2</sup>
- Adjustable crimp pressure
- Crimp control

**Crimp Hand Tool for Wire Ferrules**

This newly designed self-adjusting die set offers a time-saving crimping process and uniform crimp. A ratchet system provides for a complete crimp cycle before releasing. The crimp is according to DIN specification.

The tool handles are contoured for comfort.



**Loose Piece Tooling**

Wire Size Range (mm <sup>2</sup> )	Part Number
0.14-6.00	539660-1
0.75-10.0	539661-1

**Strip Form Tooling**

End Sleeve Part Number	Applicator Part No.		
	CLS IV+ Lead Maker	K Terminator	G Terminator
1241000-1	—*	—*	—*
1241001-1	—*	—*	—*
1241002-2	—*	—*	—*
1241003-1	—*	—*	—*
1241004-1	—*	—*	—*
1241004-2	—*	—*	—*

\*Contact the Tooling Assistance Center for Part Number

**Note:** All part numbers  
are RoHS Compliant.

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## Engineering Notes

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**Note:** All part numbers are RoHS Compliant.

## Barrier Strip Selector Chart

### Tri-Barrier

	0.250"	0.325"	0.325"	0.375"	0.375"	0.375"	0.375"	0.4375"
<b>Series</b>	#3	#4	1546927	#6	1546833	BC6	MB6	#8
<b>Pitch (in)</b>	0.250"	0.325"	0.325"	0.375"	0.375"	0.375"	0.375"	0.4375"
<b>Circuits</b>	2-32	2-30	2-8	2-30	2-8	2-16	4-40	2-26
<b>Max Current</b>	10A	25A	15A	25A	15A	20A	25A	30A
<b>Max Voltage</b>	300V	300V	300V	600V	300V	300V	300V	600V
<b>Wire Range (AWG)</b>	18-22	12-22	14-22	12-22	14-22	12-22	12-22	10-18
<b>Description</b>	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
<b>Page</b>	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"
<b>Series</b>	1546657	4DB	1546734	JC6	NC6	SSB7
<b>Pitch (in)</b>	.250"	0.325"	0.325"	0.375"	0.375"	0.4375"
<b>Circuits</b>	2-30	2-30	2-16	2-16	2-30	2-27
<b>Max Current</b>	10A	20A	20A	20A	20A	20A
<b>Max Voltage</b>	300V	150V/ 300V	300V	300V	300V	600V
<b>Wire Range (AWG)</b>	16-30	14-22	12-22	12-22	12-22	12-26
<b>Description</b>	Molded to length	Molded to length	High Rise, Molded to length	Molded to length	Low Profile version, Molded to length	Cut to length
<b>Page</b>	141-142	143-144	145-146	147-148	149-150	151-154

**Note:** All part numbers are RoHS Compliant.

## Barrier Strip Selector Chart (Continued)

### Double Row

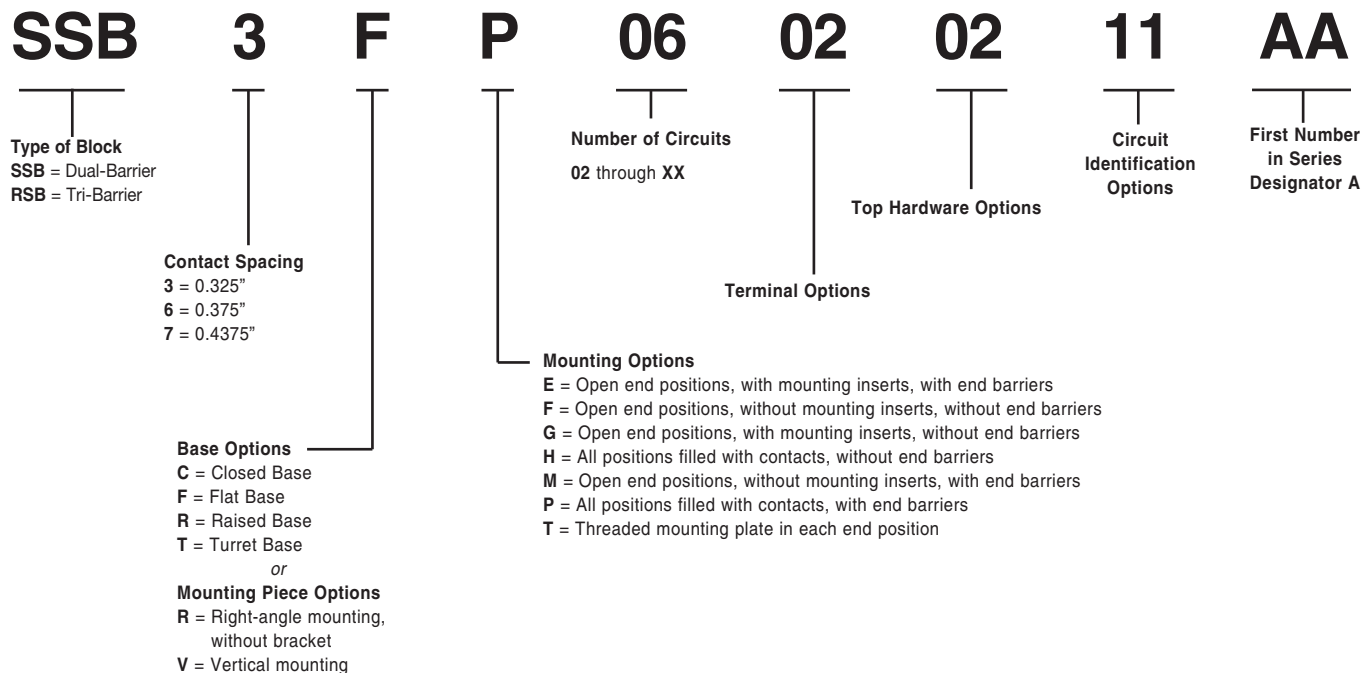
	0.374"	0.433"	0.437"	0.563"	
<b>Series</b>	1546306 1546307	1546481 1546477	1546670 1546671	1546310 1546311	1776544 1986158
<b>Pitch (in)</b>	0.374"	0.433"	0.437"	0.563"	0.563"
<b>Circuits</b>	2-30	2-26	2-26	2-18	2-18
<b>Max Current</b>	20A	25A	25A	30A	30A
<b>Max Voltage</b>	300V	300V	300V	300V	600V
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

### Sockets and Barrier Strips



	0.325"	0.325"	0.325"	0.375"	0.375"
<b>Series</b>	USB	RSB3	SSB3	RSB6B	RSB6
<b>Pitch (in)</b>	0.325"	0.325"	0.325"	0.375"	0.375"
<b>Circuits</b>	2-12	2-36	2-36	2-10	2-36
<b>Max Current</b>	10A	15A	15A	10A	20A
<b>Max Voltage</b>	300V	300V	300V	300V	300V
<b>Wire Range (AWG)</b>	n/a	14-26	14-26	n/a	12-26
<b>Description</b>	For Series RSB3 & SSB3	Cut to length	Cut to length	For Series RSB6	Cut to length
<b>Page</b>	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 = . . . † 3 5 †  
16 = † 5 3 † . . .

*"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.



**Note:** All part numbers are RoHS Compliant.

**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

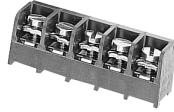
**Note:** Some catalog number combinations are not valid. Check appropriate catalog pages before ordering. Catalog numbering code applies only to the catalog numbers on pages 119-124, 127-129, 134-136.

## Barrier Strips – Overview

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

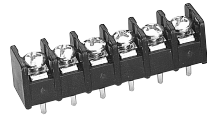
#### Tri-Barrier

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

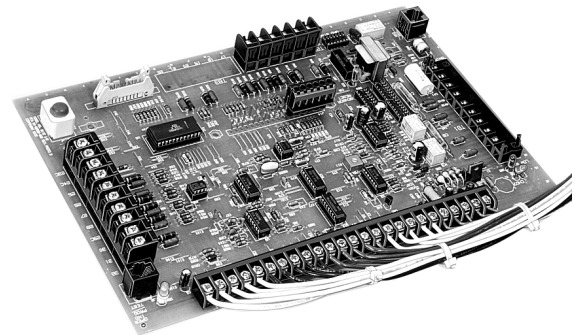
Tyco Electronics Corporation has been known for its plating, especially on the tin-plated components, and has maintained stringent plating specifications to provide a better performing, more reliable product. (Terminals meet or exceed Tyco Electronics Specification 109-11-1.)

#### 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.



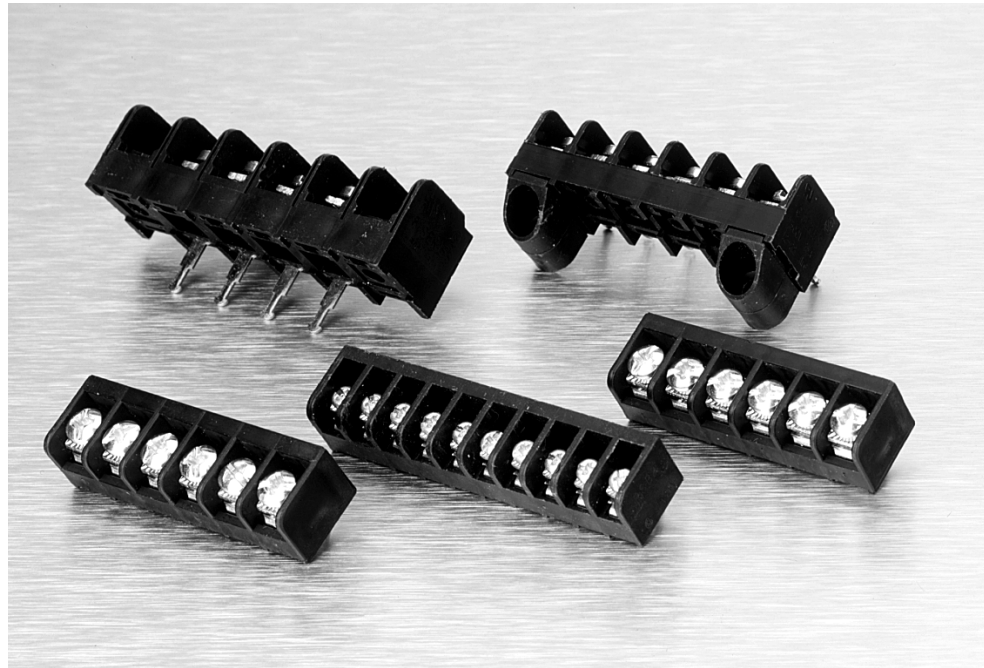
**Tri-Barrier Strips**

**Product Facts**

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

**Design Advantages**

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



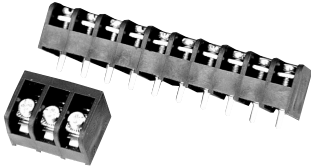
Tri-Barrier blocks help contain stray or frayed wire ends. This helps prevent electrical shorts — not only between positions on the same block, but also between other components immediately adjacent to the block. With today’s high-density PCB designs, this has become an increasingly important feature.

**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**

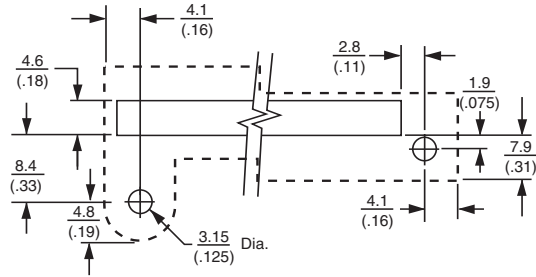
**Operating Temperature Range**—  
105°C [221°F] max.

**Circuit Identification**—See page 179

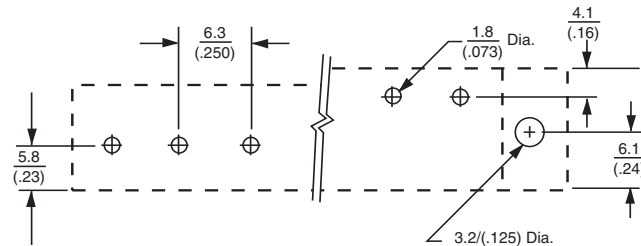
**Hardware Options**

**TC3**—Safety cover, see page 174

**J3**—Jumper, see page 177



RIGHT ANGLE MOUNTING PANEL LAYOUT VERTICAL



RIGHT ANGLE PRINTED CIRCUIT LAYOUT CENTER

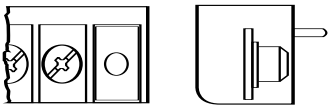
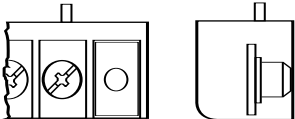

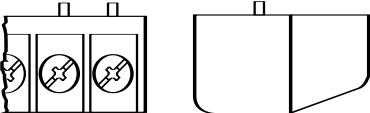
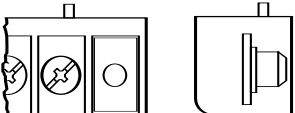
**Note:** All part numbers are RoHS Compliant.

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

**Ordering Information**

**3 PCV - 04 - 006**

- A** Thread Size Spacing  
3 = #m3 on .250" Centers
- 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
- C** No. of Circuits (Not Positions)  
02 through 32
- D** Modifier  
Use table below.

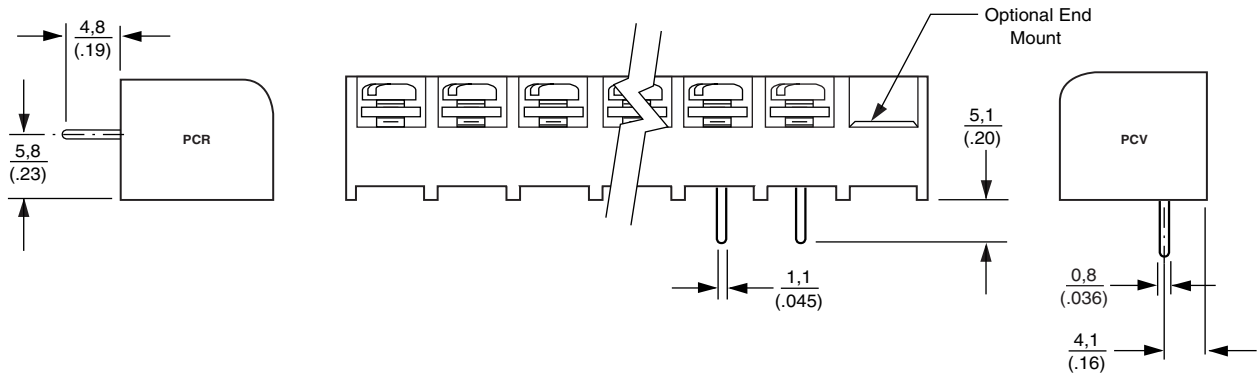
Terminal Style	Modifier Phil-slot Head	Screw Style	Mounting Construction
PCV	006	Wire Clamp	No Mounting
	008	Wire Clamp	
PCR	006	Wire Clamp	No Mounting
	008	Wire Clamp	
STV WWV	006	Wire Clamp	
	008	Wire Clamp	No Mounting
STR	006	Wire Clamp	
	008	Wire Clamp	



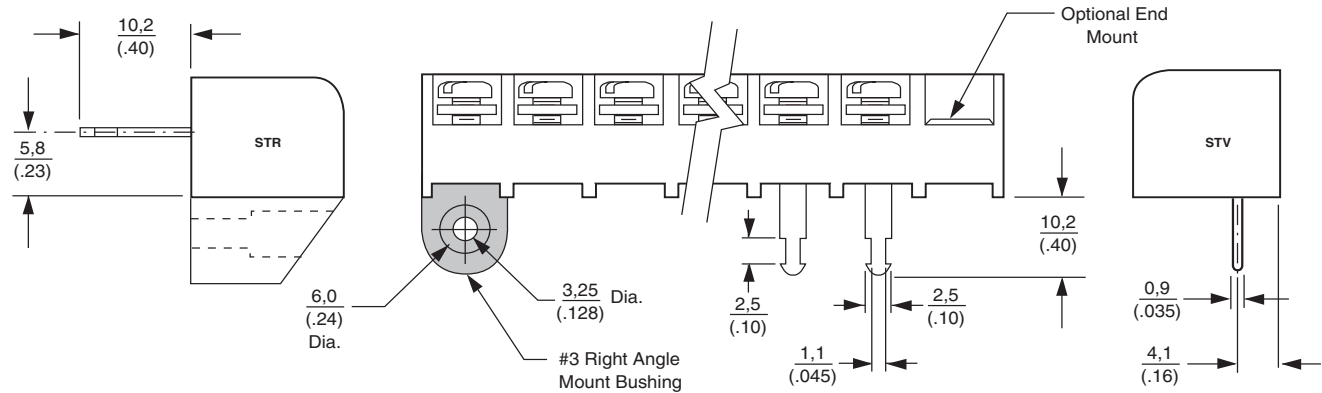
**Note:** All part numbers are RoHS Compliant.

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

**Printed Circuit Pin**

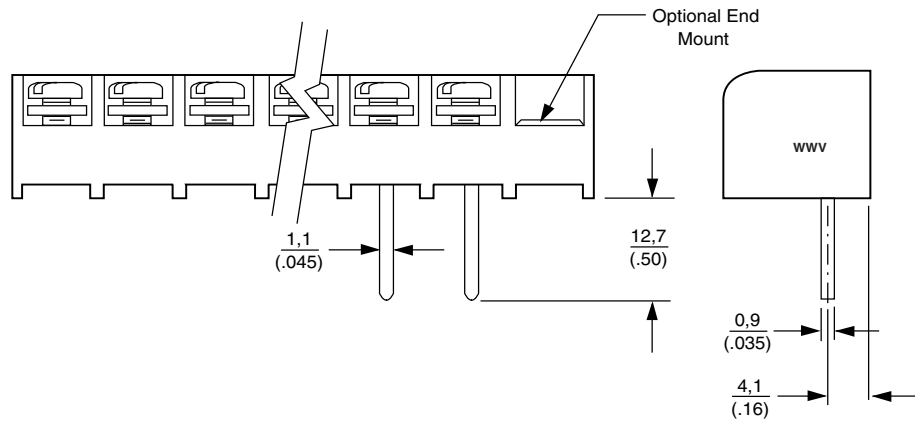


**Solder Turret**



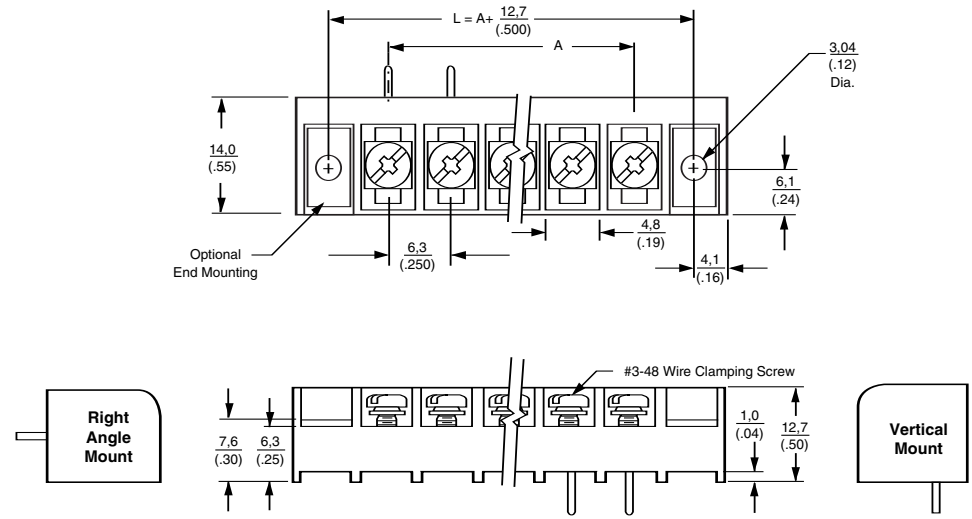
**Wire Wrap**

#3WWR not available



**Note:** All part numbers are RoHS Compliant.

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



No. of Positions	Dim. A	No. of Positions	Dim. A
2	0.25 [6.3]	18	4.25 [107.9]
3	0.50 [12.7]	19	4.50 [114.3]
4	0.75 [19.0]	20	4.75 [120.6]
5	1.00 [25.4]	21	5.00 [127.0]
6	1.25 [31.7]	22	5.25 [133.3]
7	1.50 [38.1]	23	5.50 [139.7]
8	1.75 [44.4]	24	5.75 [146.0]
9	2.00 [50.8]	25	6.00 [152.4]
10	2.25 [57.1]	26	6.25 [158.8]
11	2.50 [63.5]	27	6.50 [165.1]
12	2.75 [69.8]	28	6.75 [171.5]
13	3.00 [76.2]	29	7.00 [177.8]
14	3.25 [82.5]	30	7.25 [184.2]
15	3.50 [88.9]	31	7.50 [190.5]
16	3.75 [95.2]	32	7.75 [196.9]
17	4.00 [101.6]		



Barrier Strips

2



**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

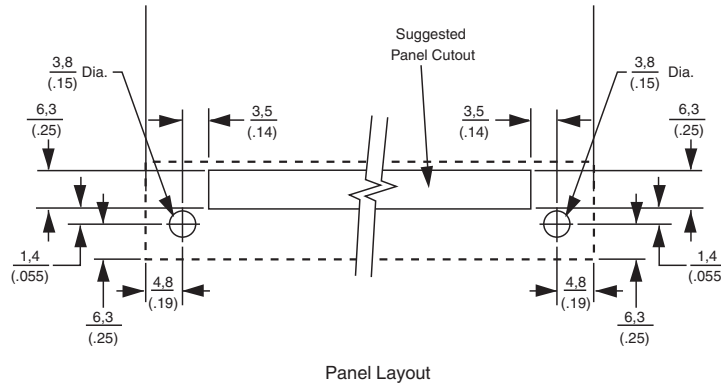
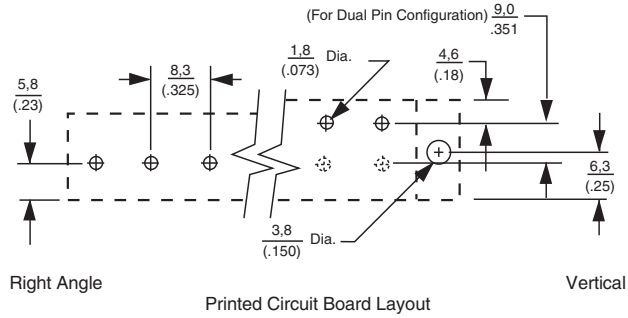
**Hardware Options**

**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



**Note:** All part numbers are RoHS Compliant.

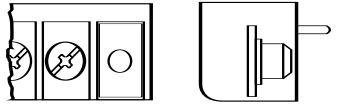
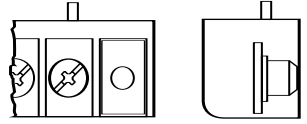
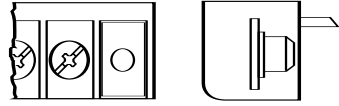
**0.325" [8.26] Pitch, Series #4, Tri-Barrier (Continued)**

**Ordering Information**

**4 PCV-04-006**

**A B C D**

- A Screw Size Spacing**  
4 = #4-40 on .325" Centers
- B Terminal Style**  
  - DBL** = Double Printed Circuit Pin
  - PCR** = Printed Circuit, Right Angle
  - PCV** = Printed Circuit Pin, Vertical
  - WWV** = Solderless Wire Wrap, Vertical
- C No. of Circuits (Not Positions)**  
02 through 30
- 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

Barrier Strips  
**2**



**Note:** All part numbers are RoHS Compliant.

**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	No. of Positions	Dim. A
2	(0.325) 8,2	17	(5.20) 132,1
3	(0.65) 16,5	18	(5.52) 140,3
4	(0.97) 24,7	19	(5.85) 148,6
5	(1.30) 33,0	20	(6.17) 156,8
6	(1.62) 41,3	21	(6.50) 165,1
7	(1.95) 49,5	22	(6.82) 173,3
8	(2.27) 57,8	23	(7.15) 181,6
9	(2.60) 66,0	24	(7.47) 189,9
10	(2.92) 74,3	25	(7.80) 198,1
11	(3.25) 82,5	26	(8.13) 206,4
12	(3.57) 90,8	27	(8.45) 214,6
13	(3.90) 99,1	28	(8.78) 222,9
14	(4.22) 107,3	29	(9.10) 231,1
15	(4.55) 115,6	30	(9.43) 239,4
16	(4.87) 123,8		



**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

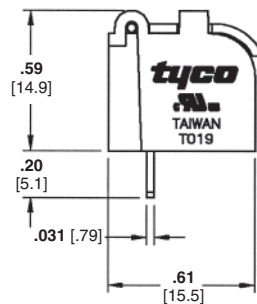
**Voltage Rating**—300 VAC/DC

**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



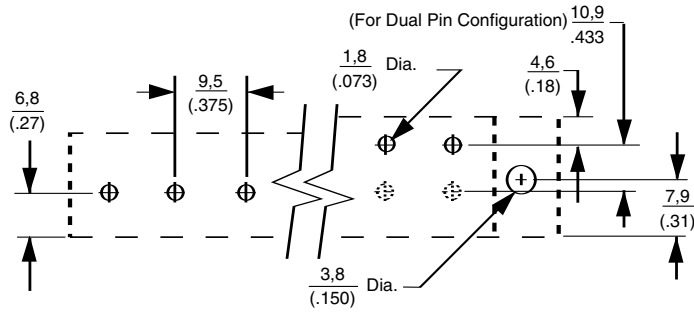
No. of Position*	Dimensions		Part Numbers
	A	B	
2	0.697 [17.7]	0.325 [8.3]	1546927-2
3	1.022 [26.0]	0.650 [16.5]	1546927-3
4	1.347 [34.2]	0.975 [24.8]	1546927-4
5	1.672 [42.5]	1.300 [33.0]	1546927-5
6	1.997 [50.7]	1.625 [41.3]	1546927-6
7	2.322 [59.0]	1.950 [49.5]	1546927-7
8	2.647 [67.2]	2.275 [57.8]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

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

**Note:** All part numbers are RoHS Compliant.

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

**6PCV-03-006 & 6PCV-06-006**



Right Angle  
Printed Circuit Board Layout

**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

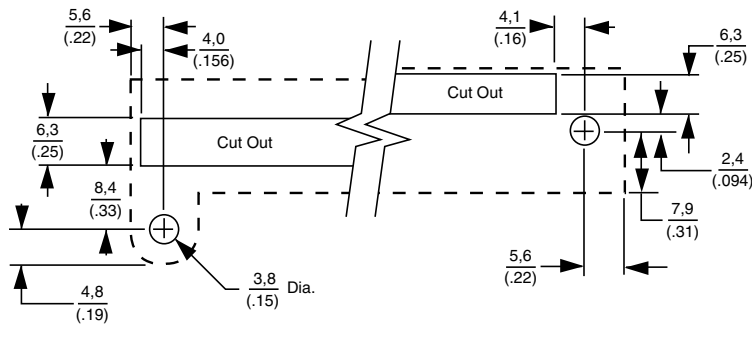
**TC6**—Safety covers, see page 174

**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  
Mounting Panel Layout

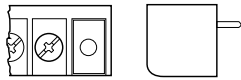
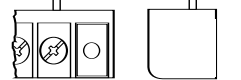
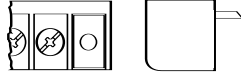
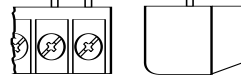



**0.375" [9.53] Pitch, Series #6, Tri-Barrier (Continued)**

# 6 PCV-04-006

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

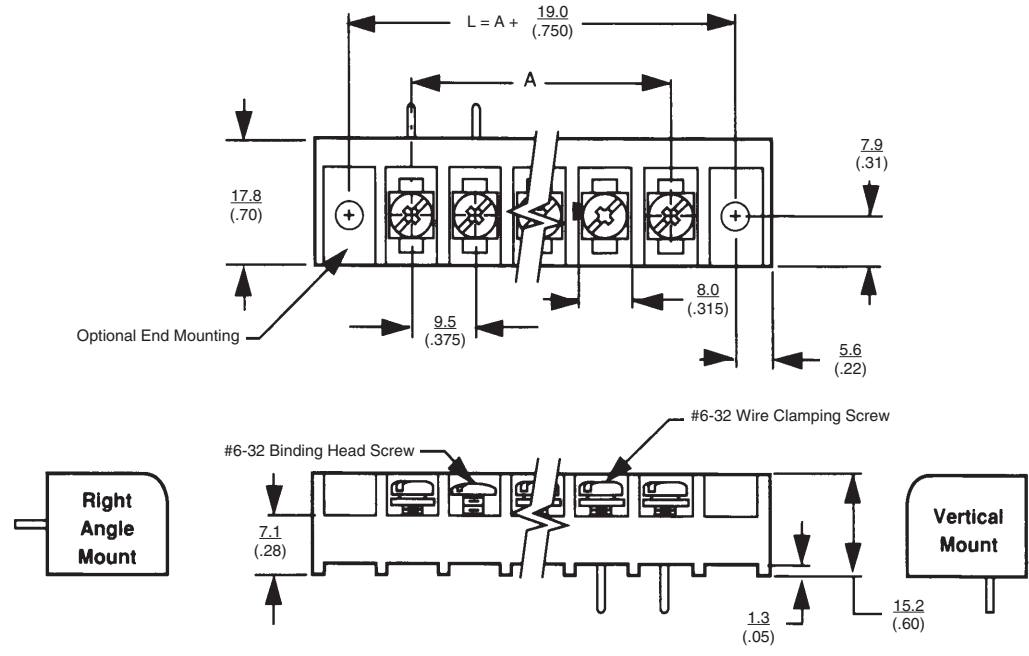
- A Screw Size Spacing**  
6 = #6-32 on .375" Centers
- B Terminal Style**  
**DBL** = Double Printed Circuit Pin  
**PCR** = Printed Circuit, Right Angle  
**PCV** = Printed Circuit Pin, Vertical  
**STR** = Solder Turret, Right Angle  
**STV** = Solder Turret, Vertical  
**TBV** = Non Feed Thru  
**WWR** = Solderless Wire Wrap, Right Angle  
**WWV** = Solderless Wire Wrap, Vertical
- C No. of Circuits (Not positions)**  
02 through 30
- 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 WWV	006	Wire Clamp	
	008	Wire Clamp	
STR WWR	006	Wire Clamp	
	008	Wire Clamp	
TBV	006	Wire Clamp	



**Note:** All part numbers are RoHS Compliant.

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



No. of Positions	Dim. A	No. of Positions	Dim. A
2	0.375 [9.5]	17	6.00 [152.4]
3	0.75 [19.1]	18	6.37 [161.9]
4	1.12 [28.6]	19	6.75 [171.4]
5	1.50 [38.1]	20	7.12 [181.9]
6	1.87 [47.6]	21	7.50 [190.5]
7	2.25 [57.1]	22	7.87 [200.0]
8	2.62 [66.7]	23	8.25 [209.5]
9	3.00 [76.2]	24	8.62 [219.1]
10	3.37 [85.7]	25	9.00 [228.6]
11	3.75 [95.2]	26	9.38 [238.1]
12	4.12 [104.8]	27	9.75 [247.7]
13	4.50 [114.3]	28	10.13 [257.2]
14	4.87 [123.8]	29	10.50 [266.7]
15	5.25 [133.3]	30	10.88 [276.2]
16	5.62 [142.9]		

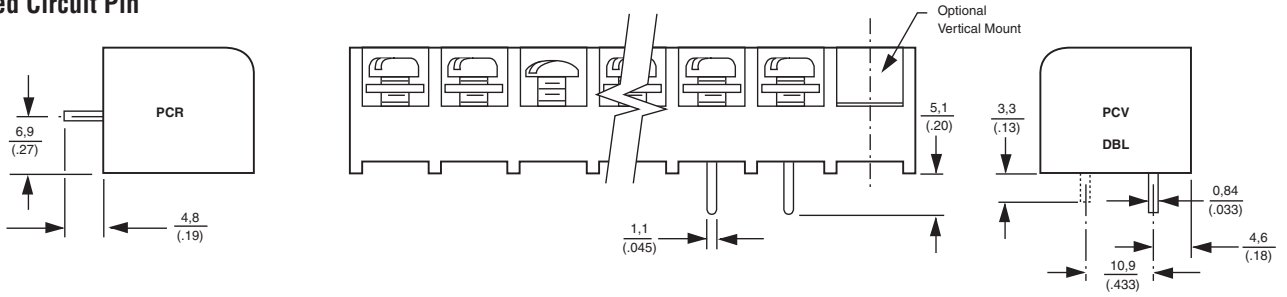




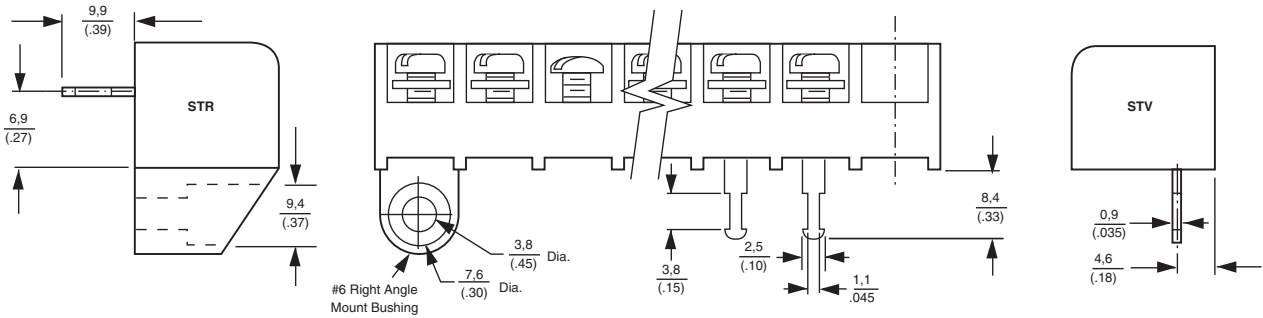
**Note:** All part numbers are RoHS Compliant.

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

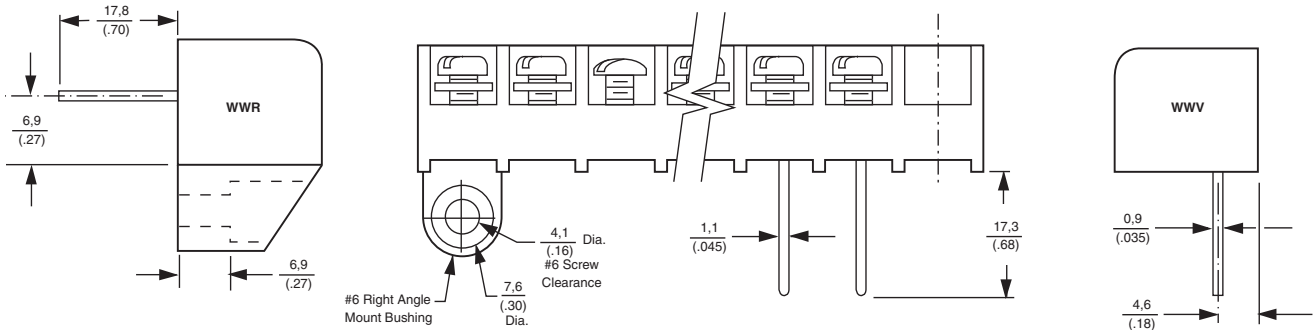
**Printed Circuit Pin**



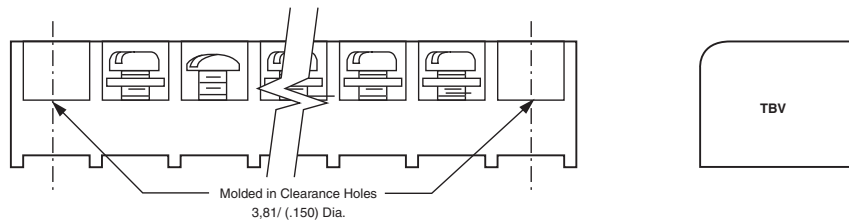
**Solder Turret**



**Wire Wrap**



**Non-Fed Thru**



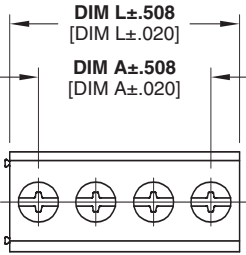
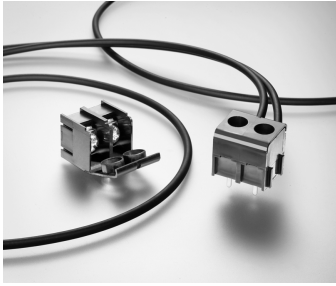
Barrier Strips

2



**Note:** All part numbers are RoHS Compliant.

**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

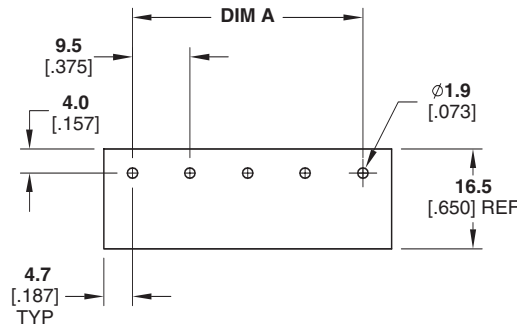
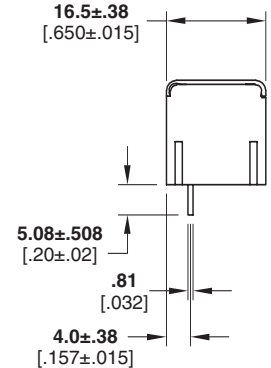
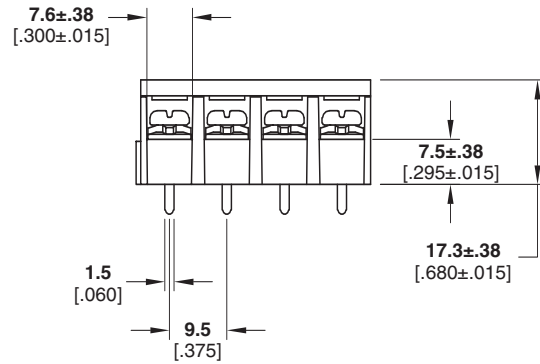
\*Evaluated to U.S. and Canadian Standards.

**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

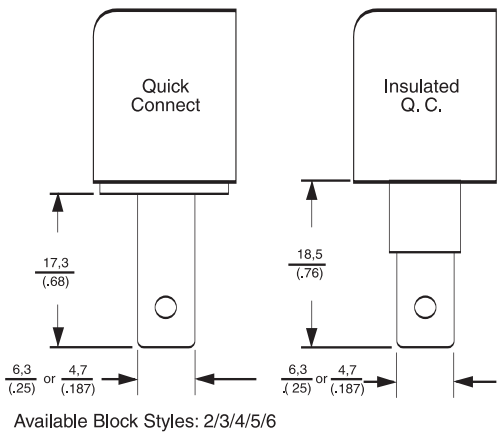
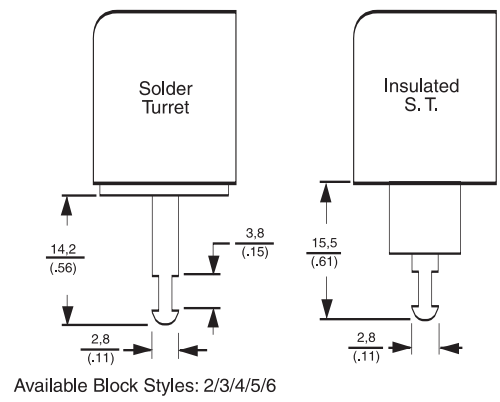
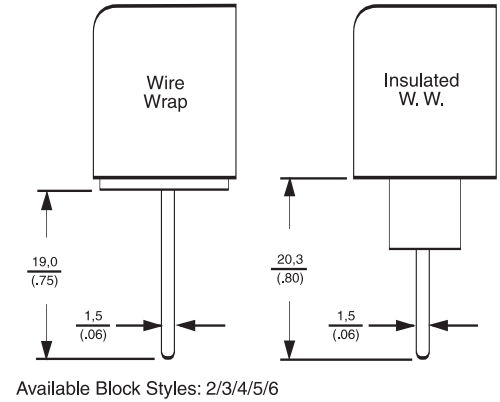
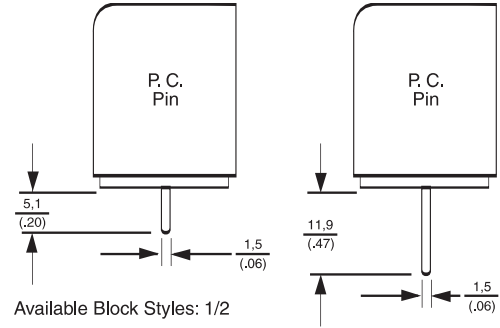
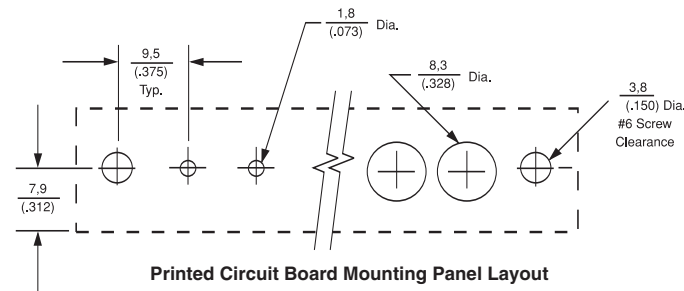
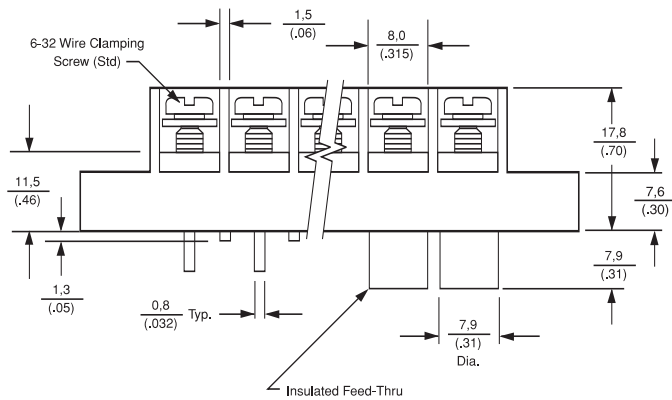
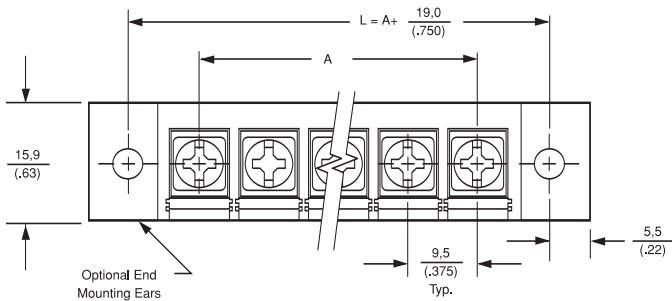


**Note:** All part numbers are RoHS Compliant.

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

No. of Positions	Dim. A
2	.375 [9.5]
3	.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]

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



## 0.375" [9.53] Pitch, Series BC6

### Ordering Information



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

#### 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" [.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 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

#### 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

**Note:** All part numbers are RoHS Compliant.

**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

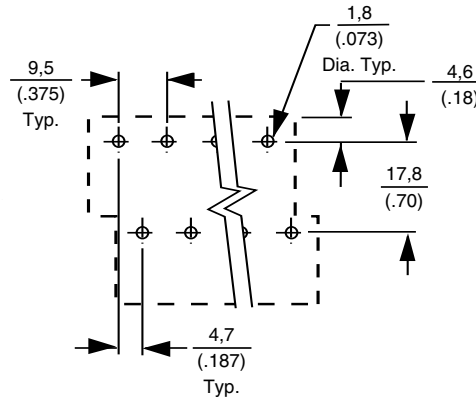
**Wire Range**—12-22 AWG

**Environmental Properties**

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

**Hardware Options**

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



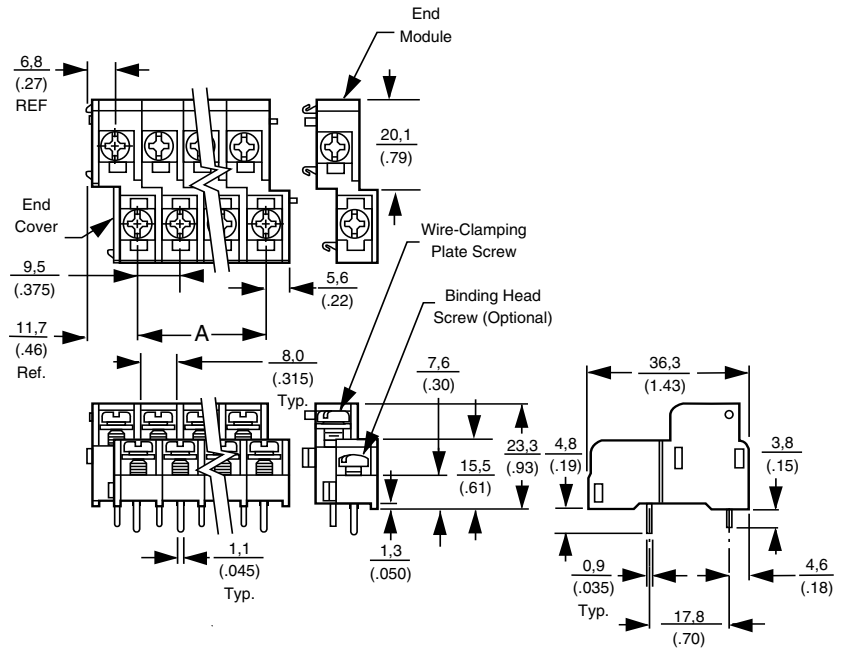
Printed Circuit Board Layout

**ORDERING INFORMATION**

**MB6 - P1 08 - 04**

A    
 B    
 C    
 D

- 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	No. of Positions	Dim. A
4	0.375 [9.5]	24	4.125 [104.8]
6	0.750 [19.1]	26	4.500 [114.3]
8	1.125 [28.6]	28	4.875 [123.8]
10	1.500 [38.1]	30	5.250 [133.3]
12	1.875 [47.6]	32	5.625 [142.9]
14	2.250 [57.1]	34	6.000 [152.4]
16	2.625 [66.7]	36	6.375 [161.9]
18	3.000 [76.2]	38	6.750 [171.4]
20	3.375 [85.7]	*40	7.125 [181.0]
22	3.750 [95.2]		

\* Longer lengths available. Please consult Technical Support.



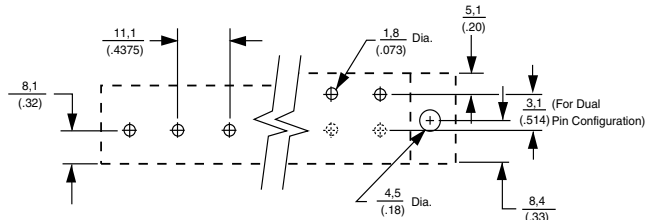
Barrier Strips

2

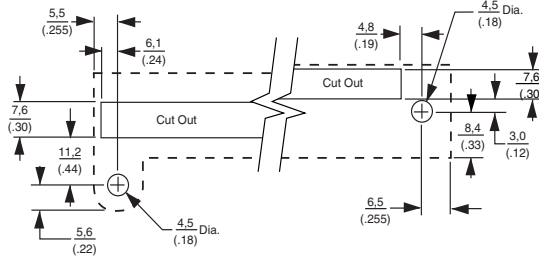
**Note:** All part numbers are RoHS Compliant.

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

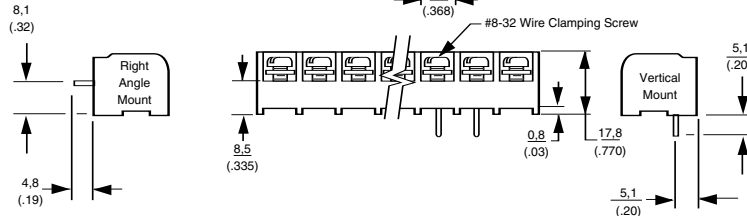
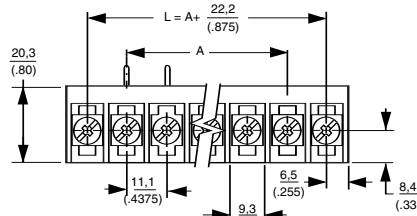
**#8 Series Tri-Barriers**



**RIGHT ANGLE VERTICAL PRINTED CIRCUIT BOARD LAYOUT**



**RIGHT ANGLE VERTICAL MOUNTING PANEL LAYOUT**



**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

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]



**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
- 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  
**WWV** = Solderless Wire Wrap, Vertical
- C No. of Circuits** (Not positions)  
02 through 26
- 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	
	007	Binding Head	
	008	Wire Clamp	
	009	Binding Head	
QCV	006	Wire Clamp	
STV			
WWV			
QCR	006	Wire Clamp	
STR			
WWR	008	Wire Clamp	
TBV	006	Wire Clamp	

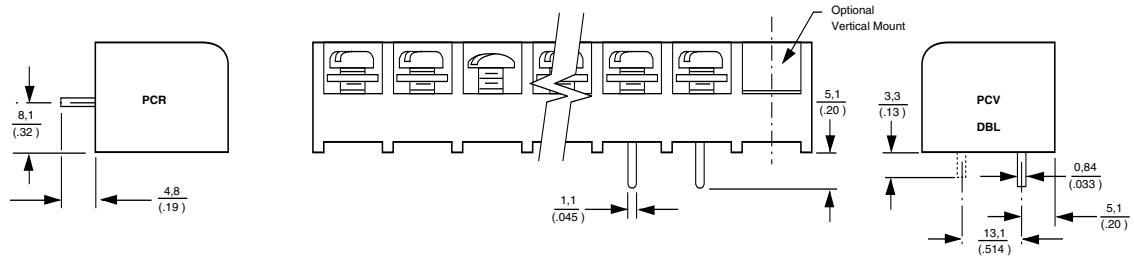




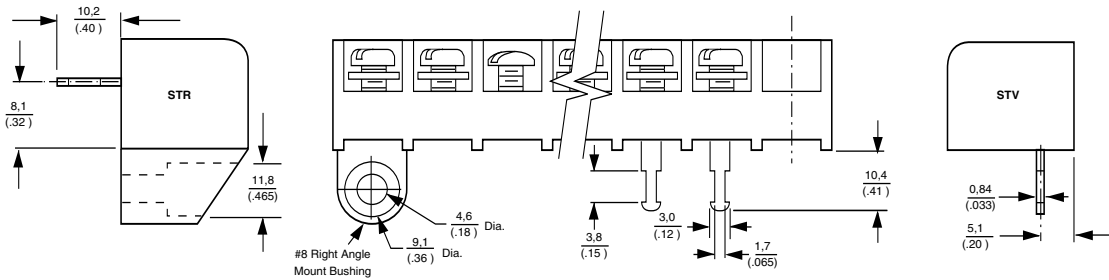
**Note:** All part numbers are RoHS Compliant.

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

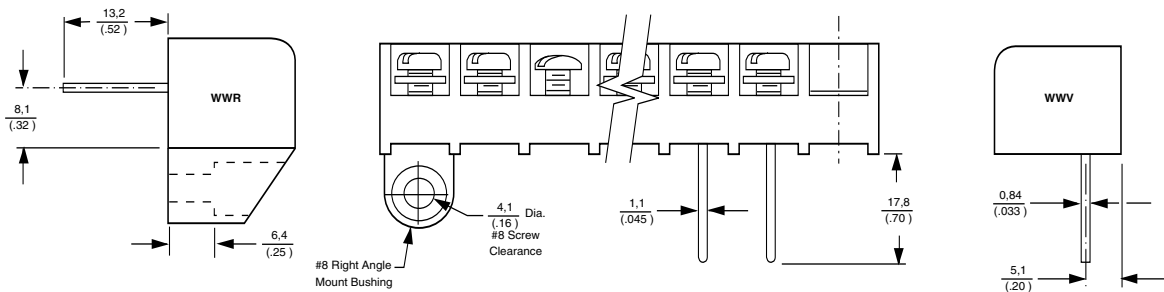
**Printed Circuit Pin**



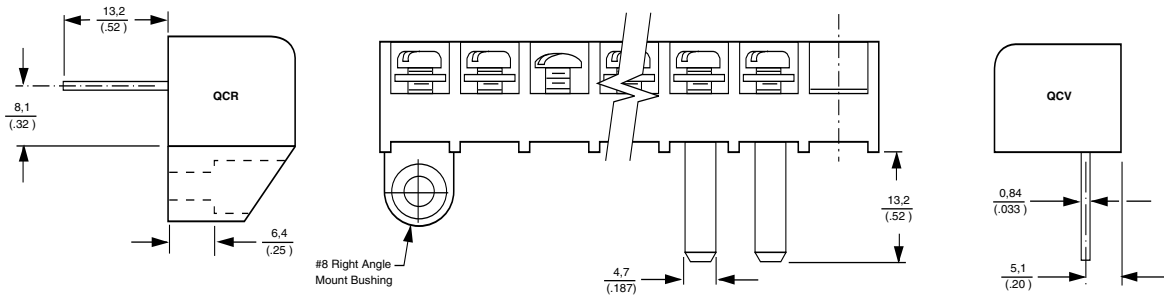
**Solder Turret**



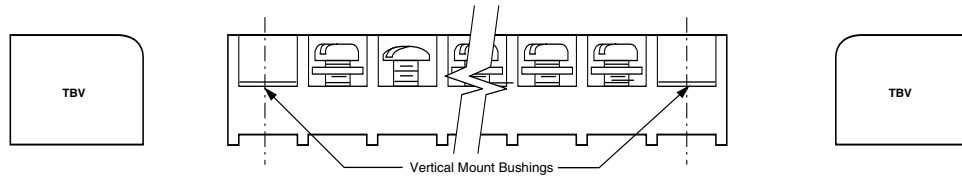
**Wire Wrap**



**Quick Connect**



**Non-Feed Thru**



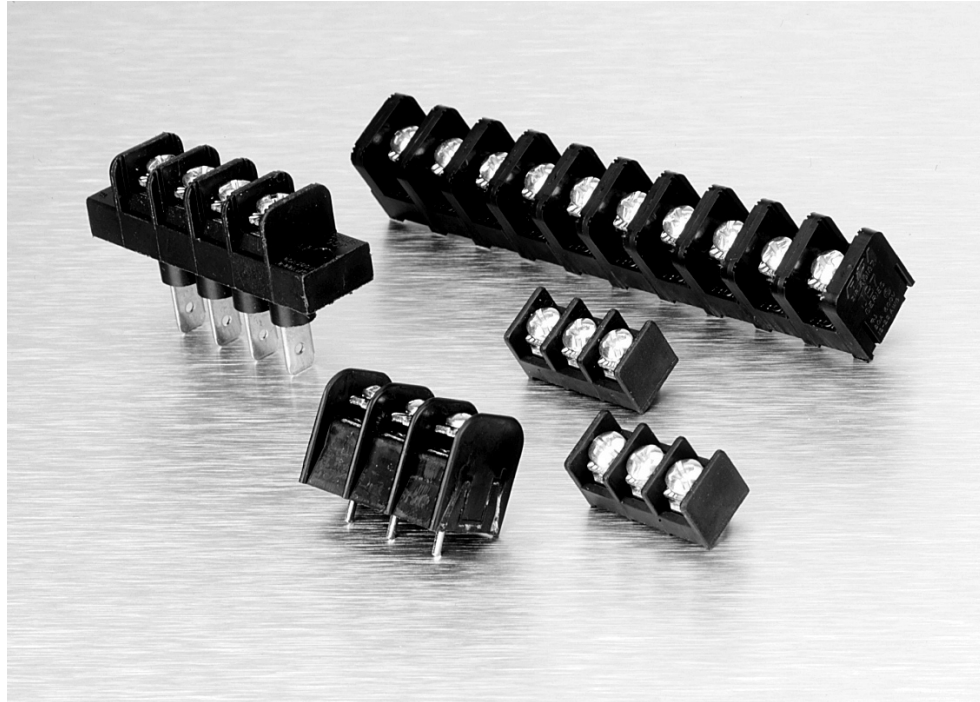
## Dual-Barrier Strips

### 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

**Note:** All part numbers  
are RoHS Compliant.

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**Engineering Notes**

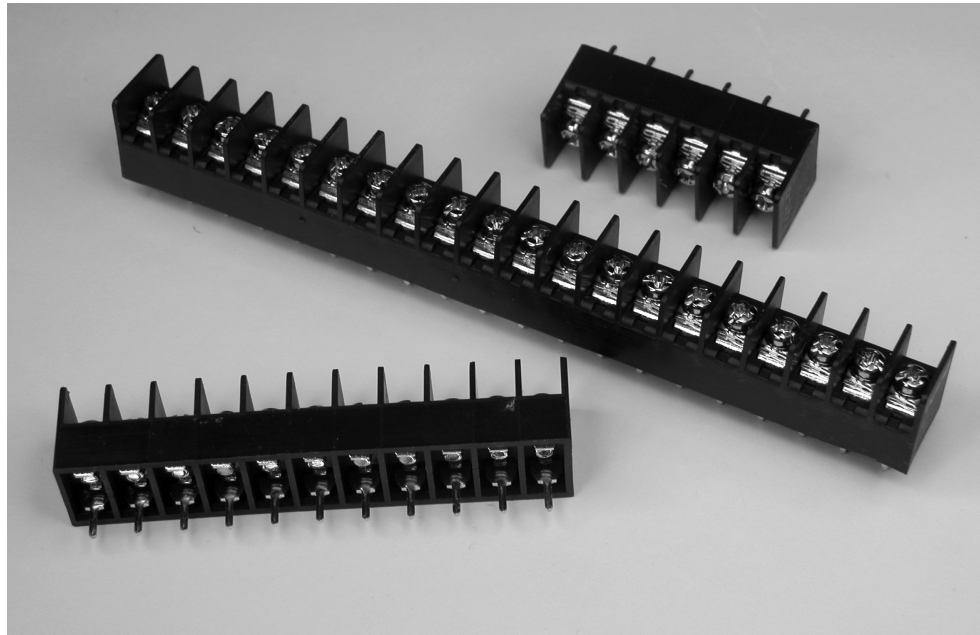
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**High-Density, Dual-Barrier Strips, .250" [6.35] Centerline**

**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

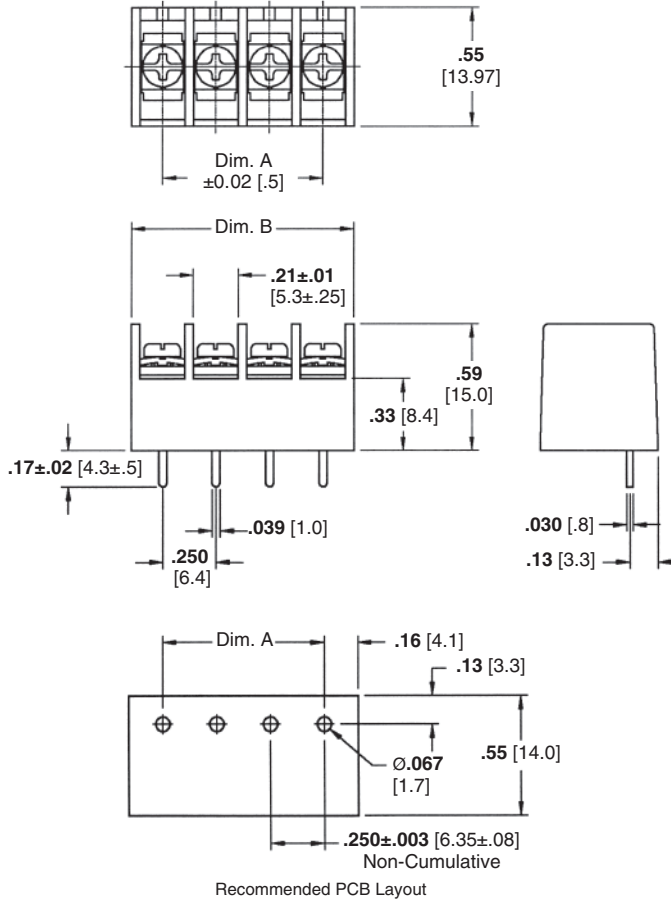
**Hardware Options**

- 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



**Note:** All part numbers are RoHS Compliant.

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



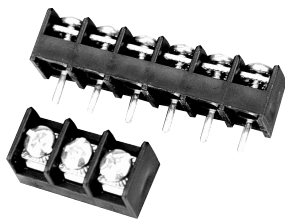
No. of Positions	Dimension		Part Number
	A	B	
2	0.250 [6.35]	0.54 [13.7]	1546657-2
3	0.500 [12.7]	0.79 [20.1]	1546657-3
4	0.750 [19.1]	1.04 [26.4]	1546657-4
5	1.000 [25.4]	1.29 [32.8]	1546657-5
6	1.250 [31.8]	1.54 [39.1]	1546657-6
7	1.500 [38.1]	1.79 [45.5]	1546657-7
8	1.750 [44.4]	2.04 [51.8]	1546657-8
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**

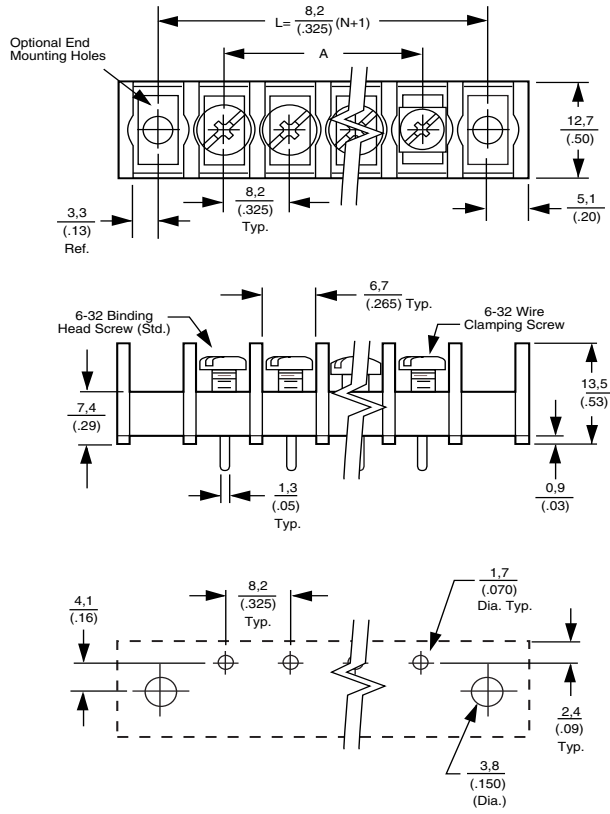
- A Series**  
4DB = Dual-Barrier, 0.325" Centers
- B Terminal Style**  
P = Printed Circuit Pin  
W = Wire Wrap  
R = Right Angle
- C Block Style**  
1 = Flat, all positions filled  
2 = Flat, end mounting holes
- D Screw Type**  
07 = Steel binding combo head screws  
08 = Steel wire clamp combo head screws
- E No. of Circuits (Not Positions)**  
02 through 30

Barrier Strips  
**2**



**Note:** All part numbers are RoHS Compliant.

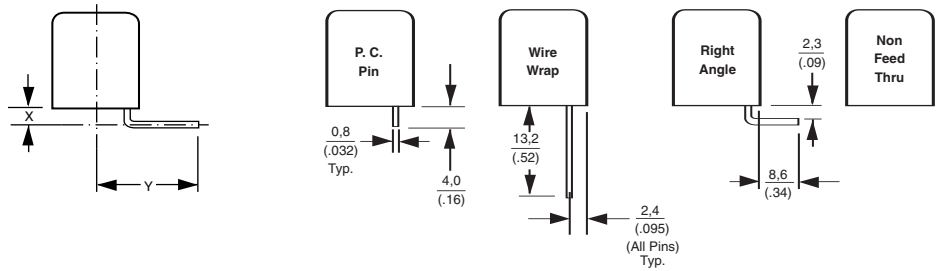
**0.325" [8.26] Pitch, Series 4DB (Continued)**



PRINTED CIRCUIT BOARD LAYOUT

**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]		

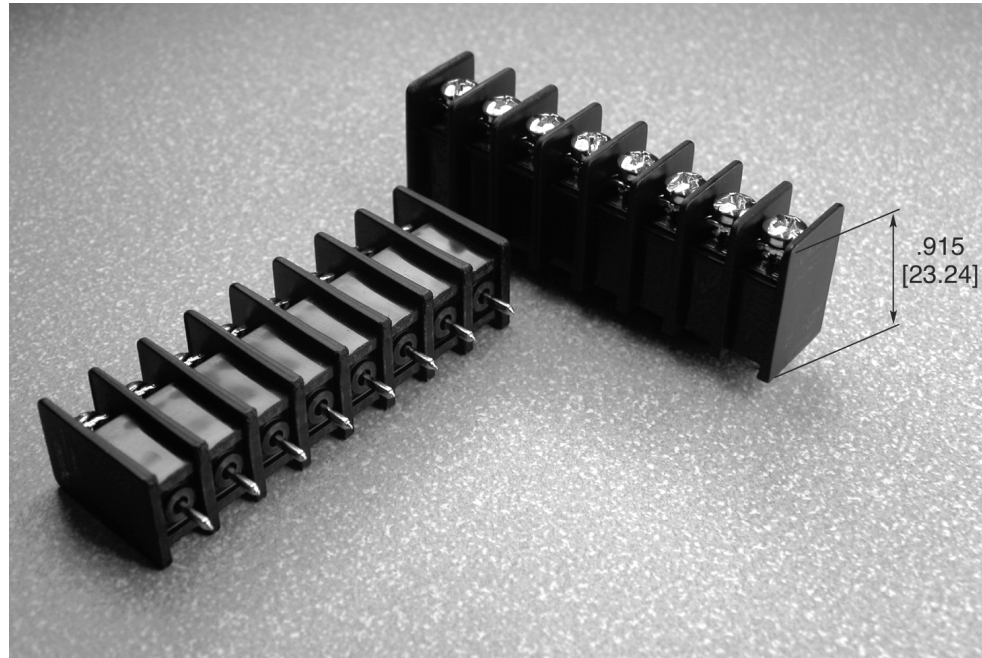




## High Rise Dual-Barrier Strips, .325 [8.26] Centerline

### 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]

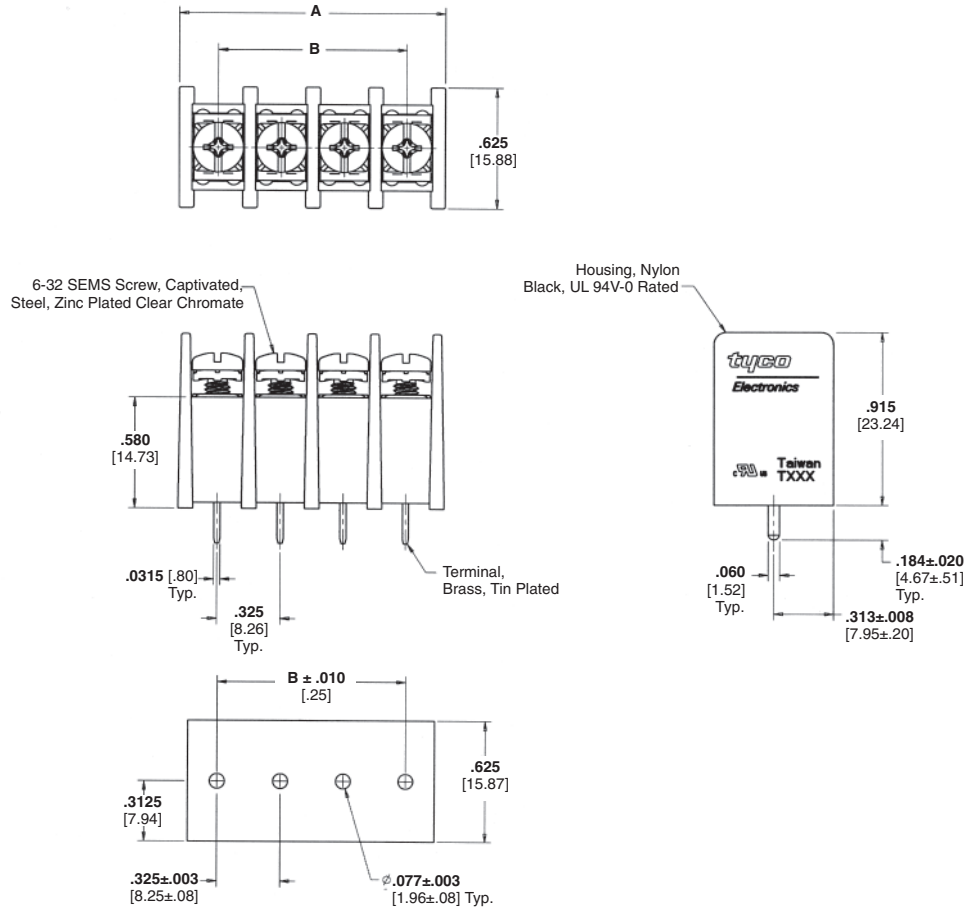
**Circuit Identification**—See page 179

### Hardware Options

**J4**—Jumpers, see page 177

**Note:** All part numbers are RoHS Compliant.

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



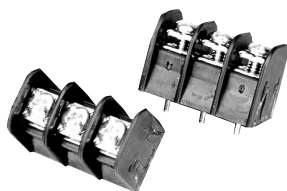
**Recommended PC Board Layout**

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**

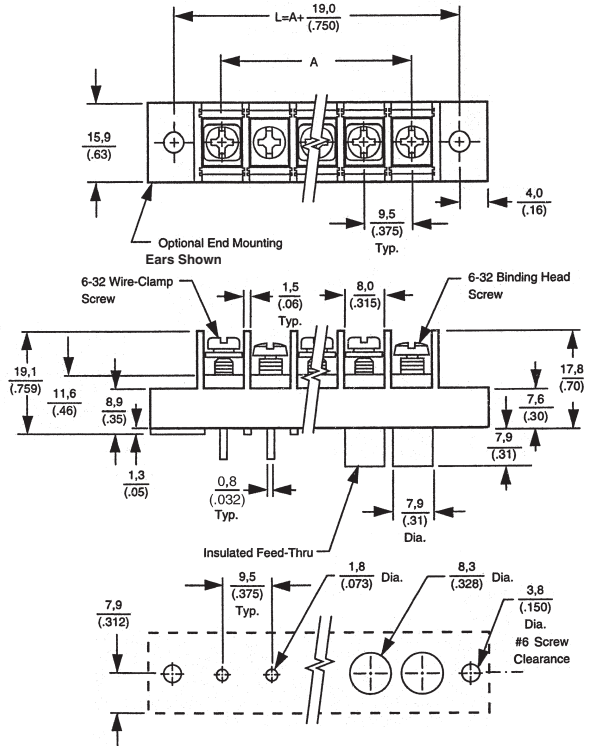
**Note:** All part numbers are RoHS Compliant.

**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]

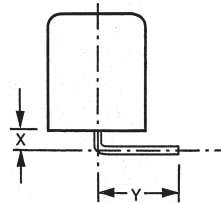
\* No mounting available



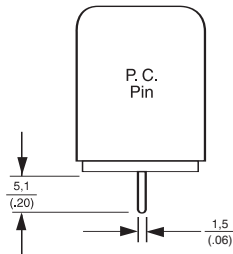
PRINTED CIRCUIT BOARD/MOUNTING PANEL LAYOUT

**Bend Options**

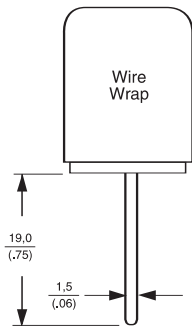
A variety of bend styles are available. Please consult Technical Support for details.



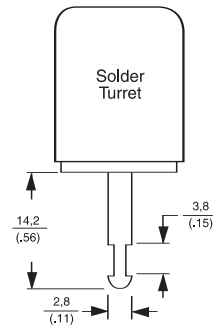
Available Block Styles: 1/2/5



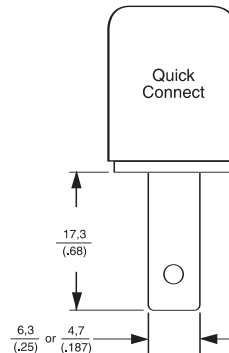
Available Block Styles: 2/3/4/5/6



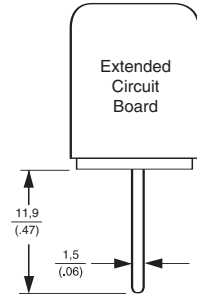
Available Block Styles: 2/3/4/5/6



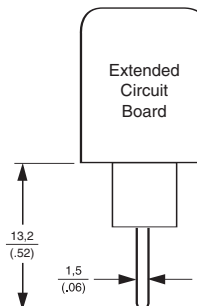
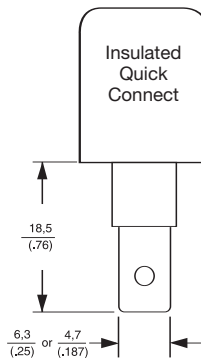
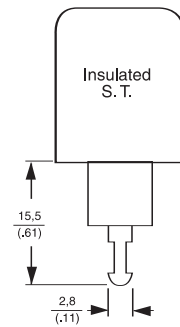
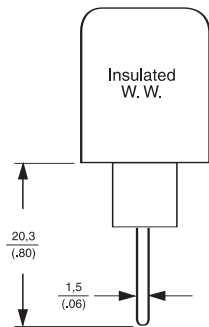
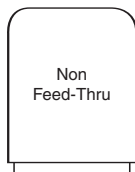
Available Block Styles: 2/3/4



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



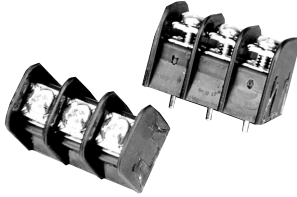
Available Block Styles: 7



LR30811 E54800

**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**

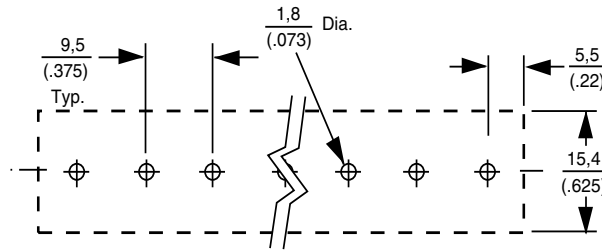
**A Series**  
NC6 = Dual-Barrier, 0.375" Centers, Low Profile

**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

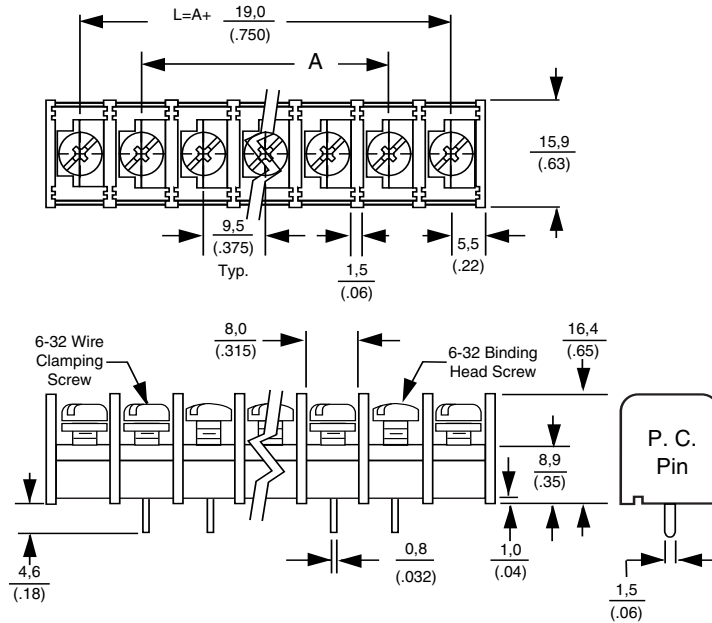
**E No. of Circuits (Not positions)**  
02 through 24



**RECOMMENDED PCB HOLE LAYOUT**

**Note:** All part numbers are RoHS Compliant.

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



No. of Positions	Dim. A
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]

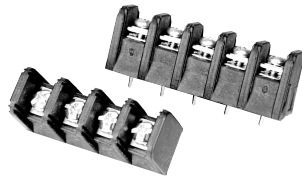
No. of Positions	Dim. A
14	4.875 [123.8]
15	5.250 [133.3]
16	5.625 [142.9]
17	6.000 [152.4]
18	6.375 [161.9]
19	6.750 [161.9]
20	7.125 [171.4]
21	7.500 [181.0]
22	7.875 [190.5]
*23	8.250 [200.0]
*24	8.625 [209.6]

\* No mounting available

**Note:** All part numbers are RoHS Compliant.

**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 [0.320 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

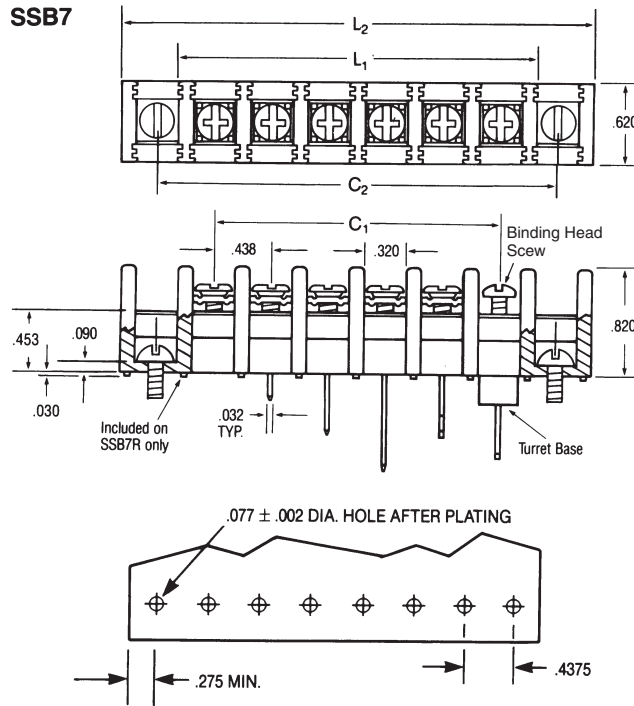
**Wire Range**—12-22 AWG  
**Dielectric Withstand**—5000V

**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



Circuits (not positions)	C1 in.	L1* in.	C2 in.	L2* 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	—	—



**Note:** All part numbers are RoHS Compliant.

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

**Ordering Information**

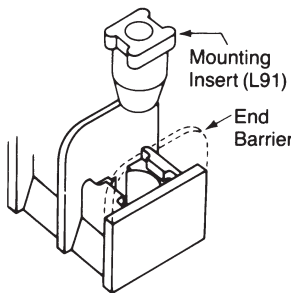
**SSB 7 F P 06 02 02 11**  
**A B C D E F G H**

**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	.187 wide
		x.032	x.020
		thick	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**

<b>11</b>	= 12345...
<b>12</b>	= ...54321
<b>13</b>	= 1 2 3 4 5 . . .
<b>14</b>	= . . . 5 4 3 2 1
<b>15</b>	= 12345... ..
<b>16</b>	= ..54321

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

**Contact Spacing Options:**

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

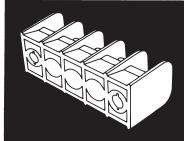
Extra thick barriers provide higher voltage rating. Up to 27 ckts. (25 circuits for end mounted blocks)

**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.



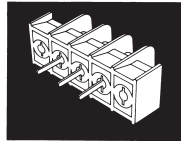
**Mounting Options:**

**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**

**7C1xx**—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

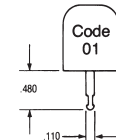
**L92**—Angle bracket, see page 178

**Terminal Style:**

**Solder Tail**

**Catalog Number**

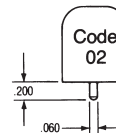
**Code: 01.** For applications requiring a wrapped solder connection.



**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.

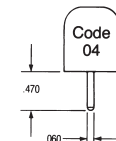


**Extended Printed**

**Circuit Pin**

**Catalog Number**

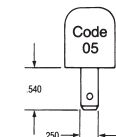
**Code: 04.** Useful where extra length is needed, as in thicker printed circuit boards or single-wrap connections.



**Quick Connect**

**Catalog Number Code:**

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



**Note:** All part numbers are RoHS Compliant.

**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).



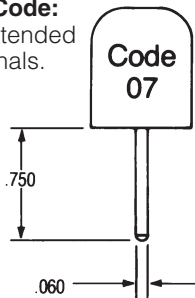
Catalog No. Code	A in.	B in.
06*	0.46	0.11
08*	0.75	0.11
12	0.21	0.65
13	0.36	0.50
14*	0.41	0.16
15	0.51	0.35
16*	0.32	0.25

\*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

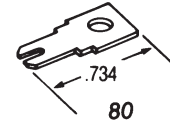
**Catalog Number Codes: 20 through 56.**

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**

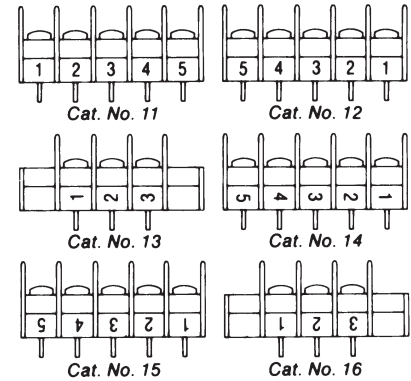
**Catalog Number Code: 80.** Single-sided, slotted solder tabs are available for making wrapped solder connections on the top side of SSBs.



**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

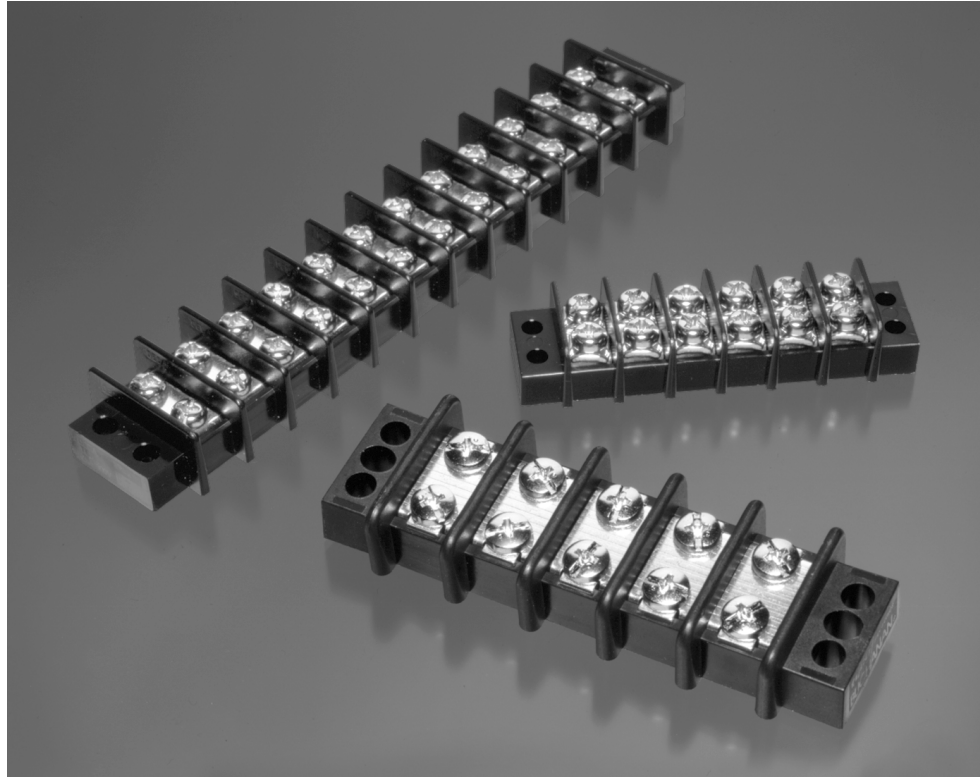
- Double-row, dual barrier strips for wire-to-wire applications. These parts also allow end users to complete the wiring to a separate screw without disturbing the factory wiring.
- Available with either binding head screws or wire clamp
- Increased current-carrying capability

### 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



**Note:** All part numbers are 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]

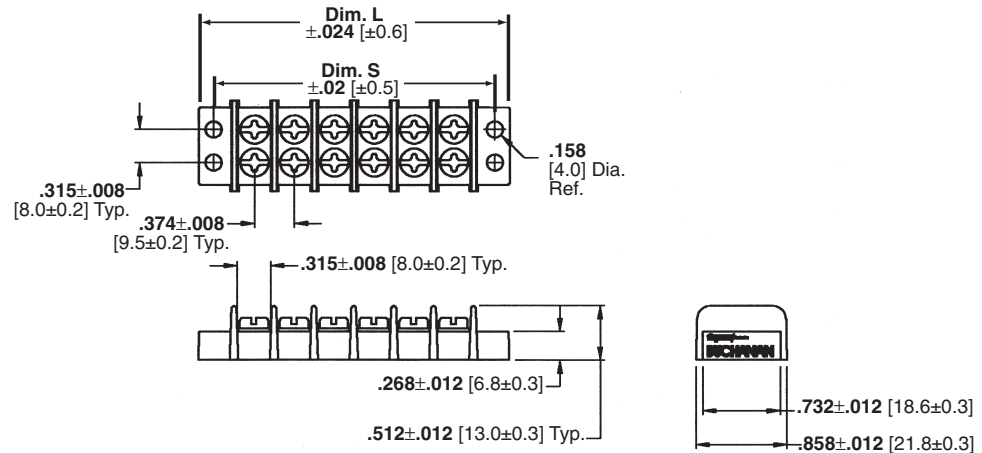
**Hardware Options**

**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 Positions	Dimension		Part Numbers	
	L	S	w/Binding Head Screws	w/Wire Clamp Screws
2	1.42 [036.2]	1.13 [028.7]	1546306-2	1546307-2
3	1.80 [045.7]	1.50 [038.2]	1546306-3	1546307-3
4	2.17 [055.2]	1.88 [047.7]	1546306-4	1546307-4
5	2.55 [064.7]	2.25 [057.2]	1546306-5	1546307-5
6	2.92 [074.2]	2.63 [066.7]	1546306-6	1546307-6
7	3.30 [083.7]	3.00 [076.2]	1546306-7	1546307-7
8	3.67 [093.2]	3.37 [085.7]	1546306-8	1546307-8
9	4.05 [103.0]	3.75 [095.2]	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



**Note:** All part numbers are RoHS Compliant.

**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**

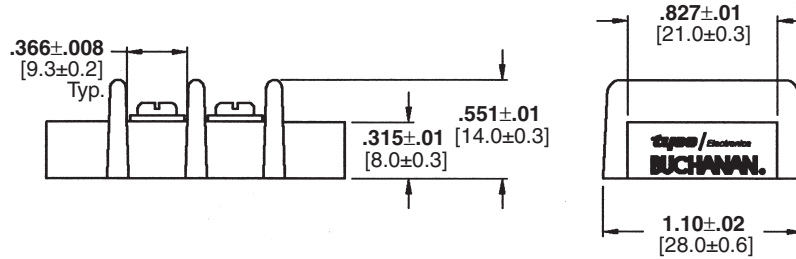
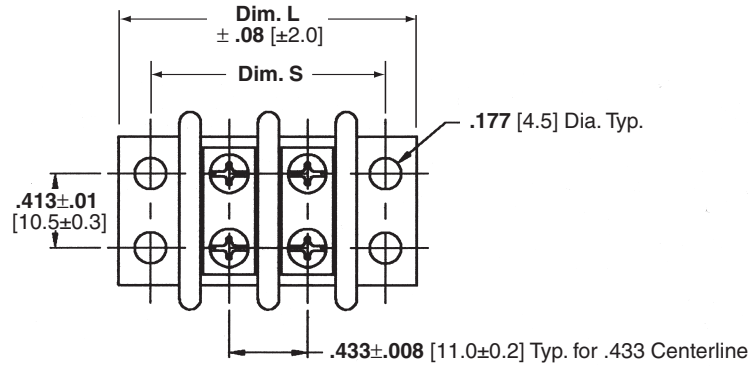
**Current Rating**—20 A, 300 VAC

**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 Positions	Dimension		Part Numbers	
	L	S	w/Binding Head Screws	w/Wire 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



**Note:** All part numbers are RoHS Compliant.

**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

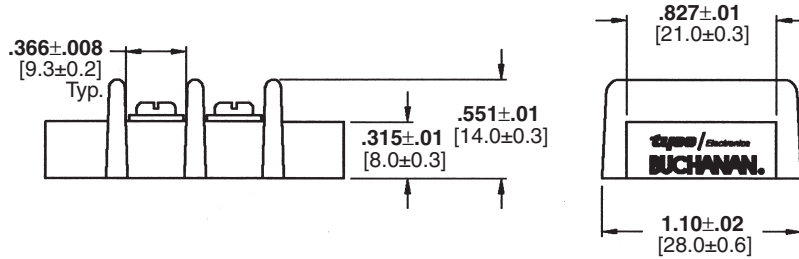
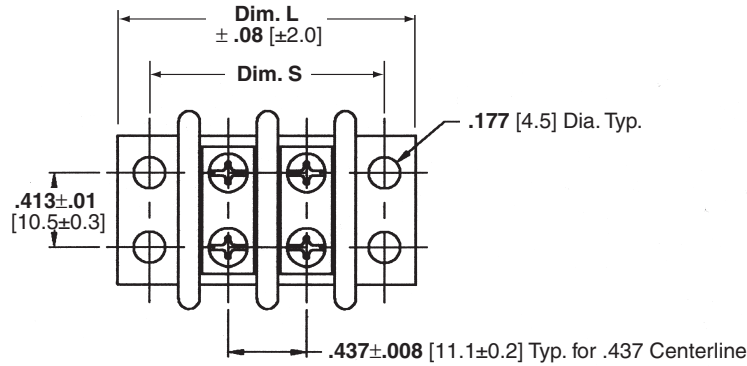
**J7**—Spade jumper, see page 177

**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 Positions	Dimension		Part Numbers	
	L	S	w/Binding Head Screws	w/Wire 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.

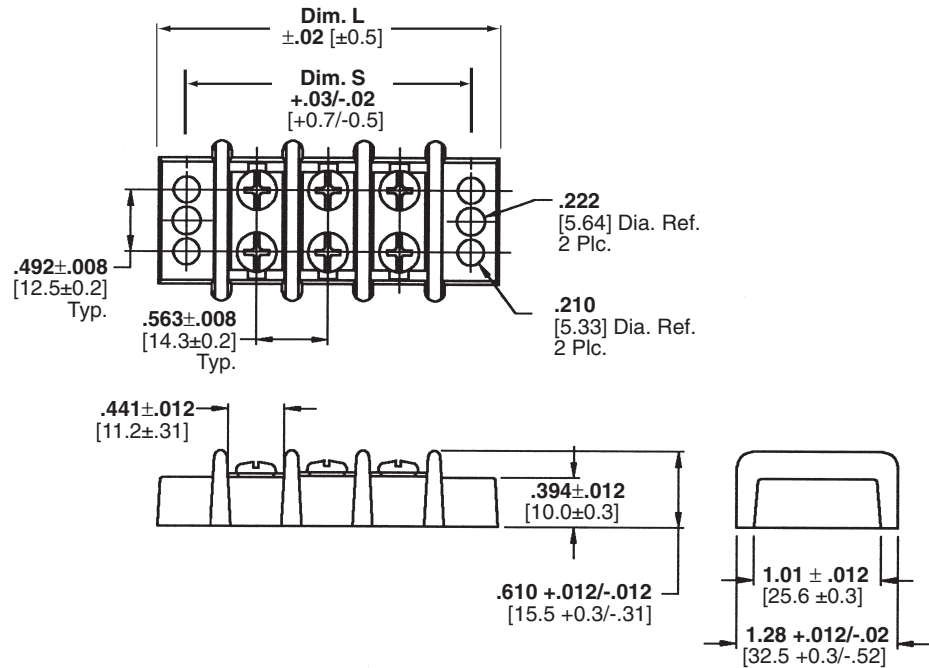
**Environmental Properties**

**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 Positions	Dimension		Part Numbers	
	L	S	w/Wire Clamp Screws	w/Binding Head 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.

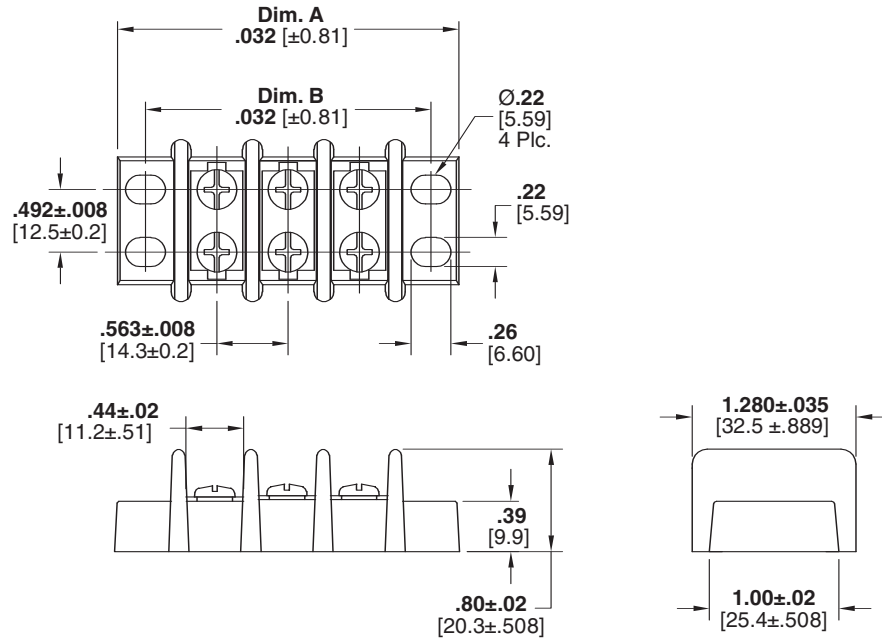
**Environmental Properties**

**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 Positions	Dimension		Part Numbers	
	L	S	w/Wire Clamp Screws	w/Binding Head 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

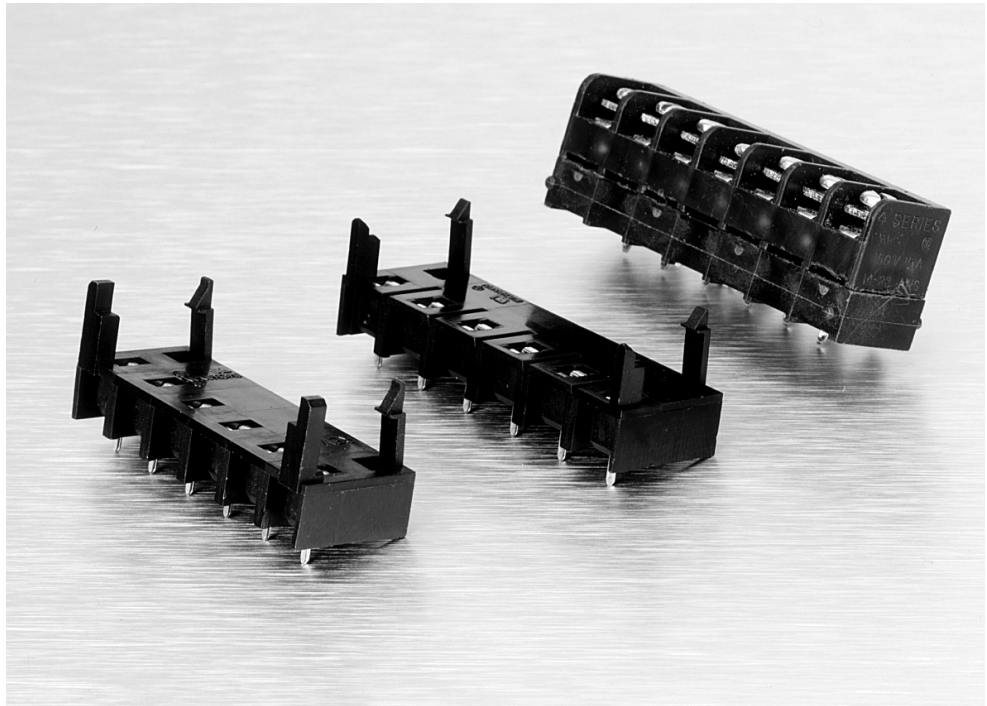
## Barrier Strip Sockets

Mateability for the socket line is given below:

Socket Series	Connector Series
USB	RSB3, SSB3
RSB6B	RSB6

### Product Facts

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



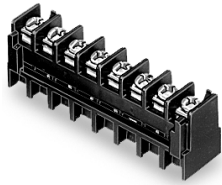
This unique plug-in socket line allows quick connection of circuits simultaneously without the use of tools.

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

**Note:** All part numbers are RoHS Compliant.

**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.

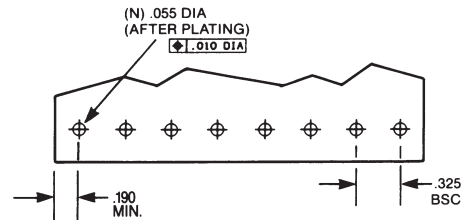
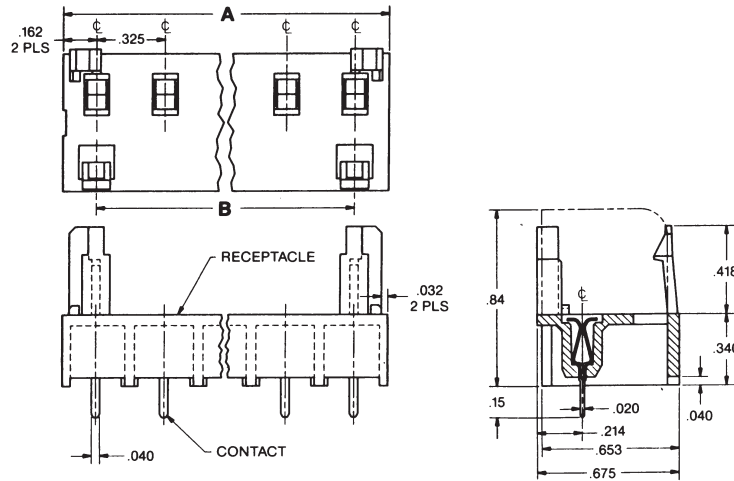
**Electrical Properties**

**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 Circuits	Dimensions		Dual-Barrier Mating Strip Catalog Number	Tri-Barrier Mating Strip Catalog Number	Catalog 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

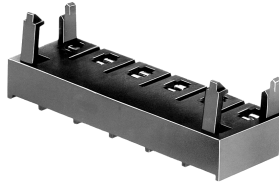
**Note:** See page 165 to complete mating Tri-Barrier Strip Catalog Number.  
See page 169 to complete mating Dual-Barrier Strip Catalog Number.



**Note:** All part numbers are RoHS Compliant.

**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**

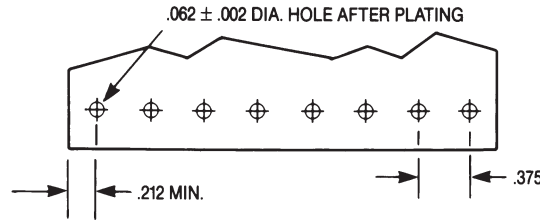
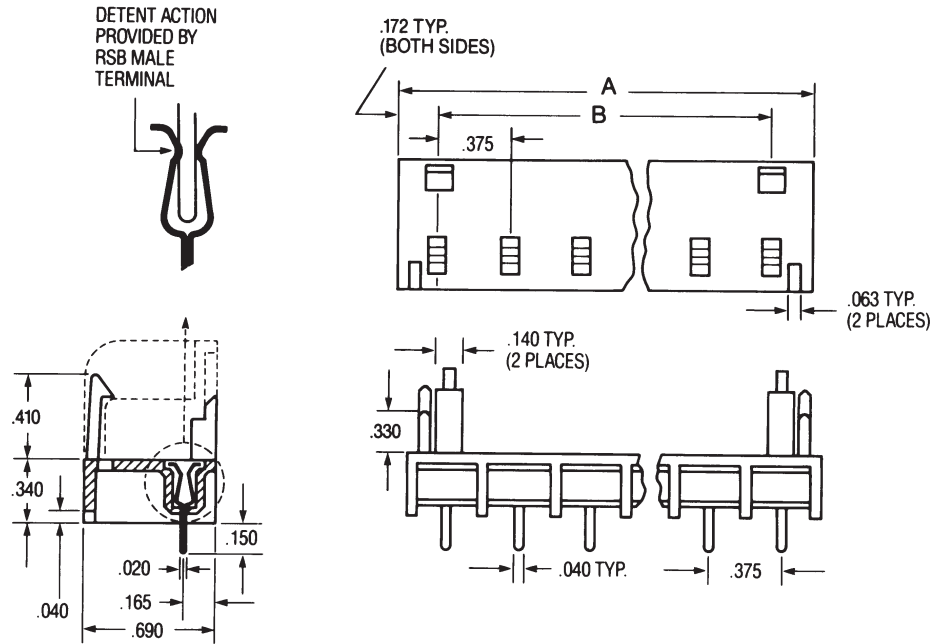
- Pitch (Terminal Spacing)**—  
.375 in [9.53]
- Recommended PCB Hole Dia.**—  
.062" [1.57]

**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 Circuits	Dimensions		Catalog 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.

**Note:** All part numbers are RoHS Compliant.

**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]

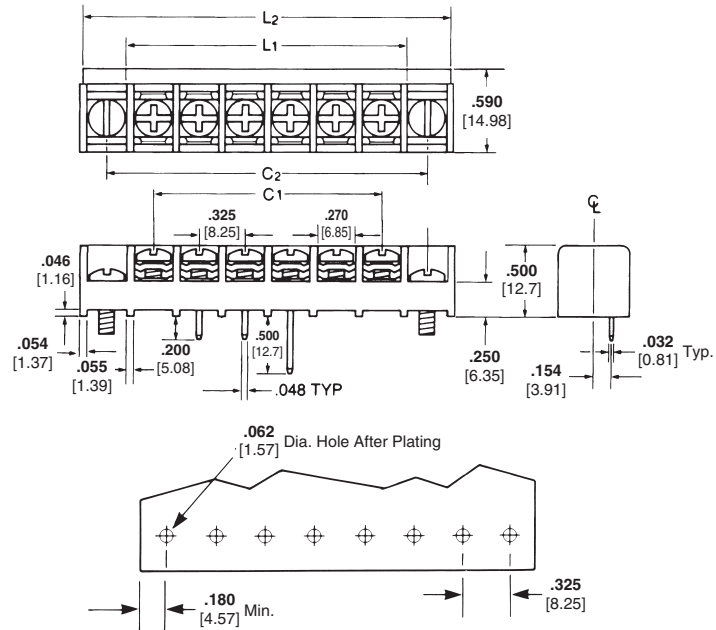
For mating socket, see pg. 162.

**Computing Barrier Block Lengths**

**Lengths**

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

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



**Dimensions**

Circuits (not positions)	C1 in.	L1* in.	C2 in.	L2* 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	6.554
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.



**Note:** All part numbers are RoHS Compliant.

**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

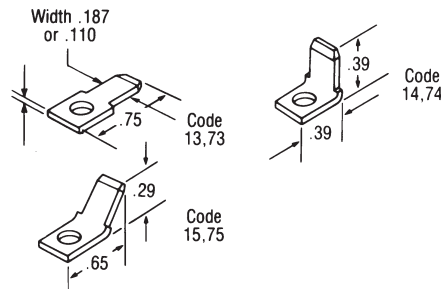
**F Terminal Style**  
**12**=Printed Circuit Pin for use with USB3 Series Socket  
**15**=Superseded by 4 PCR per page 125  
**17**=Superseded by 4WWV, page 125

**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.  


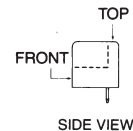
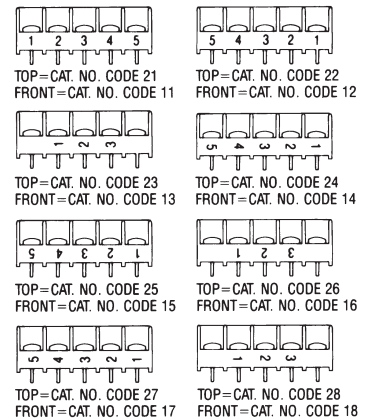
**Quick-Connect Blades**  
 (supplied with 01 screw)

.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.



For mating socket, see pg. 162.



Barrier Strips  
2



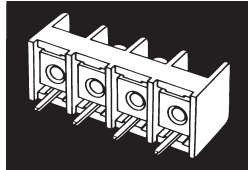
**Note:** All part numbers are RoHS Compliant.

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

**Mounting Position**

**Vertical Mounting**

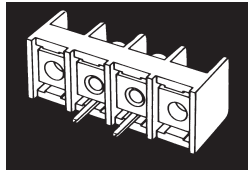
**Catalog Letter Code: V.** Used where direct top-to-bottom feed-through is required with no need for circuit isolation on the bottom side. The most common example of this is printed circuit board mounting.



**End Contact Mounting Options**

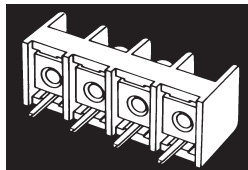
**End Position Mounting**

**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**

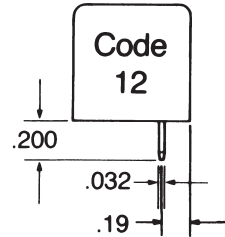
**Catalog Letter Code: P.** RSB3 may be solder-mounted using the bottom terminals themselves, as in the case of printed circuit board applications.



**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



**Note:** All part numbers  
are RoHS Compliant.

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## Engineering Notes

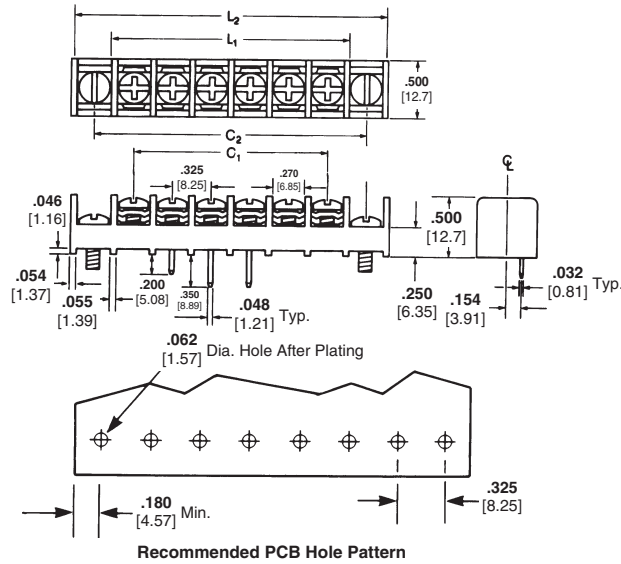
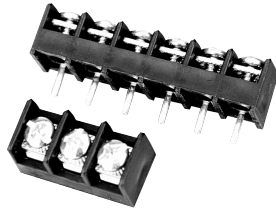
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**Note:** All part numbers are RoHS Compliant.

**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 (not positions)	C1 in.	L1* in.	C2 in.	L2* 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	5.579
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	6.2175	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

**Note:** All part numbers are RoHS Compliant.

**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.

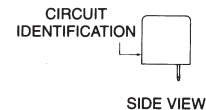
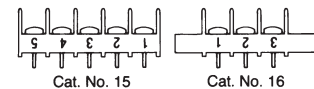
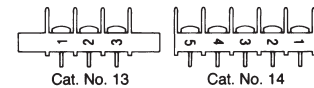
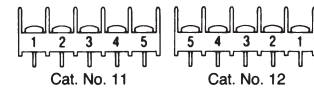


**Quick-Connect Blades**  
(supplied with 01 screw)

	.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	=
14	=
15	=
16	=



**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.



Barrier Strips

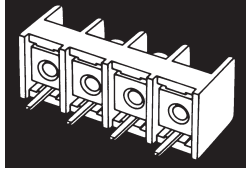
2

**Note:** All part numbers are RoHS Compliant.

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

**Base**

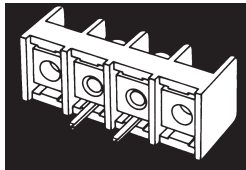
**Catalog Letter Code: F.** Lends itself most readily to applications where direct top-to-bottom feed-through is required with no special requirement for circuit isolation on the bottom side. The most common example of this is printed circuit board mounting.



**Mounting Options**

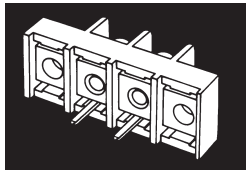
**End Position Mounting**

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



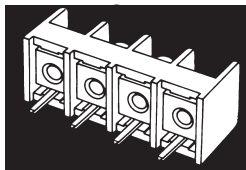
**End Position Mounting Without Barriers**

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



**Direct Mounting:**

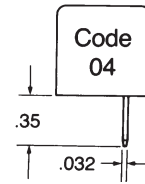
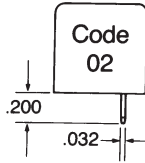
**Catalog Letter Code: P.** SSBs may be solder-mounted using the bottom terminals themselves, as in the case of printed circuit board applications.



**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.



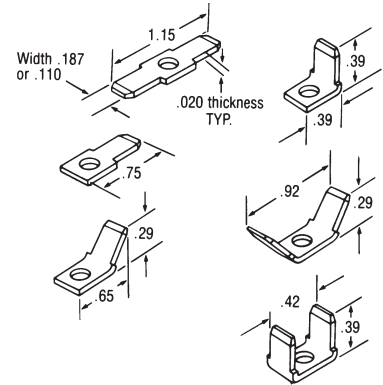
**Extended Printed Circuit Pin:**

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

**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 O1 screws. Various quick-connects can be combined.



**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.**

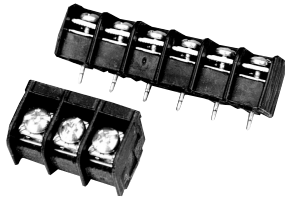
For applications requiring extra security, captive clamps under the screw heads augment the locking tabs on each contact. Screws have a unique Phil-slot design accepting either Phillips-head or straight screwdriver. Code 02 screw is bright zinc and chromate plated steel.



**Note:** All part numbers are RoHS Compliant.

**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**

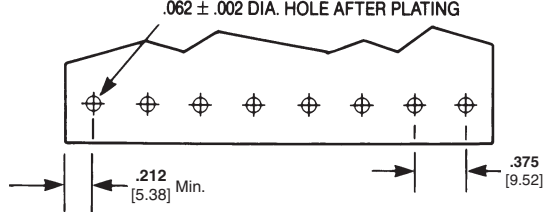
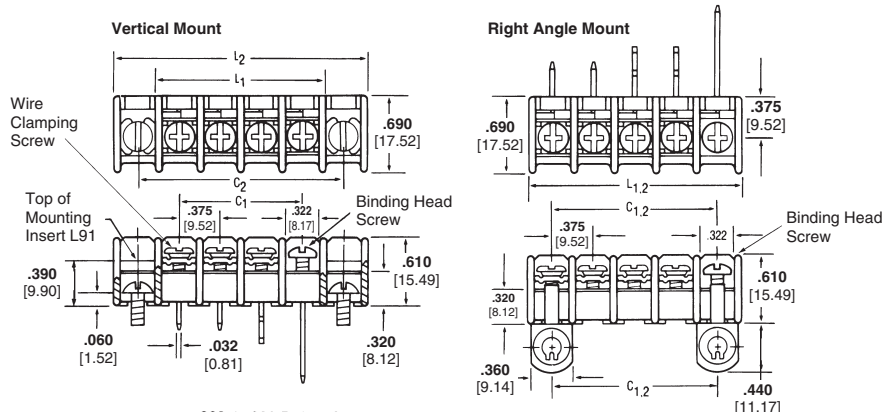
**J6**—Jumpers, see page 177

**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 (not positions)	C1 in.	L1* in.	C2 in.	L2* 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

**Note:** All part numbers are RoHS Compliant.

**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]
		thick	thick
22	42=		
23	43=		
24	44=		
25	45=		
29	49=		
30	50=		
31	51=		
33	53=		
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... 12345...
16	26 = ...54321... 54321...
17	27 = 1 2 3 4 5 . . .
18	28 = . . . 5 4 3 2 1

For mating socket, see pg. 152.





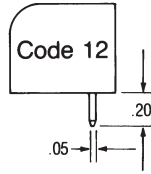
**Note:** All part numbers are RoHS Compliant.

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

**Terminal Style**

**Vertical Terminal**

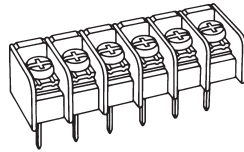
**Catalog Number Code 12:** Designed specifically for use with our RSB6B Socket, page 163.



**Mounting & Contact Position Options**

**Vertical, Direct Mounting**

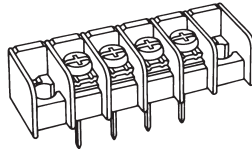
**Catalog Code VP:** This configuration is frequently used on printed circuit boards where solder connections are used to fasten the block to the board.



**Vertical, End Position Mounting**

**Catalog Code VM:**

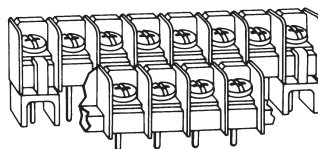
Used where end sections are needed for mounting. Thickness of base is sufficient to support mounting screws.



**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**

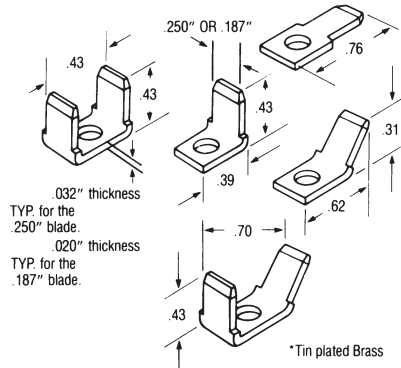
**Catalog Number Code: 02 & 09.**

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.



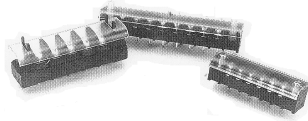
Barrier Strips  
**2**



**Note:** All part numbers are RoHS Compliant.

**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

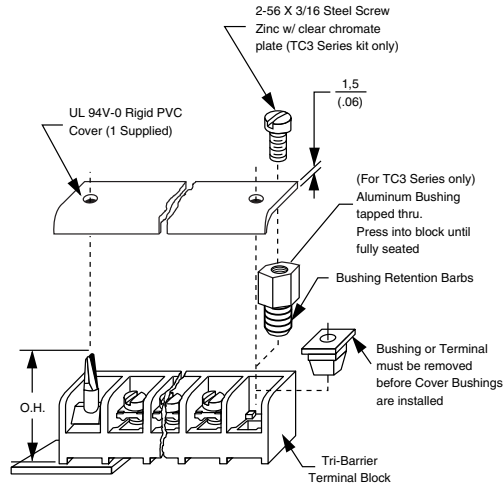
**For Series #4, #6, #8 Physical Properties**

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

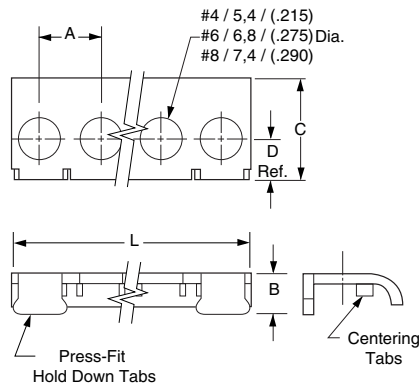
**Positions**—2 thru 16, molded to length

**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 B C D E**

**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/(.370) #6
TC8	11,1 (.4375)	8,1 (.314)	21,5 (.846)	11,1 (.4375)	A* (N-1)+10,9/(.430) #8

**Note:** All part numbers are RoHS Compliant.

**Accessories — Barrier Strip Safety Covers** (Continued)

**Safety Covers**

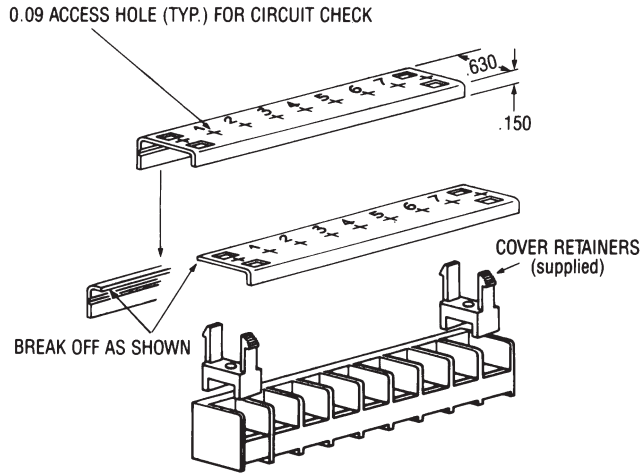
Dead front protection designed to prevent accidental contact with energized circuits. Access holes for test probes are provided over each terminal. Nylon clips are included with each cover. Covers meet UL94V-0, with 50°C temperature index. Blank circuit identification optional.

For SSB3, RSB3, RSB6 and SSB7 Series.

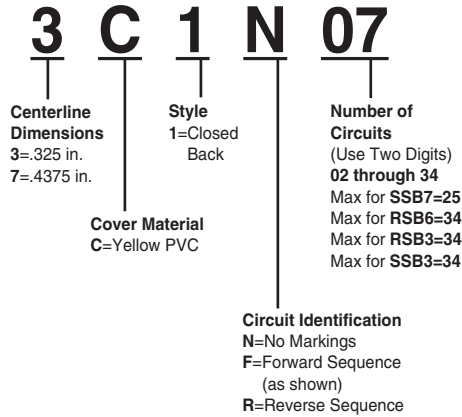
**Related Product Data**

**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**



## 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°

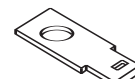
**Note:** QC tabs may be stacked to achieve several angle configurations.



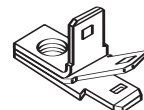
90°



45°



180°



Stackable Tabs

### .375" Pitch, Double Row

#### QUICK-CONNECT Tabs

Description	.250 wide x .032 thick		.187 wide x .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 .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

### .0325" Pitch, Series SSB3

#### QUICK-CONNECT Tabs

Description	.110 wide x .020 thick		.187 wide x .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 .032 thick		.187 wide x .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	—	—

### .437" Pitch, Double Row

#### QUICK-CONNECT Tabs

Description	.250 wide x .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

### Related Product Data

#### Wire Pins and Ferrules

Pages 109-111

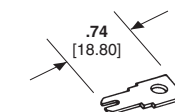
For more information on Tyco Electronics Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.

### Solder Tabs:

For making top-side solder connections  
Single-Sided

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

### Order Number



ST80

**Note:** All part numbers are RoHS Compliant.

**Accessories — Jumpers**

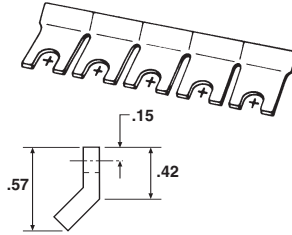
**AROUND-THE-BARRIER**

40 circuits; snap apart to desired lengths.

**Spade Jumper**

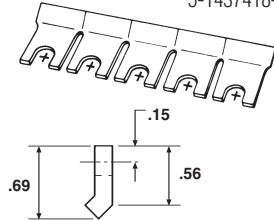
**Catalog Number Part No.**

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



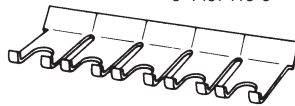
**Spade Jumper**

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



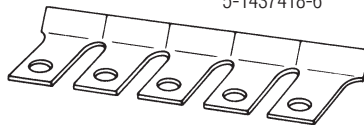
**Flanged Spade Jumper**

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



**Ring Tongue Jumper**

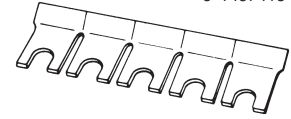
**J6340** (for 0.375" Pitch and #6 Screw) 5-1437418-6



**Spade Jumper**

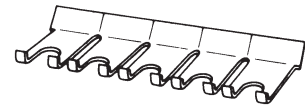
**Catalog Number Part No.**

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



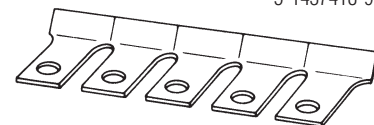
**Flanged Spade Jumper**

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



**Ring Tongue Jumper**

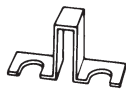
**J7340** (for 0.4375" Pitch and #6 Screw) 5-1437418-9



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

**Spade Jumper**

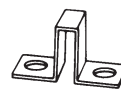
**J74** (for 0.375" Pitch, Series RSB6 & SSB6; 0.4375" Pitch, SSB7) 6-1437418-0



**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**

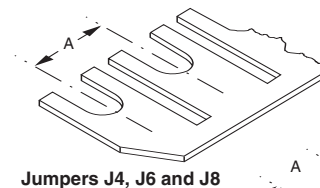
**A B**

**A Block Series**

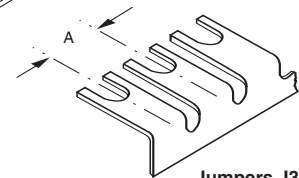
- J3 = #3 Series
- J4 = #4 Series, 4DB
- J6 = #6 Series, JC6, BC6, NC6, MB6
- J8 = #8 Series, 1546670, 1546671

**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")

**Note:** All part numbers are RoHS Compliant.

**Accessories — Hardware & Brackets**

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

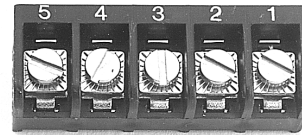
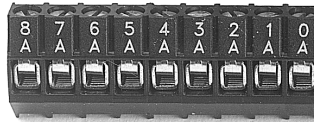
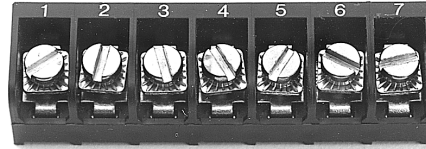
	Catalog Number	Part No.
<b>MOUNTING INSERTS</b> (Nylon) for mounting RSBs with blank end sections	<b>L91</b>	5-1437402-1
<b>PRESS-ON RETAINING CLIPS</b> (Stainless Steel) for mounting turret base SSBs, JC6, and BC6	<b>JC/BC-Retaining</b>	1437661-7
<b>Angle Bracket</b> for mounting SSBs with right angle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

**Note:** All part numbers are RoHS Compliant.

**Accessories — Standard and Custom Legends**

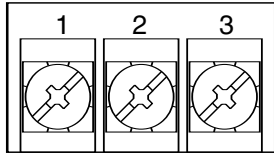
**Product Facts**

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

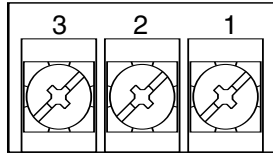


Custom legending can lend a personal touch to your product...helps in circuit identification and makes wiring faster and easier. Alphabetical and numerical markings are available in either standard or custom styles to best suit your specific applications. Legending is available to the styles depicted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

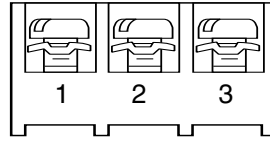
**Standard Legending Arrangements**



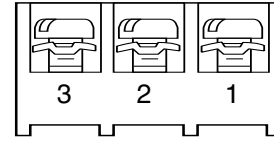
Style A1



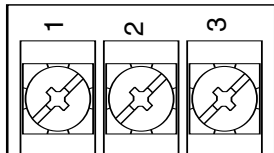
Style B1



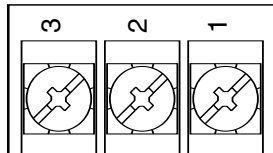
Style C1



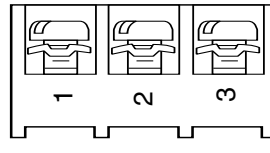
Style D1



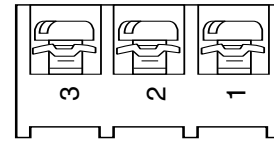
Style A2



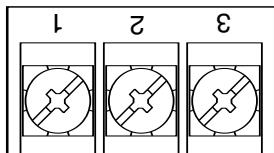
Style B2



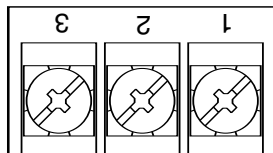
Style C2



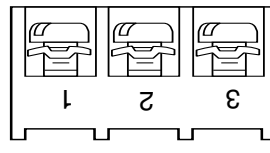
Style D2



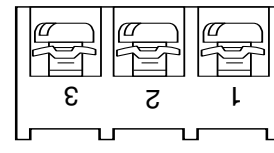
Style A3



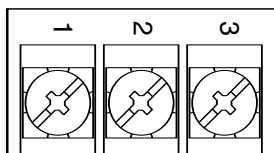
Style B3



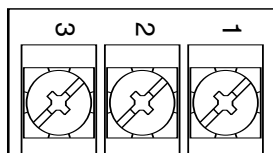
Style C3



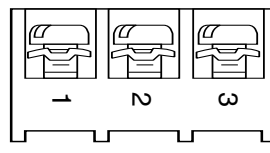
Style D3



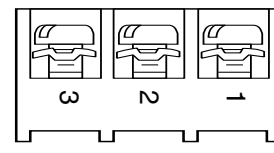
Style A4



Style B4



Style C4



Style D4



**Note:** All part numbers  
are RoHS Compliant.

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## Engineering Notes

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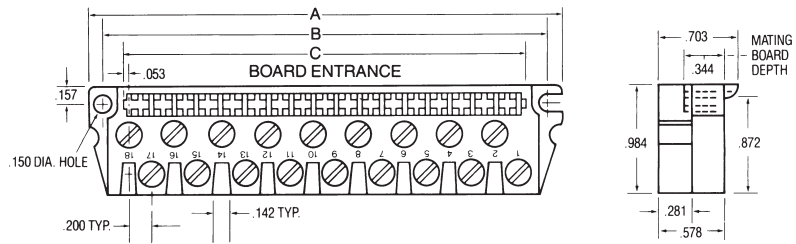
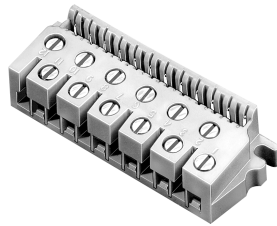
**Note:** All part numbers are RoHS Compliant.

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**Note:** All part numbers are RoHS Compliant.

## 0.200" [5.08] Pitch PCB1A Series



### Material & Finish

**Housing Material**—Polyester

**Flammability**—UL94V-0

**Color**—White

**Tubular Contact**—Brass

**PC Contact**—Phosphor Bronze with Bright Tin or Gold over Nickel plating

**Screw**—Steel with Zinc + Chromate plating

**Clamp**—Brass

### Mechanical Properties

**Pitch (Terminal Spacing)**—  
.200" [5.08]

**Screw Size**—6-32

**Mounting Screw Size**—#4 or #6

**Wire Strip Length**—.25" [6.35]

**Recommended Tightening**

**Torque**—5-8 in.-lbs.

**Recommended Screwdrivers**—

Xcelite R184, Sears Craftsman 41429, Stanley 1016

**Board Insertion Force (Typ.)**

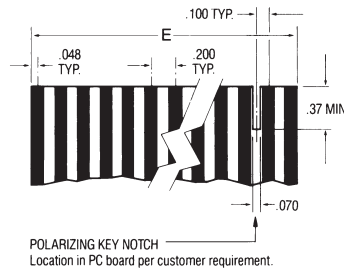
**per Ckt.**—5.6 oz. [160g]

**Board Separation Force (Typ.)**

**per Ckt.**—1.8 oz. [50g]

**Durability**—Passes MIL-C-21097: 500 cycles

### Recommended PC Board Layout



### Electrical Properties

**Maximum Current**—10A

**Operating Voltage**—250V

**Wire Range**—#12 Stranded Only

**Dielectric Withstand**—2500V

**Insulation Resistance**— $10^{11}$  ohms

**Contact Resistance**—6 milliohms

### Environmental Properties

**Operating Temperature Range**—

-65°C to +140°C [-85°F to +284°F]

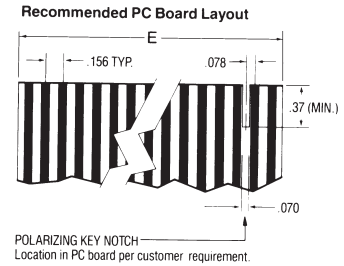
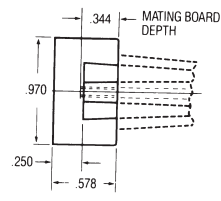
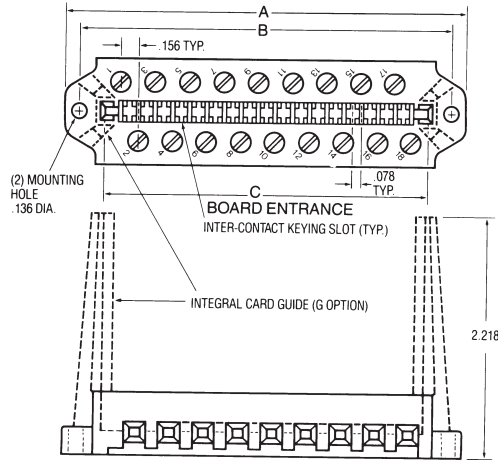
No. of Positions	Dimensions				Part Number	Catalog Number*
	A	B	C	E		
12	2.920 [74.17]	2.670 [67.82]	2.310 [58.67]	2.295 [58.29]	1437410-9	PCB1A12S
18	4.120 [104.65]	3.870 [98.30]	3.510 [89.15]	3.495 [88.77]	1-1437410-1	PCB1A18S
24	5.320 [134.62]	5.070 [128.78]	4.710 [119.63]	4.695 [119.25]	1-1437410-3	PCB1A24S
30	6.520 [165.61]	6.270 [159.26]	5.910 [150.11]	5.895 [149.73]	1-1437410-5	PCB1A30S
36	7.720 [196.09]	7.470 [189.74]	7.110 [180.59]	7.095 [180.21]	1-1437410-7	PCB1A36S

\*Note: For optional Gold-over-Nickel plating on contacts (instead of standard Bright Tin) change the letter "S" of the Catalog Number to "A".



**Note:** All part numbers are RoHS Compliant.

**0.156" [3.96] Pitch PCB1B Series**



**Material & Finish**

- Housing Material**—Polyester
- Flammability**—UL94V-0
- Color**—Black
- Tubular Contact**—Brass
- PC Contact**—Phosphor Bronze with Bright Tin or Gold over Nickel plating
- Screw**—Steel with Zinc + Chromate plating
- Clamp**—Brass

**Mechanical Properties**

- Pitch (Terminal Spacing)**—  
.156" [3.96]
- Screw Size**—6-32
- Mounting Screw Size**—#4 or #6
- Wire Range**—#14 Sol/Str Only
- Wire Strip Length**—.25" [6.35]
- Recommended Tightening Torque**—5-8 in.-lbs.
- Recommended Screwdrivers**—  
Xcelite R184, Sears Craftsman 41429, Stanley 1016
- Board Insertion Force (Typ.) per Ckt.**— 5.6 oz. [160g]
- Board Separation Force (Typ.) per Ckt.**— 1.8 oz. [50g]
- Durability**—Passes MIL-C-21097: 500 cycles

**Electrical Properties**

- Maximum Current**—10A
- Operating Voltage**—250V
- Wire Range**—#14 Sol/Str Only
- Dielectric Withstand**—3000V
- Insulation Resistance**—10<sup>11</sup> ohms
- Contact Resistance**—6 milliohms

**Environmental Properties**

- Operating Temperature Range**—  
-65°C to +140°C [-85°F to +284°F]

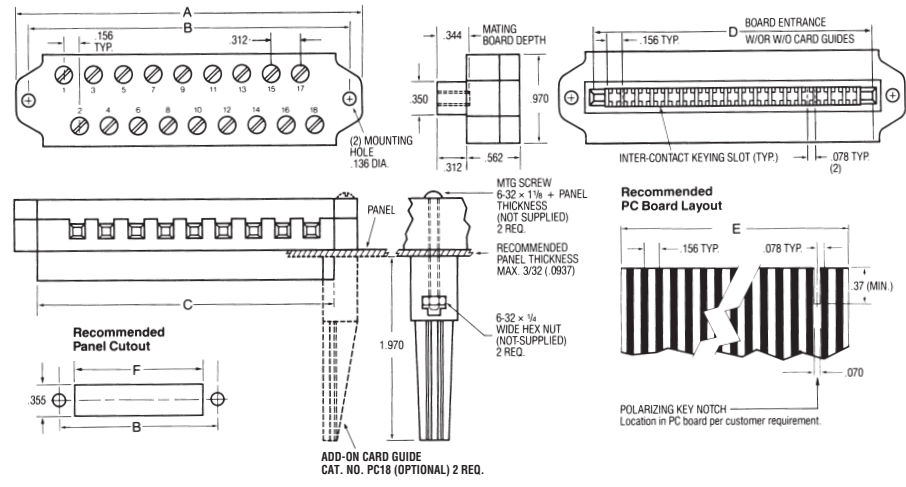
No. of Positions	Dimensions				Part Number	Catalog Number*
	A	B	C	E		
06	1.786 [45.36]	1.536 [39.01]	1.100 [27.94]	1.085 [27.56]	1-1437410-8	PCB1B06S
08	2.098 [53.29]	1.848 [46.94]	1.412 [35.86]	1.397 [35.48]	2-1437410-0	PCB1B08S
10	2.410 [61.21]	2.160 [54.86]	1.724 [43.79]	1.709 [43.41]	2-1437410-3	PCB1B10S
12	2.722 [69.14]	2.472 [62.79]	2.036 [51.71]	2.021 [51.33]	2-1437410-7	PCB1B12S
15	3.190 [81.03]	2.940 [74.68]	2.504 [63.60]	2.489 [63.22]	3-1437410-1	PCB1B15S
16	3.351 [85.12]	3.096 [78.64]	2.660 [67.56]	2.645 [67.18]	1776774-8	PCB1B16S
18	3.658 [92.91]	3.408 [86.56]	2.972 [75.49]	2.957 [75.11]	3-1437410-6	PCB1B18S
22	4.282 [108.76]	4.032 [102.41]	3.596 [91.34]	3.581 [90.96]	4-1437410-0	PCB1B22S
24	4.599 [116.81]	4.344 [110.34]	3.908 [99.26]	3.893 [98.88]	1776774-7	PCB1B24S
28	5.218 [132.54]	4.968 [126.19]	4.544 [115.42]	4.517 [122.66]	4-1437410-4	PCB1B28S
30	5.533 [140.54]	5.280 [134.11]	4.844 [123.04]	4.829 [122.66]	1776774-1	PCB1B30S
32	5.842 [148.39]	5.592 [142.04]	5.156 [130.96]	5.141 [130.58]	4-1437410-9	PCB1B32S
36	6.466 [164.24]	6.216 [157.89]	5.780 [146.81]	5.765 [146.43]	5-1437410-3	PCB1B36S
43	7.558 [191.97]	7.308 [185.62]	6.872 [174.55]	6.857 [174.17]	5-1437410-7	PCB1B43S

\*Note: For optional Gold-over-Nickel plating on contacts (instead of standard bright tin), change the letter "S" of the Catalog Number to "A". For optional integral card guides, add the letter "G" to the end of the catalog number.



**Note:** All part numbers are RoHS Compliant.

**0.156" [3.96] Pitch PCB2B Series**



**Material & Finish**

- Housing Material**—Polyester
- Flammability**—UL94V-0
- Color**—Black
- Tubular Contact**—Brass
- PC Contact**—Phosphor Bronze with Bright Tin or Gold over Nickel plating
- Screw**—Steel with Zinc + Chromate plating
- Clamp**—Brass

**Mechanical Properties**

- Pitch (Terminal Spacing)**— .156" [3.96]
- Screw Size**—#6-32
- Mounting Screw Size**—#4 or #6
- Wire Strip Length**—.25" [6.35]
- Recommended Tightening Torque**—5-8 in.-lbs.
- Recommended Screwdrivers**—Xcelite R184, Sears Craftsman 41429, Stanley 1016
- Board Insertion Force (Typ.) per Ckt.**—5.6 oz. [160g]
- Board Separation Force (Typ.) per Ckt.**—1.8 oz. [50g]
- Durability**—Passes MIL-C-21097: 500 cycles

**Electrical Properties**

- Maximum Current**—10A
- Operating Voltage**—250V
- Wire Range**—#16 Sol/Str Only
- Dielectric Withstand**—3000V
- Insulation Resistance**—10<sup>11</sup> ohms
- Contact Resistance**—6 milliohms
- Environmental Properties**
- Operating Temperature Range**— -65°C to +140°C [-85°F to +284°F]

No. of Positions	Dimensions								Part Number	Catalog Number*
	A	B	C	D	E	F (Min.)				
06	1.786 [45.36]	1.536 [39.01]	1.264 [32.11]	1.100 [27.94]	1.085 [27.56]	1.284 [32.61]		6-1437410-1	PCB2B06S	
08	2.098 [53.29]	1.848 [46.94]	1.576 [40.03]	1.412 [35.86]	1.397 [35.48]	1.596 [40.54]		6-1437410-3	PCB2B08S	
09	2.254 [57.25]	2.004 [50.90]	1.732 [43.99]	1.568 [39.83]	1.553 [39.45]	1.752 [44.50]		6-1437410-4	PCB2B09S	
10	2.410 [61.21]	2.160 [54.86]	1.888 [47.96]	1.724 [43.79]	1.709 [43.41]	1.908 [48.46]		6-1437410-6	PCB2B10S	
12	2.722 [69.14]	2.472 [62.79]	2.200 [55.88]	2.036 [51.71]	2.021 [51.33]	2.220 [56.39]		6-1437410-8	PCB2B12S	
15	3.190 [81.03]	2.940 [74.68]	2.668 [67.77]	2.504 [63.60]	2.489 [63.22]	2.688 [68.28]		7-1437410-0	PCB2B15S	
16	3.346 [84.99]	3.096 [78.64]	2.824 [71.73]	2.660 [67.56]	2.645 [67.41]	2.844 [72.24]		7-1437410-2	PCB2B16S	
18	3.658 [92.91]	3.408 [86.56]	3.136 [79.65]	2.972 [75.49]	2.957 [75.11]	3.156 [80.16]		7-1437410-4	PCB2B18S	
22	4.282 [108.76]	4.032 [102.41]	3.760 [95.50]	3.596 [91.34]	3.581 [90.96]	3.780 [96.01]		7-1437410-6	PCB2B22S	
24	4.594 [116.69]	4.344 [110.34]	4.072 [103.43]	3.908 [99.26]	3.893 [98.88]	4.092 [103.94]		—	PCB2B24S	
28	5.218 [132.54]	4.968 [126.19]	4.696 [119.28]	4.532 [115.11]	4.517 [114.73]	4.716 [119.79]		7-1437410-9	PCB2B28S	
30	5.530 [140.46]	5.280 [134.11]	5.008 [127.20]	4.844 [123.09]	4.829 [122.66]	5.028 [127.71]		8-1437410-1	PCB2B30S	
36	6.466 [164.24]	6.216 [157.89]	5.944 [150.98]	5.780 [146.81]	5.765 [146.43]	5.964 [151.49]		8-1437410-3	PCB2B36S	
43	7.558 [191.97]	7.308 [185.62]	7.036 [178.71]	6.872 [174.55]	6.857 [174.17]	7.056 [179.22]		8-1437410-5	PCB2B43S	

\*Note: For optional Gold-over-Nickel plating on contacts (instead of standard bright tin), change the letter "S" of the Catalog Number to "A".



**Note:** All part numbers are RoHS Compliant.

**0.200" [5.08] Pitch PCB3A Series**



**Material & Finish**

**Housing Material**—Polyester

**Flammability**—UL94V-0

**Color**—Black

**Tubular Contact**—Brass

**PC Contact**—Phosphor Bronze with Bright Tin or Gold over Nickel plating

**Screw**—Steel with Zinc + Chromate plating

**Clamp**—Brass

**Mechanical Properties**

**Pitch (Terminal Spacing)**— .200" [5.08]

**Screw Size**—#6-32

**Mounting Screw Size**—#6

**Wire Strip Length**—.25" [6.35]

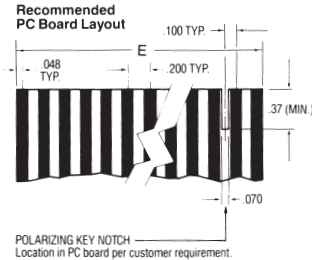
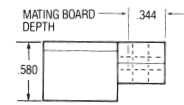
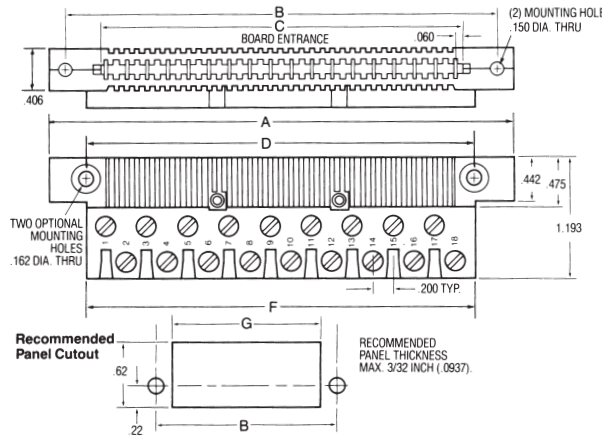
**Recommended Tightening Torque**—5-8 in.-lbs.

**Recommended Screwdrivers**— Xcelite R184, Sears Craftsman 41429, Stanley 1016

**Board Insertion Force (Typ.) per Ckt.**— 5.6 oz. [160g]

**Board Separation Force (Typ.) per Ckt.**— 1.8 oz. [50g]

**Durability**—Passes MIL-C-21097: 500 cycles



**Electrical Properties**

**Maximum Current**—10A

**Operating Voltage**—250V

**Wire Range**—1 or 2 #18 Sol/Str

**Dielectric Withstand**—2500V

**Insulation Resistance**—10<sup>11</sup> ohms

**Contact Resistance**—6 milliohms

**Environmental Properties**

**Operating Temperature Range**— -65°C to +140°C [-85°F to +284°F]

No. of Positions	Dimensions						Part Number	Catalog Number*
	A	B	C	D & F	E	G		
06	2.150 [54.61]	1.800 [45.72]	1.120 [28.45]	1.400 [35.56]	1.105 [28.07]	1.43 [36.32]	8-1437410-8	PCB3A06S
08	2.550 [64.77]	2.200 [55.88]	1.520 [38.61]	1.800 [45.72]	1.505 [38.23]	1.83 [46.48]	9-1437410-0	PCB3A08S
10	2.950 [74.93]	2.600 [66.09]	1.920 [48.26]	2.200 [55.88]	1.905 [48.39]	2.23 [56.64]	9-1437410-2	PCB3A10S
12	3.350 [85.09]	3.000 [76.20]	2.320 [58.93]	2.600 [66.09]	2.305 [58.55]	2.63 [66.80]	9-1437410-4	PCB3A12S
15	3.950 [100.33]	3.600 [91.44]	2.920 [74.17]	3.200 [81.28]	2.905 [73.79]	3.23 [82.04]	9-1437410-6	PCB3A15S
16	4.150 [105.41]	3.800 [96.52]	3.120 [79.25]	3.400 [86.38]	3.105 [78.87]	3.43 [87.12]	9-1437410-8	PCB3A16S
18	4.550 [115.57]	4.200 [106.68]	3.520 [89.41]	3.800 [96.52]	3.505 [89.03]	3.83 [97.28]	1437411-2	PCB3A18S
20	4.950 [125.73]	4.600 [116.84]	3.920 [99.57]	4.200 [106.68]	3.905 [99.19]	4.23 [107.44]	2-1546107-0	PCB3A20S
22	5.350 [135.89]	5.000 [127.00]	4.320 [109.73]	4.600 [116.84]	4.305 [109.35]	4.63 [117.60]	1437411-4	PCB3A22S
24	5.750 [146.05]	5.400 [137.16]	4.720 [119.89]	5.000 [127.00]	4.705 [119.51]	5.03 [127.76]	1437411-6	PCB3A24S
30	6.950 [176.53]	6.600 [167.64]	5.920 [150.37]	6.200 [157.48]	5.905 [149.99]	6.23 [158.24]	1437411-8	PCB3A30S
32	7.350 [186.69]	7.000 [177.80]	6.320 [160.53]	6.600 [167.64]	6.305 [160.15]	6.63 [168.40]	1-1437411-0	PCB3A32S
34	7.750 [196.85]	7.400 [187.96]	6.720 [170.69]	7.000 [177.80]	6.705 [170.31]	7.03 [178.56]	3-1546107-4	PCB3A34S
36	8.150 [207.01]	7.800 [198.12]	7.120 [180.85]	7.400 [187.96]	7.105 [180.47]	7.43 [188.72]	1-1437411-3	PCB3A36S
44	9.750 [247.65]	9.400 [238.49]	8.720 [221.49]	9.000 [228.60]	8.705 [221.11]	9.03 [209.36]	1-1437411-5	PCB3A44S

\*Note: For optional Gold-over-Nickel plating on contacts (instead of standard bright tin), change the letter "S" of the Catalog Number to "A".



**Note:** All part numbers are RoHS Compliant.

**0.156" [3.96] Pitch PCB3S Series**



**Material & Finish**

- Housing Material**—Polyester
- Flammability**—UL94V-0
- Color**—Black
- Tubular Contact**—Brass
- PC Contact**—Phosphor Bronze with Bright Tin or Gold over Nickel plating
- Screw**—Steel with Zinc + Chromate plating
- Clamp**—Brass

**Mechanical Properties**

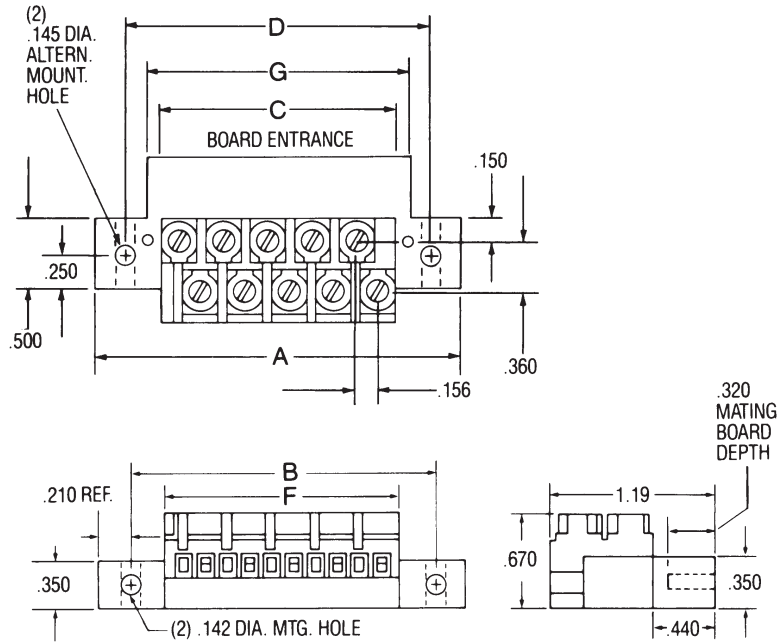
- Pitch (Terminal Spacing)**—  
.156" [3.96]
- Screw Size**—#6-32
- Mounting Screw Size**—#6
- Wire Strip Length**—.66" [16.76]
- Recommended Tightening Torque**—5-8 in.-lbs.
- Recommended Screwdrivers**—  
Xcelite R184, Sears Craftsman 41429, Stanley 1016
- Board Insertion Force (Typ.) per Ckt.**—5 oz. [140g]
- Board Separation Force (Typ.) per Ckt.**—1.5 oz. [42g]
- Durability**—Passes MIL-C-21097: 500 cycles

**Electrical Properties**

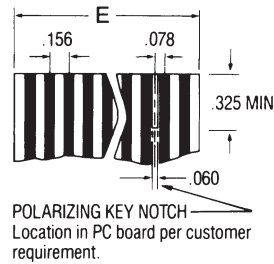
- Maximum Current**—10A
- Operating Voltage**—250V
- Wire Range**—#18-22 AWG
- Dielectric Withstand**—2000V
- Insulation Resistance**—10<sup>11</sup> ohms
- Contact Resistance**—10 milliohms

**Environmental Properties**

- Operating Temperature Range**—  
-65°C to +140°C [-85°F to +284°F]



**Recommended PC Board Layout**



\*Note: .062" [1.57] PC Board thickness.  
.156" [3.96] contact centerline spacing for single- & double-sided boards.

No. of Positions	Dimensions							Part Number	Catalog Number*
	A	B & D	C	E	F	G			
10	2.59 [65.79]	2.16 [54.86]	1.73 [43.94]	1.71 [43.43]	1.65 [41.91]	1.85 [46.99]	1-1546928-0	PCB3S10S	
15	3.37 [85.60]	2.95 [74.93]	2.51 [63.75]	2.50 [63.50]	2.43 [61.72]	2.64 [67.06]	2-1437411-6	PCB3S15S	
18	3.84 [97.54]	3.41 [86.61]	2.98 [75.69]	2.97 [75.44]	2.90 [73.66]	3.11 [78.99]	1-1546928-8	PCB3S18S	
22	4.47 [113.54]	4.04 [102.62]	3.60 [91.44]	3.59 [91.19]	3.54 [89.92]	3.73 [94.74]	2-1437411-9	PCB3S22S	

\*Note: For optional Gold-over-Nickel plating on contacts (instead of standard bright tin), change the letter "S" of the Catalog Number to "A".





**Note:** All part numbers are RoHS Compliant.

**0.156" [3.96] Pitch PCB3D Series, Double-Sided**



**Material & Finish**

- Housing Material**—Polyester
- Flammability**—UL94V-0
- Color**—Black
- Tubular Contact**—Brass
- PC Contact**—Phosphor Bronze
- Screw**—Steel with Zinc + Chromate plating
- Clamp**—Brass

**Mechanical Properties**

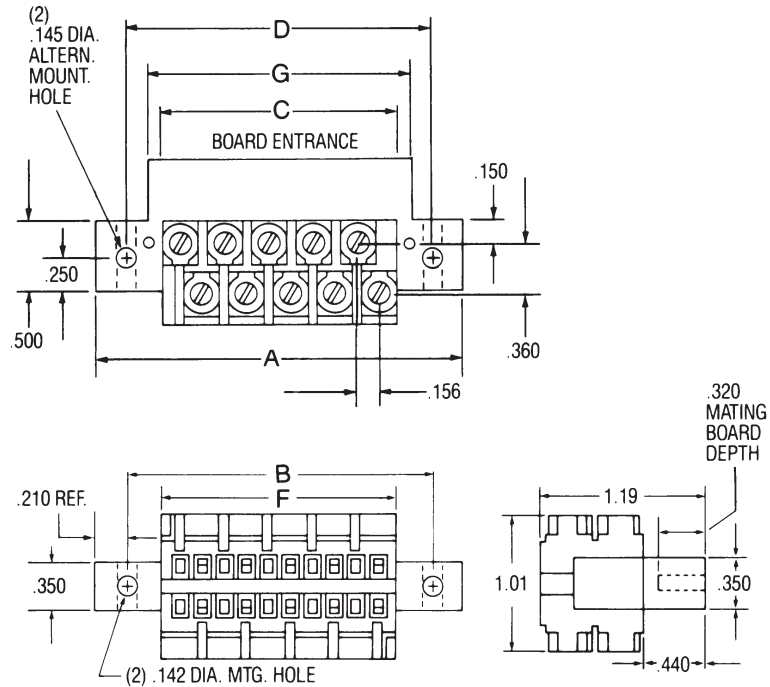
- Pitch (Terminal Spacing)**—  
.156" [3.96]
- Screw Size**—#6-32
- Mounting Screw Size**—#6
- Wire Strip Length**—.66" [16.76]
- Recommended Tightening Torque**—5-8 in.-lbs.
- Recommended Screwdrivers**—  
Xcelite R184, Sears Craftsman 41429,  
Stanley 1016
- Board Insertion Force (Typ.) per Ckt.**—5 oz. [140g]
- Board Separation Force (Typ.) per Ckt.**—1.5 oz. [42g]
- Durability**—Passes MIL-C-21097:  
500 cycles

**Electrical Properties**

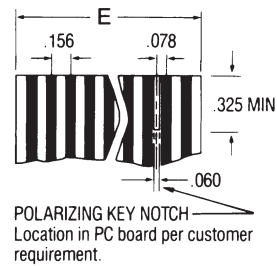
- Maximum Current**—10A
- Operating Voltage**—250V
- Wire Range**—#16 Sol/Str
- Dielectric Withstand**—2000V
- Insulation Resistance**—10<sup>11</sup> ohms
- Contact Resistance**—10 milliohms

**Environmental Properties**

- Operating Temperature Range**—  
-65°C to +140°C [-85°F to +284°F]



**Recommended PC Board Layout**



\*Note: .062" [1.57] PC Board thickness.  
.156" [3.96] contact centerline spacing for single- & double-sided boards.

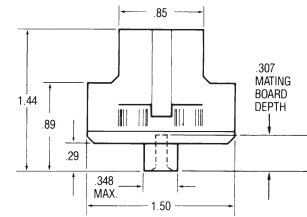
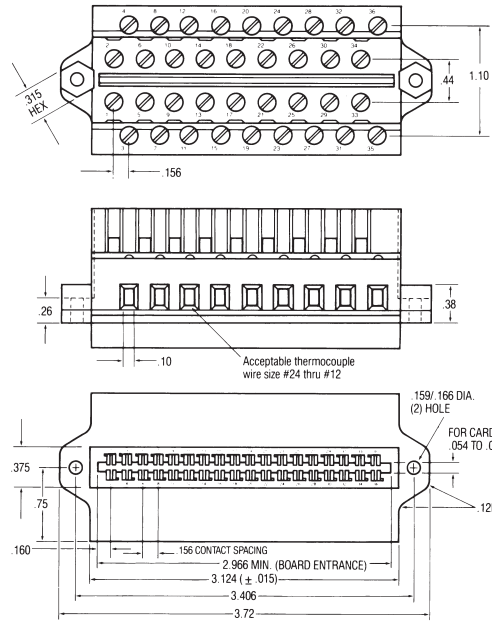
No. of Positions	Dimensions							Part Number	Catalog Number*
	A	B & D	C	E	F	G			
20	2.59 [65.79]	2.16 [54.86]	1.73 [43.94]	1.71 [43.43]	1.65 [41.91]	1.85 [46.99]	1-1437411-7	PCB3D20S	
30	3.37 [85.60]	2.95 [74.93]	2.51 [63.75]	2.50 [63.50]	2.43 [61.72]	2.64 [67.06]	1-1437411-9	PCB3D30S	
36	3.84 [97.54]	3.41 [86.61]	2.98 [75.69]	2.97 [75.44]	2.90 [73.66]	3.11 [78.99]	2-1437411-1	PCB3D36S	
44	4.47 [113.54]	4.04 [102.62]	3.60 [91.44]	3.59 [91.19]	3.54 [89.92]	3.73 [94.74]	2-1437411-3	PCB3D44S	

\*Note: For optional Gold-over-Nickel plating on contacts (instead of standard bright tin), change the letter "S" of the Catalog Number to "A".

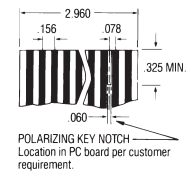


**Note:** All part numbers are RoHS Compliant.

**0.156" [3.96] Pitch PCB5B Series**



**Recommended PC Board Layout**



**Material & Finish**

**Housing Material**—Polyester

**Flammability**—UL94V-0

**Color**—Black

**Tubular Contact**—Brass

**PC Contact**—Phosphor Bronze

**Screw**—Steel with Zinc + Chromate plating

**Clamp**—Brass

**Mechanical Properties**

**Pitch (Terminal Spacing)**—

.156" [3.96]

**Screw Size**—#6-32

**Mounting Screw Size**—#6

**Wire Strip Length**—.25" [6.35]

**Recommended Tightening Torque**—5-8 in.-lbs.

**Recommended Screwdrivers**—

Xcelite R184, Sears Craftsman 41429, Stanley 1016

**Board Insertion Force (Typ.) per Ckt.**—7.6 oz. [215g]

**Board Separation Force (Typ.) per Ckt.**—1.2 oz. [35g]

**Durability**—Passes MIL-C-21097: 500 cycles

**Electrical Properties**

**Maximum Current**—5A

**Operating Voltage**—250V

**Wire Range**—#12 Stranded Only

**Dielectric Withstand**—1500V

**Insulation Resistance**—10<sup>11</sup> ohms

**Contact Resistance**—10 milliohms

**Environmental Properties**

**Operating Temperature Range**—

-65°C to +140°C [-85°F to +284°F]

Description	Part Number	Catalog Number
Standard	3-1437411-0	PCB5B36A

**Note:** All part numbers are RoHS Compliant.

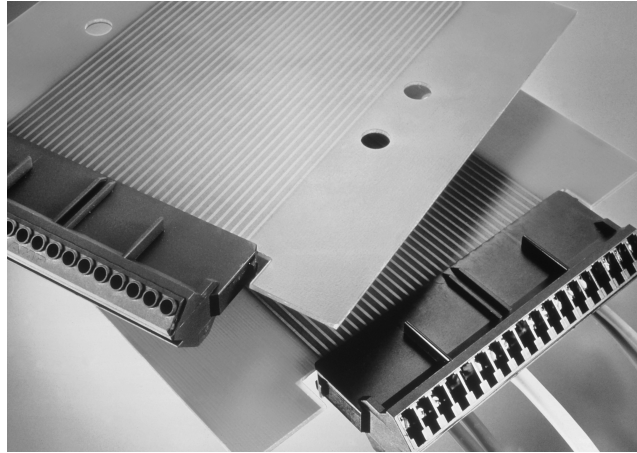
**.197 [5.00] Pitch 45° Eurostyle Series**

**Product Facts**

- n Gold-plated phosphor bronze contacts
- n 5 A current rating at 250 VAC
- n Max. wire size: 14-12 AWG [2 - 2.6 mm<sup>2</sup>]
- n Centerline: 5.0 mm
- n Simple to rewire, even when board mounted
- n Easy access to zinc-plated screw terminals
- n Anti-overstress protection from panel mount latch
- n Stackable
- n Test probe facility
- n Polarized housings
- n Keying plugs

**Product Specification:**  
108-3177

**Application Specification:**  
114-3149



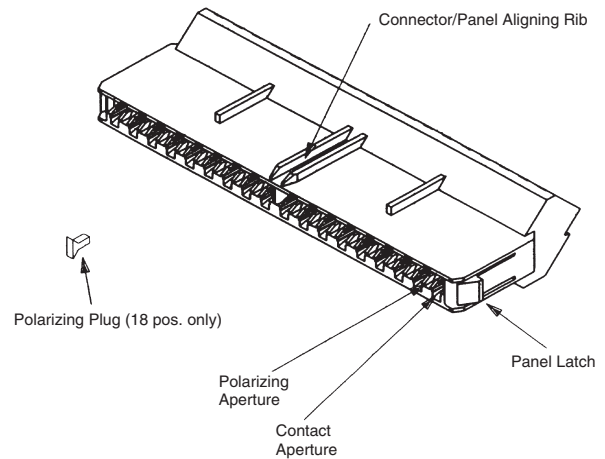
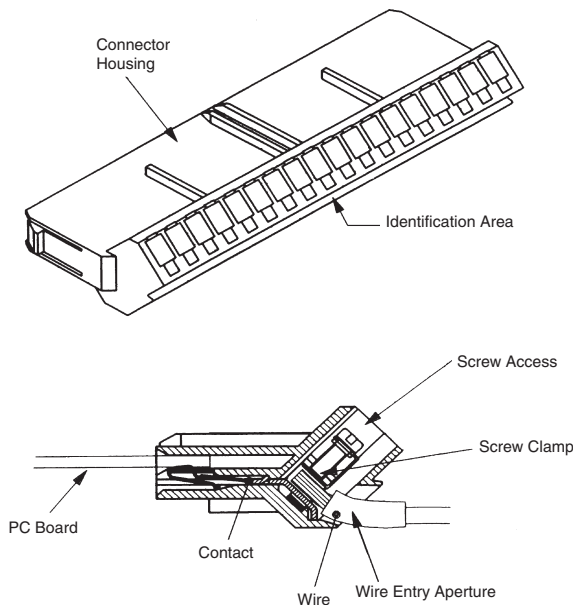
Example: 18-Position Version

This input/output connector can be easily installed or removed from the pc board. The connector is available on 5.0 mm centerline, fully polarized and specially designed to minimize thermal gradient across the panel.

The screw clamp terminal makes rewiring the connector simple, even when installed on the pc board, as no special tooling is required.

Bifurcated, gold-plated phosphor bronze contacts promote excellent signal conductivity and reliability.

No. of Positions	Part Numbers
8	347528-1
12	347601-1
16	346218-1
18	346220-1
20	347529-1



**Note:** All part numbers are RoHS Compliant.

**.197 [5.00] Pitch 45° Eurostyle Series (Continued)**

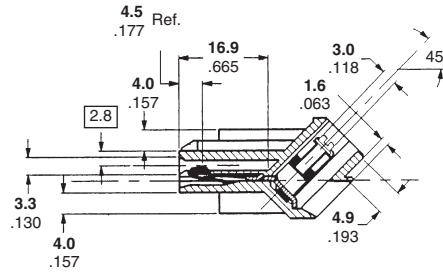
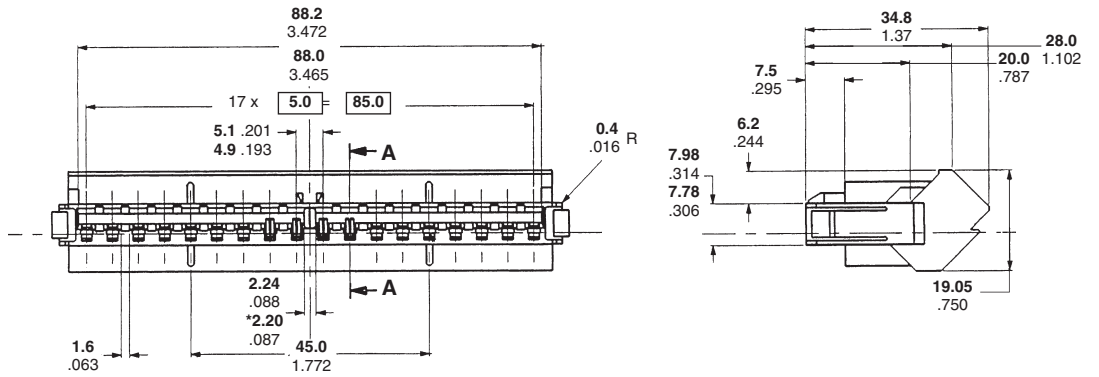
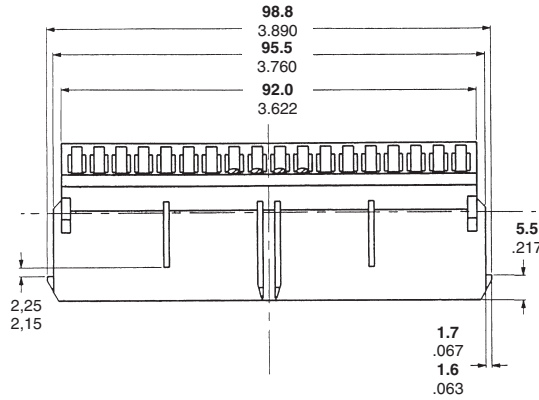
**Material & Finish**

**Housing Material**—Polycarbonate, black, glass-filled, UL 94V-0 rated

**Contact Material**—Phosphor bronze, gold plated

**Screw Clamp**—Steel, zinc plated

**Accepted Wire Sizes**—2.0–2.6 mm<sup>2</sup> (14–12 AWG)



Section A-A

18-position shown, Part Number 346220-1  
\*Dimension for Polarizing Plug, 18-position only.

**Note:** All part numbers are RoHS Compliant.

**0.375" [9.53] Pitch Series PSB**

**Material & Finish**

- Housing Material**—Noryl
- Color**—Black
- Flammability**—UL94V-0
- PC Contact**—Phosphor Bronze with Bright Tin or Gold over Nickel plating
- Screw Contact**—Phosphor Bronze with Bright Tin or Gold over Nickel plating
- Screw**—Steel with Zinc plating

**Mechanical Properties**

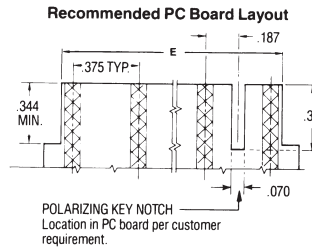
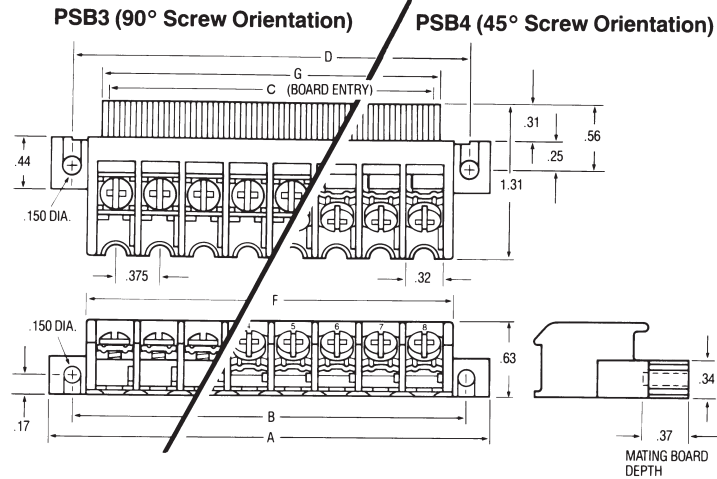
- Pitch (Terminal Spacing)**—  
.375" [9.53]
- Screw Size**—6-32
- Mounting Screw**—#6
- Wire Strip Length**—  
.31" [7.87]
- Wire Lug Width**—  
.320" [8.1mm]
- Recommended Tightening Torque**—  
9 in.-lbs.
- Recommended Screwdrivers**—  
Stanley 1006-4, Sears Craftsman 41581, Any #2 Phillips-Head
- Board Inspection Force (Typ.) per Ckt.**—  
6 oz. [170g]
- Board Separation Force (Typ.) per Ckt.**—  
2 oz. [57g]
- Durability**—  
Passes MIL-C-21097: 500 cycles

**Electrical Properties**

- Maximum Current**—10A
- Operating Voltage**—300V, 600V (limited rating)
- Wire Range**—#12-26 AWG
- Dielectric Withstand**—3000V
- Insulation Resistance**— $10^{11}$  ohms
- Contact Resistance**—5 milliohms

**Environmental Properties**

- Operating Temperature Range**—  
-60°C to +95°C [-76°F to +203°F]



No. of Positions	Dimensions						
	A	B & D	C	E	F	G	
06	3.00 [76.20]	2.625 [66.68]	2.000 [50.80]	1.990 [50.55]	2.36 [59.94]	2.16 [54.86]	
08	3.75 [95.25]	3.375 [85.73]	2.750 [69.85]	2.740 [69.60]	3.11 [78.99]	2.91 [73.91]	
10	4.50 [114.30]	4.125 [104.78]	3.500 [88.90]	3.490 [88.65]	3.86 [98.04]	3.66 [92.96]	
12	5.25 [133.35]	4.875 [123.83]	4.250 [107.95]	4.240 [107.70]	4.61 [117.09]	4.41 [112.01]	
14	6.00 [152.40]	5.625 [142.88]	5.000 [127.00]	4.990 [126.75]	5.36 [136.14]	5.16 [131.06]	
16	6.75 [171.45]	6.375 [161.93]	5.750 [146.05]	5.740 [145.80]	6.11 [155.19]	5.91 [151.11]	
18	7.50 [190.50]	7.125 [180.98]	6.500 [165.10]	6.490 [164.85]	6.86 [174.24]	6.66 [169.16]	
20	8.25 [209.55]	7.875 [200.03]	7.250 [184.15]	7.235 [183.77]	7.61 [193.29]	7.41 [188.21]	
22	9.00 [228.60]	8.625 [219.08]	8.000 [203.20]	7.985 [202.82]	8.36 [212.34]	8.16 [207.26]	
24	9.75 [247.65]	9.375 [238.13]	8.750 [222.25]	8.735 [221.87]	9.11 [231.39]	8.91 [226.31]	



**Note:** All part numbers are RoHS Compliant.

**0.375" [9.53] Pitch Series PSB (Continued)**

**Ordering Information**

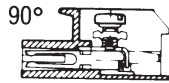
**PSB** **3** **K** **B** **08** **S** **NN** **NN**

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

**A PSB Printed Circuit Board Connector**

**B Terminal Screw Orientation**

3 = 90°



4 = 45°



**C Contact Spacing**

K = .375 (3/8)

**D Terminal Screw Type**

C = #6 Phil-slot steel screw and clamp

**E Number of Circuits**

06 through 24 (even numbers only)

**F Terminal Plating**

(not screw)

A = Gold

S = Bright Tin

**G Top Hardware Options**

NN = No optional hardware

**QUICK-CONNECT BLADES**

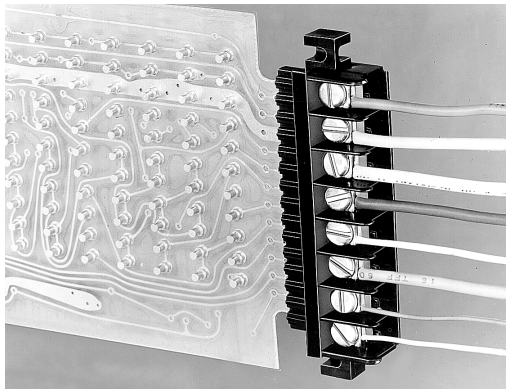
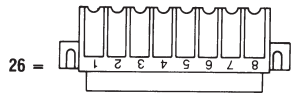
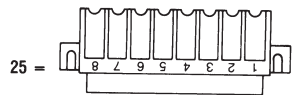
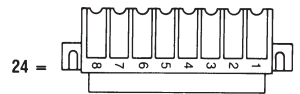
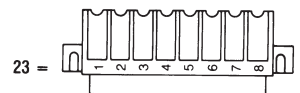
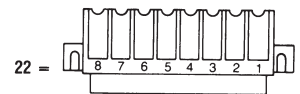
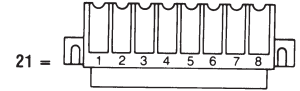
.250 [6.35] wide x.032 [.81] thick	.187 wide [4.75] x.020 [.51] thick
21	41= ✓ *
22	42= □ *
23	43= ⌒ **
24	44= ⌒
25	45= ⌒
29	49= ⌒ **
30	50= ⌒ **
31	51= ⌒ **
34	54= ⌒ *
35	55= ⌒
36	56= ⌒ *

\* PSB4K only  
\*\* PSB3K only

**80 = Single-Sided Solder Tab (PSB3K only)**

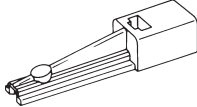

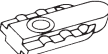



**H Circuit Identification Option**

NN = No circuit identification



**Note:** All part numbers are RoHS Compliant.

**Accessories for Series PCB**

Description		Catalog Number	Part Number
<b>Add-on Card Guide (Nylon)</b>			
for PCB2B, PCB3D and PCB3S		PC18	6-1437418-2
<b>Polarizing Keys (Nylon)</b> for PCB1A, 1B, 2B, 3A,			
		PC17	1437410-5
for PCB3D, 3S, 5B		PC19	1437410-6
<b>Two-Circuit Jumper</b>			
for PCB1B, PCB2B and PCB5B		PCBJ1	6-1437418-4
for PCB1A and PCB3A		PCBJ2	6-1437418-5
for PCB3D and PCB3S		PCBJ3	—



**Note:** All part numbers are RoHS Compliant.

**Accessories for Series PSB**

Description	Part Number	Catalog Number
Polarizing Key	1437410-5	PC17
<b>QUICK-CONNECT Tabs</b>	.250 [6.35] wide x .032 [.81] thick	.187 [4.75] wide x .020 thick [.51]
	Part No.	Cat. No.
45°, Two-sided (PSB4K only)	6-1437418-6	QC21
90°, Two-sided (PSB4K only)	6-1437402-4	QC22
Flat, Single-sided (PSB3K only)	6-1437402-5	QC23
45°, Single-sided	6-1437402-6	QC24
90°, Single-sided	6-1437402-7	QC25
Solder Tab (PSB3K)	1-1437403-1	ST80
Over-the-Barrier Jumpers (Two-Circuit) Spade	6-1437418-0	J74
Ring Tongue	6-1437418-1	J75

Description	Part Number	Catalog Number
Around-the-Barrier Jumpers* Spade 40 ccts, snap apart to desired lengths	5-1437418-4	J6140
Flanged Spade 40 ccts, snap apart to desired lengths	5-1437418-5	J6240
Ring Tongue 40 ccts, snap apart to desired lengths	5-1437418-6	J6340

\*Note: Jumper extends 0.54 horizontally from center of screw.

**Related Product Data**

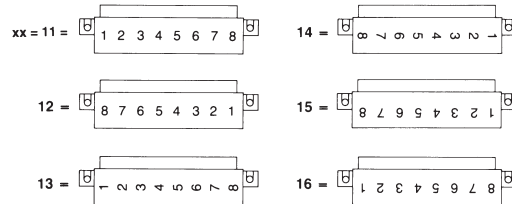
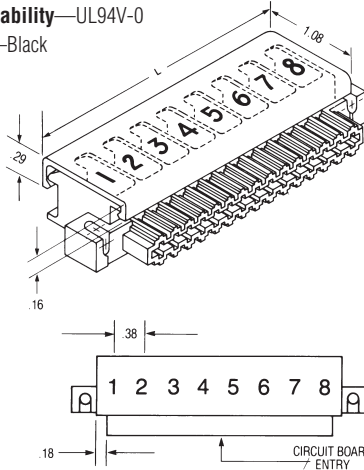
**Wire Pins and Ferrules**—Pages 135-137  
For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.

**Covers for Series PSB**

**Housing Material**—PVC (50° temp. index)

**Flammability**—UL94V-0

**Color**—Black



No. of Positions	Dim. L	Part Number	Catalog Number*
06	2.41 [61.21]	1-1437409-4	PSB3KCC06
08	3.16 [80.26]	3-1437406-4	PSB3KCC08
10	3.91 [99.31]	1437409-6	PSB3KCC10
12	4.66 [118.36]	1437409-7	PSB3KCC12
14	5.41 [137.41]	1437409-8	PSB3KCC14
16	6.16 [156.46]	1437409-9	PSB3KCC16
18	6.91 [175.51]	1-1437409-0	PSB3KCC18
20	7.66 [194.56]	1-1437409-3	PSB3KCC20
22	8.41 [213.61]	3-1437406-5	PSB3KCC22
24	9.16 [232.66]	1-1437409-1	PSB3KCC24
26	9.91 [251.71]	1-1437409-2	PSB3KCC26
28	10.66 [270.76]	—	PSB3KCC28

\*Circuit Identification Option  
If marking is desired, select the Code Number listed for the appropriate configuration and add that number to the Catalog Number. Characters are 1/8" high.

**Note:** All part numbers are RoHS Compliant.

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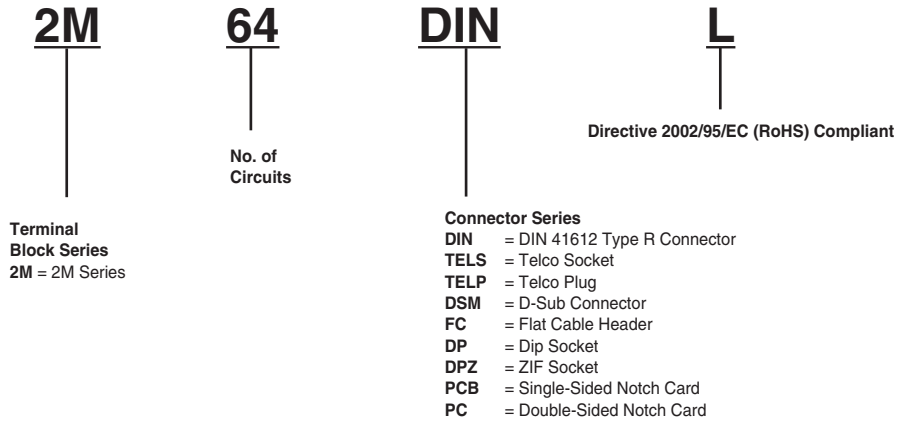
## Table of Contents—Interface Module Systems

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Overview (Catalog Numbering Code) .....	196
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Telco Connector .....	199
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8 Pin Octal Socket Assemblies .....	205
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**Note:** All part numbers are RoHS Compliant.

**Catalog Numbering Code**



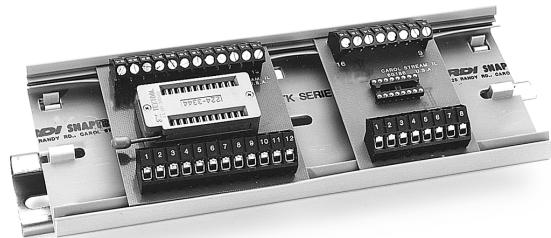
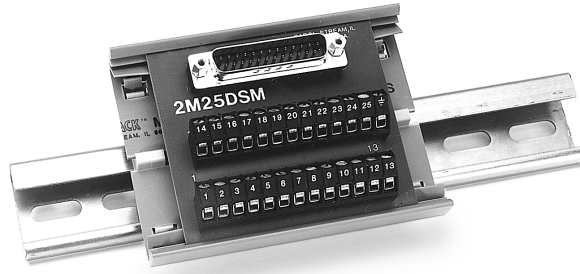
**NOTE:** Some catalog number combinations are not valid. Check appropriate catalog pages before ordering.

**Note:** All part numbers are RoHS Compliant.

## Interface Modules

### Product Facts

- n Catalog designs for many industry connectors:
  - n DIN 41612 Connector
  - n Telco Connector
  - n D-Sub Connector
  - n Flat Cable Connector (daisy chain possible)
  - n DIP & ZIF Sockets
  - n Card Edge Modules
- n Mounts on SNAPTRACK Channel which can be panel mounted or snapped to a DIN rail.
- n Terminal Block screws supplied in ready-to-wire position to save installation time.



These Modules convert industry specific connectors to field wiring and are designed to supply custom solutions.

**Note:** All part numbers are RoHS Compliant.

**DIN 41612 Connector**



**Material & Finish**

**Connector:**

**Housing Material**—Thermoplastic polyester.

**Flammability**—UL94V-0

**Terminals**—Copper alloy, selective gold over nickel

**Terminal Block:**

**Housing Material**—Thermoplastic polyester

**Flammability**—UL94V-0

**Color**—Black

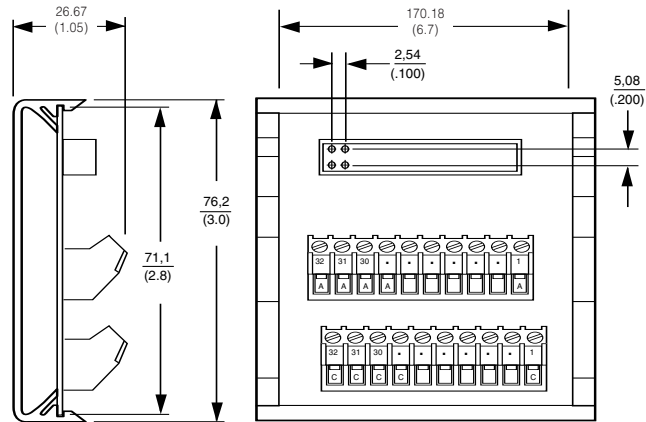
**Max. Operating Temperature**—120°C [248°]

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

**Screws**—#3-48, steel zinc plated

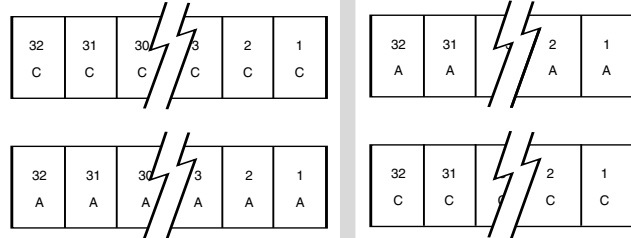
**Wire Range**—12-22 AWG

**Mounting**—2TK2 and 2TK2D Series SNAPTRACK Channel



**2M64DIN-C**

**2M64DIN**

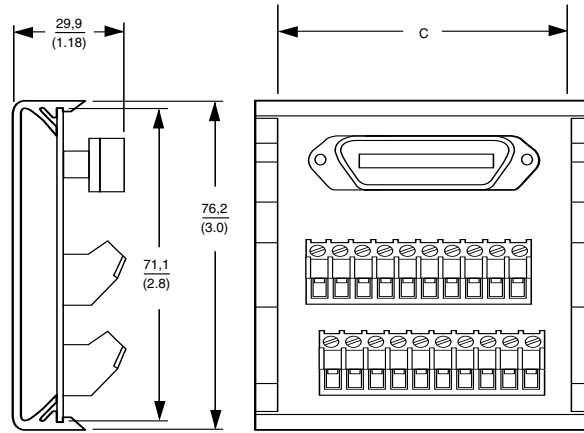
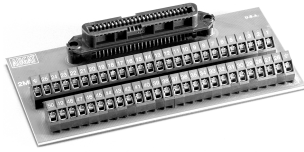


Description	DIN Connector Mates With	Non RoHS Compliant	
		Part Number	Catalog Number
64 Position reverse male DIN (Type R), A and C filled	Type Q	3-1437684-4	2M64DIN
64 Position male DIN (Type C), A and C filled	Type B	3-1437684-5	2M64DIN-C

Description	DIN Connector Mates With	RoHS Compliant	
		Part Number	Catalog Number
64 Position reverse male DIN (Type R), A and C filled	Type Q	1776645-1	2M64DINL
64 Position male DIN (Type C), A and C filled	Type B	1776646-1	2M64DIN-CL

**Note:** All part numbers are RoHS Compliant.

**Telco Connector**



**Material & Finish**

**Connector:**

**Housing Material**—Thermoplastic polyester

**Flammability**—UL94V-0

**Terminals**—Copper alloy, selective gold over nickel

**Application Data**—2M50TELS(P)  
Complies with SCSI Connections

**Terminal Block:**

**Housing Material**—Thermoplastic polyester

**Flammability**—UL94V-0

**Color**—Black

**Max. Operating Temperature**—120°C [248°]

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

**Screws**—#3-48, steel zinc plated

**Wire Range**—12-22 AWG

**Mounting**—2TK2 and 2TK2D Series SNAPTRACK Channel

No. of Positions	Dim. C	Non RoHS Compliant			
		Socket		Plug	
		Part Number	Catalog Number	Part Number	Catalog Number
36	4.30 (109.2)	2-1437684-1	2M36TELS	—	2M36TELP
50	5.70 (144.8)	3-1437684-2	2M50TELS	3-1437684-1	2M50TELP

No. of Positions	Dim. C	RoHS Compliant			
		Socket		Plug	
		Part Number	Catalog Number	Part Number	Catalog Number
36	4.30 (109.2)	1776826-1	2M36TELSL	—	2M36TELPL
50	5.70 (144.8)	1776604-1	2M50TELSL	1776643-1	2M50TELPL

## D-Sub Connector



### Material & Finish

#### Connector:

**Housing Material**—Thermoplastic polyester.

**Flammability**—UL94V-0

**Terminals**—Copper alloy, selective gold over nickel

**Shell Material**—Bright tin plated, female screw locks installed

#### Terminal Block:

**Housing Material**—Thermoplastic polyester

**Flammability**—UL94V-0

**Color**—Black

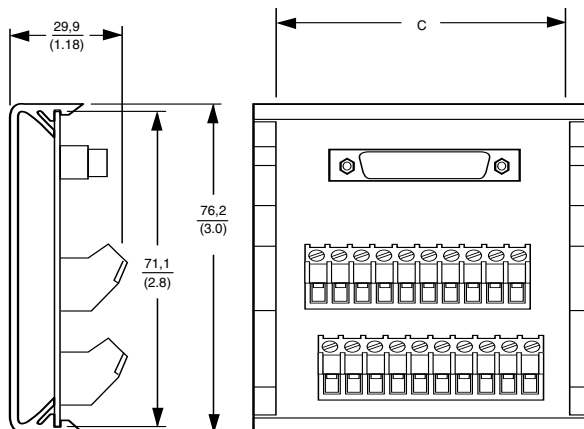
**Max. Operating Temperature**—120°C [248°]

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

**Screws**—#3-48, steel zinc plated

**Wire Range**—12-22 AWG

**Mounting**—2TK2 and 2TK2D Series SNAPTRACK Channel



No. of Positions	Dim. C	Non RoHS Compliant	
		Part Number	Catalog Number
09	1.50 (38.1)	1437684-3	2M09DSM
15	2.10 (53.3)	1437684-7	2M15DSM
25	3.10 (78.7)	1-1437684-8	2M25DSM
37	4.31 (109.5)	2-1437684-3	2M37DSM
50	5.93 (150.6)	2-1437684-9	2M50DSM

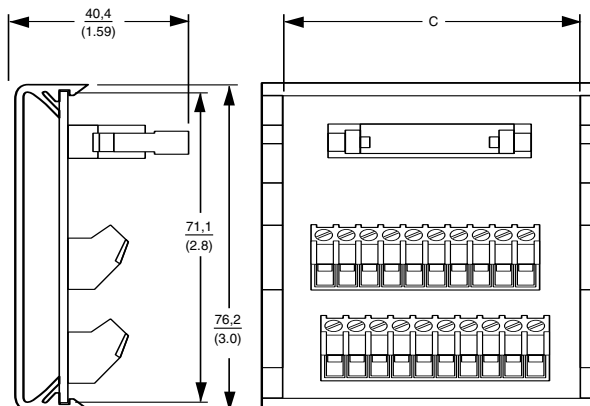
**Note:** Female D-Sub connector available as 2MxxDSF. Consult Technical Support Center.

No. of Positions	Dim. C	RoHS Compliant	
		Part Number	Catalog Number
09	1.50 (38.1)	1546693-1	2M09DSML
15	2.10 (53.3)	1546694-1	2M15DSML
25	3.10 (78.7)	1776224-1	2M25DSML
37	4.31 (109.5)	1776612-1	2M37DSML
50	5.93 (150.6)	1776613-1	2M50DSML

**Note:** Female D-Sub connector available as 2MxxDSFL. Consult Technical Support Center.



## Flat Cable Connector



### Material & Finish

#### Connector:

**Header**—Brass, gold over nickel, UL94V-0 thermoplastic

**Connector**—Copper alloy; gold over nickel 94V-0 thermoplastic

**Wire Range**—26-30 AWG solid, 28 AWG stranded

**Maximum Current**—1 Ampere

#### Terminal Block:

**Housing Material**—Thermoplastic polyester

**Flammability**—UL94V-0

**Color**—Black

**Max. Operating Temperature**—120°C [248°]

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

**Screws**—#3-48, steel zinc plated

**Wire Range**—12-22 AWG

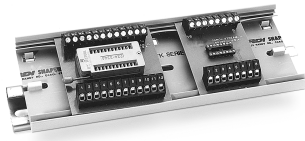
**Mounting**—2TK2 and 2TK2D Series SNAPTRACK Channel

No. of Positions	Dim. C	Non RoHS Compliant		RoHS Compliant	
		Part Number	Catalog Number	Part Number	Catalog Number
10	38.1 (1.50)	1437684-5	2M10FC	1776615-1	2M10FCL
14	53.3 (2.10)	1437684-6	2M14FC	1776616-1	2M14FCL
16	58.4 (2.30)	1-1437684-1	2M16FC	1776625-1	2M15FCL
20	68.6 (2.70)	1-1437684-2	2M20FC	1776626-1	2M20FCL
26	81.3 (3.20)	1-1437684-9	2M26FC	1776630-1	2M26FCL
34	104.1 (4.10)	2-1437684-0	2M34FC	1776638-1	2M34FCL
40	119.4 (4.70)	2-1437684-6	2M40FC	1776640-1	2M40FCL
50	139.7 (5.50)	3-1437684-0	2M50FC	1776642-1	2M50FCL
60	165.1 (6.50)	3-1437684-3	2M60FC	1776644-1	2M60FCL
64	170.2 (6.70)	3-1437684-6	2M64FC	1776647-1	2M64FCL

**Note:** Strain relief connector supplied with all assemblies.

**Note:** All part numbers are RoHS Compliant.

**DIP and ZIF Sockets**



**Material & Finish**

**Connector:**

**Terminal**—Contacts copper alloy, gold over nickel

**Terminal Block:**

**Housing Material**—Thermoplastic polyester

**Flammability**—UL94V-0

**Color**—Black

**Max. Operating Temperature**—120°C [248°]

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

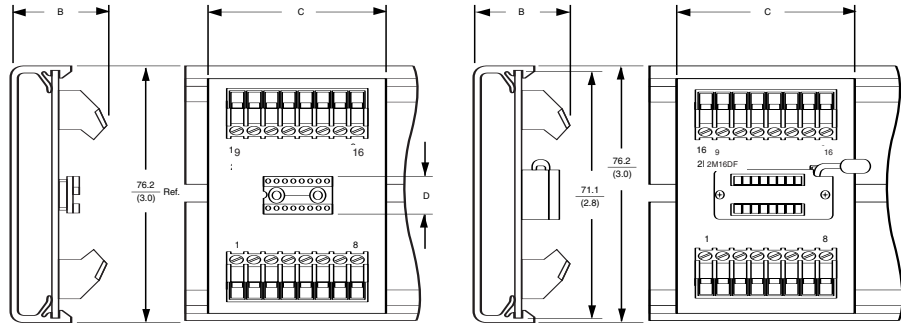
**Screws**—#3-48, steel zinc plated

**Wire Range**—12-22 AWG

**Mounting**—2TK2 and 2TK2D Series SNAPTRACK Channel

2M16DP

2M16DPZ



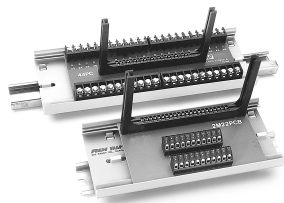
No. of Positions	Socket Pin Spacing Grid Size Dimensions			Non RoHS Compliant	
	B	C	D	Part Number	Catalog Number
<b>DIP Socket to Screw Terminal</b>					
8	1.05 (26.7)	1.20 (30.5)	.100 x .300 (2.5 x 7.6)	1437684-2	2M08DP
16	1.05 (26.7)	2.00 (50.8)	.100 x .300 (2.5 x 7.6)	1437684-8	2M16DP
24	1.05 (26.7)	2.80 (71.1)	.100 x .600 (2.5 x 15.2)	1-1437684-4	2M24DP
40	1.05 (26.7)	4.40 (111.8)	.100 x .600 (2.5 x 15.2)	2-1437684-4	2M40DP
<b>ZIF Socket to Screw Terminal</b>					
16	1.40 (35.6)	2.00 (50.8)	—	1-1437684-0	2M16DPZ
24	1.40 (35.6)	2.80 (71.1)	—	1-1437684-5	2M24DPZ
40	1.40 (35.6)	4.40 (111.8)	—	2-1437684-5	2M40DPZ

**Note:** ZIF denotes zero insertion force.

No. of Positions	Socket Pin Spacing Grid Size Dimensions			RoHS Compliant	
	B	C	D	Part Number	Catalog Number
<b>DIP Socket to Screw Terminal</b>					
8	1.05 (26.7)	1.20 (30.5)	.100 x .300 (2.5 x 7.6)	1776599-1	2M08DPL
16	1.05 (26.7)	2.00 (50.8)	.100 x .300 (2.5 x 7.6)	1776600-1	2M16DPL
24	1.05 (26.7)	2.80 (71.1)	.100 x .600 (2.5 x 15.2)	1776602-1	2M24DPL
40	1.05 (26.7)	4.40 (111.8)	.100 x .600 (2.5 x 15.2)	1776603-1	2M40DPL
<b>ZIF Socket to Screw Terminal</b>					
16	1.40 (35.6)	2.00 (50.8)	—	1776624-1	2M16DPZL
24	1.40 (35.6)	2.80 (71.1)	—	1776628-1	2M24DPZL
40	1.40 (35.6)	4.40 (111.8)	—	1776639-1	2M40DPZL

**Note:** ZIF denotes zero insertion force.

## Card Edge Modules



### Material & Finish

**Connector**—Gold over nickel contact with card guide—accepts up to 4.5" [114.30] wide board. 0.156" [3.96] pitch (terminal spacing)

### 22PCB, 44PC

#### Terminal Block Tri-Barrier

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

**Screws**—#4-40 steel zinc with clear chromate with captive wire clamping plate

**Wire Range**—14-22 AWG

**Mounting**—Fits TK2 & TK2D Series

### 2M22PCB, 2M44PC

#### Terminal Block:

**Housing Material**—Thermoplastic polyester

**Flammability**—UL94V-0

**Color**—Black

**Max. Operating Temperature**—120°C [248°]

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

**Screws**—#3-48, steel zinc plated

**Wire Range**—12-22 AWG

**Mounting**—2TK2 and 2TK2D Series SNAPTRACK Channel

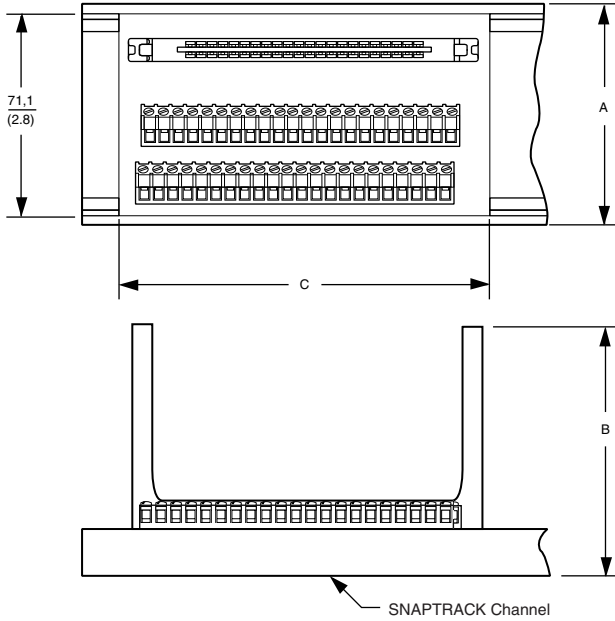
Description	Non RoHS Compliant	
	Part Number	Catalog Number
For single-sided notched cards. Numbered Terminals 1-22 and A-Z	1437684-1	22PCB
For double-sided, notched cards. Numbered terminals A-Z, 1-22 and 1-44	3-1437684-7	44PC
Similar to 22PCB but all terminal positions are on one side of board	1-1437684-3	2M22PCB
Similar to 44PC but all terminal positions are on one side of board	2-1437684-7	2M44PC

Description	RoHS Compliant	
	Part Number	Catalog Number
For single-sided notched cards. Numbered Terminals 1-22 and A-Z	1776614-1	22PCBL
For double-sided, notched cards. Numbered terminals A-Z, 1-22 and 1-44	1776649-1	44PCL
Similar to 22PCBL but all terminal positions are on one side of board	1776627-1	2M22PCBL
Similar to 44PCL but all terminal positions are on one side of board	1776641-1	2M44PCL

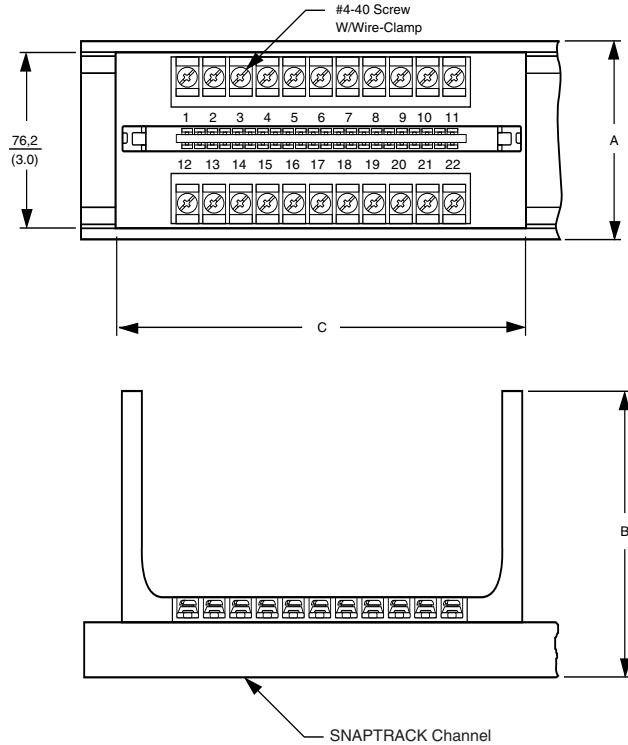
**Note:** All part numbers are RoHS Compliant.

**Card Edge Modules (Continued)**

**2M22PCB and 2M44PC**



**22PCB and 44PC**



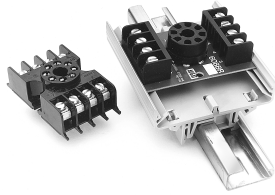
No. of Positions	Track Size	Dimensions				Non RoHS Compliant	
		A Ref.	B	C	PC Card Width	Part Number	Catalog Number
22	TK(2D)	80.3 (3.16)	90.4 (3.56)	127.0 (5.00)	114.3 (4.5)	1437684-1	22PCB
	2TK(2D)	69.9 (2.75)	90.4 (3.56)	127.0 (5.00)	114.3 (4.5)	1-1437684-3	2M22PCB
44	TK (2D)	80.3 (3.16)	90.4 (3.56)	190.5 (7.50)	114.3 (4.5)	3-1437684-7	44PC
	2TK(2D)	69.9 (2.75)	90.4 (3.56)	127.0 (5.00)	114.3 (4.5)	2-1437684-7	2M44PC

No. of Positions	Track Size	Dimensions				RoHS Compliant	
		A Ref.	B	C	PC Card Width	Part Number	Catalog Number
22	TK(2D)	80.3 (3.16)	90.4 (3.56)	127.0 (5.00)	114.3 (4.5)	1776614-1	22PCBL
	2TK(2D)	69.9 (2.75)	90.4 (3.56)	127.0 (5.00)	114.3 (4.5)	1776627-1	2M22PCBL
44	TK (2D)	80.3 (3.16)	90.4 (3.56)	190.5 (7.50)	114.3 (4.5)	1776649-1	44PCL
	2TK(2D)	69.9 (2.75)	90.4 (3.56)	127.0 (5.00)	114.3 (4.5)	1776641-1	2M44PCL

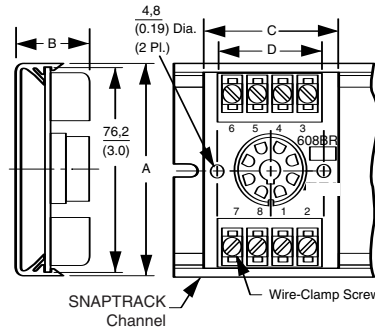
**Note:** All part numbers are RoHS Compliant.

## 8 Pin Octal Socket Assemblies

### SM8 and 608BR



### 318BR, 208BR, 608BR, 218BR



### Material & Finish

#### 208BR, 218BR, 318BR

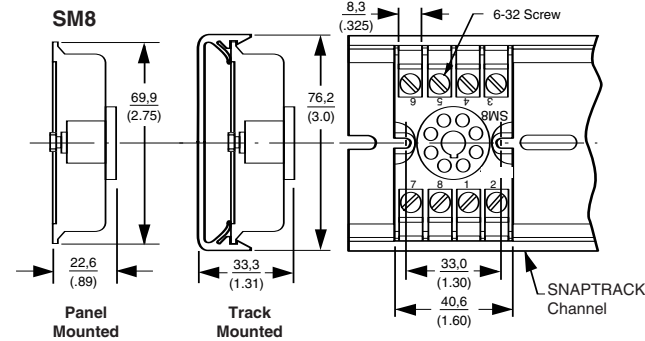
- Rating**—10A, 150V
- Screws**—#4-40 zinc plated with clear chromate, with wire clamp
- Wire Range**—4-22 AWG
- Bails**—RB1, TB1(see accessory page 212)

#### 608BR

- Rating**—10A, 250V
- Screws**—#6-32 zinc plated with wire clamp
- Wire Range**—12-22 AWG
- Bails**—RB1, TB1(see accessory page 212)

#### SM8

- Rating**—10A, 300V
- Material**—ABS
- Flammability**—UL94V-0
- Contacts**—Tin over copper-plated phosphor-bronze.
- Screws**—#6-32 zinc plated with clear chromate with wire clamping plates
- Wire Range**—12-22 AWG
- Max. Operating Temperature**—60°C [140°F]



Dimensions				Non RoHS Compliant		RoHS Compliant
A	B	C	D	Part Number	Catalog Number	SNAPTRACK® Channel
3.16 (80.3)	1.13 (28.7)	2.00 (50.8)	1.69 (42.9)	1437683-6	208BR	TK2(D)
3.16 (80.3)	1.13 (28.7)	1.50 (38.1)	—	1-1437683-0	218BR	TK2(D)
2.90 (73.7)	1.13 (28.7)	1.50 (38.1)	—	1-1437683-4	318BR	2TK2(D)
3.16 (80.3)	1.13 (28.7)	2.00 (50.8)	1.69 (42.9)	1-1437683-6	608BR	TK2(D)
—	—	—	—	2-1437683-8	SM8	2TK2

**Note:** SM8 is a molded product with mounting holes provided.

### Related Product Data

Sockets on this page will fit the following relays:

- Tyco Electronics Relay Series**—SCB, SCC, SCE, SRC, SSC, SST, VMA
- P&B Relay Series**—CB, CD, CG, CH, CK, CR, CN1, CNS, CS, KRP/KRPA, S89R\_P, 155
- SCHRACK Relay Series**—MT

For more information on Relays request Catalog 1308242.

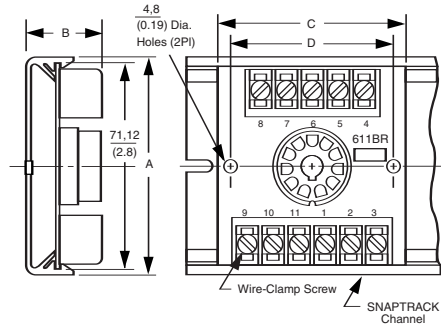
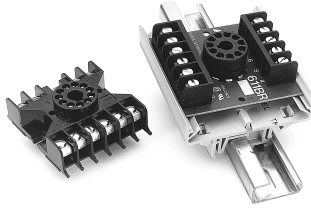
Dimensions				RoHS Compliant		
A	B	C	D	Part Number	Catalog Number	SNAPTRACK® Channel
3.16 (80.3)	1.13 (28.7)	2.00 (50.8)	1.69 (42.9)	1776633-1	208BRL	TK2(D)
3.16 (80.3)	1.13 (28.7)	1.50 (38.1)	—	1776617-1	218BRL	TK2(D)
2.90 (73.7)	1.13 (28.7)	1.50 (38.1)	—	1776619-1	318BRL	2TK2(D)
3.16 (80.3)	1.13 (28.7)	2.00 (50.8)	1.69 (42.9)	1776620-1	608BRL	TK2(D)
—	—	—	—	2-1437683-8	SM8	2TK2

**Note:** SM8 is a molded product with mounting holes provided.

**Note:** All part numbers are RoHS Compliant.

## 11 Pin Socket Assemblies

### SM11 and 611BR



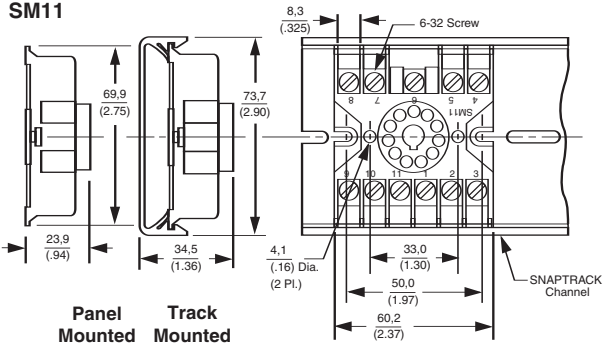
#### Material & Finish

#### 211BR, 311BR

**Rating**—10A, 150V  
**Screws**—#4-40 zinc plated with clear chromate with wire clamps  
**Wire Range**—14-22 AWG  
**Bails**—RB1, TB1 (see accessory page 212)

#### 611BR

**Rating**—10A, 250V  
**Screws**—#6-32 zinc plated with clear chromate, with wire clamps.  
**Wire Range**—12-22 AWG  
**Bails**—RB1, TB1 (see accessory page 212)



#### SM11

**Rating**—10A, 300V  
**Material**—ABS  
**Flammability**—UL94V-0  
**Max. Operating Temperature**—60°C [140°F]  
**Contacts**—Tin over copper-plated phosphor-bronze.  
**Screws**—#6-32 zinc plated with clear chromate, with wire clamps  
**Wire Range**—12-22 AWG  
**Bails**—RB5 (see accessory page 212)

Dimensions				Non RoHS Compliant		RoHS Compliant
A	B	C	D	Part Number	Catalog Number	SNAPTRACK® Channel
3.16 (80.3)	1.13 (28.7)	2.13 (54.1)	1.18 (46.0)	1437683-7	211BR	TK2(D)
2.90 (73.7)	1.13 (28.7)	2.13 (54.1)	1.18 (46.0)	1-1437683-2	311BR	2TK2(D)
3.16 (80.3)	1.13 (28.7)	2.75 (69.9)	2.30 (60.5)	1-1437683-8	611BR	TK2(D)
—	—	—	—	2-1437683-7	SM11	2TK

**Note:** SM11 is a molded product with mounting holes provided.

#### Related Product Data

Sockets on this page will fit the following relays:

- Tyco Electronics Relay Series**—SCF, SSC, SCB, SCC, SST
- P&B Relay Series**—CB, CD, CG, CH, CK, CNM5, CNS, CNT, KBP, KRP/KRPA, 155
- SCHRACK Relay Series**—MT

For more information on Relays request Catalog 1308242.

Dimensions				RoHS Compliant		
A	B	C	D	Part Number	Catalog Number	SNAPTRACK® Channel
3.16 (80.3)	1.13 (28.7)	2.13 (54.1)	1.18 (46.0)	1776634-1	211BRL	TK2(D)
2.90 (73.7)	1.13 (28.7)	2.13 (54.1)	1.18 (46.0)	1776827-1	311BRL	2TK2(D)
3.16 (80.3)	1.13 (28.7)	2.75 (69.9)	2.30 (60.5)	1776622-1	611BRL	TK2(D)
—	—	—	—	2-1437683-7	SM11	2TK

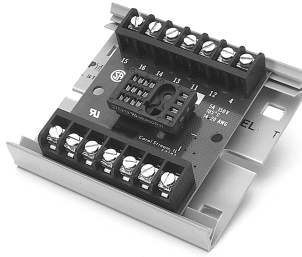
**Note:** SM11 is a molded product with mounting holes provided.



**Note:** All part numbers are RoHS Compliant.

**16 Pin Miniature Socket Assemblies**

**204BS**



**Material & Finish**

**Rating**—5A,150V

**Max. Operating Temperature**—105°C

**Screws**—#4-40 zinc plated with captive wire clamping plate

**Wire Range**—14-22 AWG

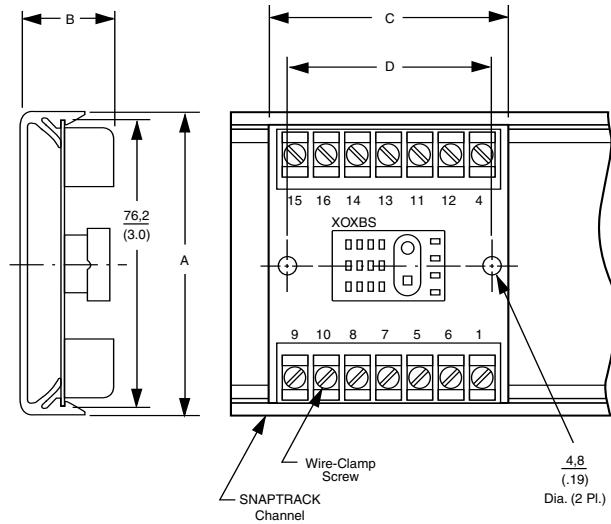
**Bails**—204BS-RB4 (see accessory page 212)

**Related Product Data**

Sockets on this page will fit the following relays:

**P&B Relay Series**—R10

For more information on Relays request Catalog 1308242.



Dimensions				Fits Relay	Non RoHS Compliant		RoHS Compliant
A	B	C	D		Part Number	Catalog Number	SNAPTRACK® Channel
3.16 (80.3)	1.00 (25.4)	1.50 (38.1)	—	2PDT	1437683-4	202BS	TK2(D)
3.16 (80.3)	1.00 (25.4)	2.50 (63.5)	2.13 (54.1)	4PDT	1437683-5	204BS	TK2

**Note:** Holes provided for bails, see page 212.

Dimensions				Fits Relay	RoHS Compliant		
A	B	C	D		Part Number	Catalog Number	SNAPTRACK® Channel
3.16 (80.3)	1.00 (25.4)	1.50 (38.1)	—	2PDT	1776631-1	202BSL	TK2(D)
3.16 (80.3)	1.00 (25.4)	2.50 (63.5)	2.13 (54.1)	4PDT	1776632-1	204BSL	TK2

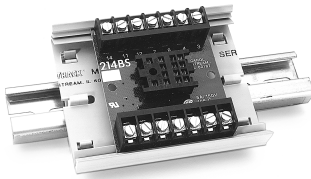
**Note:** Holes provided for bails, see page 212.



**Note:** All part numbers are RoHS Compliant.

## 14 Pin Miniature Socket Assemblies

### 214BS



#### Material & Finish

**Ratings**—5A,150V

#### 214BS, 314BS

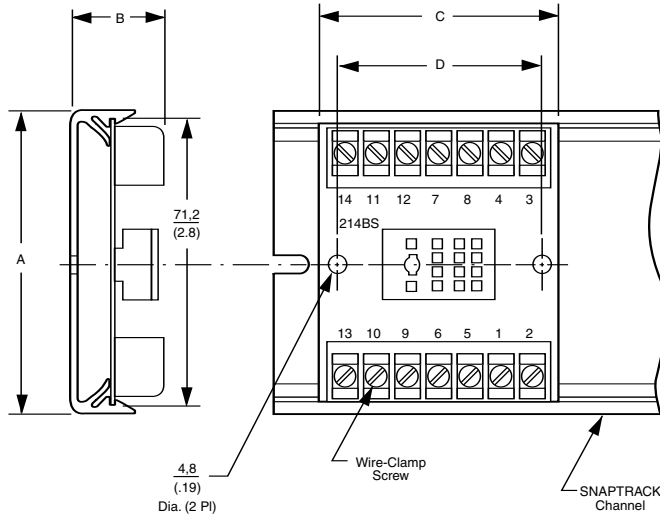
**Screws**—#4-40 zinc plated with clear chromate, with captive wire clamping plate

**Wire Range**—14-22 AWG

#### 614BS

**Screws**—#6-32 zinc plated with clear chromate, with wire clamp

**Wire Range**—12-22 AWG



#### Related Product Data

Sockets on this page will fit the following relays:

**P&B Relay Series**—KHAU/KHU, 156, 158

**SCHRACK Relay Series**—PT

For more information on Relays request Catalog 1308242.

Dimensions				Fits Relay	Non RoHS Compliant		RoHS Compliant
A	B	C	D		Part Number	Catalog Number	SNAPTRACK® Channel
3.16 (80.3)	1.06 (26.9)	2.50 (63.5)	2.13 (54.0)	4PDT	1437683-9	214BS	TK2(D)
2.90 (73.7)	1.06 (26.9)	2.50 (63.5)	—	4PDT	1-1437683-3	314BS	2TK2(D)
3.16 (80.3)	1.13 (28.7)	2.75 (69.9)	—	4PDT	2-1437683-0	614BS	TK2(D)

**Note:** Holes provided for bails, see page 212.

Dimensions				Fits Relay	RoHS Compliant		
A	B	C	D		Part Number	Catalog Number	SNAPTRACK® Channel
3.16 (80.3)	1.06 (26.9)	2.50 (63.5)	2.13 (54.0)	4PDT	1776636-1	214BSL	TK2(D)
2.90 (73.7)	1.06 (26.9)	2.50 (63.5)	—	4PDT	1776618-1	314BSL	2TK2(D)
3.16 (80.3)	1.13 (28.7)	2.75 (69.9)	—	4PDT	1776637-1	614BSL	TK2(D)

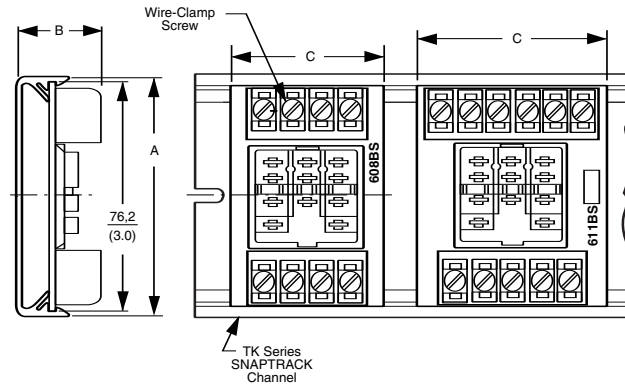
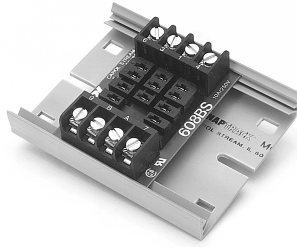
**Note:** Holes provided for bails, see page 212.



**Note:** All part numbers are RoHS Compliant.

## 11 Pin Square Socket Assemblies

### 608BS



#### Material & Finish

#### 608BS, 611BS

**Rating**—10A, 250V

**Screws**—#6-32 zinc plated with clear chromate, with wire clamp

**Wire Range**—12-22 AWG

#### 211BS

**Rating**—10A, 150V

**Screws**—#4-40 zinc plated with clear chromate, with wire clamp

**Wire Range**—14-22 AWG

#### Related Product Data

Sockets on this page will fit the following relays:

**Tyco Electronics Relay Series**—STA

**P&B Relay Series**—CL, CU, KUPE, KUIP, KUMP, KUGP, KUL, KUP, SDAS-01, 157

**SCHRACK Relay Series**—RM2/3/7, RM5/6

For more information on Relays request Catalog 1308242.

Dimensions			Fits Relay	Non RoHS Compliant		RoHS Compliant
A	B	C		Part Number	Catalog Number	SNAPTRACK® Channel
3.16 (80.3)	1.06 (26.9)	2.13 (54.1)	SPDT, DPDT	1437683-8	211BS	TK2(D)
3.16 (80.3)	1.13 (28.7)	2.00 (50.8)	3PDT	1-1437683-7	608BS	TK2(D)
3.16 (80.3)	1.13 (28.7)	2.50 (63.5)	DPDT, 3PDT	1-1437683-9	611BS	TK2(D)

Dimensions			Fits Relay	RoHS Compliant		
A	B	C		Part Number	Catalog Number	SNAPTRACK® Channel
3.16 (80.3)	1.06 (26.9)	2.13 (54.1)	SPDT, DPDT	1776630-1	211BSL	TK2(D)
3.16 (80.3)	1.13 (28.7)	2.00 (50.8)	3PDT	1776621-1	608BSL	TK2(D)
3.16 (80.3)	1.13 (28.7)	2.50 (63.5)	DPDT, 3PDT	1776623-1	611BSL	TK2(D)

**Note:** All part numbers are RoHS Compliant.

## Individual Sockets

### Material & Finish

- Ratings**—10A/300V
- Housing Material**—Thermoplastic polyester
- Flammability**—UL94V-0
- Color**—Black
- Max. Operating Temperature**—130°C [266°F]
- Contacts**—Phosphor-bronze, bright acid-tin plated

### Related Product Data

Sockets 8S and 11S will fit the following relays:

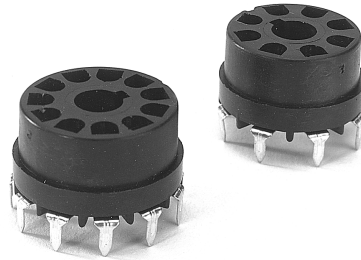
- AGASTAT Relay Series**—STA
  - P&B/MIDTEX Relay Series**—CL, CU, KUJEP, KUIP, KUMP, KUGP, KUL, KUP, SDAS-01, 157
  - SCHRACK Relay Series**—RM2/3/7, RM5/6
- Socket 21S will fit the following relays:
- P&B Relay Series**—R10
- Socket 14S will fit the following relays:
- P&B/MIDTEX Relay Series**—KHAU/KHU, 156, 158
  - SCHRACK Relay Series**—PT

- Socket 8R will fit the following relays:
- AGASTAT Relay Series**—SCB, SCC, SCE, SRC, SSC, SST, VMA
  - P&B/MIDTEX Relay Series**—CB, CD, CG, CH, CK, CR, CN1, CNS, CS, KRP/KRPA, S89R\_\_P, 155

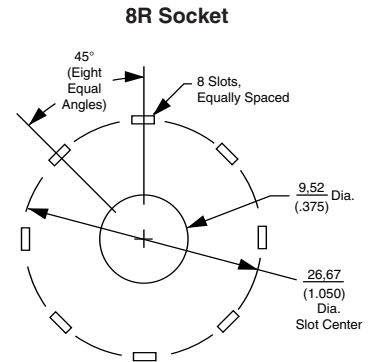
- SCHRACK Relay Series**—MT
- Socket 11R will fit the following relays:
- Tyco Electronics Relay Series**—SCF, SSC, SCB, SCC, SST

- P&B Relay Series**—CB, CD, CG, CH, CK, CNM5, CNS, CNT, KBP, KRP/KRPA, 155

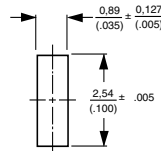
- SCHRACK Relay Series**—MT
- For more information on Relays request Catalog 1308242.



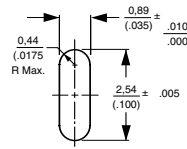
11R, 8R



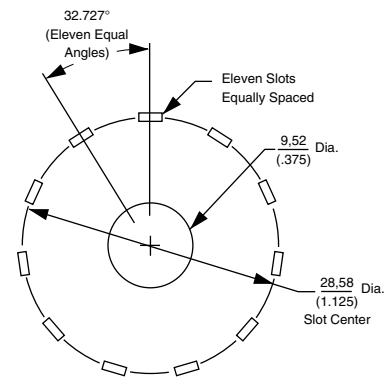
8R Socket









Punched Slot Detail



Routed Slot Detail

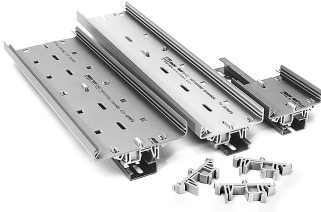


11R Socket

Socket Style	Fits Relays	Part Number	Catalog Number
	2PDT	2-1437683-2	8S-SOCKET
	3PDT	1437661-1	11S-SOCKET
	2PDT	1-1437683-1	21S-SOCKET
	4PDT	1437683-3	14S-SOCKET
	8 pin octal	2-1437683-1	8R-SOCKET
	11 pin	1437683-1	11R-SOCKET

**Note:** All part numbers are RoHS Compliant.

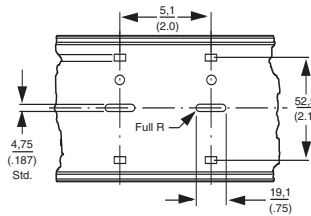
**SNAPTRACK Channel**



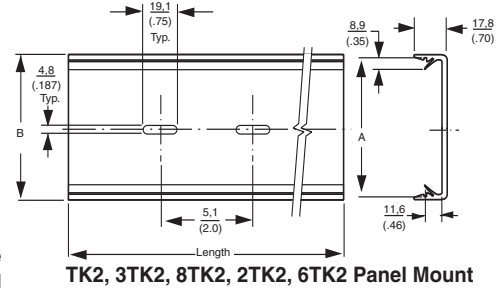
SNAPTRACK Channel can be mounted on standard DIN rails or A Series rail when used with TKAD. (Rails not included.)

SNAPTRACK Channel is a nonconductive, rigid extruded PVC chassis used for mounting socket assemblies and custom circuit boards. Available in a variety of fixed widths, including a split-apart version for wider PCB applications, SNAPTRACK Channel mounts to panels quickly with rivets or screws.

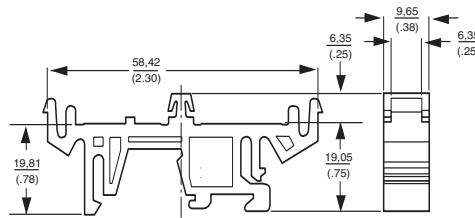
Printed circuit boards are simply snapped-in from the front, then held securely via intergral ribs which also serve as shock absorbers when the PCB is flexed. SNAPTRACK Channel permits easy, convenient PCB removal for field service. Slots on 2-inch centers are provided for fast, easy installation using either plastic rivets or other hardware. Double-faced tape may also be used effectively.



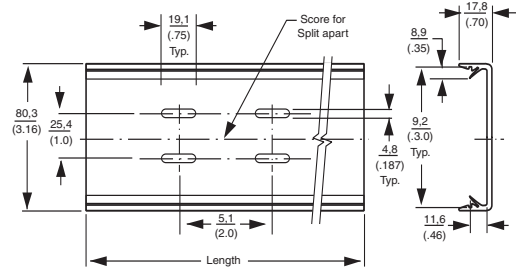
**TK2D, 2TK2D, 3TK2D, 6TK2D Panel Mount, or use with TKAD to Mount on DIN Rail and A Series Rail**



**TK2, 3TK2, 8TK2, 2TK2, 6TK2 Panel Mount**



**TKAD use with SNAPTRACK Channel to Mount on DIN Rail or A Series Rail**



**4TK2 Panel Mount**

Track Catalog No.*	Dimensions	
	A P.C. Board Width	B Overall Track Width
8TK2-xx	55.5 (2.187)	58.4 (2.3)
2TK2-xx	69.9 (2.75)	73.7 (2.9)
2TK2D-xx	69.9 (2.75)	73.7 (2.9)
TK2-xx-AG	76.2 (3.0)	78.7 (3.1)
TK2D-xx-AG	76.2 (3.0)	78.7 (3.1)
3TK2-xx	82.6 (3.25)	86.4 (3.40)
3TK2D-xx	82.6 (3.25)	86.4 (3.40)
6TK2-xx	101.6 (4.0)	105.4 (4.15)
6TK2D-xx	101.6 (4.0)	105.4 (4.15)
4TK2-xx	SPLIT-APART	—

**Note:** Standard lengths are 3", 6", 12", 24", and 48". Custom lengths are available.

\*Replace xx with track length.

**Note:** All part numbers are RoHS Compliant.

**Accessories**

**Track Rivets**

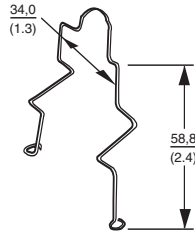
Plastic Track Rivet offers a low cost way to mount SNAPTRACK Channel. Requires 3/16" diameter hole in panels up to .125" thick. Cat. No. TR-1



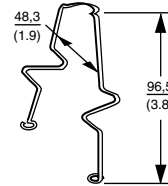
**TR-1 Track Rivet**  
1437645-6

**Bails (Tie Downs)**

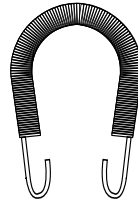
Helps prevent relays and timers from vibrating out of sockets. RB1-AG and TB1, for general purpose relays and timers, feature adjustable height; mount on PC board with plastic mounting rivets (2) furnished. New economy RB5 spring bails fits most general purpose relays and timers. RB4 clip to miniature sockets. Stainless steel wire.



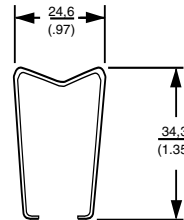
**RB1-AG Relay Bail**  
2-1437683-3



**TB1 Timer Bail**  
3-1437683-0



**RB5-AG Universal Bail**  
2-1437683-6



**RB4-AG**  
2-1437683-5

**Note:** All part numbers are RoHS Compliant.

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 10mm [.394] Pitch, 30A, Series TSB500 .....221-224  
 10mm [.394] Pitch, Fused Blocks, Series 503Si .....225  
 12mm [.472] Pitch, 40-50A, Series TSB1000 .....226  
 12mm [.472] Pitch, Fused Blocks, Series 1003Si .....229  
 13.5mm [.531] Pitch, 40A, Series TSB1500 .....230  
 14.5mm [.571] Pitch, 65A, Series TSB2000 .....231-233  
 Accessories .....234-237

## Europa Selector Chart

### Panel Mounted Modular Blocks

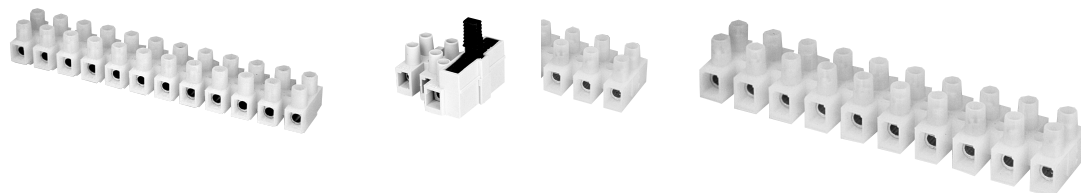


Series	TSB230	TSB230...HT	TSB500	TSB500...HT	TSB500SK	500Si	503Si
<b>Pitch (mm) (in.)</b>	8mm .315"	8mm .315"	10mm .394"	10mm .394"	10mm .394"	10, 12mm .394", .472"	10mm .394"
<b>Circuits</b>	1-12	1-12	1-12	1-12	1-12	1	1-5
<b>Max. Current</b>							
Wire protector	30A	30A	30A	30A	30A	—	10A
Tunnel connection	30A	—	40A	—	30A	10A	10A
<b>Max. Voltage</b>	250V	250V	250V	250V	600V	250V	250V
<b>Wire Range (AWG)</b>							
Wire protector	12-26	12-26	10-24	12-24	12-24	—	12-22
Tunnel connection	12-24	—	10-22	—	10-22	12-22	12-22
<b>Flammability</b>	UL94V-2	UL94V-0	UL94V-2	UL94V-0	UL94V-2	UL94V-2	UL94V-2
<b>Max. Temp.</b>	100° C	150° C	100° C	150° C	100° C	100° C	100° C
<b>Page</b>	218, 219	220	221	223	224	234	225



**Europa Selector Chart** (Continued)

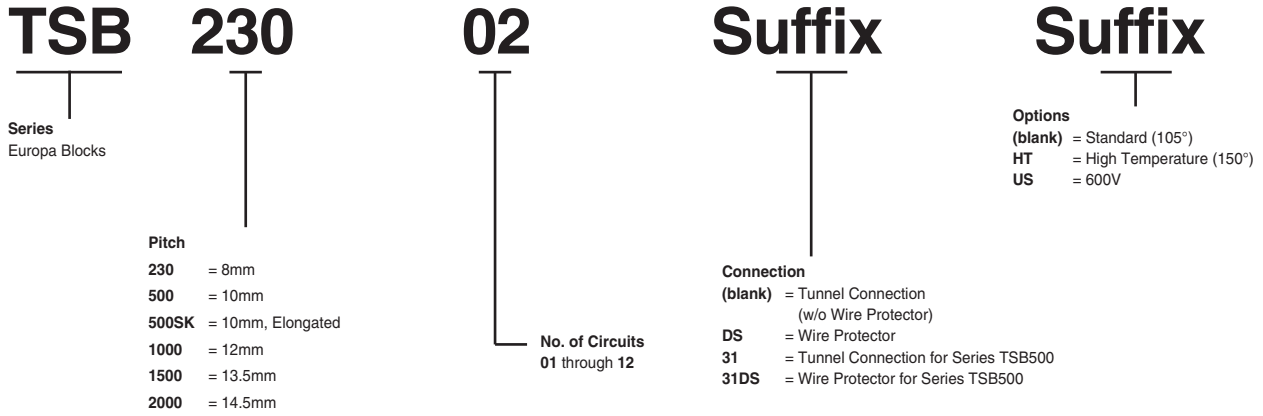
**Panel Mounted  
Modular Blocks**



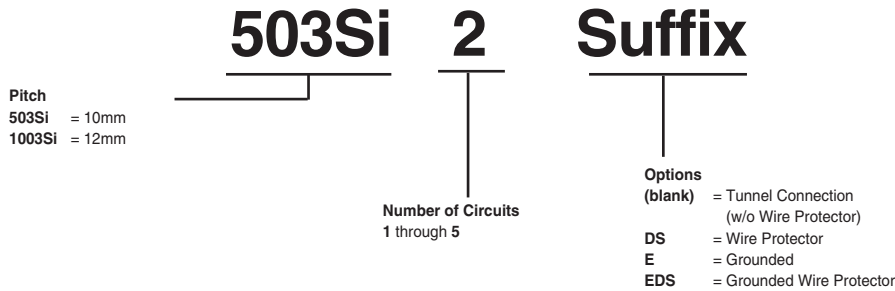
Series	TSB1000	TSB1000...HT	1003Si	TSB1500	TSB2000	TSB2000...HT	TSB2000...US
<b>Pitch (mm) (in.)</b>	12mm .472"	12mm .472"	7/12mm .275-.472"	13.5mm .532"	14.5mm .571"	14.5mm .571"	14.5mm .571"
<b>Circuits</b>	1-12	1-12	1-5	1-12	1-12	1-12	1-12
<b>Max. Current</b>							
Wire protector	40A	40A	16A	40A	65A	65A	65A
Tunnel connection	40A	—	16A	40A	65A	65A	65A
<b>Max. Voltage</b>	250V	250V	250V	300V	300V	300V	600V
<b>Wire Range (AWG)</b>							
Wire protector	10-22	10-24	10-24	8-18	6-14	6-14	6-14
Tunnel connection	8-22	—	8-22	8-16	6-14	6-14	6-14
<b>Flammability</b>	UL94V-2	UL94V-0	UL94V-2	UL94V-2	UL94V-2	UL94V-0	UL94V-2
<b>Max. Temp.</b>	100° C	150° C	100° C	100° C	100° C	150° C	100° C
<b>Page</b>	226, 227	228	229	230	231	232	233

**Catalog Numbering Code**

**Europa Blocks**



**Fused Europa Blocks**

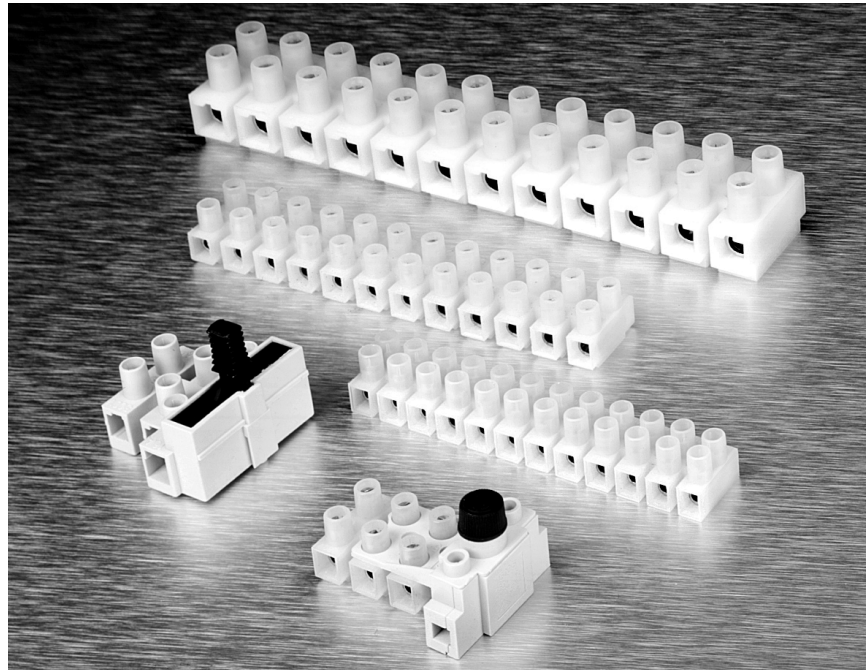


Note: Some catalog number combinations are not valid. Check appropriate catalog pages before ordering.

## Europa Blocks

### Product Facts

- n **Modular design** — cut into smaller sections without altering electrical properties or order product molded to length. Mounting holes between every circuit.
- n **Tubular contacts** — connect stripped, unterminated solid or stranded wire directly to each contact — no wire lugs needed.
- n **High voltage and current ratings** — rated up to 600 volts and up to 65 amps depending on model and wire size used.
- n **Broad Wire Range** — use wire from #6 to #26 AWG depending on model selected.
- n **Wire protectors** — all models available with wire protectors to virtually eliminate twisting and breakage of stranded wire during connection.
- n **High circuit density** — five models provide from 21 to 38 circuits per foot.
- n **“Dead-front” construction** — both screws and tubular contacts are recessed in housing for safety and to help prevent short circuits.
- n **Captive screws** — zinc with chromate plated steel screws are captive in tin plated brass contacts. They are supplied “backed-out” and ready to wire.
- n **Flammability rating of UL94V-2 is standard. High Temperature versions with UL94V-0 are available.**
- n **Wire stop available on some versions.**



Tyco Electronics Corporation offers the most extensive line of Europa products in five pitches:

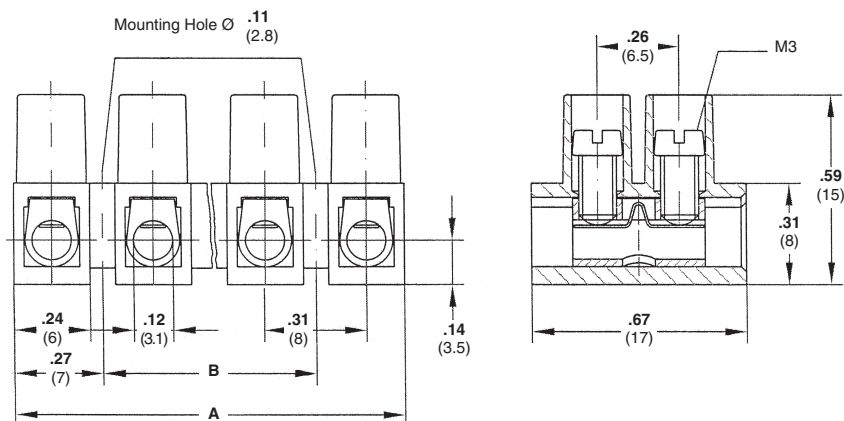
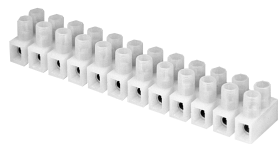
- n 8mm [.315]
- n 10mm [.394]
- n 12mm [.472]
- n 13.5mm [.531]
- n 14.5mm [.571]

Two connection styles are available. The Wire Protector version supplies a plate to shield the wire from being cut by the screw. The Tunnel connection is the same design, but without the shielding plate – it is ideal for solid wire or where the most economical price is required.

### Applications include:

- n Motor Controls
- n Power Supplies
- n Telecom
- n Valve Actuators
- n Spa Controllers
- n Lighting

**8mm [.315] Pitch, 30A with Wire Protector—Series TSB230**



**Material & Finish**

- Housing Material**—Polyamide 6
- Flammability**—UL94V-2
- Color**—natural (off white)
- Tubular Contact**—Brass, tin plated
- Screw**—Steel, M3
- Screw Plating**—Zinc with chromate
- Wire Protector**—Stainless steel

**Mechanical Properties**

- Pitch (terminal spacing)**—8mm [.315"]
- Wire Strip Length**—5mm [0.20"]
- Min. Wire Pull-Out Force**—75lbs.
- Recommended Tightening Torque**—5in.- lbs.
- Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

**Electrical Properties**

- Maximum Current**—30A
- Operating Voltage**—250V
- Wire Range**—12-26 AWG
- Dielectric Withstand**—3000V

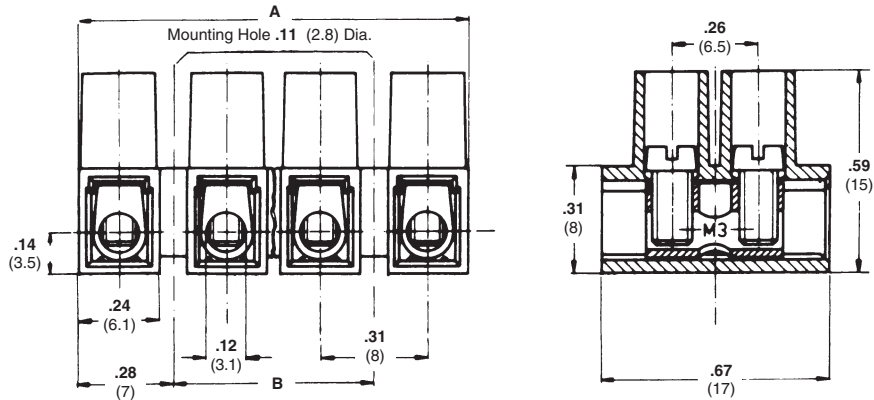
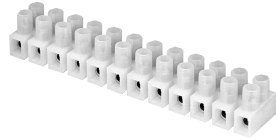
**Environmental Properties**

- Continuous Working Temperature**—-35°C to +100°C [-31°F to +212°F]

No. of Positions	Dimensions		Wire Protector	
	A	B	Part Number	Catalog Number
1	6 (.24)	—	1776293-1	TSB230 01DS
2	14 (.55)	—	1776293-2	TSB230 02DS
3	22 (.87)	8 (.31)	1776293-3	TSB230 03DS
4	30 (1.18)	16 (.63)	1776293-4	TSB230 04DS
5	38 (1.50)	24 (.94)	1776293-5	TSB230 05DS
6	46 (1.81)	32 (1.26)	1776293-6	TSB230 06DS
7	54 (2.13)	40 (1.57)	1776293-7	TSB230 07DS
8	62 (2.44)	48 (1.89)	1776293-8	TSB230 08DS
9	70 (2.76)	56 (2.20)	1776293-9	TSB230 09DS
10	78 (3.07)	64 (2.52)	1-1776293-0	TSB230 10DS
11	86 (3.39)	72 (2.83)	1-1776293-1	TSB230 11DS
12	94 (3.70)	80 (3.15)	1-1776293-2	TSB230 12DS

**Note:** All part numbers are RoHS Compliant.

**8mm [.315] Pitch, 30A, with Tunnel Connection—Series TSB230**



**Material & Finish**

- Housing Material**—Polyamide 6
- Flammability**—UL94V-2
- Color**—natural (off white)
- Tubular Contact**—Brass, tin plated
- Screw**—Steel, M3
- Screw Plating**—Zinc with chromate

**Mechanical Properties**

- Pitch (terminal spacing)**—8mm [.315]
- Wire Strip Length**—5mm [0.20"]
- Min. Wire Pull-Out Force**—75lbs.

**Recommended Tightening Torque**—5in.-lbs.

**Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

**Electrical Properties**

- Maximum Current**—30A
- Operating Voltage**—250V
- Wire Range**—12-24 AWG
- Dielectric Withstand**—3000V

**Environmental Properties**

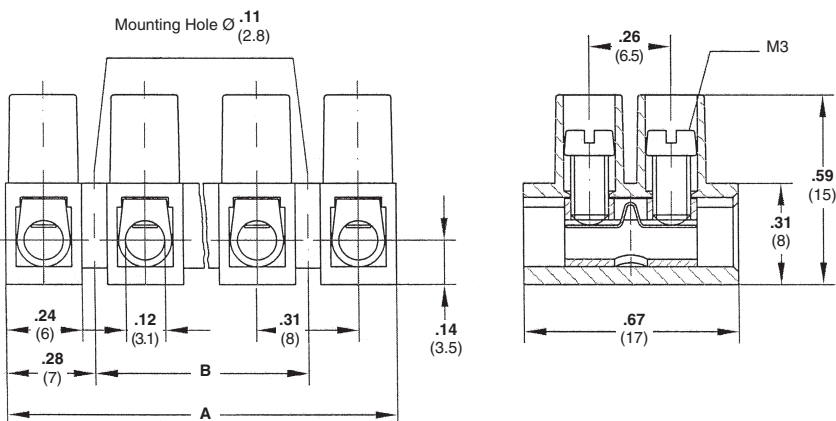
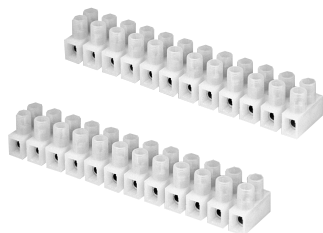
**Continuous Working Temperature**—-35°C to +100°C [-31°F to +212°F]

No. of Positions	Dimensions		Tunnel Connection	
	A	B	Part Number	Catalog Number
1	6 (.24)	—	1776294-1	TSB230 01
2	14 (.55)	—	1776294-2	TSB230 02
3	22 (.87)	8 (.31)	1776294-3	TSB230 03
4	30 (1.18)	16 (.63)	1776294-4	TSB230 04
5	38 (1.50)	24 (.94)	1776294-5	TSB230 05
6	46 (1.81)	32 (1.26)	1776294-6	TSB230 06
7	54 (2.13)	40 (1.57)	1776294-7	TSB230 07
8	62 (2.44)	48 (1.89)	1776294-8	TSB230 08
9	70 (2.76)	56 (2.20)	1776294-9	TSB230 09
10	78 (3.07)	64 (2.52)	1-1776294-0	TSB230 10
11	86 (3.39)	72 (2.83)	1-1776294-1	TSB230 11
12	94 (3.70)	80 (3.15)	1-1776294-2	TSB230 12

Europa Terminal Blocks **5**



**8mm [.315] Pitch, 30A, High Temperature—Series TSB230...HT**



**Material & Finish**

- Housing Material**—Polyamide 6/6
- Flammability**—UL94V-0
- Housing Color**—Brown
- Tubular Contact**—Brass, tin plated
- Screw**—Steel, M3
- Screw Plating**—Zinc with chromate
- Wire Protector**—Stainless steel

**Mechanical Properties**

- Pitch (terminal spacing)**—8mm [.315]
- Wire Strip Length**—5mm [0.20"]
- Min. Wire Pull-Out Force**—75lbs.
- Recommended Tightening Torque**—5in.-lbs.
- Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

**Electrical Properties**

- Maximum Current**—30A
- Operating Voltage**—250V
- Wire Range**—12-26 AWG
- Dielectric Withstand**—3000V

**Environmental Properties**

- Continuous Working Temperature**—-35°C to +150°C [-31°F to +302°F]

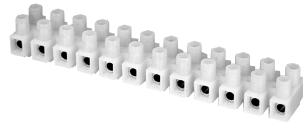
No. of Positions	Dimensions		Wire Protector	
	A	B	Part Number	Catalog Number
1	6 (.24)	—	1776295-1	TSB230 01DS HT
2	14 (.55)	—	1776295-2	TSB230 02DS HT
3	22 (.87)	8 (.31)	1776295-3	TSB230 03DS HT
4	30 (1.18)	16 (.63)	1776295-4	TSB230 04DS HT
5	38 (1.50)	24 (.94)	1776295-5	TSB230 05DS HT
6	46 (1.81)	32 (1.26)	1776295-6	TSB230 06DS HT
7	54 (2.13)	40 (1.57)	1776295-7	TSB230 07DS HT
8	62 (2.44)	48 (1.89)	1776295-8	TSB230 08DS HT
9	70 (2.76)	56 (2.20)	1776295-9	TSB230 09DS HT
10	78 (3.07)	64 (2.52)	1-1776295-0	TSB230 10DS HT
11	86 (3.39)	72 (2.83)	1-1776295-1	TSB230 11DS HT
12	94 (3.70)	80 (3.15)	1-1776295-2	TSB230 12DS HT

**Note:** Minimum order quantities may apply.



**Note:** All part numbers are RoHS Compliant.

**10mm [.394] Pitch, 30A with Wire Protector—Series TSB500**



**Material & Finish**

- Housing Material**—Polyamide 6
- Flammability**—UL94V-2
- Color**—Natural (off white)
- Tubular Contact**—Brass, tin plated
- Screw**—Steel, M3
- Screw Plating**—Zinc with chromate
- Wire Protector**—Stainless steel

**Mechanical Properties**

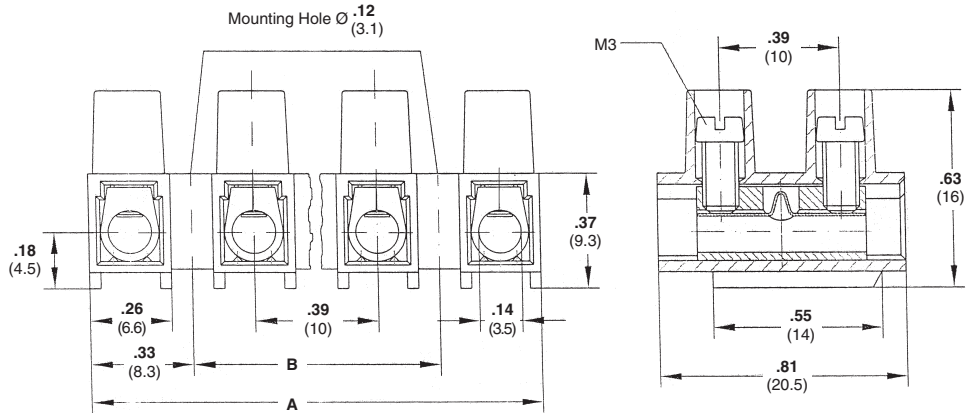
- Pitch (terminal spacing)**—10mm [.394]
- Wire Strip Length**—5mm [0.20"]
- Min. Wire Pull-Out Force**—75lbs.
- Recommended Tightening Torque**—5 in.-lbs.
- Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

**Electrical Properties**

- UL Maximum Current**—30A; 10-22 AWG
- CSA Maximum Current**—25A; 12-24 AWG
- Operating Voltage**—250V
- Dielectric Withstand**—3500V

**Environmental Properties**

- Continuous Working Temperature**—-35°C to +100°C [-31°F to +212°F]



No. of Positions	Dimensions		Wire Protector	
	A	B	Part Number	Catalog Number
1	6.6 (.26)	—	1776296-1	TSB500 0131DS
2	16.6 (.65)	—	1776296-2	TSB500 0231DS
3	26.6 (1.05)	10 (.39)	1776296-3	TSB500 0331DS
4	36.6 (1.44)	20 (.79)	1776296-4	TSB500 0431DS
5	46.6 (1.83)	30 (1.18)	1776296-5	TSB500 0531DS
6	56.6 (2.23)	40 (1.57)	1776296-6	TSB500 0631DS
7	66.6 (2.62)	50 (1.97)	1776296-7	TSB500 0731DS
8	76.6 (3.02)	60 (2.36)	1776296-8	TSB500 0831DS
9	86.6 (3.41)	70 (2.76)	1776296-9	TSB500 0931DS
10	96.6 (3.80)	80 (3.15)	1-1776296-0	TSB500 1031DS
11	106.6 (4.20)	90 (3.54)	1-1776296-1	TSB500 1131DS
12	116.6 (4.59)	100 (3.94)	1-1776296-2	TSB500 1231DS

**Europa Terminal Blocks**  
5





**10mm [.394] Pitch, 30A with Tunnel Connection—Series TSB500**



**Material & Finish**

- Housing Material**—Polyamide 6
- Flammability**—UL94V-2
- Color**—Natural (off white)
- Tubular Contact**—Brass, tin plated
- Screw**—Steel, M3
- Screw Plating**—Zinc with chromate

**Mechanical Properties**

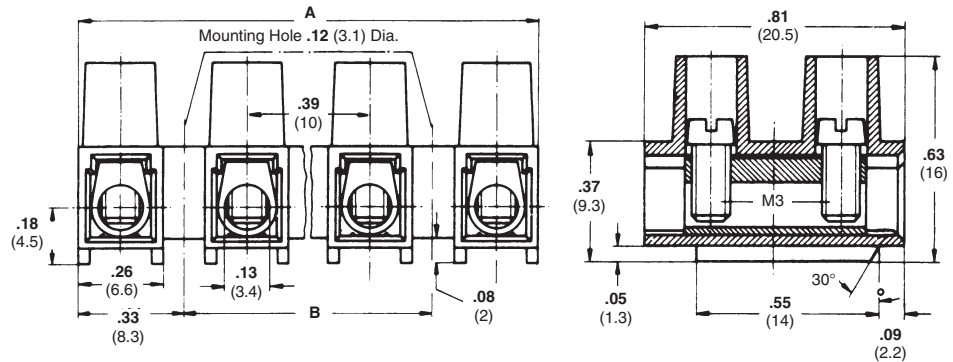
- Pitch (terminal spacing)**—10mm [.394]
- Wire Strip Length**—5mm [0.20"]
- Min. Wire Pull-Out Force**—75lbs.
- Recommended Tightening Torque**—5 in.-lbs.
- Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

**Electrical Properties**

- Maximum Current**—30A
- Operating Voltage**—250V
- Wire Range**—10-22 AWG
- Dielectric Withstand**—3500V

**Environmental Properties**

- Continuous Working Temperature**—-35°C to +100°C [-31°F to +212°F]



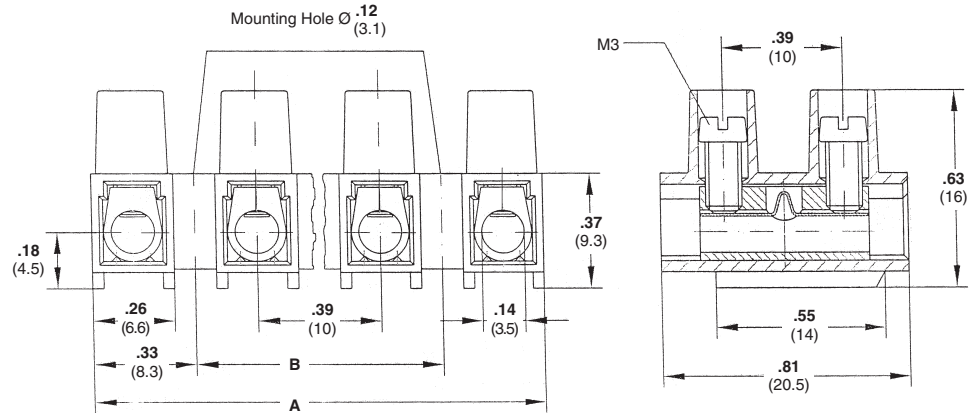
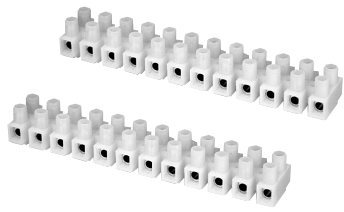
No. of Positions	Dimensions		Tunnel Connection	
	A	B	Part Number	Catalog Number
1	6.6 (.26)	—	—	TSB500 0131
2	16.6 (.65)	—	1776297-2	TSB500 0231
3	26.6 (1.05)	10 (.39)	1776297-3	TSB500 0331
4	36.6 (1.44)	20 (.79)	1776297-4	TSB500 0431
5	46.6 (1.83)	30 (1.18)	1776297-5	TSB500 0531
6	56.6 (2.23)	40 (1.57)	1776297-6	TSB500 0631
7	66.6 (2.62)	50 (1.97)	1776297-7	TSB500 0731
8	76.6 (3.02)	60 (2.36)	1776297-8	TSB500 0831
9	86.6 (3.41)	70 (2.76)	1776297-9	TSB500 0931
10	96.6 (3.80)	80 (3.15)	1-1776297-0	TSB500 1031
11	106.6 (4.20)	90 (3.54)	1-1776297-1	TSB500 1131
12	116.6 (4.59)	100 (3.94)	1-1776297-2	TSB500 1231



**Note:** All part numbers are RoHS Compliant.

**10mm [.394] Pitch, 30A High Temperature—Series TSB500...HT**

Europa Terminal Blocks **5**



**Material & Finish**

- Housing Material**—Polyamide 6/6
- Flammability**—UL94V-0
- Housing Color**—Brown
- Tubular Contact**—Brass, tin plated
- Screw**—Steel, M3
- Screw Plating**—Zinc with chromate
- Wire Protector**—Stainless steel

**Mechanical Properties**

- Pitch (terminal spacing)**—10mm [.394]
- Wire Strip Length**—5mm [0.20"]
- Min. Wire Pull-Out Force**—75lbs.
- Recommended Tightening Torque**—5 in.-lbs.
- Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

**Electrical Properties**

- Maximum Current**—30A
- Operating Voltage**—250V
- Wire Range**—12-24 AWG
- Dielectric Withstand**—3500V

**Environmental Properties**

- Continuous Working Temperature**—-50°C to +160°C [-58°F to +320°F]

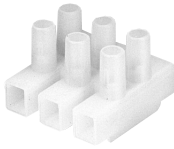
No. of Positions	Dimensions		Wire Protector	
	A	B	Part Number	Catalog Number
1	6.6 (.26)	—	1776298-1	TSB500 0131DS HT
2	16.6 (.65)	—	1776298-2	TSB500 0231DS HT
3	26.6 (1.05)	10 (.39)	1776298-3	TSB500 0331DS HT
4	36.6 (1.44)	20 (.79)	1776298-4	TSB500 0431DS HT
5	46.6 (1.83)	30 (1.18)	1776298-5	TSB500 0531DS HT
6	56.6 (2.23)	40 (1.57)	1776298-6	TSB500 0631DS HT
7	66.6 (2.62)	50 (1.97)	1776298-7	TSB500 0731DS HT
8	76.6 (3.02)	60 (2.36)	1776298-8	TSB500 0831DS HT
9	86.6 (3.41)	70 (2.76)	1776298-9	TSB500 0931DS HT
10	96.6 (3.80)	80 (3.15)	1-1776298-0	TSB500 1031DS HT
11	106.6 (4.20)	90 (3.54)	1-1776298-1	TSB500 1131DS HT
12	116.6 (4.59)	100 (3.94)	1-1776298-2	TSB500 1231DS HT

Note: Minimum order quantities may apply.



**Note:** All part numbers are RoHS Compliant.

**10mm [.394] Pitch, 30A Elongated Plastic—Series TSB500SK**



**Material & Finish**

- Housing Material**—Polyamide 6
- Flammability**—UL94V-2
- Color**—natural (off white)
- Tubular Contact**—Brass, tin plated
- Screw**—Steel, M3
- Screw Plating**—Zinc with chromate
- Wire Protector**—Stainless steel

**Mechanical Properties**

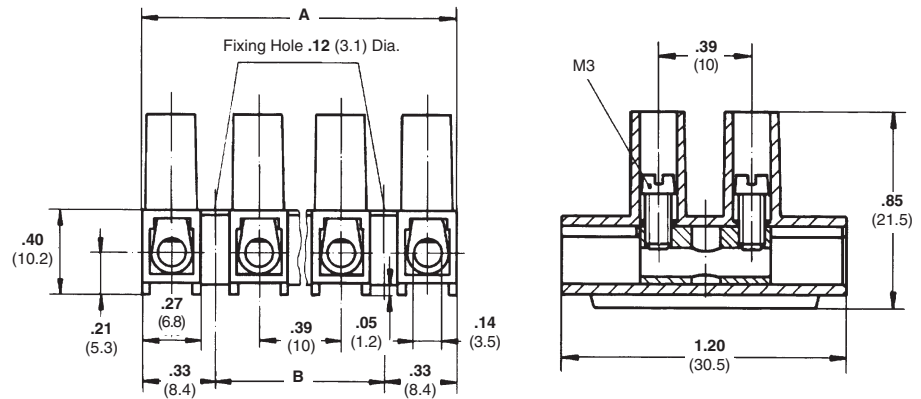
- Pitch (terminal spacing)**—10mm [.394"]
- Wire Strip Length**—5mm [0.20"]
- Min. Wire Pull-Out Force**—5 lbs.
- Recommended Tightening Torque**—5 in.- lbs.
- Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

**Electrical Properties**

- Maximum Current**—30A (UL), 25A (CSA)
- Operating Voltage**—600V
- Wire Range**—Wire Protector—12-24 AWG  
Tunnel Connection—10-22 AWG
- Dielectric Withstand**—3500V

**Environmental Properties**

- Continuous Working Temperature**—-35°C to +100°C [-31°F to +212°F]



Tunnel Connection Version shown

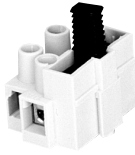
No. of Positions	Dimensions		Tunnel Connection		Wire Protector	
	A	B	Part Number	Catalog Number	Part Number	Catalog Number
1	6.6 (.26)	—	1776299-1	TSB500 SK01	1776300-1	TSB500 SK01MDS
2	16.6 (.65)	—	1776299-2	TSB500 SK02	1776300-2	TSB500 SK02MDS
3	26.6 (1.05)	10 (.39)	1776299-3	TSB500 SK03	1776300-3	TSB500 SK03MDS
4	36.6 (1.44)	20 (.79)	1776299-4	TSB500 SK04	1776300-4	TSB500 SK04MDS
5	46.6 (1.83)	30 (1.18)	1776299-5	TSB500 SK05	1776300-5	TSB500 SK05MDS
6	56.6 (2.23)	40 (1.57)	1776299-6	TSB500 SK06	1776300-6	TSB500 SK06MDS
7	66.6 (2.62)	50 (1.97)	1776299-7	TSB500 SK07	1776300-7	TSB500 SK07MDS
8	76.6 (3.02)	60 (2.36)	1776299-8	TSB500 SK08	1776300-8	TSB500 SK08MDS
9	86.6 (3.41)	70 (2.76)	1776299-9	TSB500 SK09	1776300-9	TSB500 SK09MDS
10	96.6 (3.80)	80 (3.15)	1-1776299-0	TSB500 SK10	1-1776300-0	TSB500 SK10MDS
11	106.6 (4.20)	90 (3.54)	1-1776299-1	TSB500 SK11	1-1776300-1	TSB500 SK11MDS
12	116.6 (4.59)	100 (3.94)	1-1776299-2	TSB500 SK12	1-1776300-2	TSB500 SK12MDS

**Note:** Add suffix HT for High Temperature version. Minimum order quantities may apply. Flammability: UL94V-0. Continuous working temperature: 150°C.



**Note:** All part numbers are RoHS Compliant.

**10mm [.394] Pitch, Fused Terminal Blocks—Series 503Si**



**Material & Finish**

**Housing Material**—Polyamide 6/6

**Color**—Gray, handle is black

**Tubular Contact**—Brass, tin plated

**Screw**—Steel

**Screw Plating**—Zinc with chromate

**Wire Protector**—Stainless steel

**Contacts for Fuses**—Stainless steel spring

**Tunnel Connection**—Without wire protector

**Mechanical Properties**

**Pitch (terminal spacing)**—10mm [.394"]

**Wire Strip Length**—7mm [.276"]

**Electrical Properties**

**Maximum Current**—

To VDE 820—Fuse Holder 10A

To VDE 0100—Terminal Blocks 26A

To VDE 0700/0711—Terminal Blocks 10A

**Operating Voltage**—

Fuse Holder—250V

Terminal Blocks—400V

**Wire Range**—

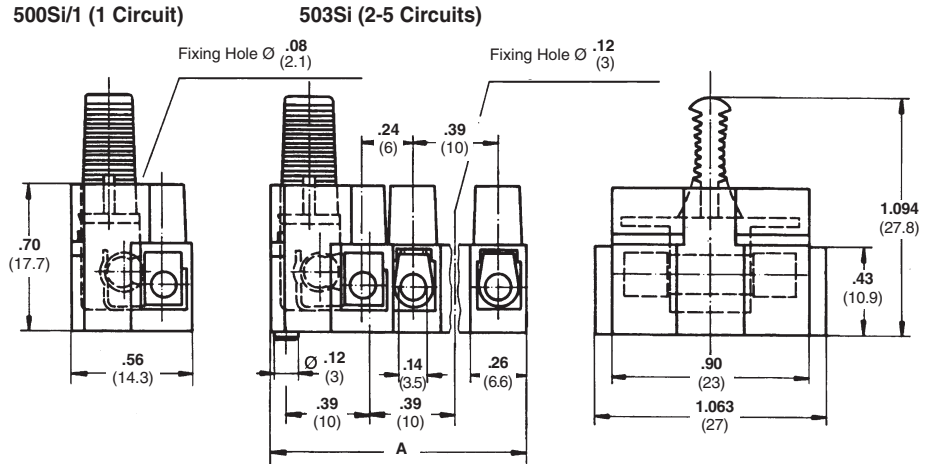
Wire Protector—12-22 AWG

Tunnel Connection—12-22 AWG

**Environmental Properties**

**Continuous Working Temperature**—

-35°C to +100°C [-31°F to +212°F]



Series 503Si & 503Si...DS version of TSB500 Series with an integrated fuse holder for 5 x 20mm [.197 x .787] fuses. Protection against unintentional touch of live parts to VBG4 and VDE 0106, part 100 and VDE 0470, part 1.

Series 503Si...E & 503Si...EDS include a ground connection.

No. of Positions	Dim. A	Tunnel Connection		Wire Protector		Tunnel Connection Grounded		Wire Protector Grounded	
		Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number
1	14.3 (.56)	1776301-1	503Si 1	1776301-6	503Si 1DS	—	—	—	—
2	20 (.79)	1776301-2	503Si 2	1776301-7	503Si 2DS	—	—	—	—
3	30 (1.18)	—	503Si 3	1776301-8	503Si 3DS	—	503Si 3E	2-1776301-3	503Si 3EDS
4	40 (1.58)	—	503Si 4	1776301-9	503Si 4DS	1-1776301-4	503Si 4E	—	503Si 4EDS
5	50 (1.97)	1776301-5	503Si 5	1-1776301-0	503Si 5DS	—	503Si 5E	—	503Si 5EDS

**Note:** All part numbers are RoHS Compliant.

**12mm [.472] Pitch, 40A with Wire Protector—Series TSB1000**



**Material & Finish**

- Housing Material**—Polyamide 6
- Flammability**—UL94V-2
- Color**—Natural (off white)
- Tubular Contact**—Brass, tin plated
- Screw**—Steel, M3.5
- Screw Plating**—Zinc with chromate
- Wire Protector**—Stainless steel

**Mechanical Properties**

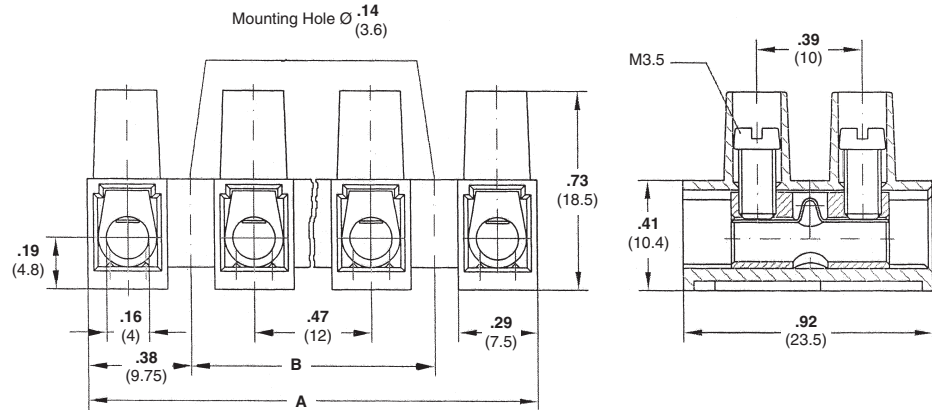
- Pitch (terminal spacing)**—12mm [.472"]
- Wire Strip Length**—7mm [.28"]
- Min. Wire Pull-Out Force**—125 lbs.
- Recommended Tightening Torque**—10 in.-lbs.
- Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

**Electrical Properties**

- Maximum Current**—40A
- Operating Voltage**—250V
- Wire Range**—10-22 AWG
- Dielectric Withstand**—4500V

**Environmental Properties**

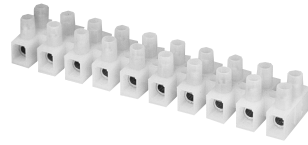
- Continuous Working Temperature**—-35°C to +100°C [-31°F to +212°F]



No. of Positions	Dimensions		Wire Protector	
	A	B	Part Number	Catalog Number
1	7.5 (.30)	—	1776302-1	TSB1000 01DS
2	19.5 (.77)	—	1776302-2	TSB1000 02DS
3	31.5 (1.24)	12 (.47)	1776302-3	TSB1000 03DS
4	43.5 (1.71)	24 (.95)	1776302-4	TSB1000 04DS
5	55.5 (2.19)	36 (1.42)	1776302-5	TSB1000 05DS
6	67.5 (2.66)	48 (1.89)	1776302-6	TSB1000 06DS
7	79.5 (3.13)	60 (2.36)	1776302-7	TSB1000 07DS
8	91.5 (3.60)	72 (2.83)	1776302-8	TSB1000 08DS
9	103.5 (4.07)	84 (3.31)	1776302-9	TSB1000 09DS
10	115.5 (4.55)	96 (3.78)	1-1776302-0	TSB1000 10DS
11	127.5 (5.02)	108 (4.25)	1-1776302-1	TSB1000 11DS
12	139.5 (5.49)	120 (4.72)	1-1776302-2	TSB1000 12DS

**Note:** All part numbers are RoHS Compliant.

**12mm [.472] Pitch, 50A with Tunnel Connection—Series TSB1000**



**Material & Finish**

- Housing Material**—Polyamide 6
- Flammability**—UL94V-2
- Color**—Natural (off white)
- Tubular Contact**—Brass, tin plated
- Screw**—Steel, M3.5
- Screw Plating**—Zinc with chromate

**Mechanical Properties**

- Pitch (terminal spacing)**—12mm [.472"]
- Wire Strip Length**—7mm [.28"]
- Min. Wire Pull-Out Force**—125 lbs.

**Recommended Tightening Torque**—10 in.- lbs.

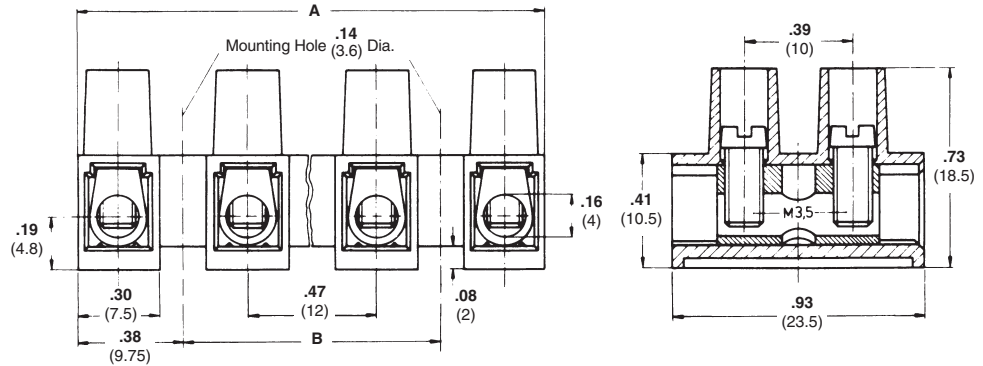
**Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

**Electrical Properties**

- Maximum Current**—50A
- Operating Voltage**—250V
- Wire Range**—8-22 AWG
- Dielectric Withstand**—4500V

**Environmental Properties**

**Continuous Working Temperature**—-35°C to +100°C [-31°F to +212°F]

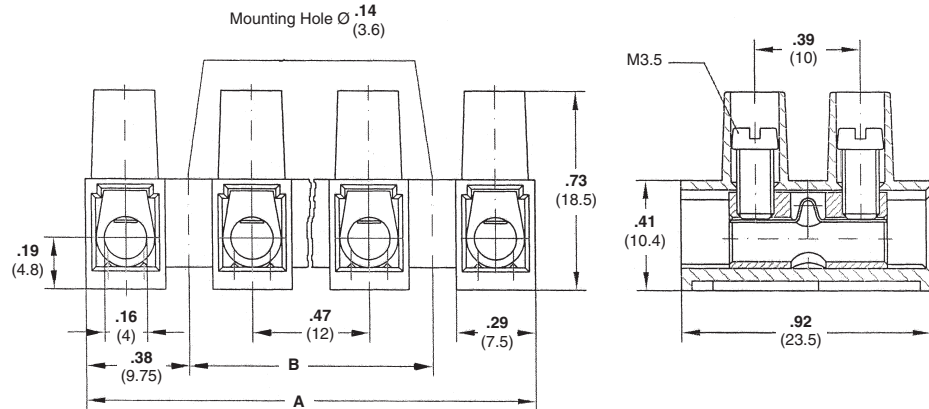
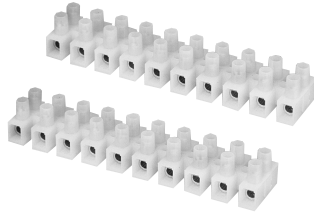


No. of Positions	Dimensions		Tunnel Connection	
	A	B	Part Number	Catalog Number
1	7.5 (.30)	—	1776303-1	TSB1000 01
2	19.5 (.77)	—	1776303-2	TSB1000 02
3	31.5 (1.24)	12 (.47)	1776303-3	TSB1000 03
4	43.5 (1.71)	24 (.95)	1776303-4	TSB1000 04
5	55.5 (2.19)	36 (1.42)	1776303-5	TSB1000 05
6	67.5 (2.66)	48 (1.89)	1776303-6	TSB1000 06
7	79.5 (3.13)	60 (2.36)	1776303-7	TSB1000 07
8	91.5 (3.60)	72 (2.84)	1776303-8	TSB1000 08
9	103.5 (4.07)	84 (3.31)	1776303-9	TSB1000 09
10	115.5 (4.55)	96 (3.78)	1-1776303-0	TSB1000 10
11	127.5 (5.02)	108 (4.25)	1-1776303-1	TSB1000 11
12	139.5 (5.49)	120 (4.72)	1-1776303-2	TSB1000 12

Europa Terminal Blocks **5**



**12mm [.472] Pitch, 40A High Temperature—Series TSB1000...HT**



**Material & Finish**

- Housing Material**—Polyamide 6/6
- Flammability**—UL94V-0
- Housing Color**—Brown
- Tubular Contact**—Brass, tin plated
- Screw**—Steel, M3.5
- Screw Plating**—Zinc with chromate
- Wire Protector**—Stainless steel

**Mechanical Properties**

- Pitch (terminal spacing)**—12mm [.472"]
- Wire Strip Length**—7mm [.28"]
- Min. Wire Pull-Out Force**—125 lbs.
- Recommended Tightening Torque**—10 in.-lbs.
- Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

**Electrical Properties**

- Maximum Current**—40A
- Operating Voltage**—250V
- Wire Range**—10-24 AWG
- Dielectric Withstand**—4500V

**Environmental Properties**

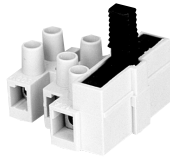
- Continuous Working Temperature**—-50°C to +160°C [-58°F to +320°F]

No. of Positions	Dimensions		Wire Protector	
	A	B	Part Number	Catalog Number
1	7.5 (.30)	—	—	TSB1000 01DS HT
2	19.5 (.77)	—	1776304-2	TSB1000 02DS HT
3	31.5 (1.24)	12 (.47)	1776304-3	TSB1000 03DS HT
4	43.5 (1.71)	24 (.95)	1776304-4	TSB1000 04DS HT
5	55.5 (2.19)	36 (1.42)	1776304-5	TSB1000 05DS HT
6	67.5 (2.66)	48 (1.89)	1776304-6	TSB1000 06DS HT
7	79.5 (3.13)	60 (2.36)	1776304-7	TSB1000 07DS HT
8	91.5 (3.60)	72 (2.84)	1776304-8	TSB1000 08DS HT
9	103.5 (4.07)	84 (3.31)	1776304-9	TSB1000 09DS HT
10	115.5 (4.55)	96 (3.78)	1-1776304-0	TSB1000 10DS HT
11	127.5 (5.02)	108 (4.25)	1-1776304-1	TSB1000 11DS HT
12	139.5 (5.49)	120 (4.72)	1-1776304-2	TSB1000 12DS HT



**Note:** All part numbers are RoHS Compliant.

**12mm [.472] Pitch, Fused Terminal Blocks—Series 1003Si**



**Material & Finish**

**Housing Material**—Polyamide 6/6

**Color**—Gray, handle is black

**Tubular Contact**—Brass, tin plated

**Screw**—Steel

**Screw Plating**—Zinc with chromate

**Wire Protector**—Stainless steel

**Contacts for Fuses**—Stainless steel screw

**Tunnel Connection**—Without wire protector

**Mechanical Properties**

**Pitch (terminal spacing)**—12mm [.472"]

**Wire Strip Length**—7.5mm [.295"]

**Electrical Properties**

**Maximum Current**—

To VDE 0820—Fuse Holder 16A

To VDE 0100—Terminal Blocks 34A

To VDE 0700/0711—Terminal Blocks 16A

**Operating Voltage**—

Fuse Holder—250V

Terminal Blocks—400V

**Wire Range**—

Wire Protector—up to 10mm<sup>2</sup> (10-24 AWG)

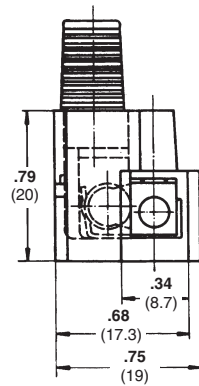
Tunnel Connection—up to 4mm<sup>2</sup> (8-22 AWG)

**Environmental Properties**

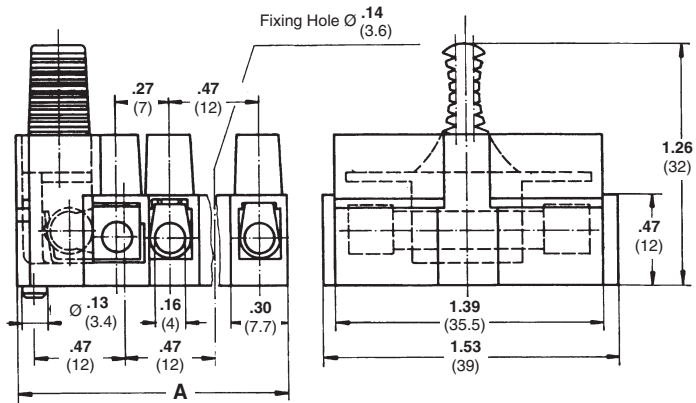
**Continuous Working Temperature**—

-35°C to +100°C [-31°F to +212°F]

1003Si/1 (1 Circuit)



1003Si (2-5 Circuits)



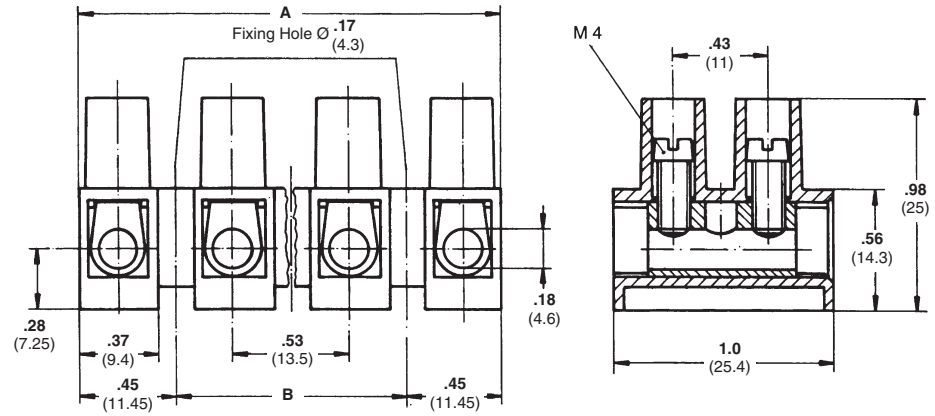
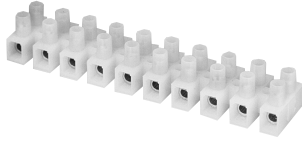
Series 1003Si & 1003Si...DS version of TSB1000 Series with an integrated fuse holder for 1/4" x 1" (6.3 x 25mm) or 1/4" x 1 1/4" (6.3mm x 32mm). Protection against unintended touch of live parts to VBG4.

Series 1003Si...E & 1003Si...EDS include a ground connection.

No. of Positions	Dim. A	Tunnel Connection		Wire Protector		Tunnel Connection Grounded		Wire Protector Grounded	
		Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number
1	18.7 (.74)	1-1776309-1	1003Si 1	1776309-1	1003Si 1DS	—	—	—	—
2	24 (0.95)	1-1776309-2	1003Si 2	1776309-2	1003Si 2DS	—	—	—	—
3	36 (1.42)	1-1776309-3	1003Si 3	—	1003Si 3DS	1776309-3	1003Si 3E	1776309-4	1003Si 3EDS
4	48 (1.89)	1-1776309-4	1003Si 4	—	1003Si 4DS	—	1003Si 4E	—	1003Si 4EDS
5	60 (2.36)	1-1776309-5	1003Si 5	—	1003Si 5DS	—	1003Si 5E	—	1003Si 5EDS

**Note:** All part numbers are RoHS Compliant.

**13.5mm [.531] Pitch, 40A—Series TSB1500**



Tunnel Connection Version shown

**Material & Finish**

- Housing Material**—Polyamide 6
- Flammability**—UL94V-2
- Color**—Natural (off white)
- Tubular Contact**—Brass, tin plated
- Screw**—Steel
- Screw Plating**—Zinc with chromate
- Wire Protector**—Stainless steel
- Tunnel Connection**—Without wire protector

**Mechanical Properties**

- Pitch (terminal spacing)**—13.5mm [.531"]
- Wire Strip Length**—8mm [.315"]
- Recommended Tightening Torque**—10 in.-lbs.
- Recommended Screwdrivers**—Stanley 1016, Sears Craftsman 41429, Xcelite R184

**Electrical Properties**

- Maximum Current**—40A (UR); 55A (CSA)
- Operating Voltage**—300V
- Wire Range**—Wire Protector—8-18 AWG; Tunnel Connection—8-16 AWG

**Environmental Properties**

- Continuous Working Temperature**—-35°C to +100°C [-31°F to +212°F]

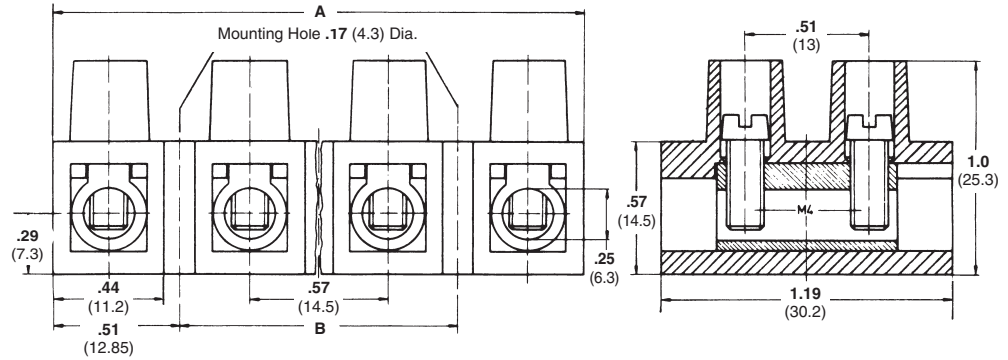
No. of Positions	Dimensions		Tunnel Connection		Wire Protector	
	A	B	Part Number	Catalog Number	Part Number	Catalog Number
1	9.4 (.37)	—	1776310-1	TSB1500 01	1776311-1	TSB1500 01DS
2	22.9 (.90)	—	1776310-2	TSB1500 02	1776311-2	TSB1500 02DS
3	36.4 (1.43)	13.5 (.53)	1776310-3	TSB1500 03	1776311-3	TSB1500 03DS
4	49.9 (1.96)	27.0 (1.06)	1776310-4	TSB1500 04	1776311-4	TSB1500 04DS
5	63.4 (2.49)	40.5 (1.59)	1776310-5	TSB1500 05	1776311-5	TSB1500 05DS
6	76.9 (3.03)	54.0 (2.12)	1776310-6	TSB1500 06	1776311-6	TSB1500 06DS
7	90.4 (3.55)	67.5 (2.65)	1776310-7	TSB1500 07	1776311-7	TSB1500 07DS
8	103.9 (4.09)	81.0 (3.19)	1776310-8	TSB1500 08	1776311-8	TSB1500 08DS
9	117.4 (4.62)	94.5 (3.72)	1776310-9	TSB1500 09	1776311-9	TSB1500 09DS
10	130.9 (5.15)	108.0 (4.25)	1-1776310-0	TSB1500 10	1-1776311-0	TSB1500 10DS
11	144.4 (5.68)	121.5 (4.78)	1-1776310-1	TSB1500 11	1-1776311-1	TSB1500 11DS
12	157.9 (6.21)	135.0 (5.31)	1-1776310-2	TSB1500 12	1-1776311-2	TSB1500 12DS



**Note:** All part numbers are RoHS Compliant.

**14.5mm [.571] Pitch, 65A—Series TSB2000**

Europe Terminal Blocks **5**



Tunnel Connection Version shown

**Material & Finish**

- Housing Material**—Polyamide 6
- Flammability**—UL94V-2
- Color**—Natural (off white)
- Tubular Contact**—Brass, tin plated
- Screw**—Steel, M3.5
- Screw Plating**—Zinc with chromate
- Wire Protector**—Stainless steel
- Tunnel Connection**—Without wire protector

**Mechanical Properties**

- Pitch (terminal spacing)**—14.5mm [.571"]
- Wire Strip Length**—9mm [.35"]
- Min. Wire Pull-Out Force**—150lbs.
- Recommended Tightening Torque**—12 in.-lbs.
- Recommended Screwdrivers**—Stanley 1008, Sears Craftsman 41436, Xcelite R3164

**Electrical Properties**

- Maximum Current**—65A (UR), 70A (CSA)
- Operating Voltage**—300V
- Wire Range**—6-14 AWG (UR), 6-22 AWG (CSA)
- Dielectric Withstand**—6000V

**Environmental Properties**

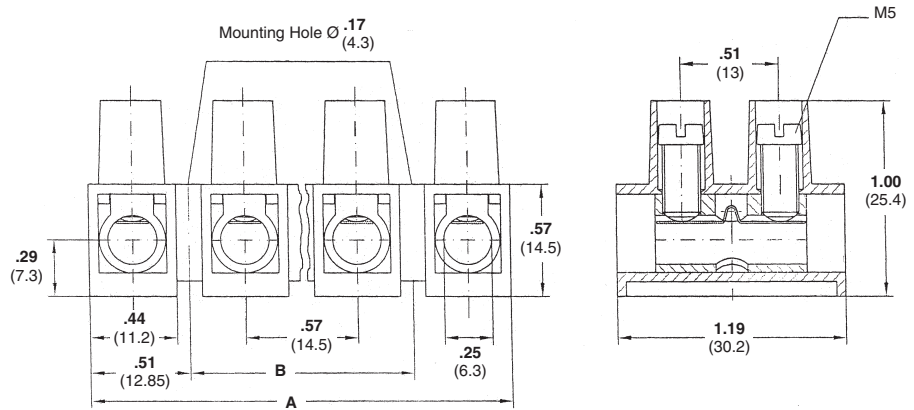
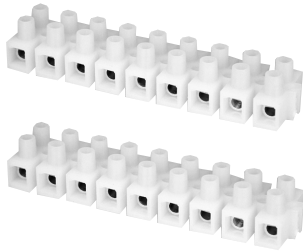
- Continuous Working Temperature**—-35°C to +100°C [-31°F to +212°F]

No. of Positions	Dimensions		Tunnel Connection		Wire Protector	
	A	B	Part Number	Catalog Number	Part Number	Catalog Number
1	11.2 (.44)	—	1776312-1	TSB2000 01	1776313-1	TSB2000 01DS
2	25.7 (1.01)	—	1776312-2	TSB2000 02	1776313-2	TSB2000 02DS
3	40.2 (1.58)	14.5 (.57)	1776312-3	TSB2000 03	1776313-3	TSB2000 03DS
4	54.7 (2.15)	29.0 (1.14)	1776312-4	TSB2000 04	1776313-4	TSB2000 04DS
5	69.2 (2.72)	43.5 (1.71)	1776312-5	TSB2000 05	1776313-5	TSB2000 05DS
6	83.7 (3.30)	58.0 (2.28)	1776312-6	TSB2000 06	1776313-6	TSB2000 06DS
7	98.2 (3.87)	72.5 (2.85)	1776312-7	TSB2000 07	1776313-7	TSB2000 07DS
8	112.7 (4.44)	87.0 (3.43)	1776312-8	TSB2000 08	1776313-8	TSB2000 08DS
9	127.2 (5.01)	101.5 (4.00)	1776312-9	TSB2000 09	1776313-9	TSB2000 09DS
10	141.7 (5.58)	116.0 (4.57)	1-1776312-0	TSB2000 10	1-1776313-0	TSB2000 10DS
11	156.2 (6.15)	130.5 (5.14)	1-1776312-1	TSB2000 11	1-1776313-1	TSB2000 11DS
12	170.7 (6.72)	145.0 (5.71)	1-1776312-2	TSB2000 12	1-1776313-2	TSB2000 12DS



**Note:** All part numbers are RoHS Compliant.

**14.5mm [.571] Pitch, 65A High Temperature—Series TSB2000...HT**



**Material & Finish**

- Housing Material**—Polyamide 6/6
- Flammability**—UL94V-0
- Housing Color**—Brown
- Tubular Contact**—Brass, tin plated
- Screw**—Steel, M3.5
- Screw Plating**—Zinc with chromate
- Wire Protector**—Stainless steel

**Mechanical Properties**

- Pitch (terminal spacing)**—14.5mm [.571"]
- Wire Strip Length**—9mm [.35"]
- Min. Wire Pull-Out Force**—150 lbs.
- Recommended Tightening Torque**—12 in.-lbs.
- Recommended Screwdrivers**—Stanley 1008, Sears Craftsman 41436, Xcelite R3164

**Electrical Properties**

- Maximum Current**—65A (UR), 70A (CSA)
- Operating Voltage**—300V
- Wire Range**—6-14 AWG (UR), 6-22 AWG (CSA)
- Dielectric Withstand**—6000V

**Environmental Properties**

- Continuous Working Temperature**—-35°C to +150°C [-31°F to +302°F]

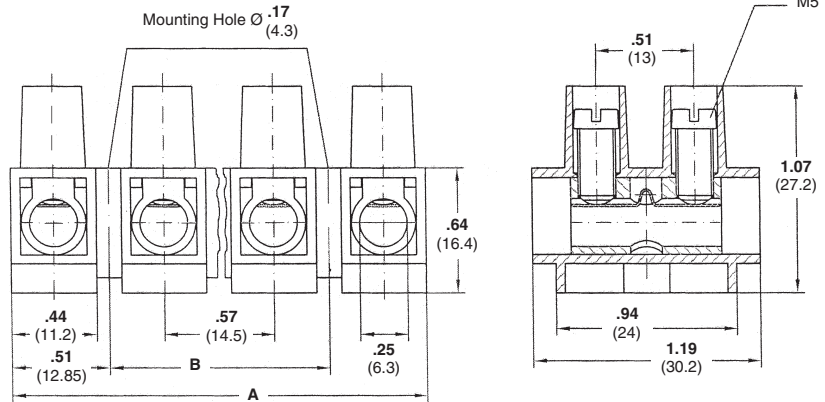
No. of Positions	Dimensions		Wire Protector	
	A	B	Part Number	Catalog Number
1	11.2 (.44)	—	1776314-1	TSB2000 01 DSHT
2	25.7 (1.01)	—	1776314-2	TSB2000 02 DSHT
3	40.2 (1.58)	14.5 (.57)	1776314-3	TSB2000 03 DSHT
4	54.7 (2.15)	29.0 (1.14)	1776314-4	TSB2000 04 DSHT
5	69.2 (2.72)	43.5 (1.71)	1776314-5	TSB2000 05 DSHT
6	83.7 (3.30)	58.0 (2.28)	1776314-6	TSB2000 06 DSHT
7	98.2 (3.87)	72.5 (2.85)	1776314-7	TSB2000 07 DSHT
8	112.7 (4.44)	87.0 (3.43)	1776314-8	TSB2000 08 DSHT
9	127.2 (5.01)	101.5 (4.00)	1776314-9	TSB2000 09 DSHT
10	141.7 (5.58)	116.0 (4.57)	1-1776314-0	TSB2000 10 DSHT
11	156.2 (6.15)	130.5 (5.14)	1-1776314-1	TSB2000 11 DSHT
12	170.7 (6.72)	145.0 (5.71)	1-1776314-2	TSB2000 12 DSHT

Note: Minimum order quantities may apply.



**Note:** All part numbers are RoHS Compliant.

**14.5mm [.571] Pitch, 65A High Voltage Version—Series TSB2000...US**



**Material & Finish**

- Housing Material**—Polyamide 6
- Flammability**—UL94V-2
- Color**—Natural (off white)
- Tubular Contact**—Brass, tin plated
- Screw**—Steel, M3.5
- Screw Plating**—Zinc with chromate
- Wire Protector**—Stainless Steel

**Mechanical Properties**

- Pitch (terminal spacing)**—14.5mm [.571"]
- Wire Strip Length**—9mm [.35"]
- Min. Wire Pull-Out Force**—150 lbs.
- Recommended Tightening Torque**—12 in.-lbs.
- Recommended Screwdrivers**—Stanley 1008, Sears Craftsman 41436, Xcelite R3164

**Electrical Properties**

- Maximum Current**—65A (UR), 70A (CSA)
- Operating Voltage**—600V
- Wire Range**—6-14 AWG (UR), 6-22 AWG (CSA)
- Dielectric Withstand**—6000V

**Environmental Properties**

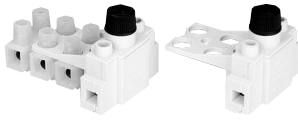
- Continuous Working Temperature**—-35°C to +100°C [-31°F to +212°F]

No. of Positions	Dimensions		Wire Protector	
	A	B	Part Number	Catalog Number
1	11.2 (.44)	—	—	TSB2000 01KDS
2	25.7 (1.01)	—	1776315-2	TSB2000 02KDS
3	40.2 (1.58)	14.5 (.57)	1776315-3	TSB2000 03KDS
4	54.7 (2.15)	29.0 (1.14)	1776315-4	TSB2000 04KDS
5	69.2 (2.72)	43.5 (1.71)	1776315-5	TSB2000 05KDS
6	83.7 (3.30)	58.0 (2.28)	1776315-6	TSB2000 06KDS
7	98.2 (3.87)	72.5 (2.85)	1776315-7	TSB2000 07KDS
8	112.7 (4.44)	87.0 (3.43)	1776315-8	TSB2000 08KDS
9	127.2 (5.01)	101.5 (4.00)	1776315-9	TSB2000 09KDS
10	141.7 (5.58)	116.0 (4.57)	1-1776315-0	TSB2000 10KDS
11	156.2 (6.15)	130.5 (5.14)	1-1776315-1	TSB2000 11KDS
12	170.7 (6.72)	145.0 (5.71)	1-1776315-2	TSB2000 12KDS

**Europa Terminal Blocks**  
5



**Fuse Holder (for Series TSB500, TSB1000)—Series 500Si**



**Material & Finish**

**Housing Material**—Polyamide 6/6

**Color**—Gray

**Tubular Contact**—Brass, tin plated

**Screw**—Steel

**Screw Plating**—Zinc with chromate

**Mechanical Properties**

**Pitch (terminal spacing)**—  
10mm [.394] and 12mm [.472]

**Wire Strip Length**—6.5mm [.256]

**Electrical Properties**

**Maximum Current**—

To VDE 0820—10A

To VDE 0700/0711—10A

**Operating Voltage**—250V

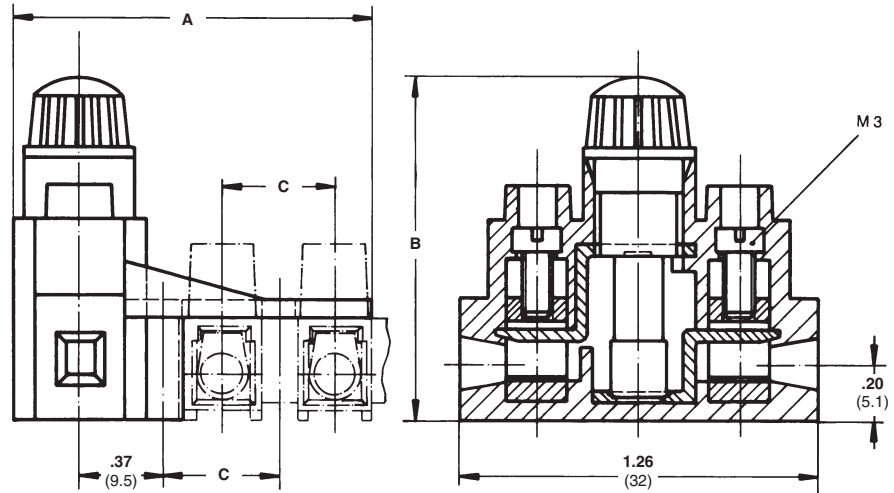
**Wire Range**—12-22 AWG

**Environmental Properties**

**Continuous Working**

**Temperature**—

-35°C to +100°C [-31°F to +212°F]



**Series 500Si:**

Two versions mate with TSB500 and TSB1000 to provide a fuse holder for 5 x 20mm [.197 x .787] or 5mm x 25mm [.197 x .984] fuses. These connectors comply with VDE 0820, part 2.

**Series 500Si...K:**

Same as the standard series but provides a raised, transparent “bayonet catch” which serves as a Fuse Link Carrier for fuses 5 x 25mm [.197 x .984] (with indicator).

Description	Dimensions			Catalog Number
	A	B	C	
For TSB500 Series	35 (1.378)	29 (1.142)	10 (.394)	500Si 5
For TSB1000 Series	37 (1.457)	30 (1.181)	12 (.472)	500Si 10
w/ Fuse Link Carrier for TSB500 Series	35 (1.378)	34 (1.339)	10 (.394)	500Si 5K
w/ Fuse Link Carrier for TSB1000 Series	37 (1.457)	35 (1.378)	12 (.472)	500Si 10K

**Note:** All part numbers are RoHS Compliant.

**Covers—Series ABK**



**Material & Finish**

**Housing Material**—Polyamide 6/6

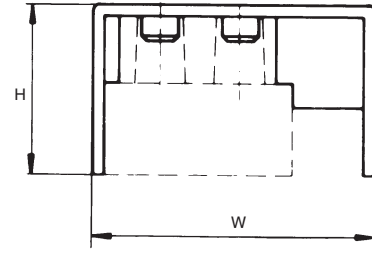
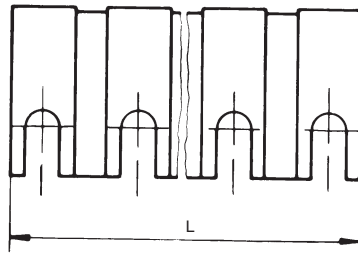
**Color**—Gray

**Continuous Working**

**Temperature**—100°C [212°F]

**Series ABK 405, 406, & 415 Covers**

These covers mate with Series TSB500, TSB1000 and TSB1500. They do not mate with TSB500 SK.



**Cover for TSB500 Series**

Dimensions L x W x H	Catalog Number
18 x 29 x 18.8 (.709 x 1.142 x .740)	ABK 405 02
28 x 29 x 18.8 (1.102 x 1.142 x .740)	ABK 405 03
38 x 29 x 18.8 (1.496 x 1.142 x .740)	ABK 405 04
58 x 29 x 18.8 (2.283 x 1.142 x .740)	ABK 405 06
118 x 29 x 18.8 (4.646 x 1.142 x .740)	ABK 405 12

**Cover for TSB1000 Series**

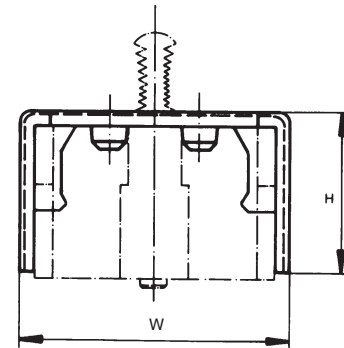
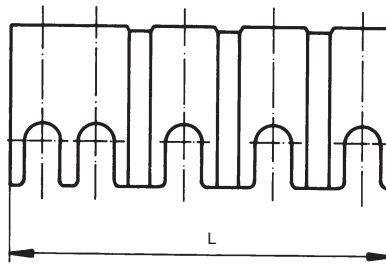
Dimensions L x W x H	Catalog Number
21 x 35.5 x 20.7 (.827 x 1.398 x .815)	ABK 406 02
33 x 35.5 x 20.7 (1.299 x 1.398 x .815)	ABK 406 03
45 x 35.5 x 20.7 (1.772 x 1.398 x .815)	ABK 406 04
69 x 35.5 x 20.7 (2.717 x 1.398 x .815)	ABK 406 06
141 x 35.5 x 20.7 (5.551 x 1.398 x .815)	ABK 406 12

**Cover for TSB1500 Series**

Dimensions L x W x H	Catalog Number
24 x 37.5 x 25.5 (.945 x 1.476 x 1.004)	ABK 415 02
37.5 x 37.5 x 25.5 (1.476 x 1.476 x 1.004)	ABK 415 03
51 x 37.5 x 25.5 (2.008 x 1.476 x 1.004)	ABK 415 04
78 x 37.5 x 25.5 (3.071 x 1.476 x 1.004)	ABK 415 06
158 x 37.5 x 25.5 (6.220 x 1.476 x 1.004)	ABK 415 12

**Series ABK 503 Covers**

These covers mate with Series 503Si.



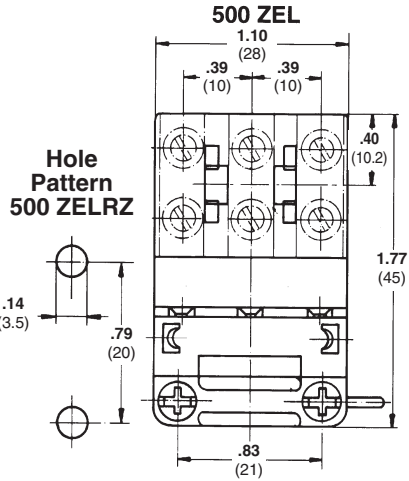
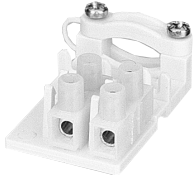
**Cover for 503Si Series**

Dimensions L x W x H	Catalog Number
13.5 x 30.5 x 18.5 (.531 x 1.201 x .728)	ABK 503 02
24 x 30.5 x 18.5 (.945 x 1.201 x .728)	ABK 503 03
33.5 x 30.5 x 18.5 (1.319 x 1.201 x .728)	ABK 503 04
43 x 30.5 x 18.5 (1.693 x 1.201 x .728)	ABK 503 05



**Note:** All part numbers are RoHS Compliant.

**Strain Relief (for Series TSB500)—Series 500...ZEL**



**Material & Finish**

**Housing Material**—Polyamide 6/6

**Color**—White

**Tracking Resistance**—CTI 600

**Screw**—Steel

**Screw Plating**—Zinc with yellow chromate C 2.9 x 13mm [.114 x .512]

**Environmental Properties**

**Continuous Working**

**Temperature**—  
-35°C to +100°C [-31°F to +212°F]

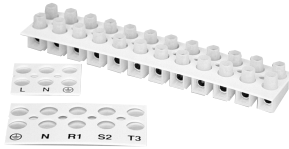
Description	Part Number	Catalog Number
For Series TSB500	1546182-1	500 3ZEL
With Catch Pin for Series TSB500	1546182-2	500 3ZELRZ

Strain reliefs are provided with a captive clamping mechanism that can be rotated by 180° accommodating variable sizes of conductors. Two Phillips screws are enclosed.

A cable guide comb for TSB500 of 3 or more circuits fixes the Europa block to the strain relief. A screw mounts the Europa block to the 500 3ZEL; a catch pin mounts the block to the 500 3ZELRZ

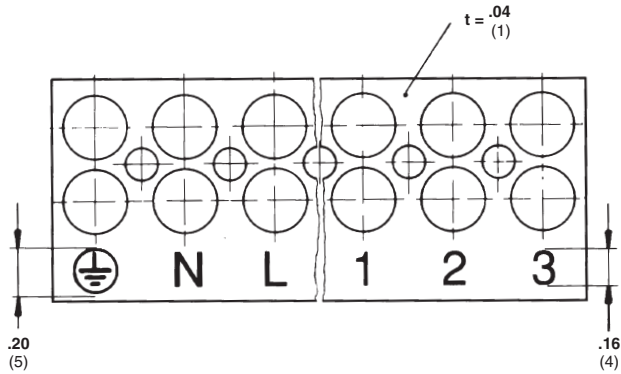
**Note:** All part numbers are RoHS Compliant.

**Blank Marking Labels—Series...BZ (2-12 Circuits)**



**Material & Finish**

**Material**—Roughened synthetic  
**Color**—White  
**Thickness**—1mm



Catalog Number				
<b>TSB230 Series</b>	<b>TSB500 Series</b>	<b>TSB1000 Series</b>	<b>TSB1500 Series</b>	<b>TSB2000 Series</b>
230 BZM	500 BZM	1000 BZM	1500 BZM	2000 BZM

Standard Package: 100 pieces per catalog number, 2-meter [6.56 ft] length

Each pole is provided with 2 holes allowing the marking labels to be slipped on the “chimney” tops, and with a mounting hole corresponding to the mounting hole of the connectors.

**Marking Strips:**

Series TSB Marking Strips are available in both Standard and Custom-cut lengths. Standard Marking Strips are supplied blank, 2 meters [6.56 ft] in length which the customer may

cut to suit individual length requirement. Custom Marking Strips are supplied pre-cut, and may be ordered blank or with printing. Marking Strips protrude from the barrier strip approximately 5mm [.197] on one side, and can be affixed to either the bottom or the top of the barrier strip.

TSB230 Series		TSB500 Series		TSB1000 Series		TSB1500 Series	TSB2000 Series
Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number	Catalog Number	Catalog Number
—	M230 BZ 02	—	M500 BZ 02	—	M1000 BZ 02	M1500 BZ 02	M2000 BZ 02
1-1437387-5	M230 BZ 03	—	M500 BZ 03	—	M1000 BZ 03	M1500 BZ 03	M2000 BZ 03
1-1437387-6	M230 BZ 04	—	M500 BZ 04	—	M1000 BZ 04	M1500 BZ 04	M2000 BZ 04
—	M230 BZ 05	—	M500 BZ 05	—	M1000 BZ 05	M1500 BZ 05	M2000 BZ 05
—	M230 BZ 06	2-1437387-3	M500 BZ 06	—	M1000 BZ 06	M1500 BZ 06	M2000 BZ 06
—	M230 BZ 07	—	M500 BZ 07	—	M1000 BZ 07	M1500 BZ 07	M2000 BZ 07
—	M230 BZ 08	—	M500 BZ 08	1546830-8	M1000 BZ 08	M1500 BZ 08	M2000 BZ 08
1-1437387-7	M230 BZ 09	—	M500 BZ 09	—	M1000 BZ 09	M1500 BZ 09	M2000 BZ 09
1-1437387-8	M230 BZ 10	—	M500 BZ 10	—	M1000 BZ 10	M1500 BZ 10	M2000 BZ 10
—	M230 BZ 11	—	M500 BZ 11	—	M1000 BZ 11	M1500 BZ 11	M2000 BZ 11
1-1437387-9	M230 BZ 12	2-1437387-4	M500 BZ 12	1437387-6	M1000 BZ 12	M1500 BZ 12	M2000 BZ 12

Standard Package: 250 pieces per catalog number

**Note:** All part numbers  
are RoHS Compliant.

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## Engineering Notes

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**Note:** All part numbers are RoHS Compliant.

**Table of Contents—NEMA ETB**

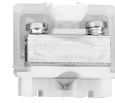
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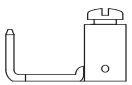
**Note:** All part numbers are RoHS Compliant.

## NEMA ETB Selector Chart

### High Density Series 100

### Medium Duty Series 900






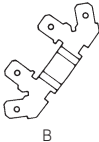
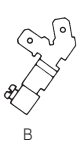







	High Density Miniature	High Density Single Tier	High Density Double Tier	Medium Duty			
<b>Mounting</b>	Direct Mount, Miniature Channel	Direct Mount, Standard & Breakaway Channel	Channel only: Standard & Breakaway	Direct Mount Standard, Miniature & Breakaway Channels			
<b>AWG Wire Range</b>	#30-12	#30-12	#30-12	#22-8	#22-8	10*, #22-14	#22-10
<b>Contact Types</b>		Tubular Clamp		Tubular Clamp	Tubular Screw	Strap Screw	Plug-In
<b>R</b> =Shipped with screws raised <b>B</b> =Shipped with screws bottomed		 B		 B	 B	 B	
<b>Ampacity</b>	28A	28A	25A	30A	50A	35A*, 15A	30A
<b>Voltage</b>	300 V 600 V (Limited Power Circuits)	600 V	600 V	600 V	600 V	600 V	600 V
<b>Center-to-Center Spacing</b>	.25" [6.35]	.25" [6.35]	.24" [6.10]	.375" [9.53]	.375" [9.53]	.375" [9.53]	.375" [9.53]
<b>Housing Material</b>	Nylon or Polypropylene	Nylon	Nylon	PCT	PCT	PCT	PCT
<b>Flammability Rating</b>	UL94V-2 or UL94V-0	UL94V-2	UL94V-2	UL94V-0	UL94V-0	UL94V-0	UL94V-0
<b>Max. Service Temperature</b>	125°C (257°F) or 105°C (222°F)	125°C (257°F)	125°C (257°F)	150°C (302°F)	150°C (302°F)	150°C (302°F)	150°C (302°F)
<b>Pages</b>		246		250	250	250	251

\*Acceptable for 35A max. factory wiring only when used with 10AWG wire preterminated with suitable ring tongue terminals.



**Note:** All part numbers are RoHS Compliant.

**NEMA ETB Selector Chart (Continued)**











	<b>Medium Duty Series 900</b>		<b>ERT Series</b>			<b>Heavy Duty Series 200</b>			
									
	<b>Medium Duty</b>		<b>Medium Duty Radiation Resistant</b>			<b>Nylon or Polypropylene</b>			
<b>Mounting</b>	Direct Mount Standard, Miniature & Breakaway Channels		Standard and Breakaway Channels			Direct Mount or: Flat Base fits Miniature Channel. Dovetail Base fits Standard & Breakaway Channels			
<b>AWG Wire Range</b>	— #18-12		#22-8	#22-8	#10*, #22-14	#18-6 smaller	#18-4	#18-8	#10 & smaller
<b>Contact Types</b>	Quick Connect	Tubular Quick Connect Combination	Tubular Clamp	Tubular Screw	Strap Screw	Tubular Clamp	Tubular Screw	Strap Clamp	Strap Screw
<b>R=</b> Shipped with screws raised <b>B=</b> Shipped with screws bottomed									
<b>Ampacity</b>	20A	20A	30A	50A	35A*, 15A	65A	85A	50A	35A
<b>Voltage</b>	300 V		600 V			600 V			
<b>Center-to-Center Spacing</b>	.375" [9.53]		.375" [9.53]			.50" [12.70]			
<b>Housing Material</b>	PCT		RYTON			Nylon or Polypropylene			
<b>Flammability Rating</b>	UL94V-0		UL94V-0			UL94V-2 or UL94V-0			
<b>Max. Service Temperature</b>	150°C (302°F)		200°C (392°F)			125°C (257°F) or 105°C (222°F)			
<b>Pages</b>	250	251	252			260-261			

NEMA Terminal Blocks **6**



**Note:** All part numbers are RoHS Compliant.

**NEMA ETB Selector Chart** (Continued)

	Heavy Duty Series 200				Intermediate HD Series 800		Ultra Heavy Duty Series 400	
								
	Phenolic				Intermediate Heavy Duty		Ultra Heavy Duty	
<b>Mounting</b>	Direct Mount or Standard & Breakaway Channels				Direct Mount or Standard & Breakaway Channels		Direct Mount or Standard & Breakaway Channels	
<b>AWG Wire Range</b>	#18-6	#18-4	#18-8	#10 & smaller	#12-1/0		#12-2/0 kcmil (MCM)	
<b>Contact Types</b>	Tubular Clamp	Tubular Screw	Strap Clamp	Strap Screw	Tubular Screw		Tubular Screw	Tubular Screw
<b>R</b> =Shipped with screws raised <b>B</b> =Shipped with screws bottomed	 B	 R	 B	 B	 B		 R	 R
<b>Ampacity</b>	65A	85A	50A	35A	150A		175A	255A
<b>Voltage</b>	600 V				600 V		600 V	
<b>Center-to-Center Spacing</b>	.56" [14.22]				.75" [19.05]		1.19" [30.23]	
<b>Housing Material</b>	Phenolic				Nylon		Phenolic	
<b>Flammability Rating</b>	UL94V-1				UL94V-2		UL94V-1	
<b>Max. Service Temperature</b>	150°C (302°F)				125°C (257°F)		150°C (302°F)	
<b>Pages</b>	267-272				273-276		277-279	



**Note:** All part numbers are RoHS Compliant.

**NEMA ETB Selector Chart (Continued)**

**Fuse and Switch Series 300**

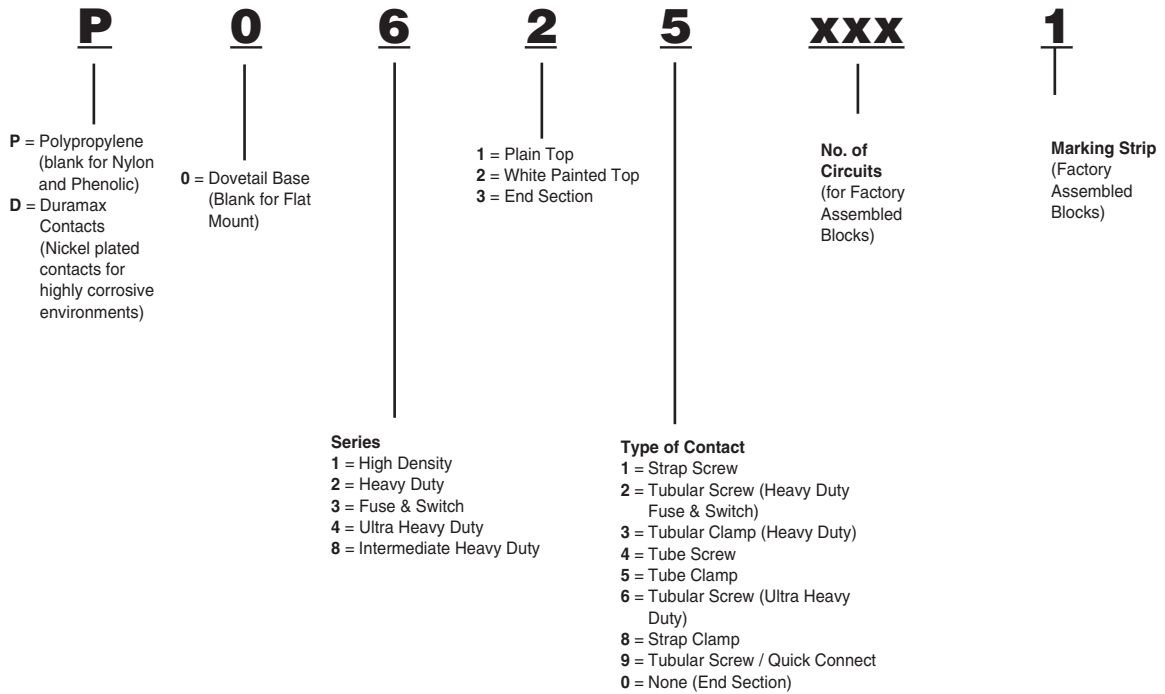
**One-Piece**



	Nylon or Polypropylene			Phenolic			One-Piece		
<b>Mounting</b>	Direct Mount or Standard & Breakaway Channels			Direct Mount or Standard & Breakaway Channels			Direct Mount		
<b>AWG Wire Range</b>	#18-8	#18-8	#8	#18-8 & Smaller	#18-8	#8 & Smaller	#6	#8	#8
<b>Contact Types</b>	Tubular Screw	Strap Clamp	Strap Screw	Tubular Screw	Strap Clamp	Strap Screw	Tubular Clamp	Strap Clamp	Strap Screw
<b>R</b> =Shipped with screws raised <b>B</b> =Shipped with screws bottomed	 R	 R	 R	 B	 B	 B	 R	 R	 R
<b>Ampacity</b>	15A Switch 30A Fuse			15A Switch 30A Fuse			70A	50A	50A
<b>Voltage</b>	600 V			600 V			600 V		
<b>Center-to-Center Spacing</b>	.75" [19.05]			.75" [19.05]			.63" [16.00]		
<b>Housing Material</b>	Nylon or Polypropylene			Phenolic			Phenolic		
<b>Flammability Rating</b>	UL94V-2 or UL94V-0			UL94V-1			UL94V-1		
<b>Max. Service Temperature</b>	125°C (257°F) or 105°C (222°F)			150°C (302°F)			150°C (302°F)		
<b>Pages</b>	282-285			286-288			289-292		

**Note:** All part numbers are RoHS Compliant.

**Catalog Numbering Code**

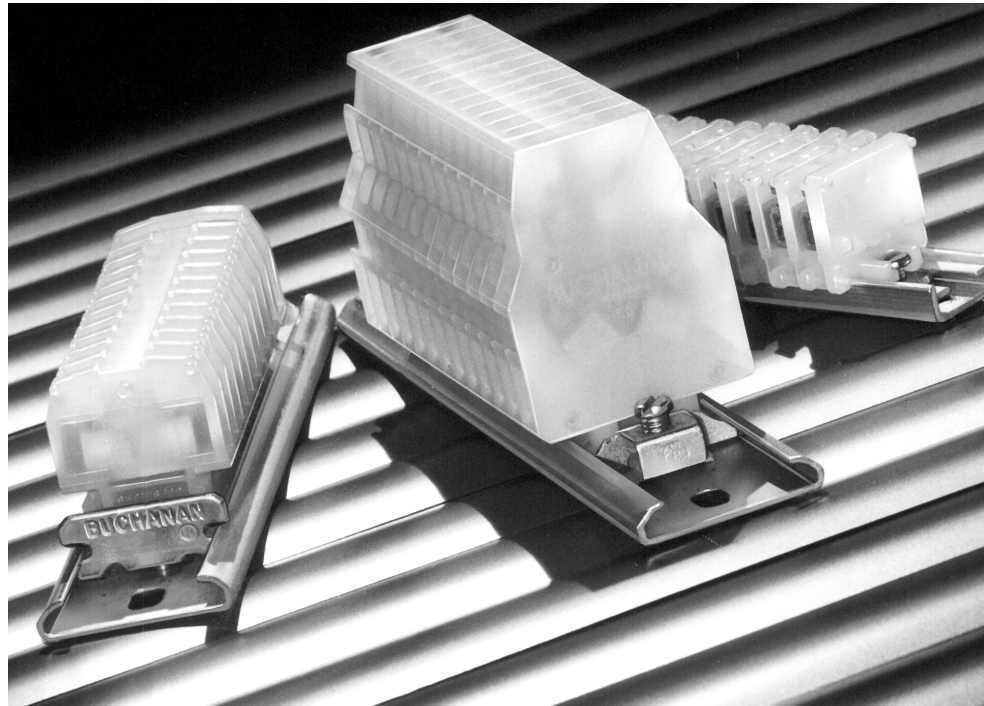


**Note:** Some catalog number combinations are not valid. Check appropriate catalog pages before ordering.

## 100 Series High Density Miniature Blocks

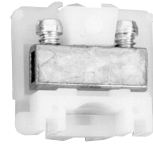
### Product Facts

- n **No Wire Crimping Required** — tubular clamp contacts hold wire ranging from #30 to #12 AWG better than crimp-on terminals.
- n **Saves Installation Time and Costs** — tubular clamp contacts are supplied with captive screws backed out.
- n **Nylon housing standard; polypropylene for fire retardant characteristics.**
- n **Positive Stop** — helps prevent wire from being inserted too far, and helps prevent screw from being tightened on insulation. Easy access contact provides for safe, reliable, and cost-effective connection.
- n **Quick Installation and Change** — additional sections may be added or removed without removing channel mounting screw.
- n **Choice of Five Mounting Channels:**
  - n Miniature aluminum
  - n Zinc-plated steel
  - n Pre-punched aluminum
  - n Break-away steel
- n **Single and Double Tier blocks fit all standard BUCHANAN mounting channels. Single Tier blocks fit both miniature and standard channels.**
- n **Choice of Marking Surfaces** — matte-finish area for marking directly on block; slide-in vinyl strip (blank or preprinted) also available.

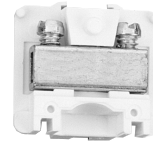


These miniature terminal blocks fit on a much smaller channel to save valuable panel space or can be surface mounted directly to the panel. Miniature blocks accept wire as large as #12 AWG and are available in four styles: Miniature (nylon), Miniature (polypropylene), Single Tier and Double Tier.

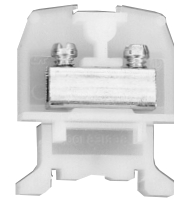
## 100 Series High Density Miniature Blocks



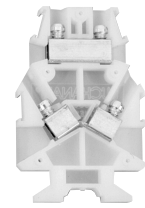
**Miniature  
Nylon**



**Miniature  
Polypropylene**



**Single Tier**



**Double Tier**

**Characteristics**

Type of Block	Model	Part Number	Model	Part Number	Model	Part Number	Model	Part Number
Standard Block	125-BU	2-1437392-3	P125	4-1437392-7	115-BU	1437381-5	105-BU	1-1437392-7
Corrosion Resistant (nickel plated contacts)	D125	3-1437389-3	DP125	7-1437389-1	D115	3-1437389-2	D105	2-1437392-9
<b>Specifications</b>								
Housing Material	Nylon	—	Polypropylene	—	Nylon	—	Nylon	—
Max. Service Temperature	125°C (257°F)	—	105°C (221°F)	—	125°C (257°F)	—	125°C (257°F)	—
Flammability	UL94V-2	—	UL94V-0	—	UL94V-2	—	UL94V-2	—
Wire Strip Length (in.)	5/16	—	5/16	—	5/16	—	5/16	—
Torque, in-lbs.	6-9	—	6-9	—	6-9	—	6-9	—
<b>Electrical Characteristics</b>								
UL Rating	20 A @ 300V	—	20 A @ 300V	—	20 A @ 600V	—	20 A @ 600V	—
Wire Range (solid & stranded)	30-12	—	30-12	—	30-12	—	30-12	—
<b>Spacing</b>								
Pitch	0.25"	—	0.25"	—	0.25"	—	0.24"	—
Terminals per Foot	48	—	48	—	48	—	102	—
<b>Accessories</b>								
End Section (gray)	130-BU	2-1437392-5	P130	4-1437392-9	120	2-1437392-1	110-BU	1-1437392-8
Jumper, 2 pole	10	1437381-1	10	1437381-1	10	1437381-1	—	—
Jumper, 10 pole	—	—	—	—	—	—	J10	3-1437392-1
Jumper, Inter-tier	—	—	—	—	—	—	J2-BU	3-1437392-2
<b>Mounting Channel</b>								
Miniature (3ft)	12	1437381-8	12	1437381-8	12	1437381-8	—	—
Steel, Zinc plated (6ft)	—	—	—	—	60	9-1437381-1	60	9-1437381-1
Steel, Zinc plated (3ft)	—	—	—	—	63-BU	9-1437381-8	63-BU	9-1437381-8
Breakaway, steel	—	—	—	—	60B36	9-1437381-2	60B36	9-1437381-2
Pre-punched aluminum (6ft)	—	—	—	—	64	9-1437381-9	64	9-1437381-9
Pre-punched aluminum (3ft)	—	—	—	—	67	1437382-2	67	1437382-2
<b>Channel Clamps</b>								
Miniature (use w/#12 channel)	11	1437381-4	11	1437381-4	11	1437381-4	—	—
Universal	—	—	—	—	68	1437382-3	68	1437382-3

## 100 Series High Density Miniature Blocks Accessories

### Channel Clamps



### Marking Accessories



Screw Steel Channel	Universal	Snap-in	Miniature for #12 Channel	See-thru Cover	Ganging Rod	Miniature Vinyl Marking Strips	Elevated Marking Strip	Nylon Holding Plug
<b>Part Number</b>								
9-1437381-5	1437382-3	9-1437381-7	1437381-4	1-1437381-0	1-1437381-1	1-1437381-2	4-1437381-1	1-1437381-3
<b>Catalog Number</b>								
61	68	62	11	13	14	15	52-BU	16
<b>Available For</b>								
Single Tier Double Tier	Single Tier Double Tier	Single Tier Double Tier	Miniature Single Tier	Miniature Single Tier	Miniature Single Tier	Miniature Single Tier Double Tier	Miniature Single Tier Double Tier	Miniature Single Tier
<b>Standard Length</b>								
—	—	—	—	—	2 feet	25 feet	18 inches	—

### Factory Assembled Blocks

Description	Direct Mount	Channel Mount
Miniature (nylon)	125xx	0125xx
	D125xx (nickel)	D0125xx (nickel)
Single Tier (nylon)	115xx	0115xx
	D115xx (nickel)	D0115xx (nickel)
Double Tier (nylon)	105xx	0105xx
	D105xx (nickel)	D0105xx (nickel)
Miniature (polypropylene)	P125xx	P0125xx
	DP125xx (nickel)	DP0125xx (nickel)

**Note:** xx = number of blocks desired. For factory assembled blocks with removable marking strip, add "-1" to Catalog Number. Minimum order quantities may apply.

### Related Product Data

**Wire Pins and Ferrules**—Pages 109-111

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



**Note:** All part numbers are RoHS Compliant.

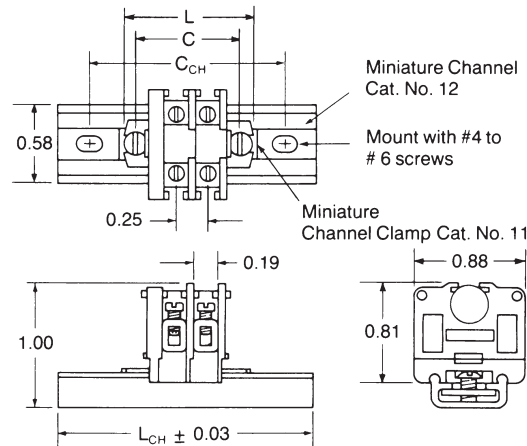
**Miniature Blocks**

**Miniature**

$C = .29 [7.37] + (.25 [6.35] \times N)$   
 $L = .51 [12.95] + (.25 [6.35] \times N)$

**On Miniature Channel:**

$C_{CH} = 1.00 [25.4] + (.25 [6.35] \times A)$   
 $L_{CH} = 1.35 [34.29] + (.25 [6.35] \times A)$   
 A = N when N is even  
 A = N + 1 when N is Odd  
 N = No. of Miniature Sections

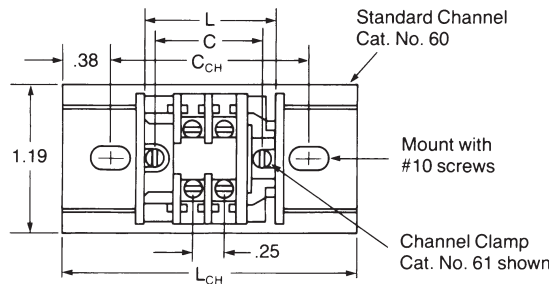


**Single Tier**

$C = .35 [8.89] + (.25 [6.35] \times N)$   
 $L = .50 [12.7] + (.25 [6.35] \times N)$

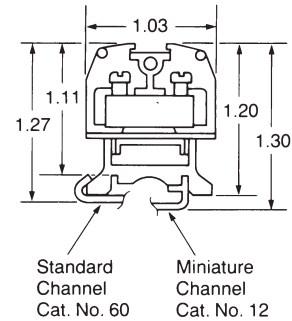
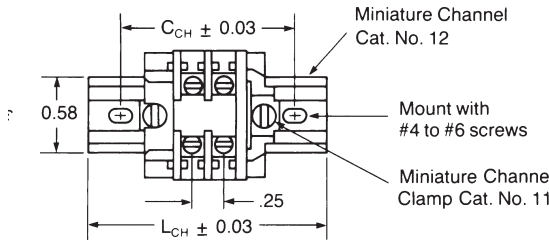
**On Standard Channel:**

$C_{CH} = 2.00 [50.8] + (.25 [6.35] \times N)$   
 $L_{CH} = 2.75 [69.85] + (.25 [6.35] \times N)$   
 N = No. of Single Tier Sections



**On Miniature Channel:**

$C_{CH} = 1.00 [25.4] + (.25 [6.35] \times A)$   
 $L_{CH} = 1.35 [34.29] + (.25 [6.35] \times A)$   
 A = N when N is Even  
 A = N + 1 when N is Odd  
 N = No. of Single Tier Sections

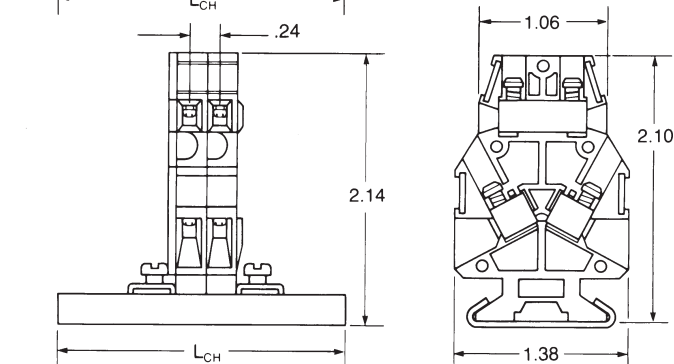
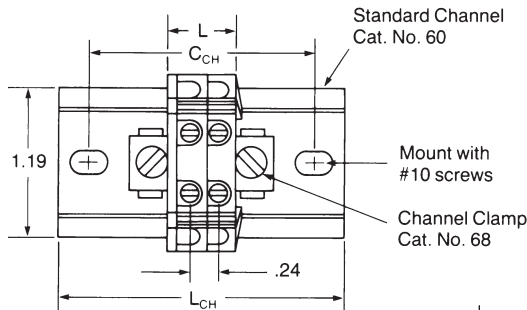


**Double Tier**

$L = .08 [2.03] + (.24 [6.10] \times N)$

**On Miniature Channel:**

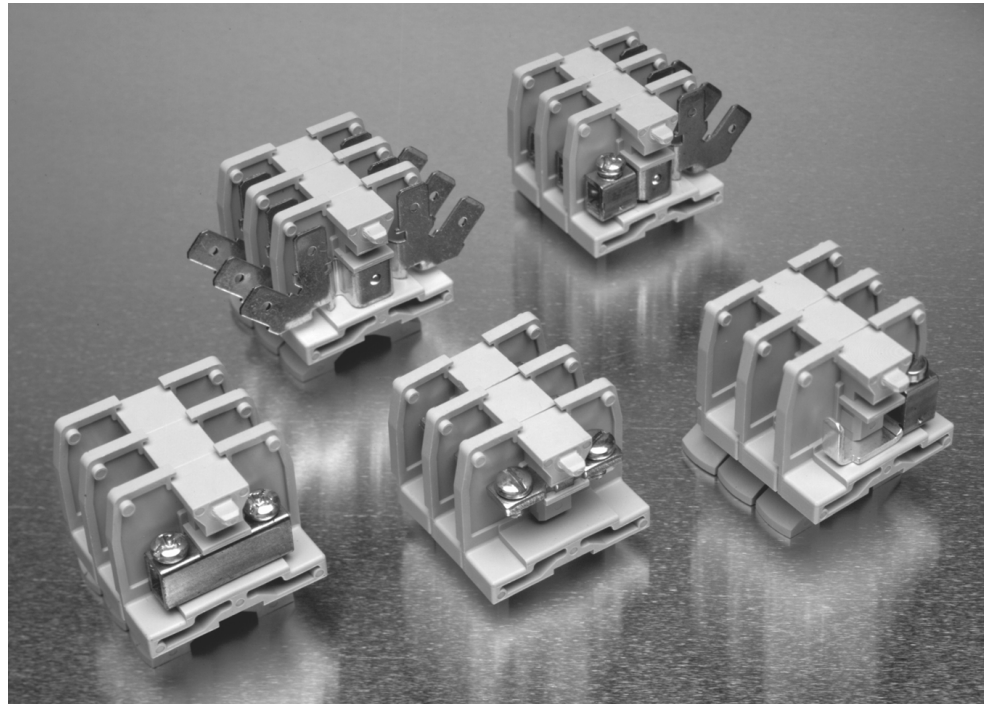
$C_{CH} = 1.58 [2.03] + (.24 [6.10] \times A)$   
 $L_{CH} = 2.33 [59.18] + (.24 [6.10] \times A)$   
 N = No. of Double Tier Sections



## 900 Series, Medium Duty

### Product Facts

- n High circuit density - 183 circuits per 6-foot length, 3/8 inch pitch.
- n Choice of five contact styles - tubular clamp, tubular screw, strap screw, quick connect and tubular screw quick connect.
- n Sections snap-fit with Heavy Duty, Intermediate Heavy Duty, and Fuse & Switch blocks.
- n Readily identify circuits - mark directly on block sections or use removable marking strip. Preprinted marking strips also available.
- n Rated up to 50 amperes per circuit.
- n Flat base models mount directly to surfaces or on miniature channel. Dovetail base mounts on standard size channel.
- n Packaged for rapid handling and assembly - 100 per carton.
- n Only one end section needed per block assembly.
- n Fanning strips - interlocking sectional fanning strips allow entire circuit groups to be connected and disconnected as a single unit.
- n Factory assembled blocks available, including marking strips and different contact sections.



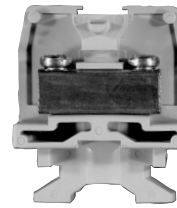
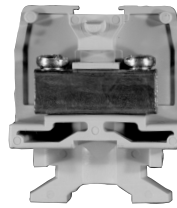
NEMA 900 Series is available in .375" [9.53] centerline, in direct or channel mount, tubular or strap versions, and screw, clamp or quick connect configurations. Corrosion-resistant versions are also available.

NEMA 900 Series snap fit with the Medium Duty 500, 600 and 700 Series, as well as with the Heavy Duty, Intermediate Heavy Duty and Fuse & Switch blocks.



**Note:** All part numbers are RoHS Compliant.

**900 Series, 600V Medium Duty, 0.375" [9.53] Pitch**



**Characteristics**

**Strap Screw**

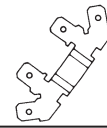
**Tubular Screw**

**Tubular Clamp**

**Quick Connect**

Type of Block	Model	Part Number	Model	Part Number	Model	Part Number	Model	Part Number
<b>Direct Mount (Flat Base)</b>								
Standard	921	1546143-1	924	1546147-1	925	1546234-1	927	1546149-1
Corrosion Resistant (Duramax)	D921	1546143-2	D924	1546147-2	D925	1546234-2	—	—
<b>Channel Mount (Dovetail Base)</b>								
Standard	0921	1546144-1	0924	1546148-1	0925	1546235-1	0927	1546150-1
(Duramax)	D0921	1546144-2	D0924	1546148-2	D0925	1546235-2	—	—

**Contact Type**



**Specifications**

Wire Range (AWG) Solid & Stranded	10*, 22-14	22-8	22-8	—
Wire Strip Length (in.)	—	11/32	11/32	—
Screw Type	6-32 Binding Head	10-32 Pan Head	10-32 Slotted Pan Head	—
Ampacity	35 A*, 15A	50 A	30 A	20 A

**End Sections**

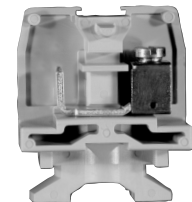
Direct Mount	930	1546163-1	930	1546163-1	930	1546163-1	930	1546163-1
Channel Mount	0930	1546164-1	0930	1546164-1	0930	1546164-1	0930	1546164-1

\*Acceptable for 35A max. factory wiring only when used with 10AWG wire preterminated with suitable ring tongue terminals.  
**Note:** Standard package is 100 pieces for contact, 25 pieces for end section.

**Comparison (Type of Block)**



**Direct Mount (Flat Base)**



**Channel Mount (Dovetail Base)**



**Note:** All part numbers are RoHS Compliant.

**900 Series, 600V Medium Duty, 0.375" [9.53] Pitch** (Continued)

**Independent Testing Service Listing and Recognition**

WIRE SIZES, Solid or Stranded

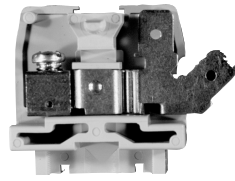
Tubular Screw

1 #18 AWG to 1 #8 AWG,  
2 or 3 #12 AWG, 2 to 4 #14 AWG,  
2 or 4 #16 AWG, 2 to 5 #18 AWG,

Tubular Clamp

1 #22 AWG to 1 #10 AWG,  
2 #12 AWG, 2 or 3 #14 AWG,  
2 to 4 #16 AWG, 2 to 5 #18 AWG,  
2 to 8 #20 AWG, 2 to 10 #22 AWG,  
Strap Clamp

1 #22 AWG to 1 #10 AWG



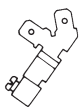
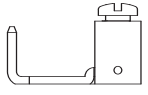
**Tubular Screw & Quick Connect**



**Tubular Clamp with Blade**



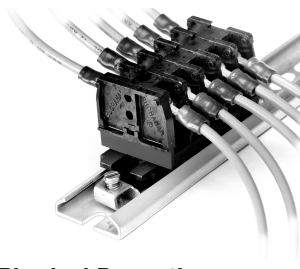
**Tubular Clamp with Cantilever**

Model	Part Number	Model	Part Number	Model	Part Number
929	1546151-1	—	—	—	—
—	—	—	—	—	—
0929	1546152-1	BP035M	3-1437394-6	BP35F	3-1437394-7
—	—	—	—	—	—
					
18-12		22-10		22-10	
—		11/32		11/32	
—		10-32 Phil-slot		10-32 Phil-slot	
20 A		30 A		30 A	
930	1546163-1	—	—	—	—
0930	1546164-1	0930	1546164-1	—	—



**Note:** All part numbers are RoHS Compliant.

**ERT Series, Medium Duty Radiation Resistant**

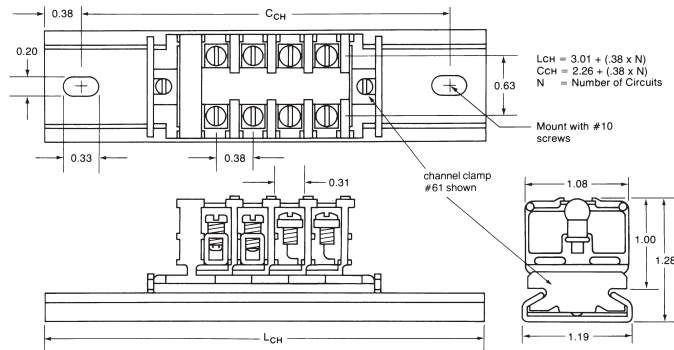


**Physical Properties**  
**Effect of Radiation on Physical Properties**

The effects of radiation (neutron and gamma particles) on RYTON R-4 material have been studied. Since RYTON, as an engineering plastic, may fill applications in nuclear installations these effects are important. The test results show no effects on physical properties by these relatively high exposures to gamma and neutron radiation. There is no indication from these data of crosslinking or degradation of the RYTON R-4 material.

**Note:** Determination of the suitability of the ERT Series Blocks for particular applications rests solely with customers.

DOVETAIL BASE MOUNTED ON STANDARD #60 CHANNEL



Description	Catalog Number	Part Number
Strap Screw	0721ERT	1437394-9
Tubular Clamp	0725ERT	1-1437394-6
Tubular Screw	0724ERT	1-1437394-1
End Section	0730ERT	2-1437394-0

Housing: RYTON (Polyphenylene Sulfide)		ASTM Test
Density	100 lbs./ft.3	D1505-68
Tensile Strength	19,500 psi	D638-72
Elongation	1.3%	D638-72
Flexural Modulus	1,700,000 psi	D790-91
Flexural Strength	29,000 psi	D790-91
Compressive Strength	21,000 psi	D695-69
Izod Impact Strength		
Unnotched, 1/8" Specimen	8.0 ft. lbs./in.	
Notched, 1/8" Specimen	1.4 ft. lbs./in.	
Rockwell Hardness	R-123	D785-65
Water Absorption	0.05%	D570-63
Heat Distortion Temp. @ 264 psi	500°F	D648-72
Specific Heat, 24 hrs. @ 25°C	0.25 btu/lb./°F	
Thermal Conductivity	2.0 btu-in./h-ft.2 F	
Coefficient/Linear Thermal Exp.	2.5 x 10-5 in./in./° F	
Flammability, UL 94	V-0	
Dielectric Strength	350 volts/mil	D149-64
Dielectric Constant, 25°C 1 kHz	3.9	D150-70
1MHz	3.8	
Dissipation Factor, 25°C 1kHz	0.0010	D150-70
1MHz	0.0013	
<b>Conditions</b>		
Temperature	In Reactor Core 35°C	In Water Pool 30°C
Radiation	Mainly neutrons	Mainly gamma
Intensity	1010 ergs g-1 (C)	109 ergs g-1 (C)
Used Particle Detectors	Calorimeter and activation detectors	Ionization chamber
<b>Radiation Dose</b>		
	Flexural Strength psi	Modulus of Elasticity, psi
0	28,700	1,900,000
<b>A. Neutron</b>		
5 x 10 rad	29,000	1,910,000
1 x 10 rad	28,900	1,880,000
<b>B. Gamma</b>		
5 x 10 rad	29,700	1,810,000
1 x 10 rad	30,200	1,840,000
5 x 10 rad	28,500	1,820,000

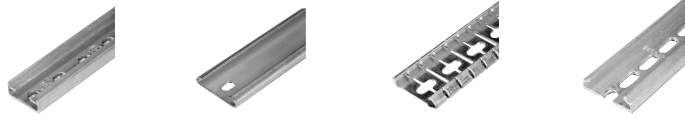
RYTON is a registered trademark of Chevron Phillips Chemical Company.



**Note:** All part numbers are RoHS Compliant.

## Medium Duty Accessories

### Mounting Channel



Miniature		Steel Channel		Break Away Steel		Pre-punched Aluminum Channel	
Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number
1437381-8	12	9-1437381-1 9-1437381-8	60 63-BU	9-1437381-2	60-B-36	9-1437381-9 1437382-2	64 67
<b>Standard Length</b>							
3 feet		6 feet 3 feet		3 feet		6 feet 3 feet	

### Channel Clamps



Screw Channel Clamps	Universal Clamps	Snap-In Clamps	Miniature for #12 Channel	See-thru Cover	Ganging Rod	Polarizing Plug	
<b>Part Number</b> 9-1437381-5	1437382-3	9-1437381-7	1437381-4	1-1437382-2	3-1437381-9	2-1437382-5	
<b>Catalog Number</b> 61	68	62	11	71	30-BU	84	
<b>Standard Length</b>						2 feet	—

### Jumpers



Jumper for tubular Contacts	Snap-apart for Tubular Contacts
<b>Part Number</b> 1437382-6	1-1437382-3
<b>Catalog Number</b> 70	73

### Related Product Data

**Wire Pins and Ferrules**—Pages 109-111  
For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.

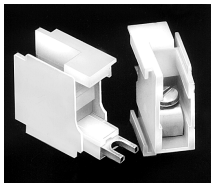
**Medium Duty Accessories** (Continued)

**Marking Accessories**

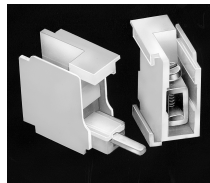


Plastic Cloth Tape	Plastic Cloth Tape	Vinyl Marking Strips	Elevated Marking Strip	Nylon Holding Plug	
<b>Part Number</b>	1437382-1	8-1437381-0	6-1437381-3	4-1437391-1	4-1437393-0
<b>Catalog Number</b>	66	55-BU	50-BU	52-BU	65-BU
<b>Standard Length</b>	—	50 feet	25 feet	18 inches	—

**Sectional Fanning Strips**



Strap Screw



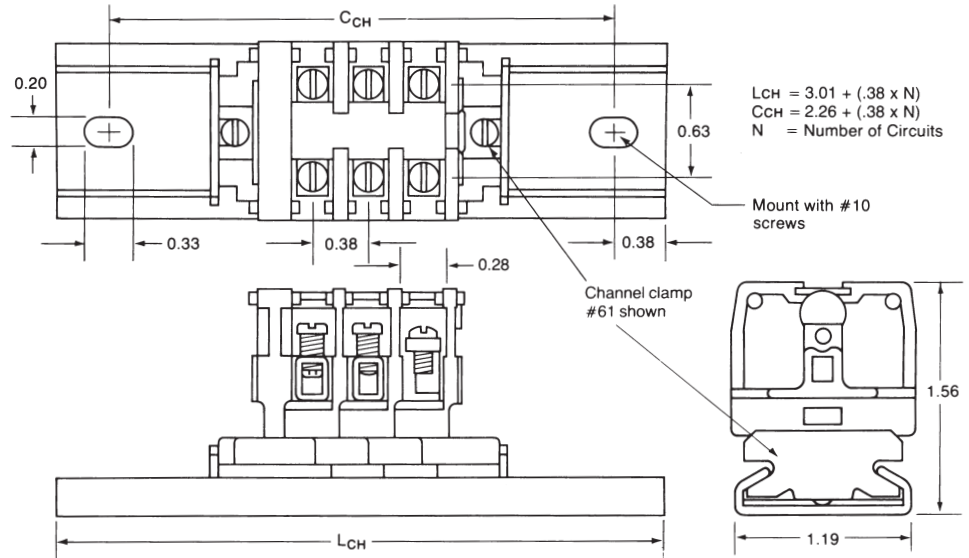
Tubular Screw

Description	Standard Package	Part No.	Catalog No.
Tubular Screw	50	1-1437382-4	74
Strap Screw	50	1-1437382-7	78-TB
Molding Only, no contact	50	4-1437393-1	74100

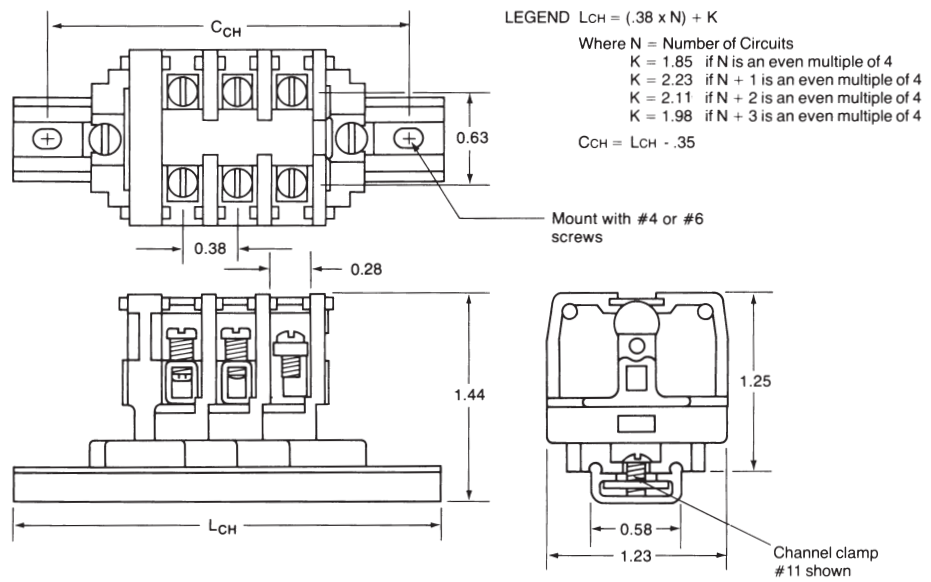
**Note:** All part numbers are RoHS Compliant.

**Medium Duty Channel Mount**

**Dovetail Base Mounted On Standard #60 Channel**

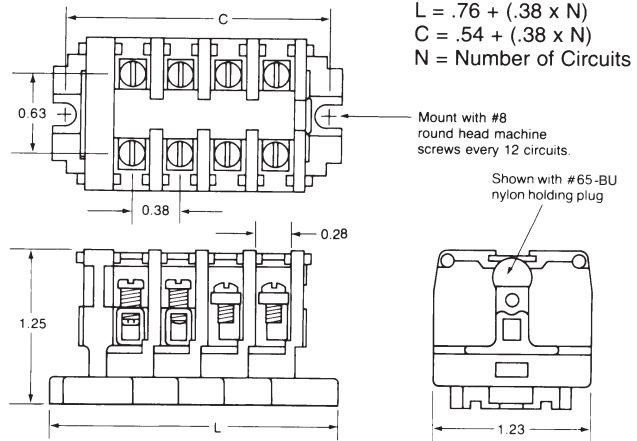
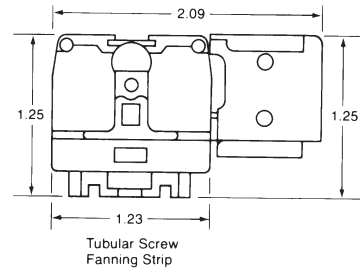
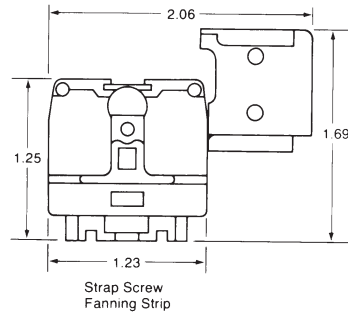


**Flat Base Mounted On Miniature #12 Channel**



**Note:** All part numbers are RoHS Compliant.

**900 Series, Flat Base**

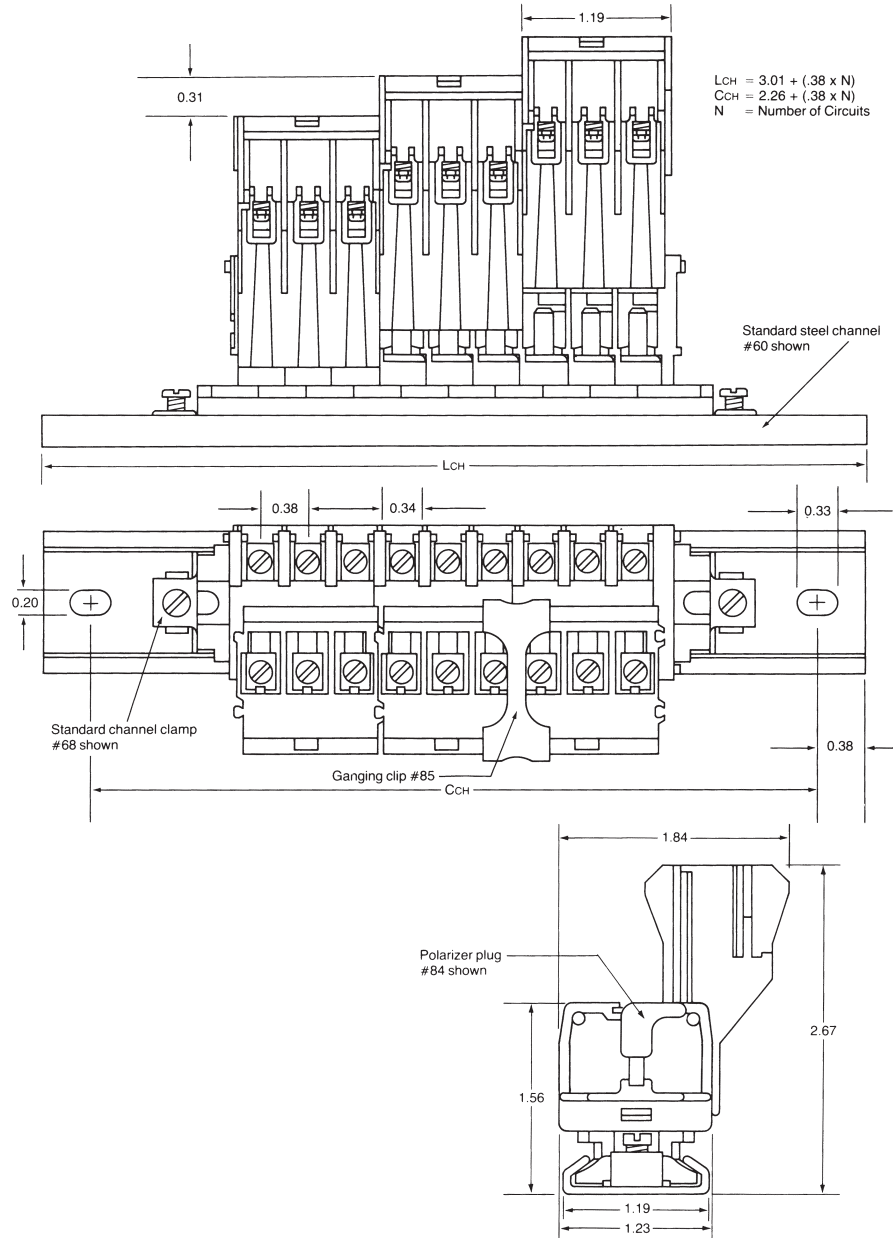




**Note:** All part numbers are RoHS Compliant.

**BP Series, Plug-in Blocks**

**Dovetail Base Mounted On Standard #60 Channel**



NEMA Terminal Blocks **6**

**Note:** All part numbers  
are RoHS Compliant.

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## Engineering Notes

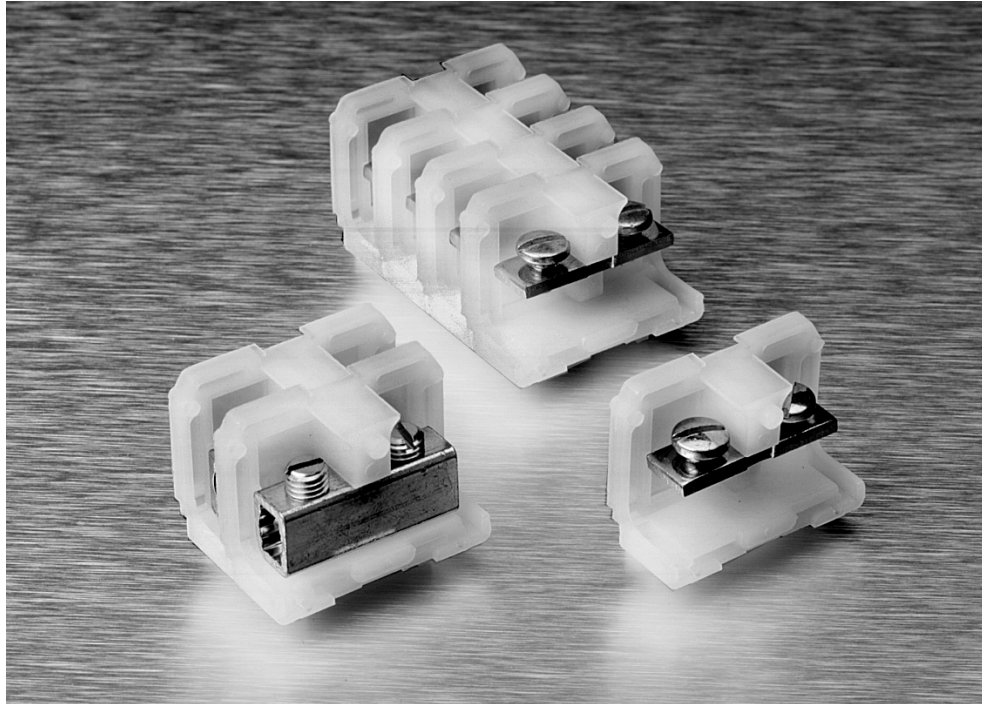
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## 200 Series Heavy Duty

### Product Facts

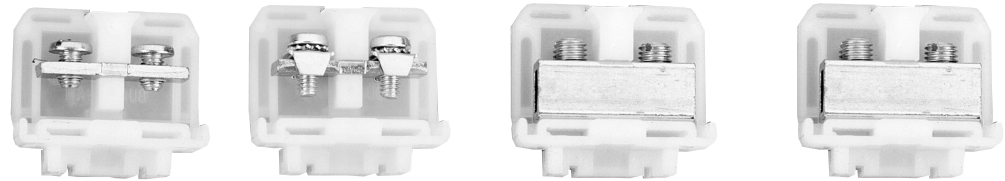
- n Choose from 5 different contact styles.
- n 600 volt UL and NEMA rating.
- n Conservatively rated from 50 to 90 amperes per circuit, depending on which contact style is selected.
- n Choose any of three mounting methods — two-way flat base models surface mount directly to the panel or snap-on miniature channel. Dovetail base models mount on standard channel.
- n Packaged for rapid handling and assembly — snap-fit sections are packed 10 per carton.
- n Only one end section needed per block assembly.
- n Readily identify circuits — mark directly on block sections or use removable marking strip. Pre-printed strips are also available.



This compact, heavy duty block line accepts single or combination wires up to #4 AWG, solid or stranded. The compact design allows at least 138 circuits per 6-foot length to be mounted. The pitch of this 600 volt block is 0.50" [12.70] (centerline spacing).

**Note:** All part numbers are RoHS Compliant.

**200 Series, Heavy Duty, 600V, 0.50" [1.27] Pitch**



**Characteristics**                      **Strap Screw**                      **Strap Clamp**                      **Tubular Screw**                      **Tubular Clamp**

Type of Block	Model	Part Number	Model	Part Number	Model	Part Number	Model	Part Number
<b>Direct Mount (Flat Base)</b>								
Nylon, Unpainted	241	3-1437390-9	248	4-1437390-2	242	4-1437390-0	243	4-1437390-1
Polypropylene	P241	6-1437390-5	P248	6-1437390-8	P242	6-1437390-6	P243	6-1437390-7
<b>Channel Mount (Dovetail Base)</b>								
Nylon, Painted	0241	1-1437390-6	0248	2-1437390-4	0242	2-1437390-0	0243	2-1437390-1
Polypropylene	P0241	5-1437390-9	P0248	6-1437390-3	P0242	6-1437390-0	P0243-BU	6-1437390-2
<b>Contact Type</b>								



**Specifications**

Wire Range (AWG) Solid & Stranded	22-10	18-8	18-4	18-6
Wire Strip Length (in.)	—	1/2	1/2	1/2
Screw Type	10-32 binding head	8-32 pan head	1/4-28 set screw	1/4-28 set screw
Ampacity	35 A	50 A	85 A	65 A

**End Sections**

Direct Mount, Nylon	250	4-1437390-3	250	4-1437390-3	250	4-1437390-3	250	4-1437390-3
Direct Mount, Polypropylene	P250	6-1437390-6	P250	6-1437390-6	P250	6-1437390-6	P250	6-1437390-6
Channel Mount, Nylon	0250	2-1437390-5	0250	2-1437390-5	0250	2-1437390-5	0250	2-1437390-5
Channel Mount, Polypropylene	P0250	6-1437390-4	P0250	6-1437390-4	P0250	6-1437390-4	P0250	6-1437390-4

**Notes:**

For factory assembled blocks, suffix Catalog Number with number of blocks desired. See page 264-266 for dimensions and other details. (Maximum number of flat base preassembled sections is 12).  
Example: Ten tubular clamp, dovetail based sections, preassembled on channel = 024310

Example: Twelve polypropylene strap clamp flat base sections = P24812

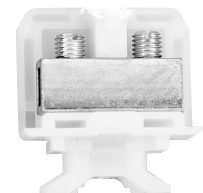
For unpainted factory assembled blocks supplied with a removable marking strip add — 1 to Catalog Number.

For blocks with two or more different contact sections, imprinted marking strips, or special features, consult Technical Support.

**Comparison (Type of Block)**



**Direct Mount  
(Flat Base)**



**Channel Mount  
(Dovetail Base)**



**Note:** All part numbers are RoHS Compliant.

**200 Series, Heavy Duty, 600V, 0.50" [1.27] Pitch** (Continued)





**Corrosion Resistant Strap Screw**



**Corrosion Resistant Tubular Screw**

Model	Part Number	Model	Part Number
D241	4-1437389-0	D242	4-1437389-1
DP241	1776721-1	DP242	1776723-1
D0241	1776722-1	D0242	1776724-1
DP0241	6-1437389-0	DP0242	1776724-2

	
22-10	18-4
—	1/2
10-32 Nickel plated binding head	1/4-28 Nickel plated set screw
35 A	85 A

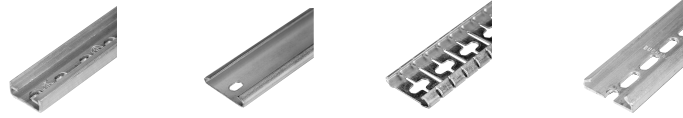
250	4-1437390-3	250	4-1437390-3
P250	6-1437390-6	P250	6-1437390-6
O250	2-1437390-5	O250	2-1437390-5
P0250	6-1437390-4	P0250	6-1437390-4



**Note:** All part numbers are RoHS Compliant.

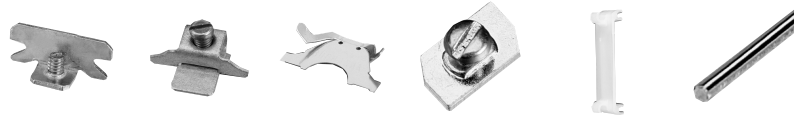
## 200 Series Heavy Duty Accessories

### Mounting Channel



Miniature		Steel Channel		Break Away Steel		Pre-punched Aluminum Channel	
Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number
1437381-8	12	9-1437381-1 9-1437381-8	60 63-BU	9-1437381-2	60-B-36	9-1437381-9 1437382-2	64 67
<b>Standard Length</b>							
3 feet		6 feet 3 feet		3 feet		6 feet 3 feet	

### Channel Clamps



Screw Channel Clamps	Universal Clamps	Snap-In Clamps	Miniature for #12 Channel	See-thru Cover	Ganging Rod
<b>Part Number</b>					
9-1437381-5	1437382-3	9-1437381-7	1437381-4	1-1437381-6	3-1437381-9
<b>Catalog Number</b>					
61	68	62	11	23-BU	30-BU
<b>Standard Length</b>					
—	—	—	—	—	2 feet

### Marking Accessories



### Jumpers



Plastic Cloth Tape	Plastic Cloth Tape	Vinyl Marking Strips	Elevated Marking Strip	Nylon Holding Plug	Jumper for Tubular Contacts	Snap-Apart for Tubular Contacts
<b>Part Number</b>						
8-1437381-1	8-1437381-0	6-1437381-3	4-1437391-1	4-1437393-0	2-1437393-4	1-1437382-5
<b>Catalog Number</b>						
56	55-BU	50-BU	52-BU	65-BU	42-BU	75
<b>Standard Length</b>						
—	50 feet	25 feet	18 inches	—	—	12 ckt

### Related Product Data

**Wire Pins and Ferrules**—Pages 109-111  
For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.



## 200 Series Heavy Duty Specifications

### Material & Finish

**Voltage Rating:** Blocks meet 600 volt creepage and clearance requirements of NEMA, UL and CSA for general industrial control equipment and panelboards. Withstand voltages greatly in excess of IEEE switchgear standards for 750 volts.

**Ampacity:** For a single #4 AWG wire the maximum amperage recommended is 85 amps.

### Standard Contacts:

**Material:** Electrical grade copper or copper alloy conductor. Steel Screws plated to resist corrosion in most industrial applications

**AL-CU Tubular Screw:** Aluminum compatibility with aluminum or copper conductors. AL-CU is tin-plated brass.

### Environmental Contacts (for highly corrosive atmospheres)

**Tubular Screw:** Electrical grade copper tube with nickel plating. Nickel plated brass screws.

**Strap Screw:** Nickel plated brass straps and screws. Nickel plating exceeds specification QQ-N-290 Class I, Type VII.

### Nylon Housing:

**Material**—Nylon; Unfilled Type 6/6

**Max. Continuous Temperature**—125°C [257°F]

### Breakdown Voltage (AC, 60 Hz)

Contact-to-Contact: 7000V

Contact-to-Ground: 7800V

**Dielectric Strength (RH 40% at Sea Level)**—470-385 Volts/mil thickness Per ASTM D149

**UL High Voltage Arc Tracking (inches/min.)**—.01-.35

**Water Absorption (24 hrs. % wt. gain)**—1.5%

**Flammability**—UL94V-2

**Chemical Resistance**—Resistant to aromatic hydrocarbons, strong alkalies Per ASTM D543

**Radiation Resistance (ergs g-1 (C))**—8 x 10<sup>7</sup>

**Color**—Translucent White

### Independent Testing Service Listing and Recognition

WIRE SIZES, Solid or Stranded

Tubular Screw

1 #4 AWG, 1 #6 AWG,

1 or 2 #8 AWG, 1 to 4 #10 AWG,

1 or 5 #12 AWG, 1 to 4 #14 AWG,

1 or 6 #16 AWG, 1 to 8 #18 AWG,

Tubular Clamp

1 #6 AWG, 1 or 2 #8 AWG,

1 to 3 #10 AWG, 1 to 4 #12 AWG,

1 or 4 #14 AWG, 1 to 6 #16 AWG,

1 or 8 #18 AWG

Strap Clamp

1 #18 to 1 #8 AWG

### Polypropylene Housing:

**Material**—Polypropylene; Filled self-extinguishing

**Max. Continuous Temperature**—105°C (221°F)

### Breakdown Voltage (AC, 60Hz)

Contact-to-Ground: 7800V

Contact-to-Contact: 7000V

**Dielectric Strength (RH 40% at Sea Level)**—500 Volts/mil thickness Per ASTM D149

**UL High Voltage Arc Tracking (inches/min.)**—Did not Track

**Water Absorption (24 hrs. % wt. gain)**—0.02% Per ASTM D570

**Flammability**—UL94V-0

**Chemical Resistance**—Resistant to most acids, alkalines, and saline solutions. Also resistant to higher aliphatic solvents and polar substances per ASTM D543

**Radiation Resistance (ergs g-1 (C))**—No data Available

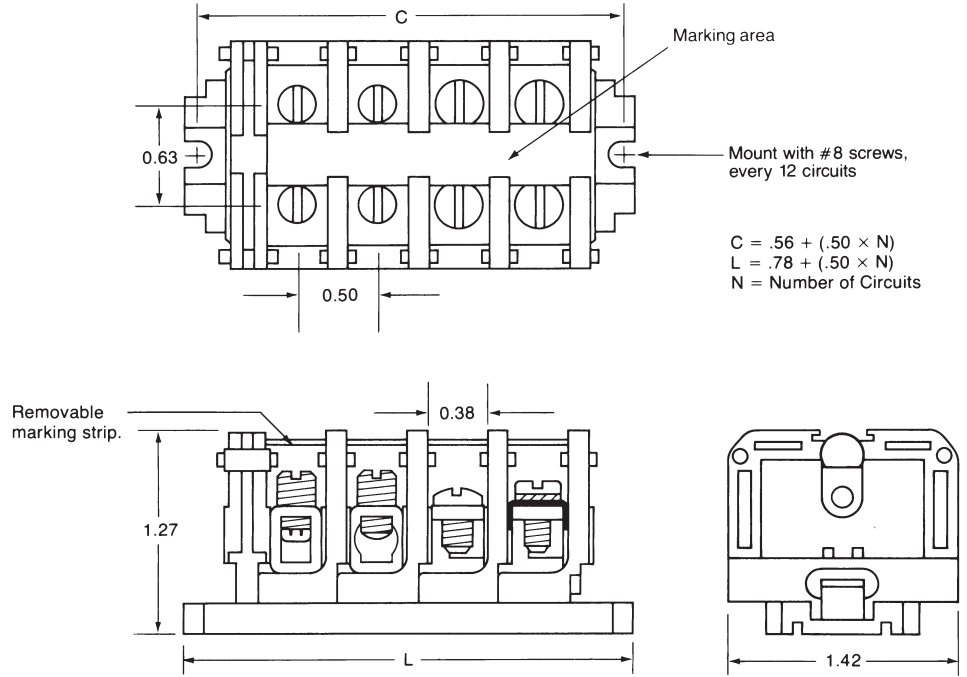
**Color**—Opaque White



**Note:** All part numbers are RoHS Compliant.

**200 Series, 600 Volt, Direct Mount**

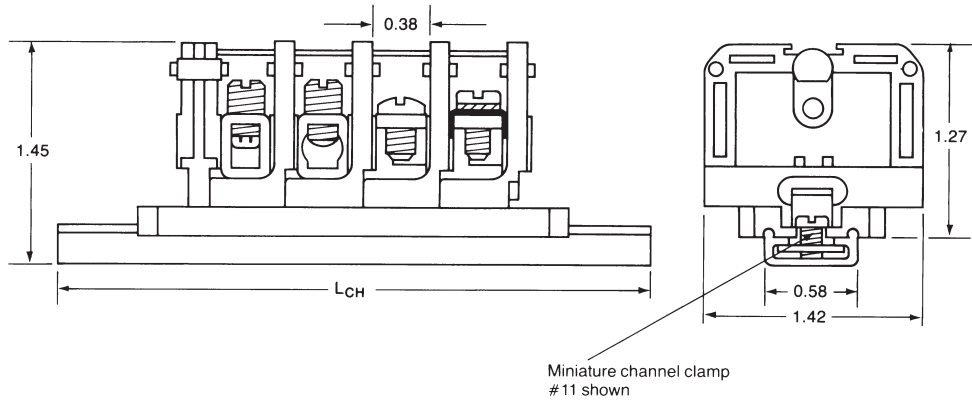
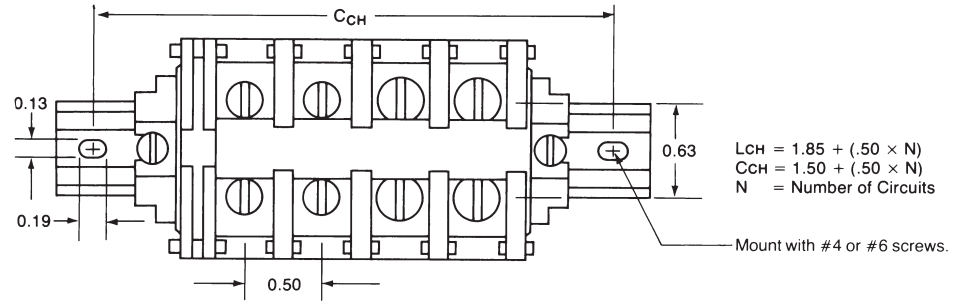
**Flat Base**



**Note:** All part numbers are RoHS Compliant.

**200 Series, 600 Volt, Channel Mount**

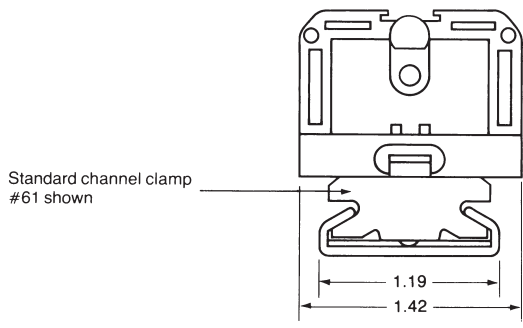
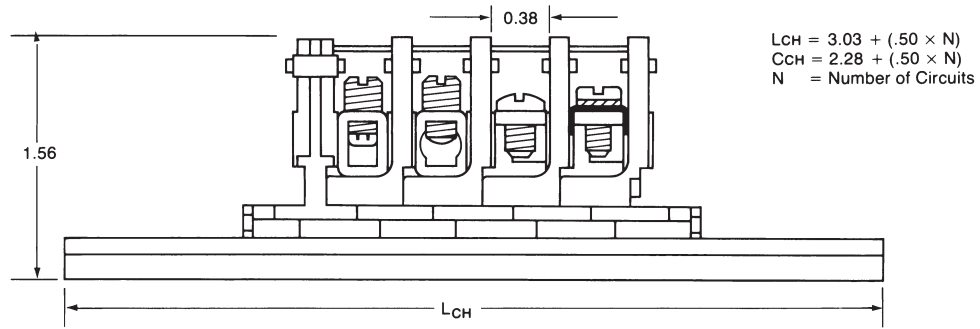
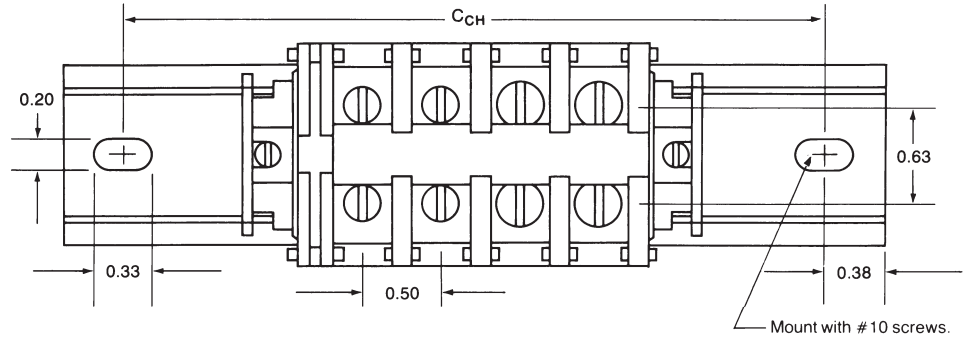
**Flat Base Mounted On #12 Miniature Channel**



**Note:** All part numbers are RoHS Compliant.

**200 Series, 600 Volt, Channel Mount (Standard)**

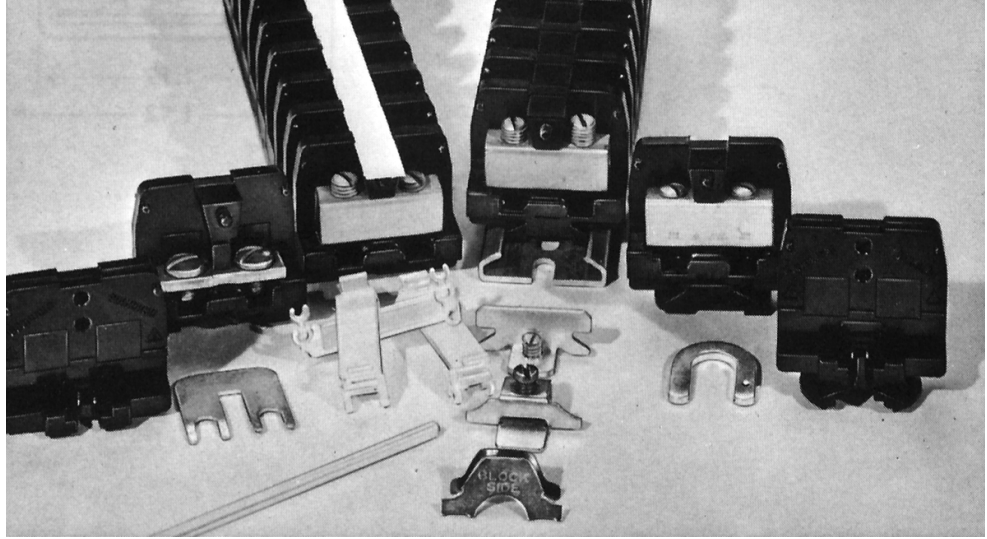
**Dovetail Base Mounted On Standard #60 Channel**



## 200 Series, Heavy Duty Phenolic Blocks

### Product Facts

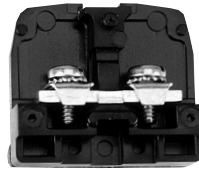
- n **Sturdy Heavy Duty block accepts single or combinations of wire up to #4 AWG solid or stranded — at least 122 circuits per 6-foot length, 9/16" center-to-center spacing.**
- n **Choose from four different contact styles conservatively rated up to 90 amperes.**
- n **600 volt UL and NEMA rating.**
- n **Surface mounted flat base and channel mounted dovetail base models available.**
- n **Only one end section needed per block assembly.**
- n **Interlocking sectional fanning strips allow entire circuit groups to be connected and disconnected as a single unit.**
- n **Readily identify circuits — available with painted marking surface or use removable marking strip. Pre-printed strips are also available.**
- n **Factory assembled blocks available.**
- n **Heavy Duty Phenolic Block Sections Snap-fit with 300 & 600 volt, medium duty phenolic, heavy duty nylon and polypropylene, and Fuse and Switch blocks.**



This family of phenolic heavy duty blocks is ideal for high temperature, high current applications. The rugged material withstands temperatures up to 302°F [150°C].

**Note:** All part numbers are RoHS Compliant.

**200 Series, Heavy Duty Phenolic, 600 V, 0.56" [14.24] Pitch**



**Characteristics**

**Strap Screw**

**Strap Clamp**

**Tubular Screw**

**Tubular Clamp**

Type of Block	Model	Part Number	Model	Part Number	Model	Part Number	Model	Part Number
<b>Direct Mount (Flat Base)</b>								
Painted	221	3-1437390-1	228-BU	1-1437381-5	222-BU	3-1437390-3	223-BU	3-1437390-6
Unpainted	211	2-1437390-7	218	3-1437390-0	212	2-1437390-8	213	2-1437390-9
<b>Channel Mount (Dovetail Base)</b>								
Painted	0221	1437390-8	0228	1-1437390-3	0222	1437390-9	0223	1-1437390-2
Unpainted	0211	1437390-1	0218	1437390-7	0212	1437390-3	0213	1437390-5
<b>Contact Type</b>								



**Specifications**

Wire Range (AWG) Solid & Stranded	22-10	18-8	18-4	18-6
Wire Strip Length (in.)	—	1/2	1/2	1/2
Screw Type	10-32 binding head	8-32 pan head w/clamp	1/4-28 set screw	1/4-28 set screw
Ampacity	35 A	50 A	85 A	65 A
<b>End Sections</b>				
Direct Mount	230-BU 1-1437381-7	230-BU 1-1437381-7	230-BU 1-1437381-7	230-BU 1-1437381-7
Channel Mount	0230 1-1437390-4	0230 1-1437390-4	0230 1-1437390-4	0230 1-1437390-4

**Notes:**

For factory assembled blocks, suffix Catalog Number with number of blocks desired. See page 272 for dimensions and other details. (Maximum number of flat base preassembled sections is 12).

Example: Twenty dovetail based, tubular clamp blocks, preassembled on channel = 021320 (plain marking area)

Example: Twelve preassembled flat base, strap screw blocks = 22112 (painted marking area)

For factory assembled blocks supplied with a removable marking strip add — 1 to Catalog Number.

For blocks with two or more different contact sections, imprinted marking strips, or special features, consult Technical Support.

Environmental contacts for highly corrosive atmospheres are available with nickel plating on non-ferrous hardware. To order, prefix Catalog # with "D".

**Comparison (Type of Block)**



**Direct Mount (Flat Base)**

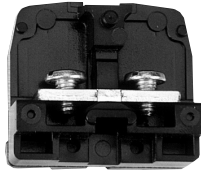


**Channel Mount (Dovetail Base)**



**Note:** All part numbers are RoHS Compliant.

**200 Series, Heavy Duty Phenolic, 600 V, 0.56" [14.24] Pitch** (Continued)



**Corrosion Resistant Strap Screw**



**Corrosion Resistant Tubular Screw**



**Corrosion Resistant Tubular Clamp**

Model	Part Number	Model	Part Number	Model	Part Number
D221	3-1437389-6	D222	3-1437389-8	D223	3-1437389-9
D211	3-1437389-4	D212	3-1437389-5	D213	4-1437390-6
D0221	1437389-7	D0222	1437389-8	D0223	1437389-9
D0211	1437389-2	D0212	1437389-4	D0213	1437389-6

**Contact Type**



**Specifications**

22-10	18-4	22-10
—	1/2	1/2
10-32 Nickel plated binding head	1/4-28 Nickel plated set screw	1/4-28 Nickel plated set screw
35 A	85 A	65 A
230-BU 1-1437381-7	230-BU 1-1437381-7	230-BU 1-1437381-7
0230 1-1437390-4	0230 1-1437390-4	0230 1-1437390-4

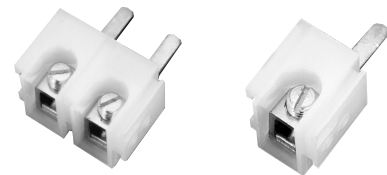
**Sectional Fanning Strips**

Description	Part No.	Catalog No.
Tubular Screw	1-1437381-8	24
Strap Screw	1-1437381-9	27
Molding Only, no contact	1447889-1	2400

**Note:**

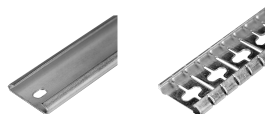
For factory assembled fanning strips, suffix Catalog Number with number desired.

Example: Ten factory assembled sections of #24 = 2410



## 200 Series, Heavy Duty Phenolic Accessories

### Mounting Channel



### Channel Clamps



Steel Channel	Break Away Steel	Pre-punched Aluminum Channel	Screw Channel Clamps	Universal Clamps	Snap-In Clamps	See-thru Cover	Ganging Rod
<b>Part Number</b>							
9-1437381-1 9-1437381-8	9-1437381-2	9-1437381-9 1437382-2	9-1437381-5	1437382-3	9-1437381-7	1-1437382-2	3-1437381-9
<b>Catalog Number</b>							
60 63-BU	60-B-36	64 67	61	68	62	23-BU	30-BU
<b>Standard Length</b>							
6 feet 3 feet	3 feet	6 feet 3 feet	—	—	—	—	2 feet

### Marking Accessories



### Jumpers



Plastic Cloth Tape	Plastic Cloth Tape	Vinyl Marking Strips	Elevated Marking Strip	Nylon Holding Plug	Jumper for Tubular Contacts	Jumper for Strap Screw
<b>Part Number</b>						
8-1437381-1	8-1437381-0	6-1437381-3	4-1437391-1	4-1437393-0	2-1437393-3	5-1437381-5
<b>Catalog Number</b>						
56	55-BU	50-BU	52-BU	65-BU	41-BU	43
<b>Standard Length</b>						
10 sheets	50 feet	25 feet	18 inches	—	—	—

### Related Product Data

**Wire Pins and Ferrules**—Pages 109-111  
 For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.



**Note:** All part numbers are RoHS Compliant.

## 200 Series, Heavy Duty Phenolic Specifications

### Material & Finish

#### Standard Contacts

**Material:** Electrical grade copper or copper alloy conductor. Steel Screws plated to resist corrosion in most industrial applications.

#### Environmental Contacts (for highly corrosive atmospheres)

**Tubular Screw:** - Electrical grade copper tube with nickel plating.

Nickel plated brass screws.

**Strap Screw:** - Nickel plated brass straps and screws

Nickel plating exceeds specification QQ-N-290 Class I, Type VII.

**Wire Range:** Strap Screw: #22-10 AWG max., solid or stranded with crimp terminals

**Strap Clamp:** #18-8 AWG, solid or stranded

**Tubular Screw:** #18-4 AWG, solid or stranded

**Tubular Clamp:** #18-6 AWG, solid or stranded

**Wire Strip Length:** Strap Screw: As needed for lugging

**Strap Clamp:** 1/2 in. [12.7]

**Tubular Screw:** 1/2 in. [12.7]

**Tubular Clamp:** 1/2 in. [12.7]

**Screw Type:** Strap Screw: 10-32 slotted binding head

**Strap Clamp:** 8-32 pan head w/ clamp

**Tubular Screw:** 1/4-28 slotted headless

**Tubular Clamp:** 1/4-28 slotted headless

**Strap Screw:** Maximum width of lugs: 11/32 in. [8.73]

### Independent Testing Service Listing and Recognition

WIRE SIZES, Solid or Stranded Tubular Screw

Tubular Screw

1 #4 AWG, 1 #6 AWG,

1 or 2 #8 AWG, 1 to 4 #10 AWG,

1 or 5 #12 AWG, 1 to 6 #14 AWG,

1 or 6 #16 AWG, 1 to 8 #18 AWG,

Tubular Clamp

1 #6 AWG, 1 or 2 #8 AWG,

1 to 3 #10 AWG, 1 to 4 #12 AWG,

1 or 4 #14 AWG, 1 to 6 #16 AWG,

1 or 8 #18 AWG

Strap Clamp

1 #18 to 1 #8 AWG

### Nylon Housing

**Material**—Phenolic, Filled Flame Retardant

**Max. Continuous Temperature**—150°C, [302°F]

**Breakdown Voltage**—

Contact-to-Contact: 7800V

Contact-to-Ground: 9400V

**Dielectric Strength (RH 40% at Sea Level)**—300 Volts/mil thickness per ASTM #D149

**UL High Voltage Arc Tracking (Inches/min.)**—.49-.58 [12.45-14.73]

**Water Absorption (24 hrs. % wt. gain)**—0.45% per ASTM D570

**Flammability**—UL94V-1

**Chemical Resistance**—Resistant to acids, alkalis, and aliphatic hydrocarbons and ketones, per ASTM D543.

**Radiation Resistance (ergs g-1 (C))**—2.7 x 108 min.

**Color**—Black



LR25557

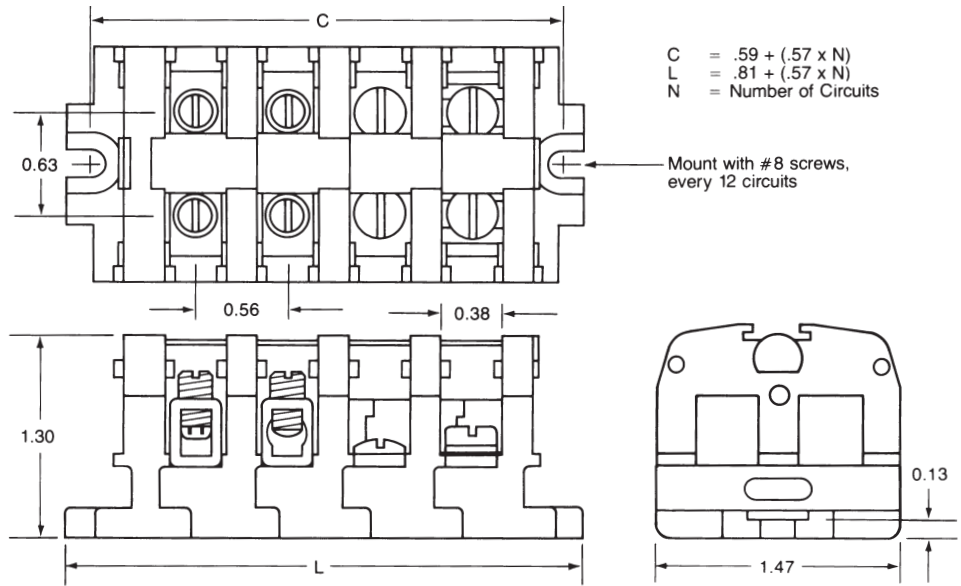


E63810

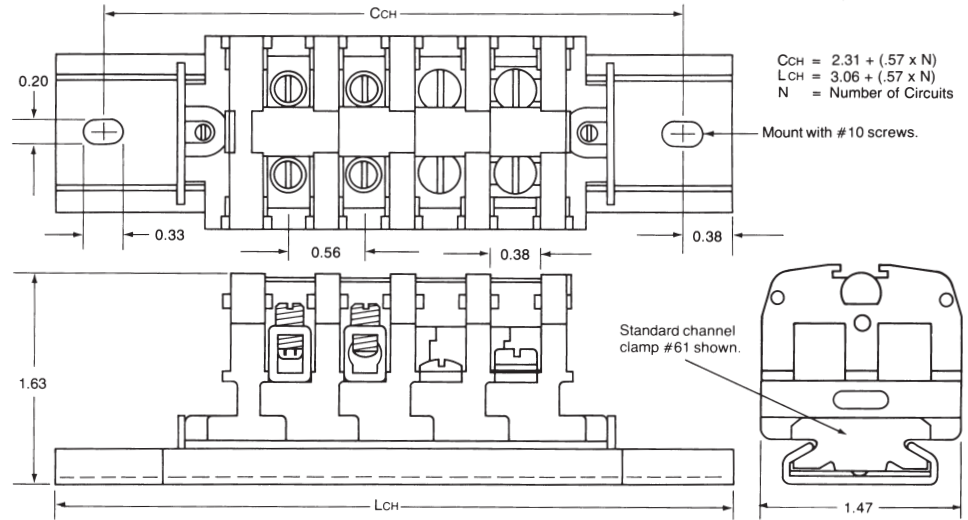
**Note:** All part numbers are RoHS Compliant.

**200 Series, Heavy Duty Phenolic**

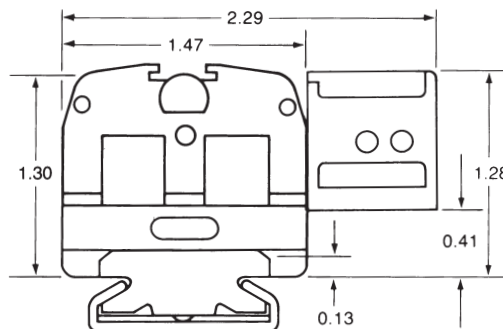
**Flat Base**



**Dovetail Base Mounted On Standard #60 Channel**



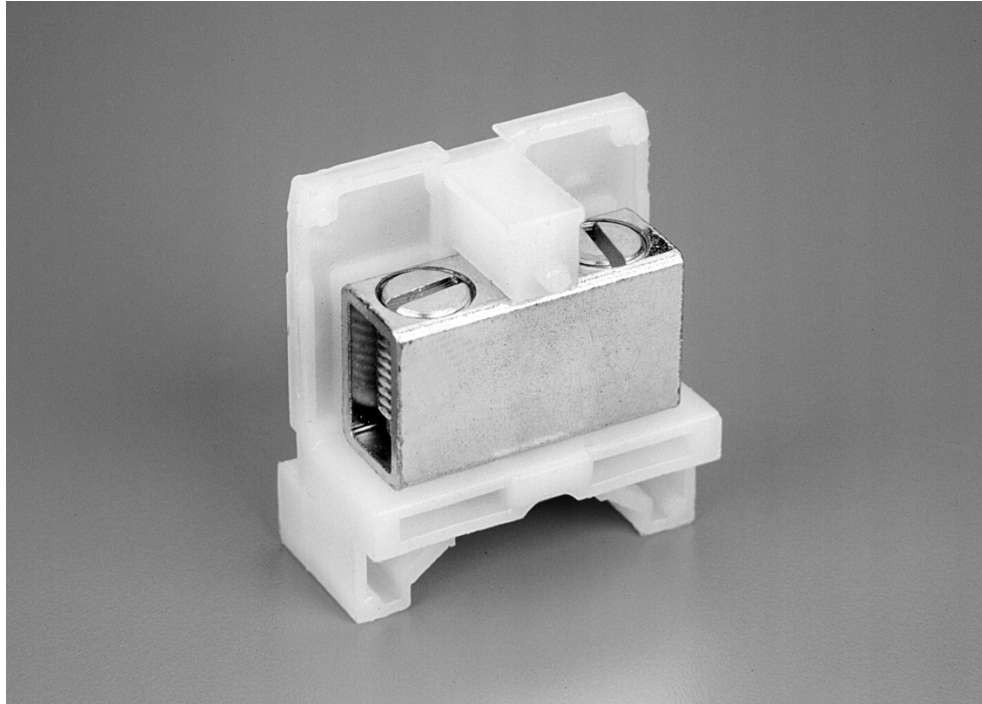
**Sectional Fanning Strips**



## 800 Series, Intermediate Heavy Duty

### Product Facts

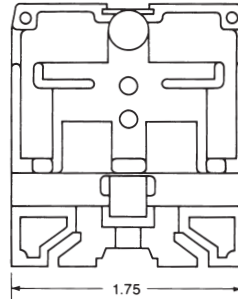
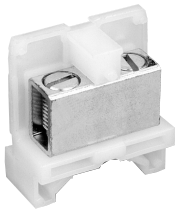
- n An exceptionally compact block that accepts single or combinations of AWG wire sizes as large as #1/0 — at least 92 circuits per 6-foot length, 3/4 inch center-to-center spacing.
- n Tubular screw contact style accepts AWG wire sizes from #12 thru #1/0, solid or stranded.
- n Same block mounts on surface or channel — two-way mounting base fits standard channel or mounts directly to flat surfaces.
- n Packaged for rapid handling and assembly — snap-fit sections packaged 10 per carton.
- n Contacts conservatively rated at 155 amperes per circuit when used with copper wire.
- n Only one end section needed per block assembly.
- n Readily identify circuits — blocks available with painted marking surface or use removable vinyl marking strip. Preprinted marking strips are also available.
- n Factory assembled blocks available.
- n Nylon housing material for the most rugged applications.
- n Allen head screw for aluminum wire — screw tip design helps protect aluminum wire from overtightening. Slotted screw head for copper wire.
- n Intermediate Heavy Duty blocks snap-fit with 300 & 600V, Medium Duty phenolic, Heavy Duty nylon, polypropylene and phenolic and Fuse and Switch blocks.



This line of 600 volt blocks is rated up to 150 A and is available in a standard version and a corrosion resistant version.

**Note:** All part numbers are RoHS Compliant.

## 800 Series, Intermediate Heavy Duty, 600 V, 0.75" Pitch



Same part used for both panel and channel mounting.

**Material & Finish**

**Housing Material**—Polyamide type 6/6, unfilled

**Max Continuous Temp.**—125°C [257°F]

**Water Absorption (24hrs. % wt. gain)**—1.5%

**Flammability**—UL94V-2

**Chemical Resistance**—Resistant to aromatic hydrocarbons, strong alkalis

**Radiation Resistance (ergs g-1 (C))**—8 x 10<sup>7</sup>

**Color**—Translucent white

**Electrical Properties**

**Voltage Rating**—Blocks meet 600V clearance and creepage requirements of NEMA, UL, and CSA standards for general industrial control equipment and panelboards. Withstand voltages in excess of IEEE switchgear standards for 750V.

**Breakdown Voltage, AC, 60Hz**—  
Contact-to-Contact: 8,800V  
Contact-to-Ground: 9000V

**Dielectric Strength — RH 40% @ Sea Level**—470-385 Volts/mil thickness per ASTM D149

**Operating Voltage**—Blocks meet 600V creepage and clearance requirements; withstand voltage greatly exceeds standards for 750V

**UL High Voltage Arc Tracking (in./min.)**—0.1-.35 [0.25-8.89]

**Contacts**

**Standard Contacts**

**Material**—Electrical grade copper conductor

**Screws**—Steel, zinc plated to resist corrosion in most applications

**Duramax Contacts (for highly corrosive atmospheres)**

**Tubular Screw**—Electrical grade copper tube with nickel plating; nickel plated brass screws. Nickel plating exceeds specification QQ-N-290 Class 1, Type VII.

**Wire Range**—#12-1/0 AWG, solid or stranded

**Wire Strip Length**—11/16" [17.46]

**Screw Type**—7/16" [11.11] - 20 slotted headless screw

**Independent Testing Service Listing and Recognition**

**UL Wire Sizes**—Solid or Stranded, Tubular Screw

- 1 — #1/0 AWG, 1 — #1 AWG
- 1 — #2 AWG, 1 or 2 — #4 AWG
- 1, 2 or 3 — #6 AWG,
- 1, 2, 3 or 5 — #8 AWG
- 1 to 6 — #10 AWG, 1 to 7 — #12 AWG

Description	Part No.	Catalog No.
Tubular Screw, Unpainted	1437395-2	814
Tubular Screw, Painted	1437395-3	824-BU
Corrosion Resistant, Unpainted	5-1437389-8	D814-BU
Corrosion Resistant, Painted	5-1437389-9	D824
End Section	1-1437395-4	830-BU

**Notes:**

For factory assembled blocks on channel, prefix Catalog # with "0" and suffix with number of blocks desired. Without channel (maximum of 6 sections) delete "0". See page 275 for dimensions and other details.

Example: Ten tubular screw sections preassembled on channel = 082410

For unpainted factory assembled blocks supplied with a removable marking strip add -1 to Catalog Number.

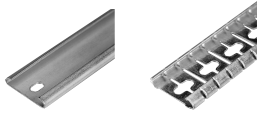
For blocks with two or more different contact sections, imprinted marking strips or special features; consult Technical Support.



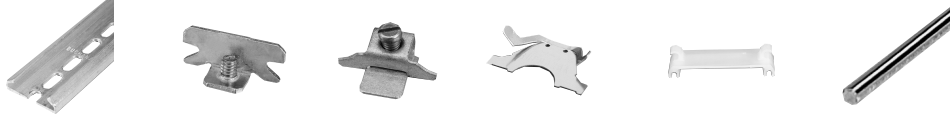
**Note:** All part numbers are RoHS Compliant.

## 800 Series, Intermediate Heavy Duty Accessories

### Mounting Channel

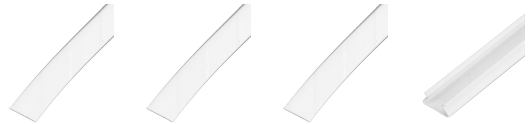


### Channel Clamps



Steel Channel	Break Away Steel	Pre-punched Aluminum Channel	Screw Channel Clamps	Universal Clamps	Snap-In Clamps	See-thru Cover	Ganging Rod
<b>Part Number</b>							
9-1437381-1 9-1437381-8	9-1437381-2	9-1437381-9 1437382-2	9-1437381-5	1437382-3	9-1437381-7	4-1437390-4	3-1437381-9
<b>Catalog Number</b>							
60 63-BU	60-B-36	64 67	61	68	62	93-BU	30-BU
<b>Standard Length</b>							
6 feet 3 feet	3 feet	6 feet 3 feet	—	—	—	—	2 feet

### Marking Accessories



### Jumpers



Plastic Cloth Tape	Plastic Cloth Tape	Vinyl Marking Strips	Elevated Marking Strip	Holding Screw	Snap-apart Jumper
<b>Part Number</b>					
1437382-1	8-1437381-0	6-1437381-3	4-1437391-1	7-1437381-8	1-1437382-6
<b>Catalog Number</b>					
66	55-BU	50-BU	52	53-BU	76
<b>Standard Length</b>					
—	50 feet	25 feet	18 inches	—	12 ckt

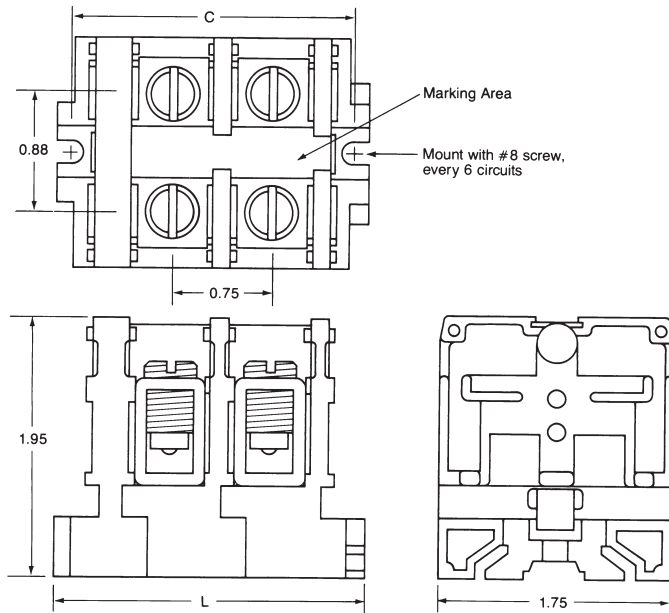
### RELATED PRODUCT DATA

**WIRE PINS AND FERRULES:** Pages 109-111  
 For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.

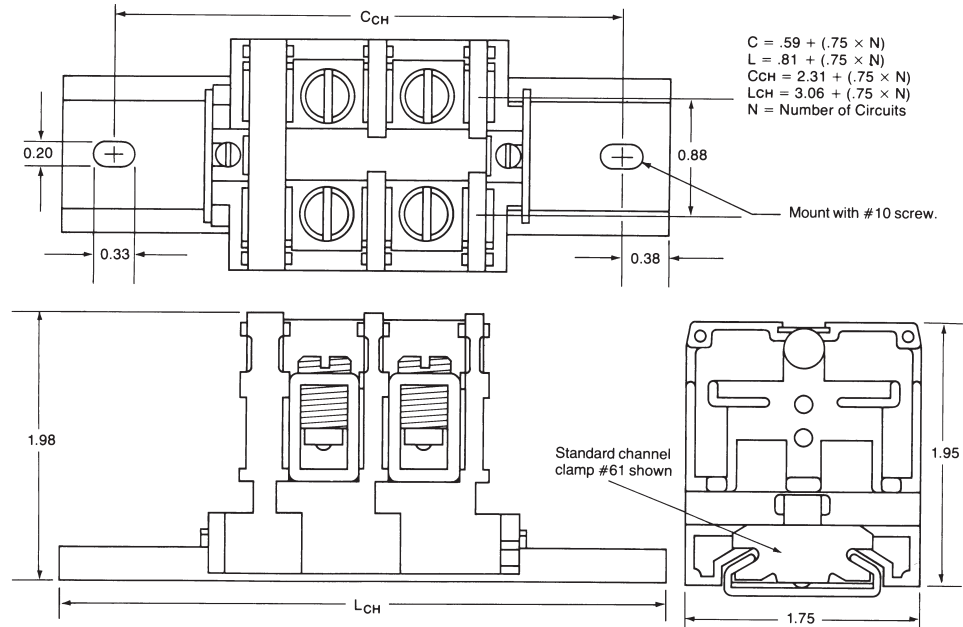
**Note:** All part numbers are RoHS Compliant.

**800 Series, Intermediate Heavy Duty**

**Flat Base**



**Dovetail Base Mounted On Standard #60 Channel**





## 400 Series, Ultra Heavy Duty

### Product Facts

#### 400 Series

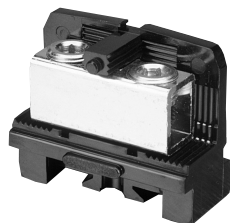
- Compact 2/0 or 250 kcmil (MCM) block - at least 57 circuits per 6-foot length, 1-3/16" [30.16] center-to-center spacing.
- High current capacity snap-fit sectional block — tubular contacts accept single or combinations of wire sizes as large as 250 kcmil (MCM).
- Two contact styles available; rated up to 270 amperes for copper wire.
- Allen head screws allow maximum torque when using large wire sizes.
- Withstand voltages in excess of IEEE switchgear standards for 750 volts. Meet clearance and creepage spacing specified in UL, CSA, and NEMA Industrial Control Standards for 600 volts.
- Same block directly mounts on surface or channel mounts.
- Only one end section needed per block assembly.
- Readily identify circuits—order blocks with painted marking area or use removable vinyl marking strip. Preprinted marking strips are also available.
- Factory assembled blocks available.
- Ultra Heavy Duty phenolic block sections do not snap-fit with other block styles.



This Ultra Heavy Duty line includes the 400 Series rated up to 270 A.



**400 Series, Ultra Heavy Duty, 600 V, 1.19" [30.23] Pitch**



**Material & Finish**

**Housing Material**—Phenolic, filled flame retardant

**Flammability**—UL94V-1

**Color**—Black

**Contacts:**

**Material**—Electrical grade copper conductor; plated steel screws resist corrosion

**Tubular Screw Type**—

- Small: 1/2" [12.7] - 13 Hex
- Large: 3/4" [19.05] - 16 Hex socket set screw

**Mechanical Properties**

**Pitch (terminal spacing)**—1.19" [30.23]; 9 circuits/foot

**Wire Strip Length**—  
Tubular Screw (small): 1" [25.4]  
Tubular Screw (large): 1" [25.4]

**Electrical Properties**

**Maximum Current**—255A for a single 250MCM wire

**Operating Voltage**—Blocks meet 600V creepage and clearance requirements; withstand voltage greatly exceeds standards for 750V

**Wire Range**—Tubular Screw (small): #4-#2/0 AWG solid or stranded; Tubular Screw (large): #6 AWG-250 kcmil (MCM) solid or stranded

**Dielectric Strength (RH 40% @ sea level)**—300 V/mil thickness per ASTM D149

**Breakdown Voltage, AC, 60Hz**—  
Contact-to-Contact: 10,000V  
Contact-to-Ground: 10,000V

**UL High Voltage Arc Tracking (in./min.)**—49-.58 [12.45-14.73]

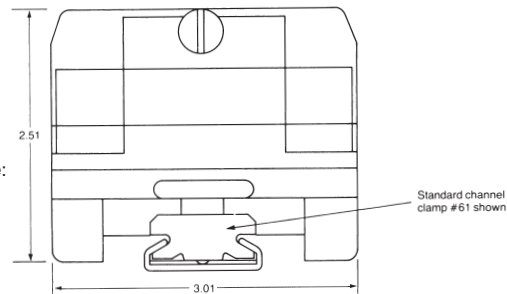
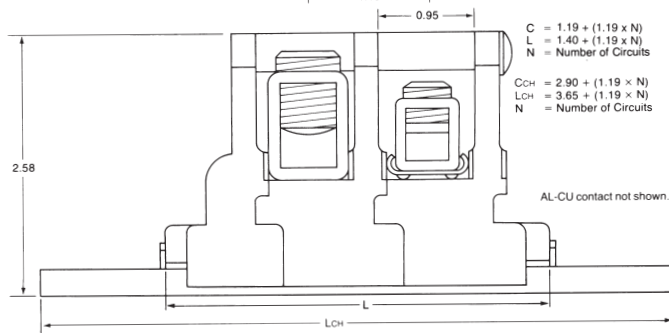
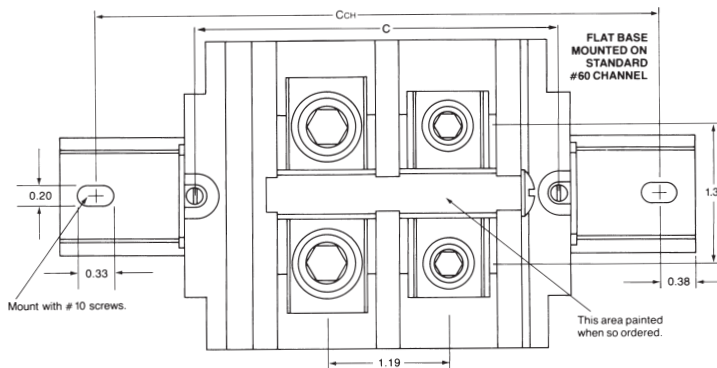
**Environmental Properties**

**Max. Continuous Temperature**—150°C [302°F]

**Water Absorption (24hrs. % wt. gain)**—.45% per ASTM D149

**Chemical Resistance**—Resistant to acids, alkalis, and aliphatic hydrocarbons and ketones per ASTM D543

**Radiation Resistance (ergs g-1 (C))**—2.7 x 108



**Note:** For Direct Mounting, use #10 pan head screws every six circuits. recommended torque: 15-20 in.-lbs.

**Same part used for both panel and channel mounting.**

Description	Wire Range	Part Number	Catalog Number
Tubular Screw, Unpainted	#14-2/0	1437396-4	416
Tubular Screw, Painted	#14-2/0	1437396-7	426-BU
Tubular Screw, Unpainted	#6-250 kcmil/MCM	1437396-5	417
Tubular Screw, Painted	#6-250 kcmil/MCM	1437396-8	427-BU
End Section	—	1437396-9	430-BU

**UL Independent Testing Service Recognitions:**

**Tubular Screw:** Catalog # 416 & 426-BU

- 1 #2/0 AWG, 1 #1/0 AWG, 1 #1 AWG,
- 1 or 2 #2 AWG, 1 to 3 #4 AWG, 1 to 3 #6 AWG,
- 1 to 4 #8 AWG, 1 to 6 #10 AWG, 2 to 8 #12 AWG,

**Tubular Screw:** Catalog # 417 & 427-BU

- 1 #250kcmil (MCM), 1 #4/0 AWG, 1 #3/0 AWG,
- 1 or 2 #2/0 AWG, 1 or 2 #1/0 AWG, 1 or 2 #1 AWG, 1 to 3 #2 AWG, 1 to 4 #4 AWG,
- 1 to 5 #6 AWG



**Note:** All part numbers are RoHS Compliant.

## 400 Series, Ultra Heavy Duty Accessories

### Mounting Channel

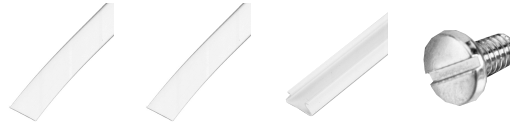


### Channel Clamps



Steel Channel	Break Away Steel	Pre-punched Aluminum Channel	Screw Channel Clamps	Universal Clamps	Snap-In Clamps
<b>Part Number</b>					
9-1437381-1 9-1437381-8	9-1437381-2	9-1437381-9 1437382-2	9-1437381-5	1437382-3	9-1437381-7
<b>Catalog Number</b>					
60 63-BU	60-B-36	64 67	61	68	62
<b>Standard Length</b>					
6 feet 3 feet	3 feet	6 feet 3 feet	—	—	—

### Marking Accessories



Plastic Cloth Tape	Vinyl Marking Strips	Elevated Marking Strip	Holding Screw
<b>Part Number</b>			
8-1437381-0	6-1437381-3	4-1437391-1	7-1437381-8
<b>Catalog Number</b>			
55-BU	50-BU	52-BU	53-BU
<b>Standard Length</b>			
50 feet	25 feet	18 inches	—

**Notes:**

For factory assembled blocks on channel, prefix Catalog # with "0" and suffix with number of blocks desired. Without channel (maximum of 6 sections) delete "0".

Example: Ten tubular screw sections preassembled on channel = 041710

For unpainted factory assembled blocks supplied with a removable marking strip add -1 to Catalog Number.

For blocks with two or more different contact sections, imprinted marking strips or special features, consult Technical Support.

### Related Product Data

**Wire Pins and Ferrules**—Pages 109-111  
For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.

**Note:** All part numbers  
are RoHS Compliant.

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## Engineering Notes

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## Fuse & Switch

### Product Facts

#### High Density Blocks

- n Fuse and Switch Blocks rated 15A and 300V.
- n High Density 0.36" [9.14] centerline spacing saves panel space; at least 33 circuits per foot.

#### Fuse Blocks

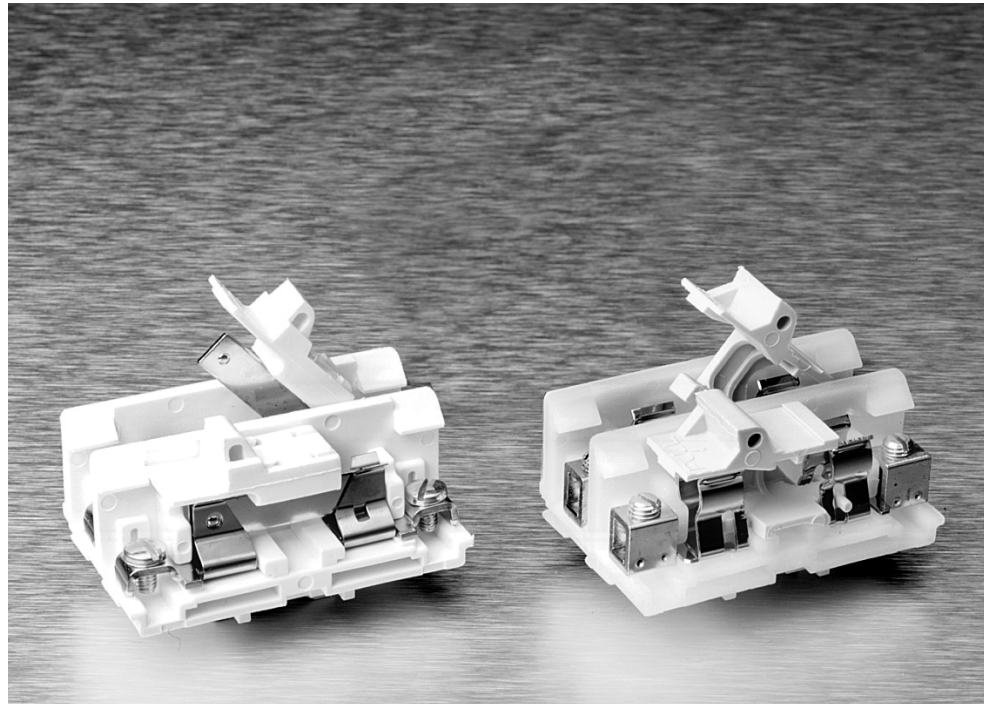
- n Provide in-line circuit protection for virtually any circuit or group of circuits — select contacts for terminated or unterminated wire.
- n Remove, check and replace fuses safely and quickly — switch action fuse blocks open circuits before fuse can be removed or installed.
- n Contacts conservatively rated to 30 amperes.

#### Switch Blocks

- n Quickly and easily interrupt a circuit or group of circuits — insert switch blocks directly in line. Contacts available for terminated or unterminated wire.
- n Keep circuits open for extended periods — switch blade can be removed entirely from block for lock-out protection.
- n Rated to 15 amperes.

#### Common Features of 300 & 0300 Series

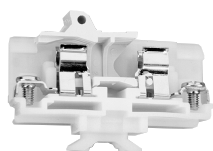
- n At least 91 circuits per 6-foot length, 3/4 inch center-to-center spacing.
- n Blocks meet 600 volt clearance and creepage spacings specified in UL, CSA, and NEMA Industrial Control Standards.
- n Choose nylon housing material — for more rugged applications; polypropylene for fire retardant characteristics.
- n Dovetail base fits standard mounting channel — can also be mounted on flat surfaces.
- n Only one end section needed per block assembly.



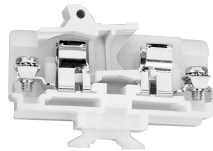
- n Readily identify circuits — mark directly on white, matte-surface puller assembly, marking tab on block, or use removable marking tape.
- n Open or close several circuits simultaneously — holes in puller handles allow use of nylon “ganging” rods.
- n Fuse and Switch block sections snap-fit with 300 & 600 Volt, phenolic Medium Duty, Heavy Duty, and Intermediate Heavy Duty blocks.

This broad line features High Density Blocks (Series 0135), Nylon & Polypropylene Blocks (Series 0300) and Phenolic Blocks (Series 300).

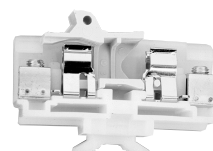
## 0300 Series, Fuse & Switch, Nylon and Polypropylene



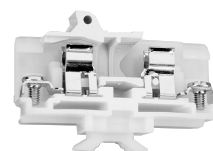
**Fuse Block  
Strap Screw**



**Fuse Block  
Strap Clamp**



**Fuse Block  
Tubular Screw**



**Switch Block  
Strap Screw**

**Characteristics**

Type of Block	Model	Part Number	Model	Part Number	Model	Part Number	Model	Part Number
<b>Channel Mount (Dovetail Base)</b>								
Nylon	0311	1437397-1	0318	1437397-3	0312	1437397-2	0371	1-1437397-7
Polypropylene	P0311	4-1437397-0	P0318	4-1437397-3	P0312	4-1437397-2	P0371	4-1437397-4
Corrosion Resistant Nylon	D0311	1-1437389-1	D0318	1776726-1	D0312	1-1437389-2	D0371	1-1437389-7
Corrosion Resistant Polypropylene	DP0311	6-1437389-2	DP0318	1776727-1	DP0312	6-1437389-3	DP0371	1776728-1

**Contact Type**

**Specifications**

Wire Range (AWG) Solid & Stranded	22-8	18-8	18-8	22-8
Wire Strip Length (in.)	—	1/2	1/2	—
Screw Type	10-32 binding head	8-32 pan head w/clamp	1/4"-28 set screw	10-32 binding head

**Ampacity**

25 A	25 A	25 A	15 A
------	------	------	------

**End Sections**

Channel Mount, Nylon	0380	2-1437397-0	0380	2-1437397-0	0380	2-1437397-0	0380	2-1437397-0
Channel Mount, Polypropylene	P0380	4-1437397-7	P0380	4-1437397-7	P0380	4-1437397-7	P0380	4-1437397-7

**Notes:** Standard package is 100 pieces for contact, 25 pieces for end section.

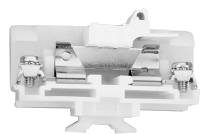
For factory assembled blocks on channel, suffix Catalog Number with number of blocks desired. Without channel delete "0" prefix on Catalog Number.

EXAMPLE:

Ten strap-screw fuse block sections preassembled on channel = 031110.

For blocks with two or more contact types, preassembled with other blocks, imprinting or special features, consult Technical Support.

**0300 Series, Fuse & Switch, Nylon and Polypropylene (Continued)**



**Switch Block  
Strap Clamp**



**Switch Block  
Tubular Screw**

Model	Part Number	Model	Part Number
0378	1-1437397-9	0372	1-1437397-8
P0378	4-1437397-6	P0372	4-1437397-5
D0378	1776729-1	D0372	1776731-1
DP0378	1776730-1	DP0372	1776732-1



18-8	18-8		
1/2	1/2		
8-32 pan head w/clamp	1/4"-28 set screw		
15 A	15 A		
0380	2-1437397-0	0380	2-1437397-0
P0380	4-1437397-7	P0380	4-1437397-7

**Specifications**

**Pitch**—0.75" [19.05] centerline, 16 circuits per foot

**Voltage Rating**—Blocks meet 600 volt creepage and clearance requirements of NEMA, UL and CSA for general industrial control equipment and panelboards. Withstand voltages greatly in excess of IEE switchgear standards for 750 volts.

**Fuse Size**—Any 13/32 x 1-1/2 in. [10.32 x 28.10] ferrule type cartridge fuse up to 25 amps, indicating or non-indicating, which meets Mil. Spec. F-15160.

**Standard Contacts**

**Material**—Electrical grade copper or copper alloy conductor. Steel Screws plated to resist corrosion in most industrial applications

**AL-CU Tubular Screw**—Aluminum compatibility with aluminum or copper conductors. AL-CU is tin-plated brass.

**Environmental Contacts  
(for highly corrosive atmospheres)**

**Tubular Screw**—Electrical grade copper tube with nickel plating. Nickel plated brass screws.

**Strap Screw**—Nickel plated brass straps and screws. Nickel plating meets specification QQ-N-290A Class I, Grade G.

**Polyamide Material:**

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

**Max. Continuous Temperature**—125°C, (257°F)

**Breakdown Voltage (AC, 60 Hz)**—

Contact-to-Contact: 7000V

Contact-to-Ground: 10,000V

**Dielectric Strength (RH 40% at Sea Level)**—470-385 Volts/mil thickness Per ASTM D149

**UL High Voltage Arc Tracking (inches/min.)**—0.1-.35 [25-8.89]

**Water Absorption (24 hrs. % wt. gain)**—1.5% per ASTM D570

**Flammability**—UL94V-2

**Chemical Resistance**—Resistant to aromatic hydrocarbons, strong alkalies per ASTM D543

**Radiation Resistance (ergs g-1 (C))**—8 x 107

**Color**—Translucent White

**Polypropylene Material:**

**Housing Material**—Polypropylene, Filled self-extinguishing

**Max. Continuous Temperature**—105°C, (221°F)

**Breakdown Voltage (AC, 60Hz)**—

Contact-to-Ground: 10,000V

Contact-to-Contact: 7000V

**Dielectric Strength (RH 40% at Sea Level)**—500 Volts/mil thickness per ASTM D149

**UL High Voltage Arc Tracking (inches/min.)**—Did not track

**Water Absorption (24 hrs. % wt. gain)**—0.02% Per ASTM D570

**Flammability**—UL94V-0

**Chemical Resistance**—Resistant to most acids, alkalines, and saline solutions. Also resistant to higher aliphatic solvents and polar substances per ASTM D543

**Radiation Resistance (ergs g-1 (C))**—No data Available

**Color**—Opaque White

**Fuse Puller:**

Material	High-temperature, glass-reinforced nylon
Color	Black

**Switch Handle:**

Material	Polypropylene
Color	White

**0300 Series, Fuse & Switch, Nylon and Polypropylene** (Continued)

**Mounting Channel**

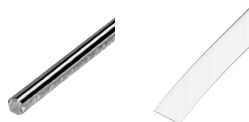


Steel Channel	Break Away Steel	Pre-punched Aluminum Channel
<b>Part Number</b>		
9-1437381-1 9-1437381-8	9-1437381-2	9-1437381-9 1437382-2
<b>Catalog Number</b>		
60 63-BU	60-B-36	64 67
<b>Standard Length</b>		
6 feet 3 feet	3 feet	6 feet 3 feet

**Channel Clamps**



**Marking Accessories**



Screw Channel Clamps	Universal Clamps	Snap-In Clamps	Ganging Rod	Coated Cloth Marking tape
<b>Part Number</b>				
9-1437381-5	1437382-3	9-1437381-7	3-1437381-9	8-1437381-0
<b>Catalog Number</b>				
61	68	62	30	55-BU
<b>Standard Length</b>				
—	—	—	2 feet	50 feet

**Related Product Data**

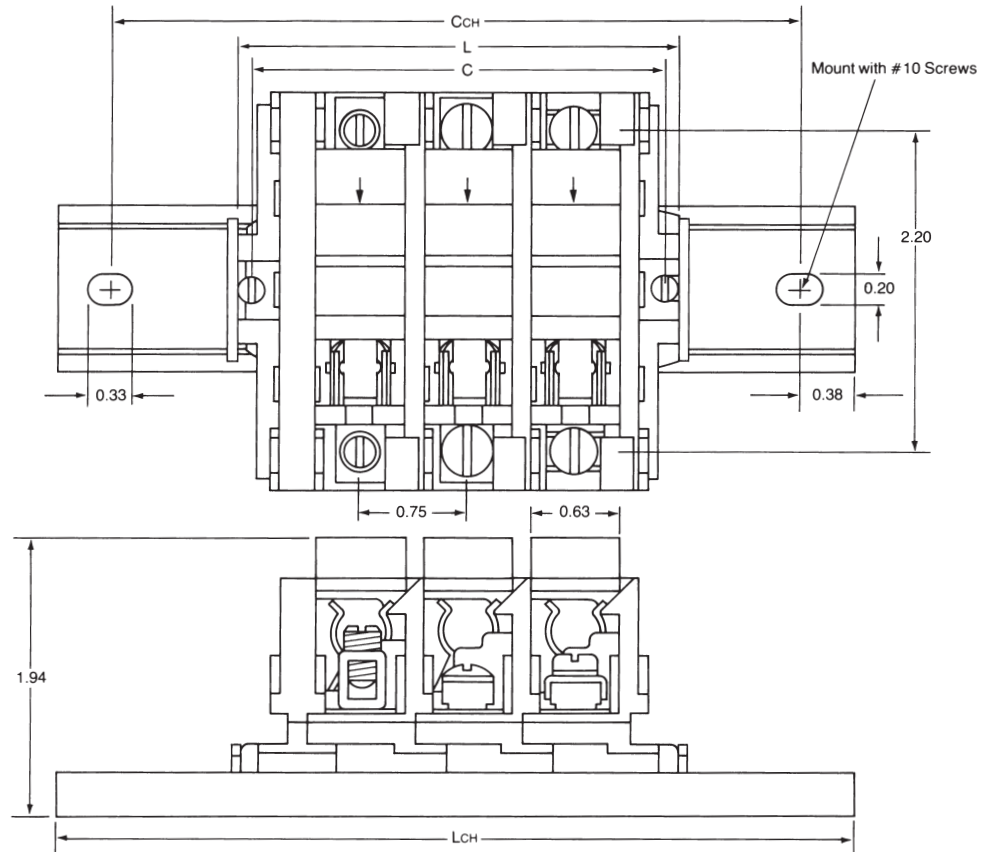
**Wire Pins and Ferrules**—Pages 109-111  
For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.



**Note:** All part numbers are RoHS Compliant.

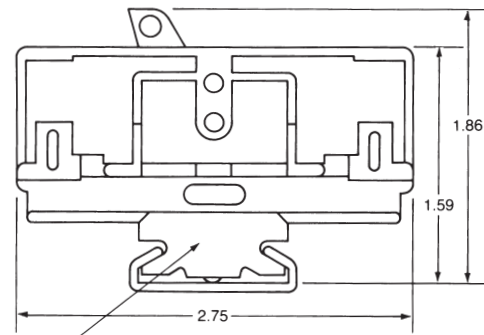
**0300 Series, Fuse & Switch, Nylon and Polypropylene (Continued)**

**Dovetail Base Mounted On Standard #60 Channel. May Also Be Mounted Direct**



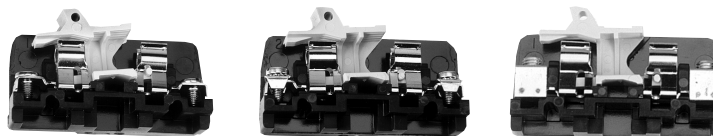
**CHANNEL MOUNTED**  
 $CCH = 2.28 + (.75 \times N)$   
 $LCH = 3.03 + (.75 \times N)$   
 N = Number of Circuits

**DIRECT MOUNTED**  
 $C = .56 + (.75 \times N)$   
 $L = .78 + (.75 \times N)$   
 N = Number of Circuits



Standard Channel Clamp #61 Shown

### 300 Series, Fuse & Switch, Phenolic



**Characteristics**

**Strap Screw**

**Strap Clamp**

**Tubular Screw**

Type of Block	Model	Part Number	Model	Part Number	Model	Part Number
<b>Direct Mount (Flat Base)</b>						
Fuse Block with Puller	351	2-1437397-8	358	3-1437397-1	352	3-1437397-0
Fuse Block without Puller	361	2-1437397-2	368-BU	3-1437397-5	362-BU	3-1437397-3
Switch Block	341	2-1437397-5	348	2-1437397-7	342	2-1437397-6
<b>Channel Mount (Dovetail Base)</b>						
Fuse Block with Puller	0351	1437397-9	0358	1-1437397-2	0352	1-1437397-0
Fuse Block without Puller	0361	1437397-4	0368	1-1437397-6	0362	1-1437397-5
Switch Block	0341	1437397-6	0348	1437397-8	0342	1437397-7

**Contact Type**



**Specifications**

Wire Range (AWG) Solid & Stranded	22-8	18-8	18-8
Wire Strip Length (in.)	—	1/2	1/2
Screw Type	8-32 binding head	8-32 pan head w/clamp	1/4"-28 set screw

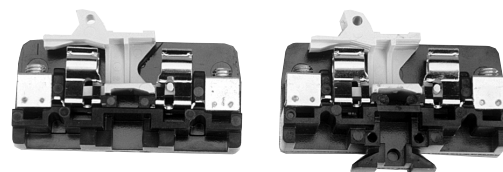
**Ampacity**

Fuse Blocks	25A	25A	25A
Switch Blocks	15A	15A	15A

**End Sections**

No Contact, Flat Base	330-BU	2-14376397-4	330-BU	2-14376397-4	330-BU	2-14376397-4
No Contact, Dovetail Base	0330	14376397-5	0330	14376397-5	0330	14376397-5

**Comparison (Type of Block)**



**Direct Mount  
(Flat Base)**

**Channel Mount  
(Dovetail Base)**

**Notes:** Standard package is 10 pieces.

For factory assembled blocks, suffix Catalog Number with number of blocks desired (Maximum number of flat base preassembled sections is 6).

EXAMPLE:

Twelve strap screw, fuse block sections preassembled on channel = 035112.

Six flat tubular screw, switch blocks preassembled without channel for direct mounting = 3426

For blocks with two or more different contact sections, preassembled with other blocks, imprinting or special features, consult Technical Support.

Environmental contacts for highly corrosive atmospheres are available with Nickel plating on non-ferrous hardware. To order, prefix Catalog Number with "D".

Except  
Switch  
Blocks



LR25557 E34934

**300 Series, Fuse & Switch, Phenolic—Accessories**

**Mounting Channel**



Steel Channel	Break Away Steel	Pre-punched Aluminum Channel	Fuse Puller	3-Gang Fuse Puller
<b>Part Number</b>				
9-1437381-1 9-1437381-8	9-1437381-2	9-1437381-9 1437382-2	2-1437397-1	2-1437397-2
<b>Catalog Number</b>				
60-BU 63-BU	60-B-36	64 67	31-BU	32
<b>Standard Length</b>				
6 feet 3 feet	3 feet	6 feet 3 feet	—	—

**Channel Clamps**



Screw Channel Clamps	Universal Clamps	Snap-In Clamps	Ganging Rod	Coated Cloth Marking Tape
<b>Part Number</b>				
9-1437381-5	1437382-3	9-1437381-7	3-1437381-9	8-1437381-0
<b>Catalog Number</b>				
61	68	62	30	55-BU
<b>Standard Length</b>				
—	—	—	2 feet	50 feet

**Marking Accessories**

**Physical Properties**

**Housing Material**—Phenolic, filled flame retardant  
**Color**—Black

**Contacts**

**Material**—Copper alloy spring clips. Steel screws plated to resist corrosion in most industrial applications

**Strap Screw**—11/32" max. lug width

**Mechanical Properties**

**Pitch (terminal spacing)**—0.75" [19.05]  
(16 circuits per foot)

**Switch Handles**

**Material**—Polypropylene

**Color**—White

**Electrical Properties**

**Operating Voltage**—Blocks meet 600V creepage and clearance requirements of NEMA, UL and CSA standards for general industrial control equipment and panelboards; withstand voltage exceeds IEEE switchgear standards for 750V

**Dielectric Strength (RH 40% @ sea level)**—300 volts/mil thickness per ASTM D149

**UL High Voltage Arc Tracking (inches/min.)**—.49-.58 [12.45-14.73]

**Fuse Size**—Any 13/32 x 1-1/2 in. [10.32 x 38.10] ferrule type cartridge fuse up to 25 amps, indicating or non-indicating, which meets Mil. Spec. F-15160, is recommended.

**Environmental Properties**

**Max. Service Temperature**—150°C (302°F)

**Water Absorption (24hrs. % wt. gain)**—0.45% per ASTM D570

**Flammability Rating**—UL94V-1

**Chemical Resistance**—Resistant to acids, alkalies, and aliphatic hydrocarbons and ketones, per ASTM D543

**Radiation Resistance (ergs g-1 (C))**—2.7 x 10<sup>8</sup>

**UL Independent Testing Service Recognitions:**

**Wire Sizes**—Solid or Stranded, Tubular Screw Cat. # 362-BU, 0362

1 #4 AWG, 1 #6 AWG, 1 #8 AWG,  
1 to 4 #10 AWG, 1 to 5 #12 AWG, 1 to 6 #14 AWG, 1 to 6 #16 AWG, 1 to 8 #18 AWG

**Related Product Data**

**Wire Pins and Ferrules**—Pages 135-137

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

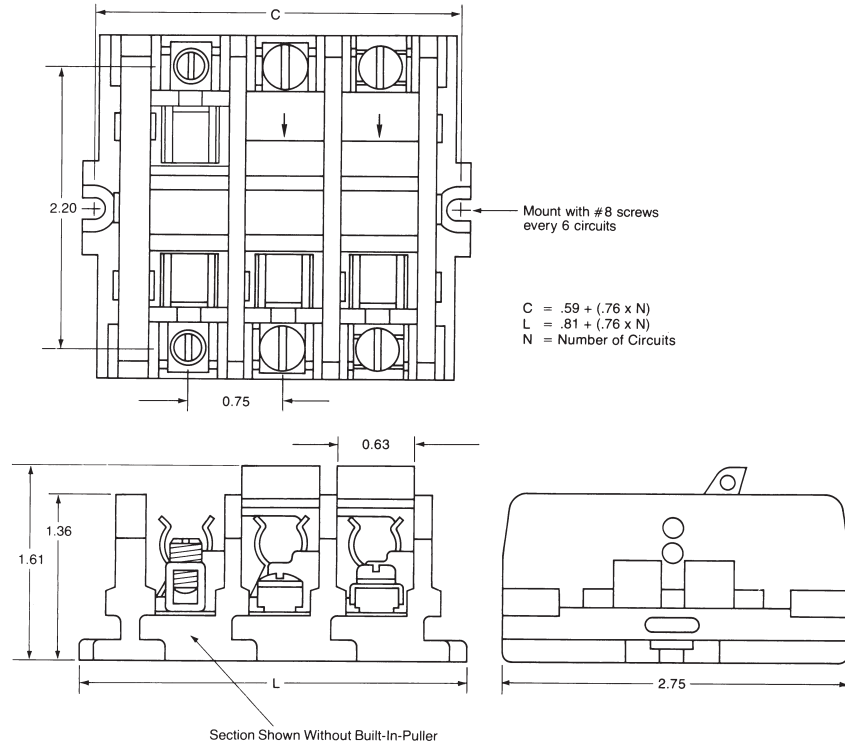
Cat #'s  
31 and  
32



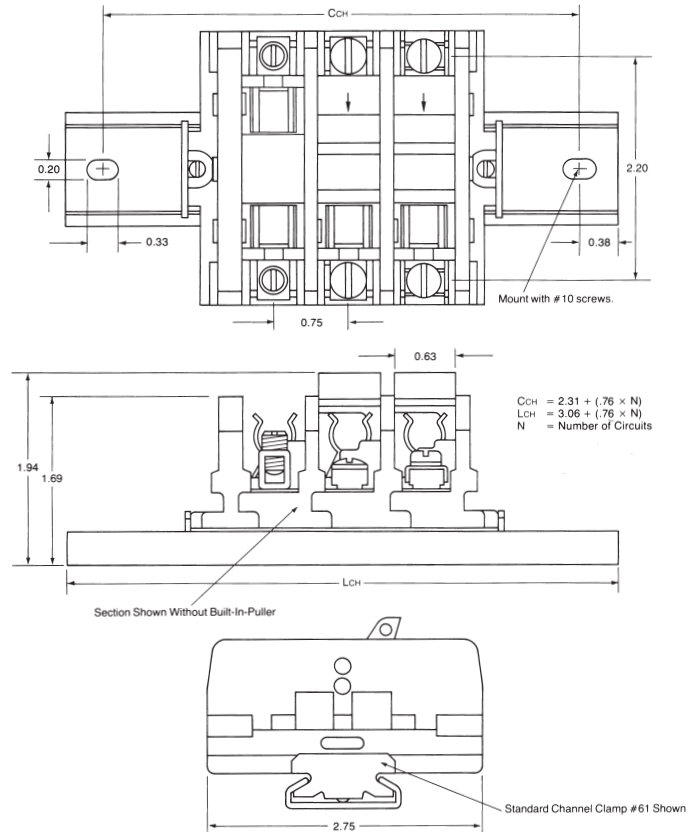
E63810

**Note:** All part numbers are RoHS Compliant.

**300 Series, Fuse & Switch, Phenolic, Flat Base**



**Dovetail Base Mounted On Standard #60 Channel**

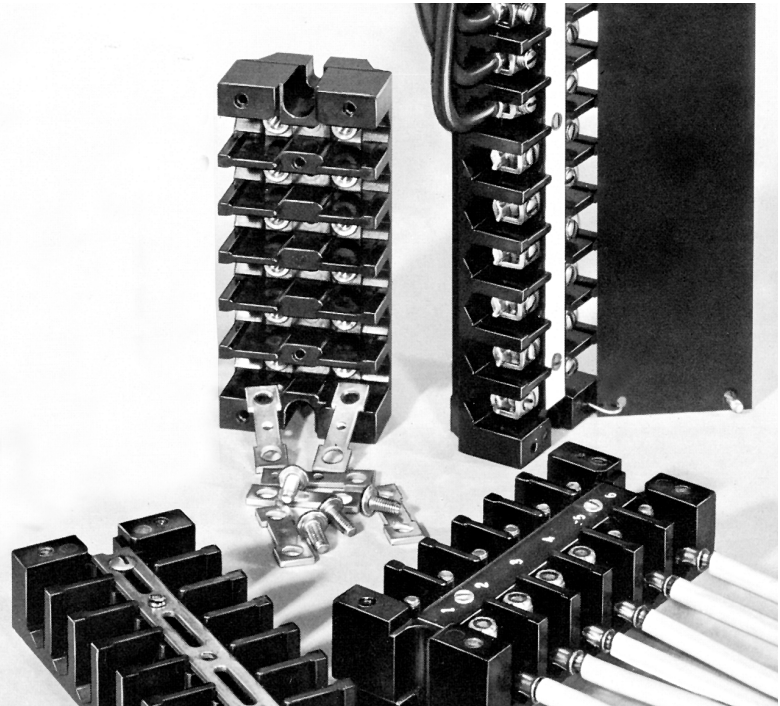


## One-Piece Phenolic Blocks

### Product Facts

- n Two, four, six, eight, and twelve circuit models available — 5/8" [15.88] center-to-center contact spacing.
- n No assembly required — each is a single, easily installed unit.
- n Three contact styles available — strap screw, captive strap clamp, and moving tubular contact.
- n Use wire up to #6 AWG with tubular contact. Strap screw and strap clamp contacts are available for #8 and smaller.
- n Withstand voltages in excess of IEEE standards for 750 volts. Meet clearance and creepage spacings specified in UL, CSA, and NEMA Industrial Control Standards for 600 Volts.
- n Strap contacts rated at 50 amperes — tubular contact conservatively rated at 70 amperes.
- n Pilot point screws supplied with strap screw and clamp contacts — speeds installation time.
- n Plain white marking strip supplied with each block — circuits are easily identified.
- n Special purpose blocks available—choose from blocks with solder posts, printed circuit board pins, or nuts on screw posts, removable circuit links, and a shorting bar.

Traditionally, these rugged One-Piece Blocks are the standard means of connection for heavy industrial applications like rail transport, utility, and traffic control industries. Ideal for dirty and vibration prone environments.



**B100, #B100 Series, One-Piece Blocks, 600 V — Phenolic**

**Material & Finish**

**Housing Material**—Phenolic, filled flame retardant  
**Flammability**—UL94V-1  
**Color**—Black

**Contacts**

**Standard Material**—Electrical grade copper or copper alloy conductor. Steel screws plated to resist corrosion in most industrial applications.

**Brass Material**—For Corrosive Environment (2B100, 4B100 Series) Nickel plated brass straps and screws. Meets specification QQ-N-290A Class 1, Grade G

**Wire Range**—Strap Screw: #18-8 AWG solid or stranded; Tubular Clamp: #14-6 AWG solid or stranded

**Screw Type**—Strap Screw: #10-32 Binding Head; Tubular Clamp: #1/4" [6.35]-28 Set Screw

**Strap Screw**—7/16" [11.11] max. lug width

**Mechanical Properties**

**Pitch (terminal spacing)**— .63" [16.00]

**Wire Strip Length**—Strap Screw: as needed for lugging; Tubular Clamp: 1/2" [12.1]

**Electrical Properties**

**Maximum Current**—70A for a single #6 AWG wire

**Operating Voltage**—Blocks meet 600V creepage and clearance requirements for general industrial control equipment and panelboards; greatly exceeds IEEE switchgear standards for 750 volts.

**Dielectric Strength (RH 40% @ sea level)**—300 Volts/mil thickness per ASTM D149

**UL High Voltage Arc Tracking (in./min.)**—.49-.58 [12.45-14.73]

**Environmental Properties**

**Max. Continuous Temperature**—150°C (302°F)

**Water Absorption (24hrs. % wt. gain)**—.45% per ASTM D570

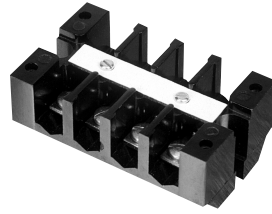
**Chemical Resistance**—Resistant to acids, alkalis, and aliphatic hydrocarbons and ketones per ASTM D543

**Radiation Resistance (ergs G<sup>-1</sup> (C))**—2.7 x 10<sup>8</sup> min

**UL Independent Testing Service Recognitions**

**Wire Sizes**—Solid or Stranded, Tubular Clamp

1—#6 AWG, 1—#8 AWG, 1or 2—#10 AWG, 1or 2—#12 AWG, 1 to 3—#14 AWG, 1—#10 & 1—#12 AWG  
 1—#12 & 1—#14 AWG



Circuits	Steel Screw w/Strap		Tubular Clamp		Brass Screw w/Strap	
	Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number
<b>Contact Type</b>						
<b>AMPACITY</b>						
	50A		65A		50A	
<b>Standard</b>						
2	2-1437382-6	B102	2-1437382-8	B102S	2-1437381-0	2B102
4	3-1437382-0	B104	3-1437382-6	B104S	2-1437381-2	2B104
6	4-1437382-0	B106-BU	4-1437382-5	B106S	2-1437381-6	2B106
8	4-1437382-9	B108	5-1437382-5	B108S	3-1437381-0	2B108
12	5-1437382-9	B112-BU	6-1437382-7	B112S	3-1437381-3	2B112
<b>Shorting*</b>						
2	4-1437381-0	3B102P	—	—	5-1437381-6	4B102P
4	4-1437381-1	3B104P	—	—	5-1437381-7	4B104P
6	4-1437381-3	3B106P	—	—	5-1437381-8	4B106P
8	4-1437381-5	3B108P	—	—	5-1437381-9	4B108P
12	4-1437381-7	3B112P	—	—	6-1437381-0	4B112P

Circuits	Strap Screw #8 & Smaller		Threaded Post & Nut	
<b>Removable Link</b>				
2	8-1437381-4	5B102	—	—
4	8-1437381-5	5B104	—	—
6	8-1437381-7	5B106	—	—
8	8-1437381-8	5B108	—	—
12	9-1437381-0	5B112	—	—
<b>Stud, #10-32</b>				
2	—	—	1-1437382-8	7B102
4	—	—	2-1437382-0	7B104
6	—	—	2-1437382-1	7B106
8	—	—	2-1437382-2	7B108
12	—	—	2-1437382-3	7B112

**Notes:**

For prenumbered marking strip, add suffix "N" to Catalog Number. Cannot be used on 3B or 4B series.

For factory assembled hinged cover, add suffix "H" to Catalog Number. Cannot be used on 3B or 4B series.

For factory assembled thumbscrew-fastened cover, add suffix "T" to Catalog Number. Cannot be used on 3B or 4B series.

Screws and removable links shipped unassembled.

\*Shorting blocks are supplied with 2 shorting screws each.

Except for 3B and 4B Series





**Note:** All part numbers are RoHS Compliant.

**B100, #B100 Series, One-Piece Blocks, 600 V — Phenolic Accessories**

**Covers and Marking**



Circuits	Laminated Phenolic Cover		Shorting Block Cover		White Marking Strip		Numbered Marking Strip	
	Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number	Part Number	Catalog Number
2	7-1437382-5	C102-BU	9-1437382-2	CS102	1-1437383-5	S102	1776733-2	N102
4	7-1437382-6	C104-BU	9-1437382-3	CS104	1-1437383-6	S104	1-1437383-1	N104
6	7-1437382-7	C106-BU	9-1437382-4	CS106	1-1437383-7	S106	1-1437383-2	N106
8	7-1437382-8	C108-BU	9-1437382-5	CS108	1-1437383-8	S108	1-1437383-3	N108
12	7-1437382-9	C112-BU	9-1437382-6	CS112	1-1437383-9	S112	1-1437383-4	N112

**Jumpers**



**Hardware**



Circuits	30A Copper Jumpers		50A 12 Circuit Jumpers		Connecting Link		Lock Nuts		Shorting Screw	
	Part No.	Catalog No.	Part No.	Catalog No.	Part No.	Catalog No.	Part No.	Catalog No.	Part No.	Catalog No.
2	1437383-2	J102	—	—	—	—	—	—	—	—
4	1437383-3	J104	—	—	—	—	—	—	—	—
6	1437383-4	J106	—	—	—	—	—	—	—	—
8	1437383-5	J108	—	—	—	—	—	—	—	—
12	1437383-6	J112	1437395-9	HJ112	—	—	—	—	—	—
<b>Hardware</b>										
—	—	—	—	—	9-1437382-0	CL101	1437383-7	LN101-BU	7-1437381-7	51-BU

**Related Product Data**

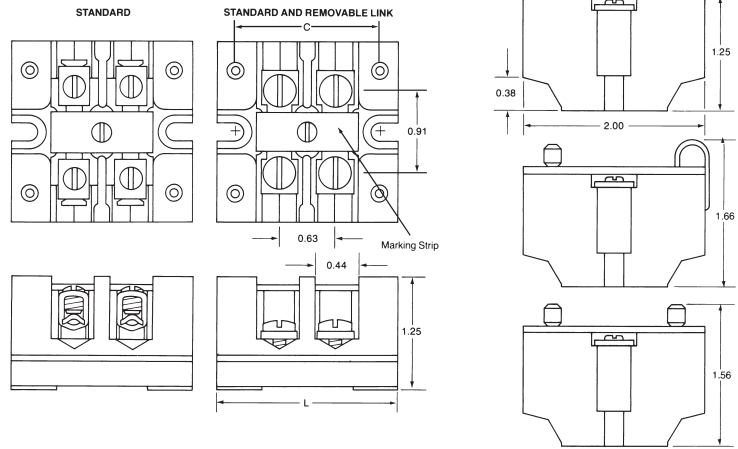
**Wire Pins and Ferrules**—Pages 109-111  
 For more information on AMP Standard Terminals and Splices or Quick-Connect FASTON Receptacles and Tabs, request Catalog 82042.



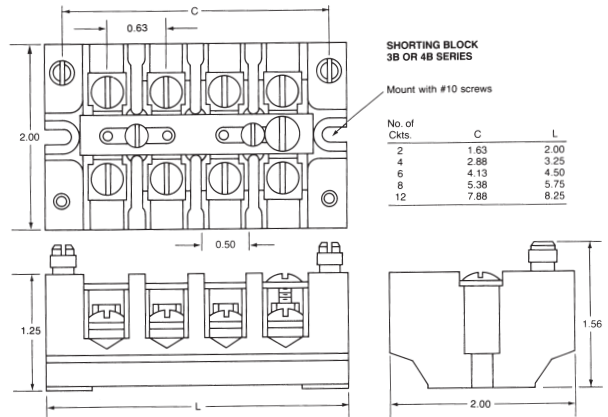


**Note:** All part numbers are RoHS Compliant.

**B100, #B100 Series, One-Piece Blocks, 600 V — Phenolic**



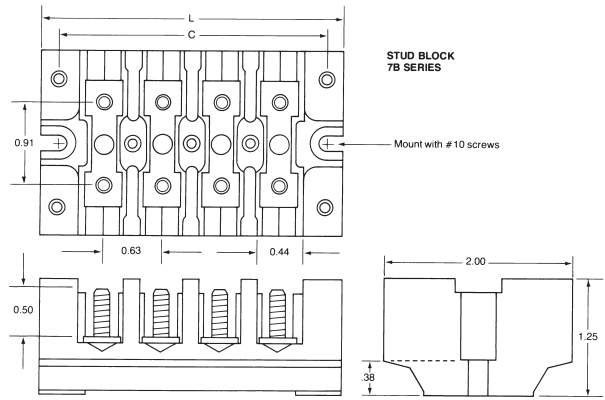
No. of Ckts.	C	L
2	1.63	2.00
4	2.88	3.25
6	4.13	4.50
8	5.38	5.75
12	7.88	8.25



**SHORTING BLOCK  
3B OR 4B SERIES**

Mount with #10 screws

No. of Ckts.	C	L
2	1.63	2.00
4	2.88	3.25
6	4.13	4.50
8	5.38	5.75
12	7.88	8.25



**STUD BLOCK  
7B SERIES**

Mount with #10 screws

**Note:** All part numbers are RoHS Compliant.

**Pre-Printed Marking Strips**

Circuit identification is greatly simplified with the use of pre-printed strips for BUCHANAN terminal blocks. These hot-stamped strips are available for all snap-assembled sections (except Fuse, Switch, and Circuit Breaker models which are marked individually). The strips can be ordered separately or pre-installed on factory assembled sectional block units.

Unlike painted or screened letters, hot-stamped letters are designed to not rub or flake off during industrial use so that they will retain their legibility.

Marking strips are stamped with consecutive numbers that can be ordered to read from left-to-right or right-to-left, and in vertical or horizontal positions. Number sequences can begin with any number. This allows circuits to be identified in a manner most consistent with the terminal block application.

**M 50 005 13 G**

**A B C D E**

- A M = Hot-Stamped Marking Strip**
- B Terminal Block Series and Designator**  
 10 = Miniature or Single Tier  
 12 = Double Tier  
 67 = 900 Series Medium Duty  
 24 = Nylon Heavy Duty  
 21 = Phenolic Heavy Duty  
 80 = Intermediate Heavy Duty  
 40 = Ultra Heavy Duty  
 T2 = TSB230  
 T5 = TSB500  
 T6 = TSB1000  
 T7 = TSB2000
- C Number of Circuits to be Consecutively Numbered**  
 (Use three digits: Ex.: 005 = 5, 055 = 55, etc.)
- D Marking Style Options**  
 11 = 1 2 3 4 5...  
 12 = ...5 4 3 2 1  
 13 = ... 1 2 3 4 5...  
 14 = ... 5 4 3 2 1
- E "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

**Marking Strip Installed On A Factory-Assembled Terminal Block**

**615 005 11 A**

**A B C D**

- A Basic Sectional Block Catalog #**
- B Number of Circuits to be Factory Assembled and Consecutively Numbered**  
 (Use three digits: Ex: 005 = 5, 055 = 55, etc.)
- C Marking Style Options**  
 11 = 1 2 3 4 5...  
 12 = ...5 4 3 2 1  
 13 = ... 1 2 3 4 5...  
 14 = ... 5 4 3 2 1
- D "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.

## Technical Summary

Cat. No.	Terminal Block or Product Line	Contact Type Material Plate	Screw		Material & Plating	Recommended Screwdriver Dimensions		Wire Strip Length	Wire Range AWG	Rec. Torque in. - lb.
			Screw Style	Slot Size		Tip Thick	Tip Width			
105-BU 115 125-BU	High Density Tubular Clamp	Electroplated Tubular Copper Contact	6-32 Slotted Head Screw	033" Wide x .040" Deep [.84 x 1.02] Steel	Steel Electroplated	.020" [.51]	9/64" [.02]	5/16" [7.94]	#12-30	10
211 241	HeavyDuty Strap Screw	Copper Alloy Strap Electroplated	Binding Head 10-32 Thread	062" Wide x 062" Deep [1.57 x 1.57]	"	.037" [.94]	1/4" [6.35]	As Needed for Lugging	#8 or Smaller	12
212 222-BU 242	Heavy Duty Tubular Screw	Electroplated Tubular Copper Contact	Headless 1/4"-28 Thd. Slotted	3/64" Wide x 1/16" Deep [1.19 x 1.59]	"	"	"	1/2" [12.7]	#4-18	35
213 243	Heavy Duty Tubular Clamp	"	"	"	"	"	"	#6-18	35	
218 248	Heavy Duty Strap Clamp	Copper Alloy Strap Electroplated	Pan Head Saddle Clamp 8-32 Thd.	3/64" Wide x 3/64" Deep [1.19 x 1.19]	"	"	"	#8-18	12	
351 361 0311	Fuse Block Strap Screw	Copper Alloy Electroplated Spring Temper	Binding Head 8-32 Thd.	"	"	"	"	As Needed for Lugging	#8 or Smaller	10
358 368 318	Fuse Block Strap Clamp	"	Pan Head w/SaddleClp. 8-32 Thd.	"	"	"	"	1/2" [12.7]	#8-18	"
352 362-BU 312	Fuse Block Tubular Screw	Same as above except use H.D. Tubular Contact	Headless 1/4"-28 Thd. slotted	"	"	"	"	"	"	"
341 371 342	Switch Block Strap Screw	CopperAlloy Electroplated Spring Temper	"	"	"	"	"	As Needed for Lugging	#8 or Smaller	"
348 0378	Switch Block Strap Clamp	"	Pan Head w/SaddleClp 8-32 Thd.	"	"	"	"	1/2" [12.7]	#8-18	
342 0372	Switch Block Tubular Screw	Same as above except use H D. Tubular Contact	"	"	"	"	"	"	"	
416 426-BU	Extra Heavy Duty Tubular Screw	Electroplated-Tubular Copper Contact	1/2"-13 Hex Socket Hd. Set Screw	1/4" [6.35] Hex	"	1/2" [12.7] Hex	T-Bar Key	7/8" [22.23]	#12-2/0	200

**Note:** Representative Catalog Numbers Listed.

### Technical Summary (Continued)

Cat. No.	Terminal Block or Product Line	Contact Type Material plate	Screw		Material & Plating	Recommended Screwdriver Dimensions		Wire Strip Length	Wire Range AWG	Rec. Torque in. - lb.
			Screw Style	Slot Size		Tip Thick	Tip Width			
417	Extra HD	Electroplated	3/4"-16 Hex Socket Head Set Screw	3/8" Hex [9.53]	Steel Electroplated	3/8" Hex [9.53]	KeyT-Bar	1" [25.4]	#6-250	375 kcmil (MCM)
427-BU	Tubular Screw	Tubular Copper Contact								
517 617 717	Medium Duty Quick-Connect	1/4" Wide QC .032" Thk Copper Alloy Electroplated	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1546235-1	Medium Duty Tubular Clamp	Electroplated Tubular Copper Contact	10-32 Slotted Hd	.046" Wide x .046" Deep [1.17 x 1.17]	Steel Electroplated	.032" [.81]	3/16" [4.76]	11/32" [8.73]	#10-22	8
1546152-1	Medium Duty QC & Tubular Screw	1/4" Wide QC .032" Thk. Tubular Contact Both Copper Alloy Electroplated	"	"	"	"	"	"	#8-18	10
1546148-1	Medium Duty Tubular Screw	Electroplated Tubular Copper Contact	"	"	"	"	"	"		8
1546143-1	Medium Duty Strap Screw	Copper Alloy Strap Electroplated	6-32 Thd. Slotted Binding Hd.	3/64" Wide x 3/64" Deep [1.19 x 1.19]	"	"	"	As Needed for Lugging	#8 or Smaller	12
824-BU	Intermediate Tubular Screw	Electroplated Tubular Copper Contact	7/16"-20Thd. Slotted Headless	5/64" Wide x 5/64" Deep [1.98 x 1.98]	"	.041" [1.04]	3/8" [9.53]	11/16" [17.46]	#12-1/0	50
B102 B112-BU	One-Piece Blk. Strap Screw	Copper Alloy Strap Electroplated	10-32 Thd. Slotted Binding Hd.	1/16" Wide x 1/16" Deep [1.59 x 1.59]	"	.037" [.94]	1/4" [6.35]	As Needed for Lugging	#8 or Smaller	20
B102S B112S	One-Piece Blk. Tubular Contact	Tubular Contact	1/4" -28 Thd. Headless Set Screw	3/64" Wide x 3/64" Deep [1.19 x 1.19]	"	"	"	1/2" [12.7]	#6-14	45

**Note:** Representative Catalog Numbers Listed.

## UL 1059 Basic Voltage Rating

Voltage ratings of terminal blocks are based on the minimum spacing between electrical conductive parts of opposite polarity or between an electrically conductive part and a metal mounting surface measured under two conditions: Through Air, defined as the distance an arc must take through the air to go from one live conductor to another or from a live conductor to ground; and Over Surface, defined as the distance an arc must take over a surface of the insulating material going from one terminal to ground, assuming the arc will travel along the surface rather than through the air. The following chart shows UL 1059 spacing requirements in inches.

### Voltage Rating

Description	Voltage	Spacing Requirements	
		Thru Air	Over Surface
Class A Service equipment including deadfront switchboards, panel boards, service entrance devices, etc.	51 - 150 151 - 300 251 - 600	1/2 [12.7] 3/4 [19.05] 1 [25.4]	3/4 [19.05] 1 1/4 [31.75] 2 [50.8]
Class B Commercial appliances including business equipment, electronic data processing equipment and the like	51 - 150 151 - 300 251 - 600	1/16 [1.59] 3/32 [2.38] 3/8 [9.53]	1/16 [1.59] 3/32 [2.38] 1/2 [12.7]
Class C General industrial and machine tools; controls which can be further defined as equipment falling under UL508	51 - 150 151 - 300 301 - 600	1/8 [3.18] 1/4 [6.35] 3/8 [9.53]	1/4 [6.35] 3/8 [9.53] 1/2 [12.7]
Devices having limited ratings <sup>a</sup>	51 - 300 301 - 600	1/16 [1.59] 3/16 [4.76]	1/8 [3.18] 3/8 [9.53]

<sup>a</sup>Load on any single circuit can not exceed 15 A at 51-150 V, 10 A at 151-300 V, 5 A at 301-600 V or the maximum current rating, whichever is less.

### Standard Test Criteria

Test	Per:
Heat Cycling (term)	UL486E Section 10
Static Heating (term)	UL486E Section 11
Secureness	UL486E Section 12
Pullout	UL486E Section 14
Heating Test (block)	UL1059 Section 10
Dielectric Withstand	UL1059 Section 11
Strength of Base	UL1059 Section 13
Tab Pull	UL1059 Section 14
VPTA	UL1059 Section 15
Salt Spray	MIL-202 Method 101
Solderability	MIL-202 Method 208
Solvents	MIL-202 Method 215

Note: All part numbers are RoHS Compliant.

All Tyco Electronic Part Numbers without a corresponding BUCHANAN Part Number are listed as base part numbers only. Complete part numbers (with prefixes and/or suffixes) are shown on the page(s) indicated.

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Note: All part numbers are RoHS Compliant.

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JC6-E408-18	1-1546727-8	147
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JC6-P106-07	0-1776249-8	147
JC6-P106-08	0-1776249-9	147
JC6-P106-09	0-1776249-0	147
JC6-P106-12	0-1776249-8	147
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JC6-P107-06-166	1-0796985-1	147
JC6-P107-06-220	0-1776346-2	147
JC6-P107-13-150	0-0796985-7	147
JC6-P107-15	7-0796985-9	147
JC6-P107-17	8-0796985-0	147
JC6-P107-18	8-0796985-1	147
JC6-P107-19	8-0796985-2	147
JC6-P107-21	8-0796985-3	147
JC6-P107-22	8-0796985-4	147
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JC6-P107-25	8-0796985-7	147
JC6-P108-03-229	0-1776249-9	147
JC6-P108-03-230	1-1776249-0	147
JC6-P108-04-167	1-0796985-2	147
JC6-P108-04-186	0-0796985-8	147
JC6-P108-04-186	0-1546787-1	147
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JC6-P208-16	5-0796985-9	147
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JC6-Q207-11	1-1546841-1	147
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**Note:** All part numbers are RoHS Compliant.

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JC6-Q208-04	0-1546842-4	147
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JC6-Q208-08	0-1546842-8	147
JC6-Q208-09	0-1546842-9	147
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JC6-Q208-22	2-1546842-2	147
JC6-Q208-23	2-1546842-3	147
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JC6-Q307-06-203	0-1776007-5	147
JC6-Q307-06-206	0-1776007-6	147
JC6-Q307-08-196	0-1776007-3	147
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JC6-Q408-19	5-1546700-7	147
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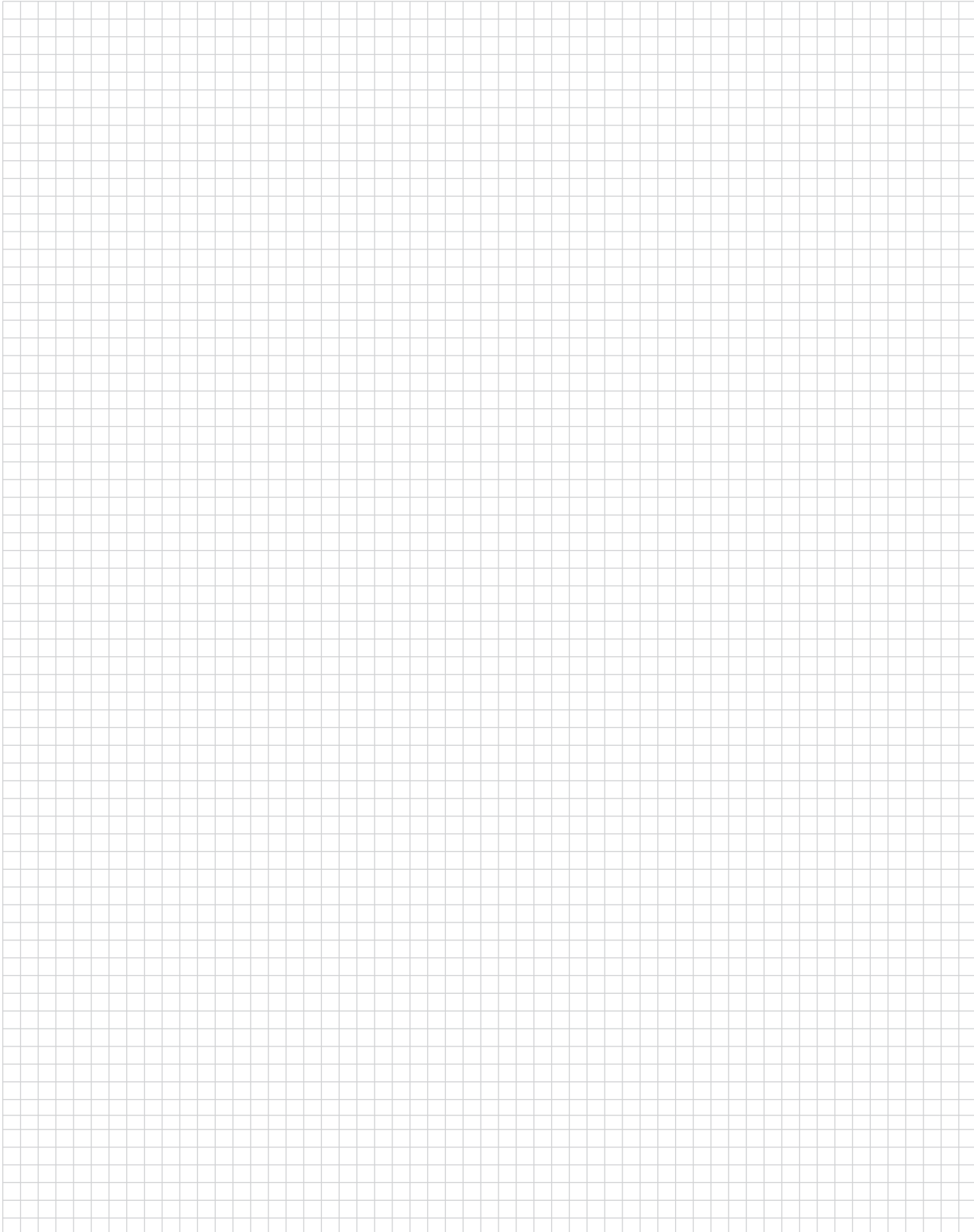
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**Note:** All part numbers  
are RoHS Compliant.

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## Engineering Notes

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## Appendix — Recommended Screw Tightening Torque

### Centerline Spacing Reference

Pitch (Centerline spacing)	Product	Page	Max. Tightening Torque inch-pounds
2.5 [0.984"]	SMC Surface Mount, screwless	101	n/a
5.00 [1.97"]	B51C4 Eurostyle, Two-Piece	89	4.4
5.08 [.200"]	2SV Eurostyle, screwless	104	n/a
	B51C8 Eurostyle, Two-Piece	91	4.4
6.35 [.250"]	#3 Tri-Barrier	119-138	5.5
	1546657 Dual Barrier	141, 142	9
	4DB Dual-Barrier	143, 144	7
	#4 Tri-Barrier	124-127	7
8.26 [.325"]	RSB3 Tri-Barrier	164-166	9
	SSB3 Dual Barrier	168-170	9
	1546927 With Attached Cover	127	12
	1546734 High Rise Dual Barrier	145, 146	10
	#6 Tri-Barrier	128-135	7
9.53 [.375"]	BC6 Tri-Barrier	133-134	7
	JC6 Dual Barrier	147, 148	7
	MB6 Bi-Level Tri-Barrier	135	7
	NC6 Low-Profile Dual Barrier	149, 150	7
	RSB6 Tri-Barrier	171-173	9
	#8 Tri-Barrier	136-138	20
11.11 [.4375"]	#8 Tri-Barrier	136-138	20
	SSB7 Dual Barrier	151-154	8



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**For Latin/South American  
 Countries not shown**  
 Phone: +54-11-4733-2015  
 Fax: +54-11-4733-2083

**Asia/Pacific**

**Australia** – Sydney  
 Phone: +61-2-9554-2600  
 Fax: +61-2-9502-2556

**Product Information Center:  
 (Technical Support)**  
 Phone: +61-2-9840-8200  
 Fax: +61-2-9634-6188

**India** – Bangalore  
 Phone: +91-80-285-40800  
 Fax: +91-80-285-40820

**Indonesia** – Jakarta  
 Phone: +65-6482-0311  
 Fax: +65-6482-1012

**Japan** – Toyko  
 Phone: +81-44-844-8111  
 Fax: +81-44-812-3207  
**Raychem & Identification Products**  
 Phone: +81-44-844-8183  
 Fax: +81-44-844-8184  
**Product Information Center:  
 (Technical Support)**  
 Phone: +81-44-844-8013  
 Fax: +81-44-812-3200

**Korea** – Seoul  
 Phone: +82-2-3415-4500  
 Fax: +82-2-3486-3810

**Malaysia** – Kuala Lumpur  
 Phone: +60-3-78053055  
 Fax: +60-3-78053066

**New Zealand** – Auckland  
 Phone: +64-9-634-4580  
 Fax: +64-9-634-4586

**Philippines** – Makati City  
 Phone: +632-848-0171  
 Fax: +632-867-8661

**People's Republic of China**  
 Hong Kong  
 Phone: +852-2735-1628  
 Fax: +852-2735-0243

Shanghai  
 Phone: +86-21-2407-1588  
 Fax: +86-21-2407-1599

Taiwan – Taipei  
 Phone: +886-2-8768-2788  
 Fax: +886-2-8768-2268

**Singapore** – Singapore  
 Phone: +65-6482-0311  
 Fax: +65-6482-1012

**Raychem Products**  
 Phone: +65-4866-151  
 Fax: +65-6545-514  
**Identification Products**  
 Phone: +65 (0) 6482-0311  
 Fax: +65 (0) 6481-5514

**Thailand** – Bangkok  
 Phone: +66-2-955-0500  
 Fax: +66-2-955-0505

**Vietnam and Indochina** –  
 Ho Chi Minh City  
 Phone: +84-8 930-5546  
 Fax: +84-8 930-3443

**Europe/Middle East/Africa**

**Austria** – Vienna  
 Phone: +43-1 90 5 60-0  
 Fax: +43-1 90 5 60-1333

**Belgium** – Kessel-Lo  
 Phone: +32-16-35-23-00  
 Fax: +32-16-35-23-52

**Bulgaria** – Sofia  
 Phone: +359-2-971-2152  
 Fax: +359-2-971-2153

**Czech Republic** – Kurim  
 Phone: +420-5-41-162-111  
 Fax: +420-5-41-162-223

**Denmark** – Glostrup  
 Phone: +45-43-480-452  
 Fax: +45-43-441-414

**Egypt** – Cairo  
 Phone: +20-2-29 04 281  
 Fax: +20-2-41 92 334

**Estonia** – Tartu  
 Phone: +372-5138-274  
 Fax: +372-7400-779

**Finland** – Helsinki  
 Phone: +358-95-12-34-20  
 Fax: +358-95-12-34-250

**France** – Cergy-Pontoise  
 Phone: +33-1-3420-8888  
 Fax: +33-1-3420-8600  
**Product Information Center:  
 (Technical Support)**  
 Phone: +33-1-3420-8943  
 Fax: +33-1-3420-8623

**Germany** – Bensheim  
 Phone: +49-6251-133-0  
 Fax: +49-6251-133-1600  
**Product Information Center:  
 (Technical Support)**  
 Phone: +49-6251-133-1999  
 Fax: +49-6251-133-1988

**Germany** – Langen  
 Phone: +49-6103-709-0  
 Fax: +49-6103-709-1223

**Germany** – Speyer  
 Phone: +49-6232-30-0  
 Fax: +49-6232-30-2243

**Germany - HTS Division** – Neunkirchen  
 Phone: +49-2247-305-0  
 Fax: +49-2247-305-122

**Greece** – Athens  
 Phone: +30-210-9370-396/397  
 Fax: +30-210-9370-655

**Hungary** – Budapest  
 Phone: +36-1-289-1000  
 Fax: +36-1-289-1010

**Ireland** – Dublin  
 Phone: +353-1-820-3000  
 Fax: +353-1-820-9790

**Israel** – Yokneam  
 Phone: +972-4-959-0508  
 Fax: +972-4-959-0506

**Italy** – Collegno (Torino)  
 Phone: +39-011-4012-111  
 Fax: +39-011-4031116

**Lithuania** – Vilnius  
 Phone: +370-5-2131-402  
 Fax: +370-5-2131-403

**Netherlands** – 's-Hertogenbosch  
 Phone: +31-73-624-62-46  
 Fax: +31-73-621-23-65  
**Product Information Center:  
 (Technical Support)**  
 Phone: +31-73-6246-999  
 Fax: +31-73-6246-998

**Norway** – Nesbru  
 Phone: +47-66-77-8886  
 Fax: +47-66-77-8855

**Poland** – Warsaw  
 Phone: +48-22-45-76-700  
 Fax: +48-22-45-76-720

**Romania** – Bucharest  
 Phone: +40-21-311-3479/3596  
 Fax: +40-21-312-0574

**Russia** – Moscow  
 Phone: +7-495-926-5506/07/08/09  
 Fax: +7-495-926-5505

**Russia** – St. Petersburg  
 Phone: +7-812-718-8192  
 Fax: +7-812-718-8193

**Slovenia** – Ljubljana  
 Phone: +386-1561-3270  
 Fax: +386-1561-3240

**South Africa** – Port Elizabeth  
 Phone: +2741-503-4500  
 Fax: +2741-581-0440

**Spain** – Barcelona  
 Phone: +34-93-291-0330  
 Fax: +34-93-201-7879

**Product Information Center:  
 (Technical Support):**  
 Phone: +34-93-291-0330  
 Fax: +34-93-200-3779

**Sweden** – Upplands Väsby  
 Phone: +46-8-50-72-50-00  
 Fax: +46-8-50-72-50-01

**Switzerland** – Steinach  
 Phone: +41-71-447-0447  
 Fax: +41-71-447-0444

**Turkey** – Istanbul  
 Phone: +90-212-281-8181/2/3  
 Fax: +90-212-281-8184

**Ukraine** – Kiev  
 Phone: +380-044-206-2265  
 Fax: +380-044-206-2264

**United Kingdom** – Swindon  
 Phone: +44-8706-080-208  
 Fax: +44-1793-572-109  
**Product Information Center:  
 (Technical Support)**  
 Freephone GB: 0900-267-666  
 Phone: +44-208-420-8341 or 8343  
 +44-208-420-8081

**United Kingdom – Raychem &  
 Identification Products**  
 Phone: +44-1793-528171  
 Fax: +44-1793-572-516

**For Middle East/African Countries Not  
 Shown**  
 Phone: +33-1-3420-8866  
 Fax: +33-1-3420-8300