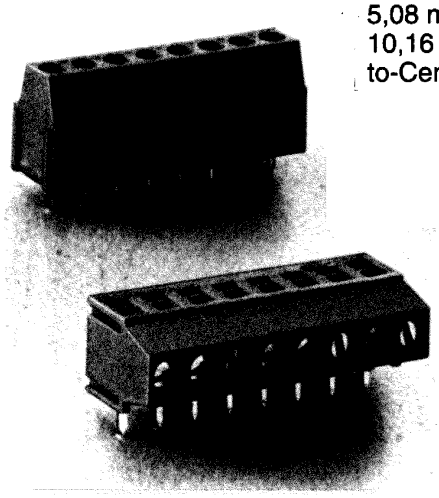
SERIES PA250/5.08, PA250/7.62 and PA250/10.16



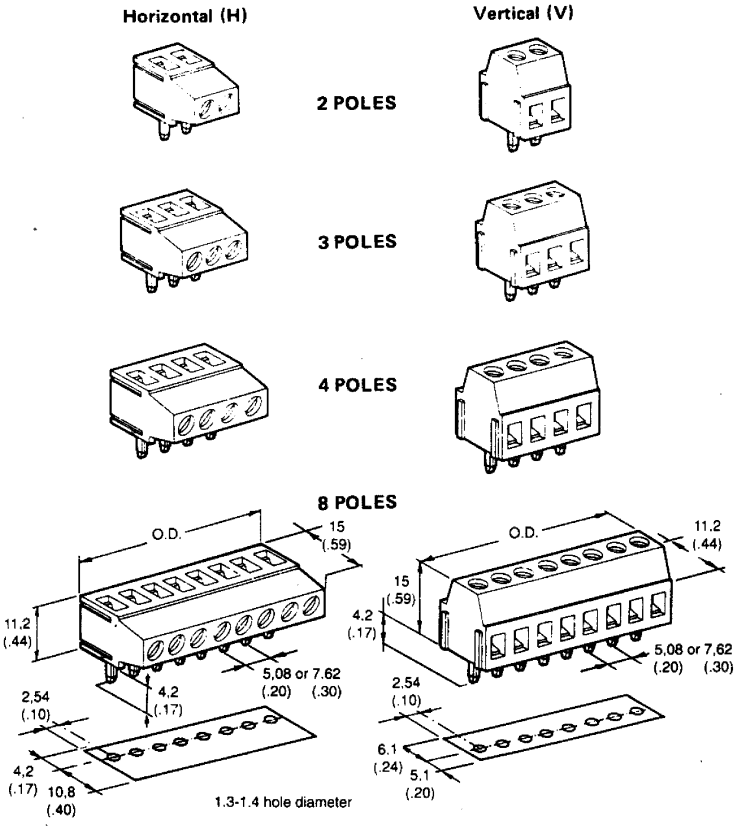
5,08 mm, 7,62 and 10,16 mm Center-to-Center Spacing

FEATURES

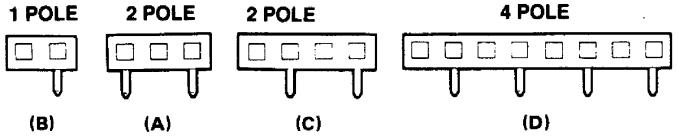
- **BLOCKS INTERLOCK TO OBTAIN LONGER LENGTHS** – Dovetail design allows blocks to be joined for longer lengths while maintaining center-to-center spacing.
- **EASY WIRE INSERTION AND REDUCED CONNECTION TIME** – Terminals are provided in the open position and wire entry is tapered for easy entry and faster assembly.
- **ELIMINATES BROKEN SOLDER CONNECTIONS** – Terminal design eliminates transmission of tightening torque to P.C. board while installing wires.
- **SECURE WIRE CONNECTIONS** – Bar and collar design insures secure connections repeatedly and eliminates terminal degradation.
- **NO LOST OR MISSING SCREWS** – Screws are captive within housing.
- **VERSATILITY** – Housings include vertical and horizontal options for insertion of wires.
- **BREAK RESISTANT AND FLAME RETARDANT** – Block molded in 94VO thermoplastic material.
- **SAFETY RECOGNITIONS** – UL recognized under file no. E62557, CSA certified under report no. LR39186-1, meets VDE 0110.

VARIATIONS

PA250



(OPTION 10,16 C to C)



ENGINEERING SPECIFICATIONS

	PA250/5.08	PA250/7.62	PA250/10.16
No. of Terminals:	2, 3, 4, 8	2, 3	1, 2, 4
Wire Range:	UL – No. 22-12 AWG, CSA – No. 26-14 AWG		
Voltage Rating:	VDE 0110 – 380 volts		
	UL & CSA – 300 volts		
Current Rating:	15 amps		

Housing:
Material: (Green) Polyamide 6
Flammability: UL94V-0
Continuous Use Temp.: 105°C
Metal Parts: Pin (.8mm x .9mm) Brass – Tin Plated
Connector Brass – Nickel Plated
M 3 x 5 Screw Steel – Zinc Plated
Tightening Torque: 4.5 in. – lb.

PA250/5.08	5,08 MM CENTER-TO-CENTER SPACING (.20")		
No. of Terminals	**Part Number**	**Overall Dimensions O.D.**	
2	PA250/5.08/2 *	10,16 mm	.4"
3	PA250/5.08/3 _	15,24 mm	.6"
4	PA250/5.08/4 _	20,32 mm	.8"
8	PA250/5.08/8 _	40,64 mm	1.6"
PA250/7.62	**7,62 MM CENTER-TO-CENTER SPACING (.30")**		
2	PA250/7.62/2 * _	15,50 mm	.6"
3	PA250/7.62/3 _	22,86 mm	.9
PA250/10.16	**10,16 MM CENTER-TO-CENTER SPACING (.40")**		
1	PA250/10.16/1 *	10,16 mm	.4"
2	PA250/10.16/2 _ A	15,24 mm	.6
2	PA250/10.16/2 _ C	20,32 mm	.8"
4	PA250/10.16/4 _	40,64 mm	1.6"

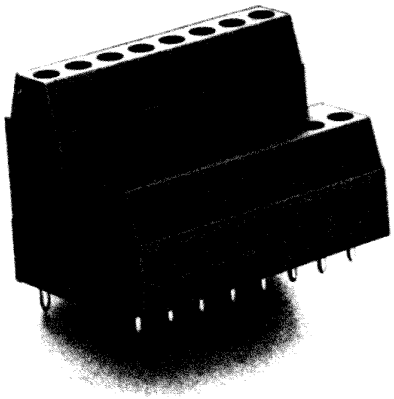
* To complete P/N, insert **H** (Horizontal) or **V** (Vertical).

ORDERING INFORMATION — EXAMPLE
PA250 / 10.16 / 2 HC

PA250/ = Series
10.16/ = MM Center-to-Center Pin Spacing
2 = No. of Terminals
HC = Horizontal 2 Pole "C" Pin Option

SERIES PA254/10.16 and PA254/15.24

5,08 mm Center-to-Center (Side by Side) Spacing and 10,16 mm or 15,24 mm Center-to-Center (Front to Back) Spacing

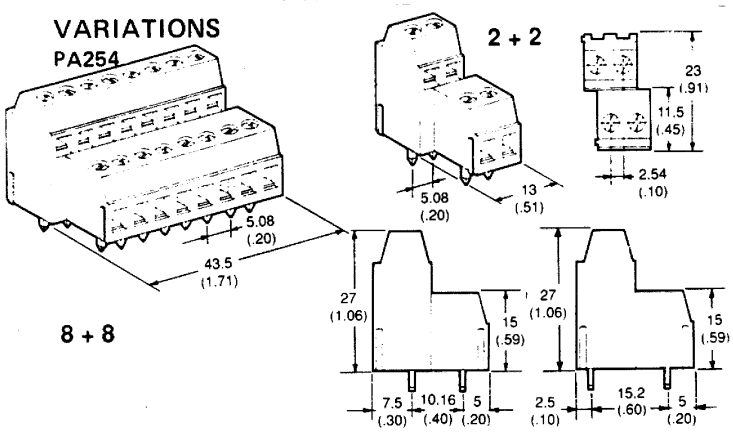


FEATURES

- **SPACE SAVING DESIGN** – Unique stacked design offers maximum wire density coupled with low P.C. board real estate requirements.
- **BLOCKS INTERLOCK TO OBTAIN LONGER LENGTHS** – Dovetail design allows headers to be joined for longer lengths while maintaining center-to-center spacing.
- **EASY WIRE INSERTION AND REDUCED CONNECTION TIME** – Terminals are provided in the open position and wire entry is tapered for easy entry and faster assembly.
- **ELIMINATES BROKEN SOLDER CONNECTIONS** – Terminal design eliminates transmission of tightening torque to P.C. board while installing wires.
- **SECURE WIRE CONNECTIONS** – Bar and collar design insures secure connections repeatedly and eliminates terminal degradation.
- **NO LOST OR MISSING SCREWS** – Screws are captive within housing.
- **BREAK RESISTANT AND FLAME RETARDANT** – Block molded in 94VO thermoplastic material.
- **SAFETY RECOGNITIONS** – UL recognized under file no. E62557, CSA certified under report no. LR39186-1, meets VDE 0110.

VARIATIONS

PA254



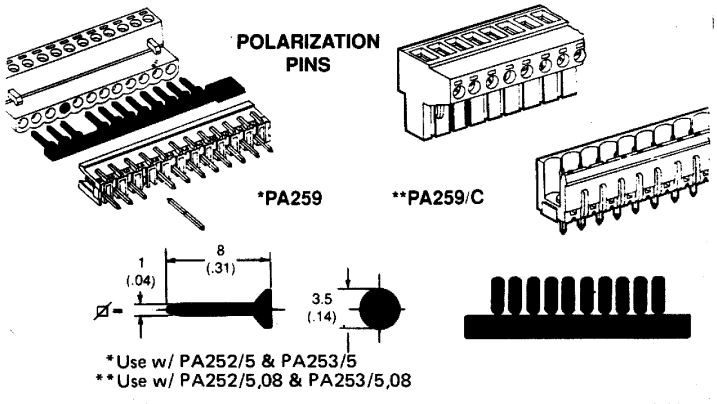
ENGINEERING SPECIFICATIONS

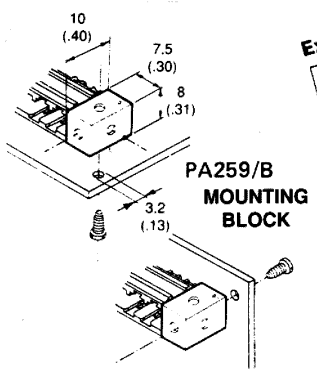
No. of Terminals: 2 + 2, 3 + 3, and 8 + 8
Wire Range: UL – No. 22-12 AWG, CSA – No. 22-12 AWG
Voltage Rating: VDE 0110 –380 volts
UL & CSA –300 volts
Current Rating: 15 amps
Housing:
Material: (Green) Polyamide 6
Flammability: UL94V-0
Continuous Use Temp.: 105°C
Metal Parts: Pin (.8mm x .9mm) Brass – Tin Plated
Connector Brass – Nickel Plated
M 3 x 5 Screw Steel – Zinc Plated
Tightening Torque: 4.5 in. – lb.

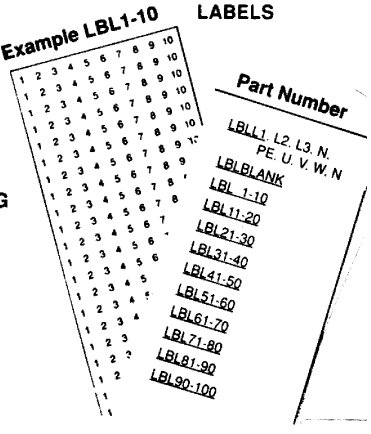
PA254/10.16	5,08 MM CENTER-TO-CENTER SPACING (.20″) 10,16 MM PIN SPACE FRONT TO BACK	
No. of Terminals	**Part Number**	**Overall Dimensions O.D.**
2 + 2	PA254/10.16/2+2	13 mm .51″
3 + 3	PA254/10.16/3+3	17,8 mm .70″
8 + 8	PA254/10.16/8+8	43,5 mm 1.71″

PA254/15.24	5,08 MM CENTER-TO-CENTER SPACING (.20″) 15,24 MM PIN SPACE FRONT TO BACK	
No. of Terminals	**Part Number**	**Overall Dimensions O.D.**
2 + 2	PA254/15.24/2+2	13 mm .51″
3 + 3	PA254/15.24/3+3	17,8 mm .70″
8 + 8	PA254/15.24/8+8	43,5 mm 1.71″

ACCESSORIES







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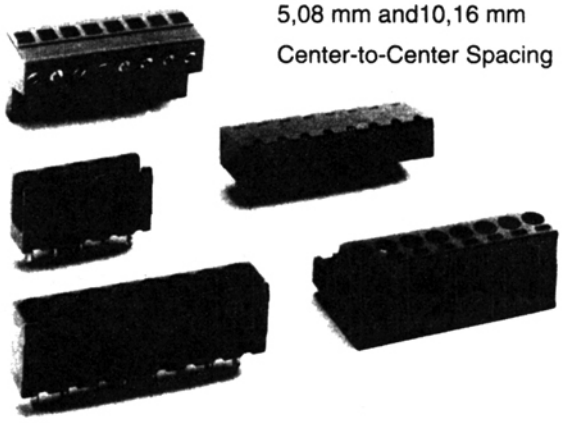
SERIES PA256/5.08 and PA257/5.08



5,08 mm and10,16 mm

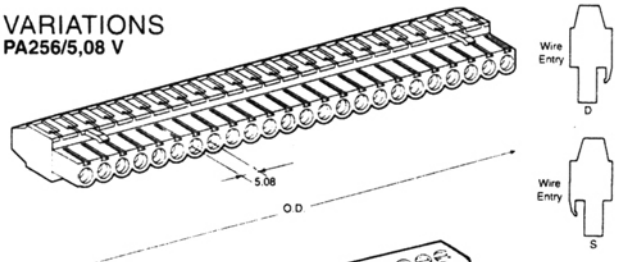
Center-to-Center Spacing

FEATURES

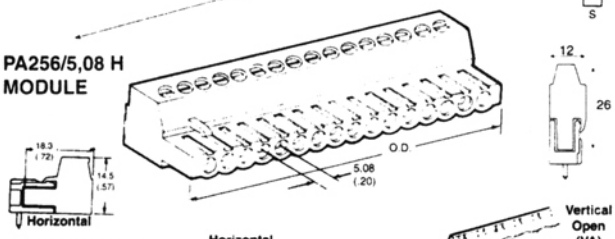
- **TYPE "A" (OPEN ENDED) HEADERS INTERLOCK TO OBTAIN LONGER LENGTHS** – Design allows Type "A" Headers to be placed side-by-side while maintaining center-to-center spacing.
- **VERSATILITY** - Housings include vertical and horizontal options for insertion of wires.
- **EASY WIRE INSERTION AND REDUCED CONNECTION TIME** – Terminals are provided in the open position and wire entry is tapered for easy entry and faster assembly.
- **SECURE WIRE CONNECTIONS** – Bar and collar design insures secure connections repeatedly and eliminates terminal degradation.
- **NO LOST OR MISSING SCREWS** – Screws are captive within housing.
- **BREAK RESISTANT AND FLAME RETARDANT** – Block molded in 94VO thermoplastic material.
- **SAFETY RECOGNITIONS** – UL recognized under file no. E62557, CSA certified under report no. LR39186-1, meets VDE 0110.

VARIATIONS

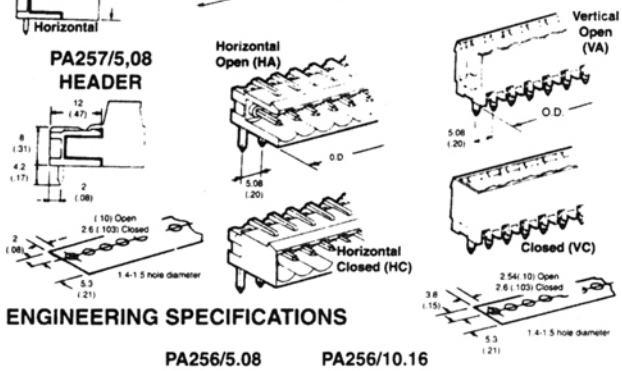
PA256/5,08 V



PA256/5,08 H MODULE



PA257/5,08 HEADER



ENGINEERING SPECIFICATIONS

	PA256/5.08 PA257/5.08	PA256/10.16 PA257/10.16
No. of Terminals:	2 thru 24	2 thru 12
Wire Range:	UL – No. 22-12 AWG, CSA – No. 22-12 AWG	
Voltage Rating:	VDE 0110 –380 volts	
	UL & CSA –300 volts	
Current Rating:	15 amps	
Housing:		
Material: (Green) Polyamide 6		
Flammability: UL94V-0		
Continuous Use Temp.: 105°C		
Metal Parts:	Pin (1mm x1mm)	Brass – Tin Plated
	Connector	Brass – Nickel Plated
	M 3 x 5 Screw	Steel – Zinc Plated
Tightening Torque: 4.5 in. – lb.		

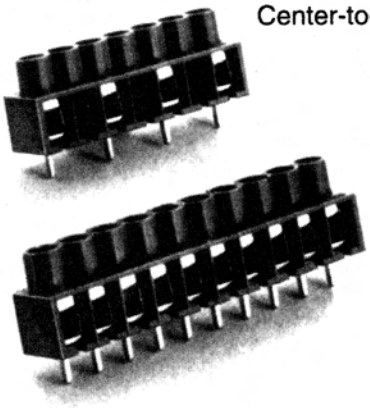
No. of Terminals	Part Number * **	Overall Dimensions O.D.	
PA256/5.08 or PA257/5.08 5,08 MM CENTER-TO-CENTER SPACING (.20")			
2	PA25_/5.08/2 _ _	10,16 mm	.4"
3	PA25_/5.08/3 _ _	15,24 mm	.6"
4	PA25_/5.08/4 _ _	20,32 mm	.8"
5	PA25_/5.08/5 _ _	25,40 mm	1.0"
6	PA25_/5.08/6 _ _	30,48 mm	1.2"
7	PA25_/5.08/7 _ _	35,56 mm	1.4"
8	PA25_/5.08/8 _ _	40,64 mm	1.6"
9	PA25_/5.08/9 _ _	45,72 mm	1.8"
10	PA25_/5.08/10 _ _	50,80 mm	2.0"
11	PA25_/5.08/11 _ _	55,88 mm	2.2"
12	PA25_/5.08/12 _ _	60,96 mm	2.4"
13	PA25_/5.08/13 _ _	66,04 mm	2.6"
14	PA25_/5.08/14 _ _	71,12 mm	2.8"
15	PA25_/5.08/15 _ _	76,20 mm	3.0"
16	PA25_/5.08/16 _ _	81,28 mm	3.2"
17	PA25_/5.08/17 _ _	86,36 mm	3.4"
18	PA25_/5.08/18 _ _	91,44 mm	3.6"
19	PA25_/5.08/19 _ _	96,52 mm	3.8"
20	PA25_/5.08/20 _ _	101,60 mm	4.0"
21	PA25_/5.08/21 _ _	106,68 mm	4.2"
22	PA25_/5.08/22 _ _	111,76 mm	4.4"
23	PA25_/5.08/23 _ _	116,84 mm	4.6"
24	PA25_/5.08/24 _ _	121,92 mm	4.8"
PA256/10.16 or PA257/10.16 10,16 MM CENTER-TO-CENTER SPACING (.40")			
2	PA25_/10.16/2 _ _	15,24 mm	.6"
3	PA25_/10.16/3 _ _	25,40 mm	1.0"
4	PA25_/10.16/4 _ _	35,56 mm	1.4"
5	PA25_/10.16/5 _ _	45,72 mm	1.8"
6	PA25_/10.16/6 _ _	55,88 mm	2.2"
7	PA25_/10.16/7 _ _	66,04 mm	2.6"
8	PA25_/10.16/8 _ _	76,20 mm	3.0"
9	PA25_/10.16/9 _ _	86,36 mm	3.4"
10	PA25_/10.16/10 _ _	96,52 mm	3.8"
11	PA25_/10.16/11 _ _	106,68 mm	4.2"
12	PA25_/10.16/12 _ _	116.84 mm	4.6"

* To complete P/N insert 6 = PA256 module or 7 = PA257 header.

** For PA256 only insert **V** = Vertical, or **H** = Horizontal and for Vertical add "D" or "S" for wire entry preference.
For PA257 only insert **VA** = Vertical Open, **VC** = Vertical Closed, **HA** = Horizontal Open or **HC** = Horizontal Closed.

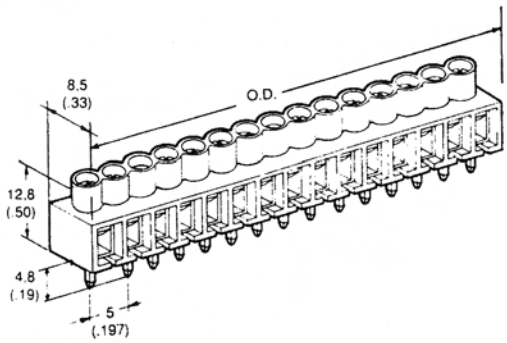
SERIES PA266/5, PA266/7.5 and PA266/10

5 mm, 7.5 mm and 10 mm
Center-to-Center Spacing



VARIATIONS

PA266



ENGINEERING SPECIFICATIONS

	PA266/5	PA266/7.5	PA266/10
No. of Terminals:	2 thru 24	2 thru 4	2 thru 12
Wire Range:	UL – No. 14-22 AWG, CSA – No. 14-22 AWG		
Voltage Rating:	VDE 0110 –380 volts		
	UL & CSA –300 volts		
Current Rating:	VDE 0110 –10A		
	UL & CSA –15A		

Housing:
Material: (Green) Polyamide 6
Flammability: UL94V-0
Continuous Use Temp.: 105°C

Metal Parts:		
	Pin (.8mm x 1mm)	Brass – Tin Plated
	Connector	Brass – Nickel Plated
	Pressure Pad	Stainless Steel
	M 3 x 5 Screw	Steel – Zinc Plated

Tightening Torque: 4.5 in. – lb.

FEATURES

- **EASY WIRE INSERTION AND REDUCED CONNECTION TIME** – Terminals are provided in the open position and wire entry is tapered for easy entry and faster assembly.
- **ELIMINATES BROKEN SOLDER CONNECTIONS** – Terminals design eliminates transmission of tightening torque to P.C. board while installing wires.
- **NO LOST OR MISSING SCREWS** – Screws are captive within housing.
- **BREAK RESISTANT AND FLAME RETARDANT** – Block molded in 94VO thermoplastic material.
- **SAFETY RECOGNITIONS** – UL recognized under file no. E62557, CSA certified under report no. LR39186-1, meets VDE 0110.

PA266/5 5 MM CENTER-TO-CENTER SPACING (.197")			
No. of Terminals	**Part Number**	**Overall Dimensions O.D.**	
2	PA266/5/2	11,5 mm	.45"
3	PA266/5/3	16,5 mm	.65"
4	PA266/5/4	21,5 mm	.85"
5	PA266/5/5	26,5 mm	1.05"
6	PA266/5/6	31,5 mm	1.24"
7	PA266/5/7	36,5 mm	1.44"
8	PA266/5/8	41,5 mm	1.64"
9	PA266/5/9	46,5 mm	1.83"
10	PA266/5/10	51,5 mm	2.03"
11	PA266/5/11	56,5 mm	2.23"
12	PA266/5/12	61,5 mm	2.42"
13	PA266/5/13	66,5 mm	2.62"
14	PA266/5/14	71,5 mm	2.81"
15	PA266/5/15	76,5 mm	3.01"
16	PA266/5/16	81,5 mm	3.21"
17	PA266/5/17	86,5 mm	3.41"
18	PA266/5/18	91,5 mm	3.60"
19	PA266/5/19	96,5 mm	3.80"
20	PA266/5/20	101,5 mm	4.00"
21	PA266/5/21	106,5 mm	4.19"
22	PA266/5/22	111,5 mm	4.39"
23	PA266/5/23	116,5 mm	4.59"
24	PA266/5/24	121,5 mm	4.74"
PA266/7.5 7.5 MM CENTER-TO-CENTER SPACING (.295")			
2	PA266/7.5/2	14,5 mm	.57"
3	PA266/7.5/3	22,0 mm	.87"
4	PA266/7.5/4	29,0 mm	1.14"
PA266/5 10 MM CENTER-TO-CENTER SPACING (.39")			
2	PA266/10/2	16,5 mm	.65"
3	PA266/10/3	26,5 mm	1.05"
4	PA266/10/4	36,5 mm	1.44"
5	PA266/10/5	46,5 mm	1.83"
6	PA266/10/6	56,5 mm	2.23"
7	PA266/10/7	66,5 mm	2.62"
8	PA266/10/8	76,5 mm	3.01"
9	PA266/10/9	86,5 mm	3.41"
10	PA266/10/10	96,5 mm	3.80"
11	PA266/10/11	106,5 mm	4.19"
12	PA256/10/12	116,5 mm	4.59"

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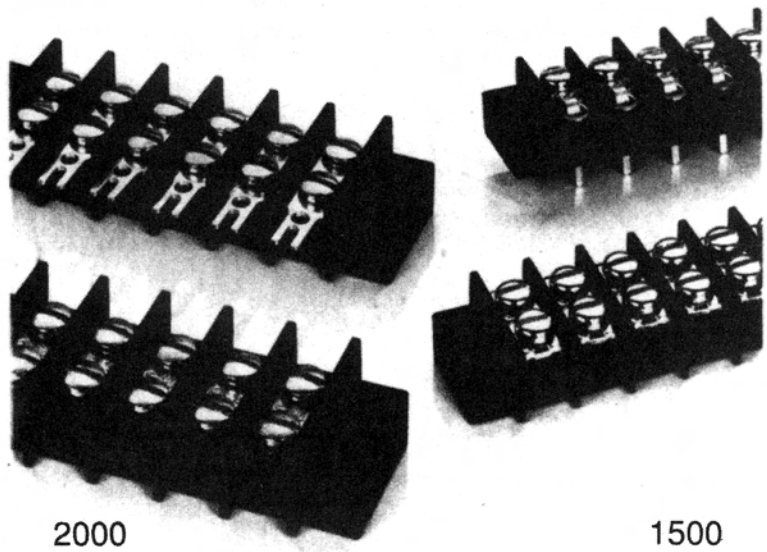
Series 1500/2000

1500 – 3/8" (9.52 mm)
Center-to-Center Spacing



2000 1500

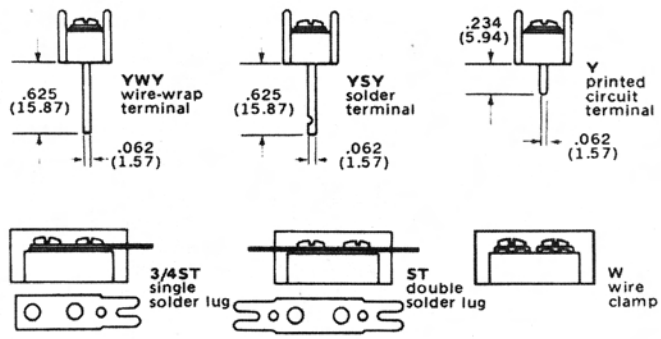
FEATURES

- **FLEXIBLE HI-TEMP THERMOPLASTIC TERMINAL BLOCKS** – Self-extinguishing types which resist breakage and other damage (conform to UL94V-0).
- **TERMINAL FLEXIBILITY** – Ideal for surface mount, sub-panel or chassis connections in electronic/electrical circuit applications. One thru 22 terminals. 1500 Series on 3/8 inch centers, 2000 Series on 7/16 inch center-to-center spacing.
- **ECONOMICAL CLOSED-BACK DESIGN** – No need for costly insulation strip.
- **BROAD WIRE RANGE** – No. 6-32 external twin screws, UL recognized for No. 22 AWG to No. 10AWG. Variations include double solder lug, single solder lug, wire wrap, solder pin and printed circuit pin.
- **UL/CSA ELECTRICAL RATINGS** – UL 30 amps/1100 volts RMS (1/3 breakdown voltage), CSA rating: 15 amps/300 volts (1500 Series), 20 amps/300 volts (2000 Series).
- **RECOGNITION AND LISTING** – Various terminal types are UL recognized and CSA certified.

Recognized under the Components Program of Underwriters Laboratories, Inc. Standard 1059, Guide No. XCFR2, File No. E62557.

Guide No. 184-N-90, Report No. LR39186-1.

VARIATIONS



INTERNAL TERMINAL DESIGNATIONS

1500/2000-Y	printed circuit board design with .062" x .031" solderable tin-plated pin
1500/2000-YSY	feed-thru solder pin
1500/2000-YWY	feed-thru wire wrap

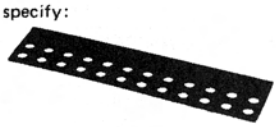
EXTERNAL TERMINAL DESIGNATIONS

1500/2000	screw terminal with No. 6-32 plated steel* screw accepting up to No. 10AWG wire
1500/2000-ST	solderable tin-plated double solder tab
1500/2000-3/4ST	solderable tin-plated single solder tab
1500/2000-W	wire clamp captivated to a No. 6-32 plated steel screw

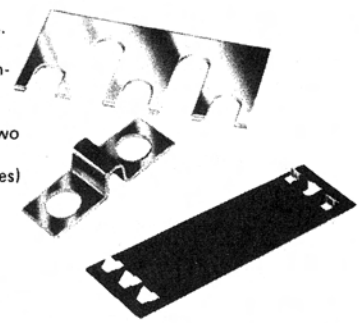
*Other materials available –

ACCESSORIES

1500/2000 – May be purchased blank or factory imprinted to customer requirement. To order, specify:
1500 Series –
Part No. 247A10-1 thru 22
2000 Series
Part No. 247A11-1 thru 22

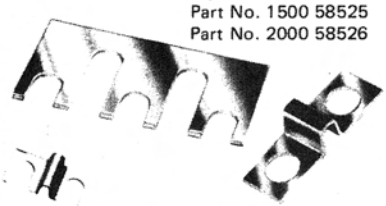


2000 – Plated brass in two styles. Type 267-A28 is designed to jump two adjacent terminals as it is channeled to cross over the barrier top. "Rooster comb" design of Type 267-A42 permits connections of two to 18 poles. To order, specify:
Part No. 267-A42 (Plus No. of poles)
Example: 267-A42-18



1500/2000 – Wire clamp captivated to No. 6-32 screw eliminates need for lugs. To order, specify:
Part No. 1500 58525
Part No. 2000 58526

1500 – Jumper is constructed of plated brass. "Rooster comb" design permits connections to two to 10 poles. To order, specify:
Part No. 278-A11 (plus no. of poles)
Example: 278-A11-10
Part No. 68240100 (Holes) or 68245100 (slots) (2-pole jumper for 1500 only)



Part No. 68245100 Part No. 68240100

1500/2000 – Rigid .030" thick self-extinguishing vinyl. Complete with spring clips for attaching to mounting positions. To order, specify:
1500 Series –
Part No. 247B24-1 thru 22 terminals
2000 Series –
Part No. 247B25-1 thru 22 terminals

2000 – 7/16" (11.11 mm)

ENGINEERING SPECIFICATIONS

Center-to-Center Spacing: 1500 Series – 3/8" (9.52 mm)
2000 Series – 7/16" (11.11 mm)
Wire Range: 2000 Series up to No. 10AWG. 1500 Series up to No. 12AWG. (CSA requires use of lugs on wire larger than No. 16AWG.
No. of Terminals: 1 thru 22
Voltage Rating: CSA – 300 volts
UL – 150 volts General Industrial
250 volts Commercial Appliance
300 volts Limited Energy Industrial
Current Rating: UL: 2000 Series 30 amps, 1500 Series 20 amps.
(CSA: 2000 Series 20 amps, 1500 Series 15 amps)

Tightening Torque:	**1500**	**2000**
Wire Binding Screw	12 in.-lb.	12 in.-lb.
Wire Clamp	12 in.-lb.	9 in.-lb.

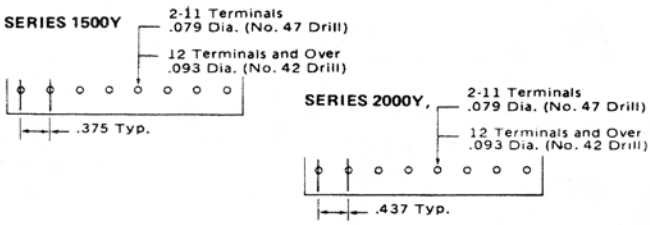
Housing:

Material	Polyphenylene Oxide
Continuous Use Temp. (UL Index)	110° C (230° F)
Flammability Rating	94V-0
Water Absorption (24 hrs. % wt. gain)	.06%
Chemical Resistance	Resistant to inorganic bases and acids.

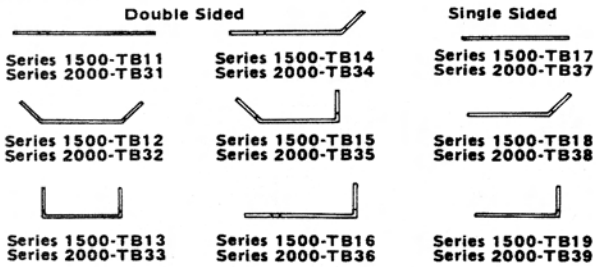
Breakdown Voltage	**1500**	**2000**
Terminal - Terminal	3,400V Typ.	4,400V Typ.
Terminal - Ground	7,300V Typ.	7,700V Typ.

NOTE: Specifications contained herein are subject to change without notice.

PC BOARD DRILLING DIMENSIONS



1500/2000 – Available with .187" x .020" quick-connect tabs for 1500 Series; .250" x .032" for 2000 Series. Nine styles . . . tin-plated brass tabs held in place by terminal screws. Up to six terminations per pole.
To order, specify:
1500 Series: Parts Nos. TB11-19
2000 Series: Parts Nos. TB31-39
Last digit of part number corresponds to previous style numbers.



HOW TO ORDER

Stock number 1500 is used for terminal blocks on 3/8" centers, and 2000 for terminals on 7/16" centers.

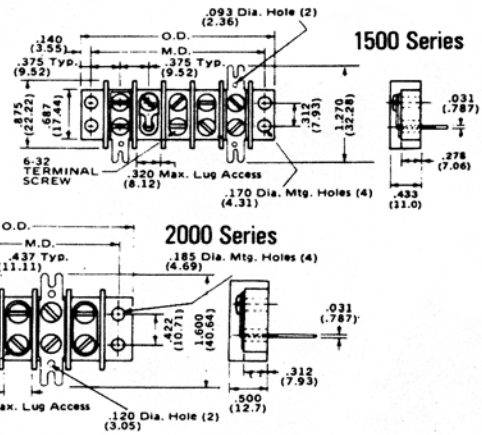
1500/2000 Series terminal blocks are ordered by listing a composite number made up of the model designation in which the last two digits indicate the number of poles required for the application. Example: A 1500 10-terminal block (3/8" centers) becomes stock number 1510; with (7/16" centers) 2010.

Suffixes are used as follows:

ST	denotes double solder lug	YSY	feed-thru solder pin
3/4ST	denotes single solder lug	YWY	feed-thru wire wrap
Y	denotes printed circuit pin	W	wire clamp

The 1510 described above, with double solder lug mounting on 3/8 inch centers thus converts to stock number 1510-ST. To specify quick-connect terminals, simply add the style number required.

DIMENSIONS

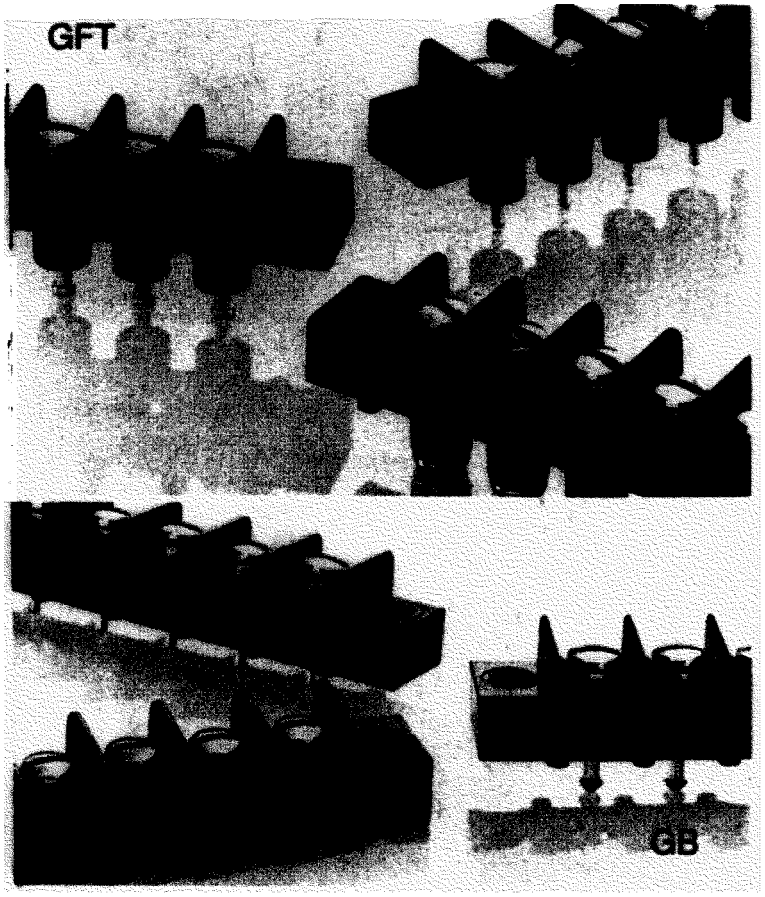


No. of Terminals	Mounting Dimensions		Overall Dimensions		Mounting Dimensions		Overall Dimensions	
	Inches	Metric (mm)	Inches	Metric (mm)	Inches	Metric (mm)	Inches	Metric (mm)
	SERIES 1500				SERIES 2000			
1	.750	19.05	1.030	26.16	.875	22.22	1.235	31.36
2	1.125	28.57	1.405	35.68	1.312	33.33	1.672	42.48
3	1.500	38.10	1.780	45.21	1.750	44.45	2.110	53.59
4	1.875	47.62	2.155	54.73	2.187	55.56	2.547	64.70
5	2.250	57.15	2.530	64.26	2.625	66.67	2.985	75.81
6	2.625	66.67	2.905	73.78	3.062	77.78	3.422	86.93
7	3.000	76.20	3.280	83.31	3.500	88.90	3.860	98.04
8	3.375	85.72	3.655	92.83	3.937	100.01	4.297	109.15
9	3.750	95.25	4.030	102.36	4.375	111.12	4.735	120.26
10	4.125	104.77	4.405	111.88	4.812	122.23	5.172	131.38
11	4.500	114.30	4.780	121.41	5.250	133.35	5.610	142.49
12	4.875	123.82	5.155	130.93	5.687	144.46	6.047	153.60
13	5.250	133.35	5.530	140.46	6.125	155.57	6.485	164.71
14	5.625	142.87	5.905	149.98	6.562	166.68	6.922	175.83
15	6.000	152.40	6.280	159.51	7.000	177.80	7.360	186.94
16	6.375	161.92	6.655	169.03	7.437	188.91	7.797	198.05
17	6.750	171.45	7.030	178.56	7.875	200.02	8.235	209.16
18	7.125	180.97	7.405	188.08	8.312	211.13	8.672	220.28
19	7.500	190.05	7.780	197.61	8.750	222.25	9.110	231.39
20	7.875	200.02	8.155	207.13	9.187	233.36	9.547	242.50
21	8.250	209.55	8.530	216.66	9.625	244.47	9.985	253.61
22	8.625	219.07	8.905	226.18	10.062	255.58	10.422	264.73

Dimensions shown are ± 0.030".

Series GFT/GB

7/16" (11.11 mm)
Center-to-Center Spacing



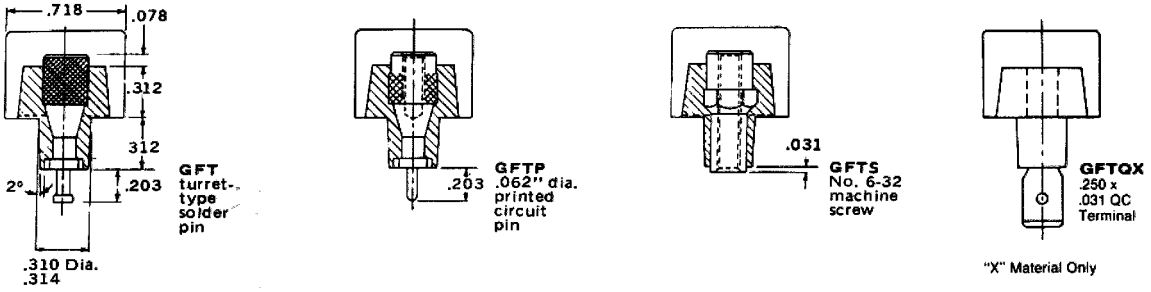
FEATURES

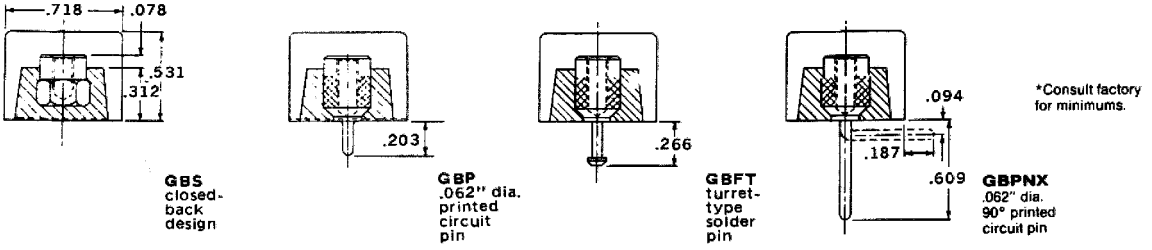
- **SUPERIOR CONSTRUCTION** – All terminals are molded in place with precision screw machined brass inserts which will not twist, virtually eliminating broken solder joints while providing a full mechanical thread system.
- **IDEAL FOR SUB-CHASSIS OR THRU-PANEL APPLICATION** – No costly insulation or mounting set-up since feed-thru insulators are an integral part of the moldings. Feature provides a full 1/4 inch terminal to ground clearance even thru 1/16 inch chassis.
- **DURABLE BASE MATERIAL** – Made of black thermo-set phenolic, or high-impact, break-resistant thermoplastic.
- **ELECTRICAL RATING** – 20 amps/300 volts.
- **COMPACT BARRIER-TYPE DESIGN** – Especially suited for electronic and control applications.
- **FEED-THRU, PRINTED CIRCUIT OR SURFACE CONNECTION** – One thru 26 terminals on 7/16 inch center-to-center spacing.
- **BROAD WIRE RANGE** – UL recognized for No. 22AWG to No. 12AWG, depending on type of external contact designated, with CSA requiring use of lugs on wire larger than No. 16AWG.
- **TERMINAL FLEXIBILITY** – External terminals available in three screw sizes with various internal terminal types.
- **RECOGNITION AND LISTING** – UL recognized and CSA certified.
- **METRIC SCREWS** – Available in GBPX and GFTX Series for export applications.

Recognized under the Components Program of Underwriters Laboratories, Inc. Standard 1059, Guide No. XCFR2, File No. E62557.

Guide No. 184-N-90, Report No. LR39186-1.

VARIATIONS





NOTE: Standard bend dimension shown. Other bend dimensions are available.

Series GFT/GB

ENGINEERING SPECIFICATIONS

Center-to-Center Spacing: 7/16" (11.11 mm)
Wire Range: No. 22AWG to No. 12AWG. (CSA requires use of lugs on wire larger than No. 16AWG.)
Number of Terminals: 1 thru 26
Voltage Rating: CSA – 300 volts
UL – *150 volts – General Industrial
**250 volts – Commercial Appliances
300 volts – Limited Energy Applications
600 volts – Limited Energy Applications
*GFT, GFTP, GFTS, GFTAL rated for 300 volts.
**GFTQ rated for 125 volts.
Tightening Torque:
Wire Binding Screw 9 in.-lb.
Wire Clamp 9 in.-lb.
Current Rating: 20 amps. UL and CSA.

Housing:	**Standard**	**"X" Grade**
Material	Phenolic	Polyphenylene Oxide
Continuous Use Temp. (UL Index	150° C (302° F)	110° C (230° F)
Flammability Rating	94V-0	94V-0
Water Absorption (24 hrs. % wt. gain)	.04%	.06%
Chemical Resistance	Slightly affected by 5% caustic solution	Resistant to inorganic bases and acids

Breakdown Voltage	**GFT**	**GB**
Terminal - Terminal	3,900V Typ.	5,000V Typ.
Terminal - Ground	5,800V Typ.	7,900V Typ.

NOTE: Specifications contained herein are subject to change without notice.

INTERNAL TERMINAL DESIGNATIONS

GFTP	printed circuit board design with .062" dia. tin-plated brass turret-type solder pin.
GFT	tin-plated brass turret-type solder pin.
GFTS	unplated brass insert. No. 6-32 plated steel screw.
GBS	unplated brass insert. Closed-back design which can be mounted on metal surface with no additional insulation required.
GBP	printed circuit board design with .062" dia. tin plated brass pin.
GBFT	tin-plated brass turret-type solder pin.
GFTQX	.250 x .031 tin-plated brass quick connect tab terminal.

EXTERNAL TERMINAL DESIGNATIONS

GBFT, GBP, GBS, GFT, GFTP	screw terminal with No. 6-32 plated steel* screw accepting up to No. 12AWG wire.
GBFTA, GBPA, GBSA, GFTA, GFTSA, GFTPA	screw terminal with No. 8-32 plated steel* screw accepting up to No. 12AWG wire.
GFTW, GBFTW, GBPW, GFTPW, GBSW, GFTSW	wire clamp captivated to a No. 6-32 plated steel screw accepting No. 20AWG to No. 12AWG.

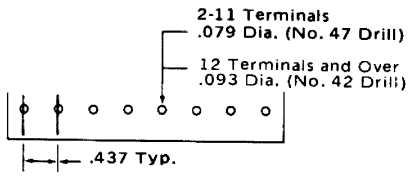
HOW TO ORDER

GB Series terminal blocks are ordered by listing a composite number made up of the model designation followed by the number of poles required for the application. Example: Type GBP 10-pole block becomes stock number GBP-10.

Suffixes are used as follows:

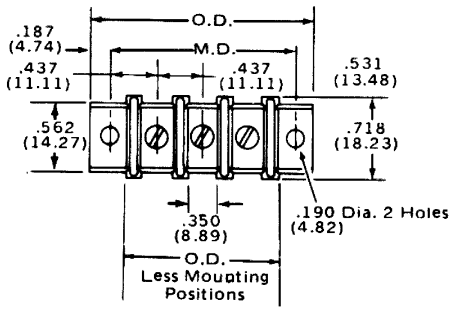
A	denotes model with No. 8-32 external screw terminal
W	denotes model with wire clamp replacing external screw terminal
C	denotes model less mounting positions
X	denotes model with thermoplastic molding
M	denotes model with metric screw (GBPX & GFTX only)

PC BOARD DRILLING DIMENSIONS



DIMENSIONS

NOTE: mm dim. are shown in parentheses



No. of Terminals	Mounting Dimensions		Overall Dimensions		Less Mounting Positions	
	Inches	Metric (mm)	Inches	Metric (mm)	Inches	Metric (mm)
1	.875	22.22	1.250	31.75	.562	14.28
2	1.312	33.33	1.687	42.86	1.000	25.40
3	1.750	44.45	2.125	53.97	1.437	36.51
4	2.187	55.56	2.562	65.08	1.875	47.62
5	2.625	66.67	3.000	76.20	2.312	58.73
6	3.062	77.78	3.437	87.31	2.750	69.85
7	3.500	88.90	3.875	98.42	3.187	80.96
8	3.937	100.01	4.312	109.53	3.625	92.07
9	4.375	111.12	4.750	120.65	4.062	103.18
10	4.812	122.23	5.187	131.76	4.500	114.30
11	5.250	133.35	5.625	142.87	4.937	125.41
12	5.687	144.46	6.062	153.98	5.375	136.52
13	6.125	155.57	6.500	165.10	5.812	147.63
14	6.562	166.68	6.937	176.21	6.250	158.75
15	7.000	177.80	7.375	187.32	6.687	169.86
16	7.437	188.91	7.812	198.43	7.125	180.97
17	7.875	200.02	8.250	209.55	7.562	192.08
18	8.312	211.13	8.687	220.66	8.000	203.20
19	8.750	222.25	9.125	231.77	8.437	214.31
20	9.187	233.36	9.562	242.88	8.875	225.42
21	9.625	244.47	10.000	254.00	9.312	236.53
22	10.062	255.58	10.437	265.11	9.750	247.65
23	10.500	266.70	10.875	276.22	10.187	258.76
24	10.937	277.81	11.312	287.33	10.625	269.87
25	11.375	288.92	11.750	298.45	11.062	280.98
26	11.812	300.03	12.187	309.56	11.500	292.10

Dimensions shown are ± 0.030".

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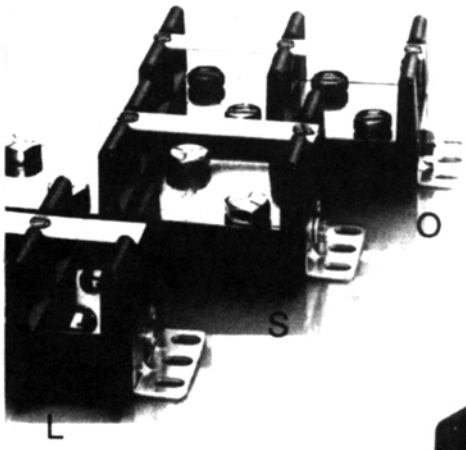
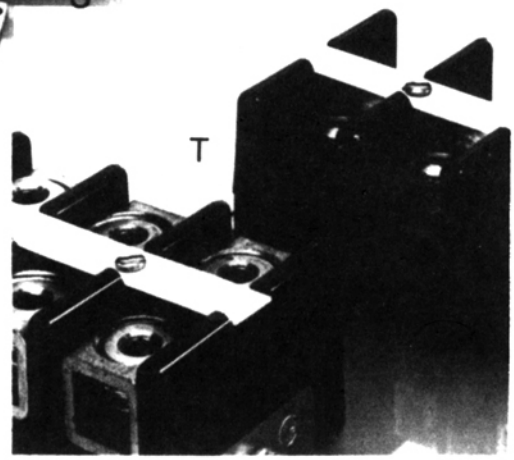
TYPES L, O, S, T and U





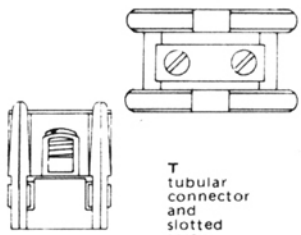
FEATURES

- **HEAVY LOAD TERMINATION FLEXIBILITY** – Designed for machine, switchboard and other heavy load terminations.
- **TUBULAR, HIGH PRESSURE SOLDERLESS CONNECTIONS** – Accommodates wire without lugging – tapped sidewalls for greater mechanical strength – electrolytically pure copper solderless connections provide 100% conductivity.
- **READILY ADAPTABLE TO SPECIAL APPLICATIONS** – Can be used for branch circuit termination with simple modification of standard terminal plate.
- **COMBINED STYLE DESIGN CAPABILITY** – All types can be combined with each other as well as with Types H and BT.
- **RATINGS AND WIRE SIZES TO MATCH HIGH CURRENT NEEDS** – Type L is rated at 100 amps/600 volts UL recognized for wire up to No. 1AWG. Type O: 125 amps/600 volts UL recognized for wire up to No. 1/0AWG. Type S: 225 amps/600 volts UL recognized for wire up to No. 4/0AWG. (Note UL requires the use of UL recognized lugs.)
- **HEAVY LOAD RATINGS AND WIRE SIZES** – Type T – rated 125 amps/600 volts – has headless slotted screw – UL recognized for No. 6AWG to No. 1/0AWG wire. Type U is rated 250 amps/600 volts and features headless socket screw. UL recognized for No. 6AWG to 250MCM wire.
- **RECOGNITION AND LISTING** – UL recognized and CSA certified.

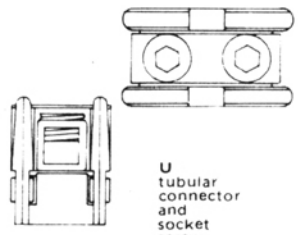
Recognized under the Components Program of Underwriters Laboratories, Inc. Standard 1059, Guide No. XCFR2, File No. E62557.

Guide No. 184-N-90, Report No. LR39186-1.

VARIATIONS



T
tubular connector and slotted screw



U
tubular connector and socket screw

L
terminal bar and 1/4" round-head screw, max. lug width – 27/32"

O
terminal bar and 5/16" slotted hex-head screw, max. lug width – 3/4"

S
terminal bar and 3/8" hex-head screw, Max. lug width – 1"

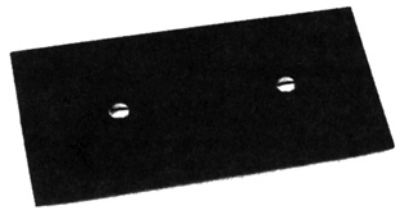
TERMINAL DESIGNATIONS

T	tubular copper with tapped sidewalls and headless slotted screw. Accepts wire from No. 6AWG to No. 1/0AWG.
U	tubular copper with tapped sidewalls and headless socket screw. Accepts wire from No. 6AWG to 250MCM.
L	nickel-plated brass terminal bar with 1/4" – 20 plated round-head steel screws. Accepts wire up to No. 1AWG.
O	nickel-plated brass terminal bar with 5/16" – 18 plated slotted hex-head steel screws. Accepts wire up to No. 1/0AWG.
S	nickel-plated brass terminal bar with 3/8" plated hex-head steel screws. Accepts wire up to No. 4/0AWG.

ACCESSORIES

Plain cover of 1/16" thick black bakelite is permanently positioned to block with two screws. Factory-assembled or customer-installed. To order, specify:

T – Part No. 268A157-1 thru 6 terminals
U – Part No. 268A157-1 thru 4 terminals
L – Part No. 268A158-1 thru 12 terminals
O – Part No. 268A159-1 thru 4 terminals
S – Part No. 268A160-1 thru 4 terminals



ENGINEERING SPECIFICATIONS

Wire Range: UL Recognized –
Type L – to No. 1AWG.
Type O – to No. 1/0AWG.
Type S – to No. 4/0AWG.
Type T – for No. 6AWG to No. 1/0AWG.
Type U – for No. 6AWG to 250MCM.

Number of Terminals: Type L: 1 thru 12 Type T: 1 thru 6
Type O: 1 thru 4 Type U: 1 thru 4
Type S: 1 thru 4

Voltage Rating: 600 volts. CSA and UL.

Tightening Torque: L – 50 in.-lb. T – 50 in.-lb.
O – 50 in.-lb. U – 275 in.-lb.
S – 200 in.-lb.

Current Rating: 100 amps (Type L); 125 amps (Type O); 225 amps (Type S); 125 amps (Type T); and 250 amps (Type U).

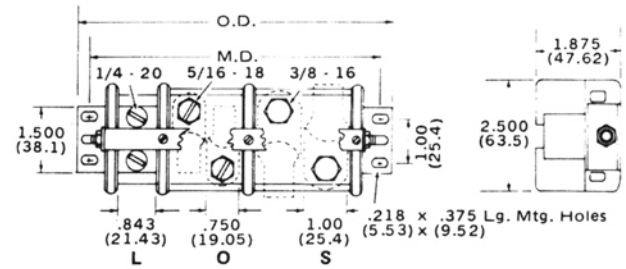
Housing:

Material	Phenolic	
Continuous Use Temp. (UL Index)	150° C (302° F)	
Flammability Rating	94V-1	
Water Absorption (24 hrs. % wt. gain)	0.5%	
Chemical Resistance	Resistant to most organic solvents.	
Breakdown Voltage	L	O
Terminal - Terminal	11,000V Typ.	10,900V Typ.
Terminal - Ground	9,700V Typ.	10,300V Typ.
	S	T
Terminal - Terminal	10,400V Typ.	11,000V Typ.
Terminal - Ground	10,500V Typ.	9,700V Typ.
	U	
Terminal - Terminal	9,000V Typ.	
Terminal - Ground	9,000V Typ.	

NOTE: Specifications contained herein are subject to change without notice.

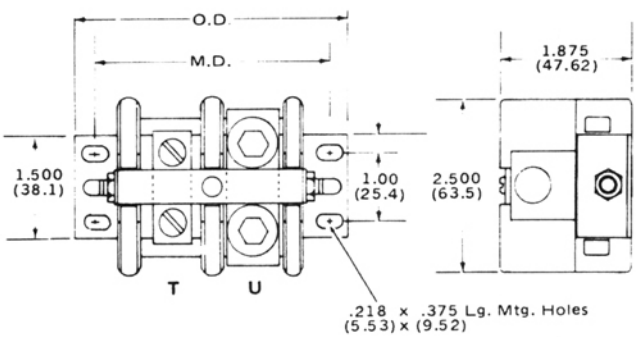
DIMENSIONS

NOTE: mm dim. are shown in parentheses



NOTE: Lugs are not furnished with blocks

NOTE: mm dim. are shown in parentheses



HOW TO ORDER

Types L, O, S, T and U terminal blocks are ordered by listing a composite number made up of the model designation followed by the number of terminals required for the application. Example: four-pole terminal block becomes stock number L-4, O-4, S-4, T-4 or U-4.

When ordering combinations of both types, the composite number is made up of both model designations followed by total number of poles and number of each type. A composite of two T terminals followed by two U terminals thus is converted to stock number TU-4 (2T, 2U). Combining these types with Types L, O, S, H and BT would follow the same ordering format. (Note – when combined with types H or BT a special adapter is required.)

No. of Terminals	Mounting Dimensions		Overall Dimensions	
	Inches	Metric (mm)	Inches	Metric (mm)
SERIES "L"				
1	2.183	55.46	2.683	68.16
2	3.342	84.88	3.842	97.58
3	4.500	114.31	5.000	127.01
4	5.659	143.73	6.159	156.43
5	6.817	173.16	7.317	185.86
6	7.976	202.59	8.476	215.29
7	9.134	232.01	9.634	244.71
8	10.293	261.44	10.793	274.14
9	11.451	290.86	11.951	303.56
10	12.610	320.29	13.110	332.99
11	13.768	349.71	14.268	362.41
12	14.927	379.14	15.427	391.84
SERIES "O"				
1	2.880	73.16	3.380	85.86
2	4.736	120.29	5.236	132.99
3	6.591	167.42	7.091	180.12
4	8.447	214.55	8.947	227.25
SERIES "S"				
1	3.440	87.38	3.940	100.08
2	5.856	148.74	6.356	161.44
3	8.271	210.09	8.771	222.79
4	10.687	271.44	11.187	284.14
SERIES "T" and "U"				
1	2.183	55.46	2.683	68.16
2	3.342	84.88	3.842	97.58
3	4.500	114.31	5.000	127.01
4	5.659	143.73	6.159	156.43
5	6.817	173.16	7.317	185.86
6	7.976	202.59	8.476	215.29

Dimensions shown are ±.030".

NOTE: Thru-bolt construction is amply strong for normal applications, but if excessive mechanical loads are expected, strain relief should be provided. Chart lists dimensions for up to six terminals per block, but longer lengths are available. Tie-down points are recommended for blocks exceeding four terminals for Type U and six terminals for Type T.

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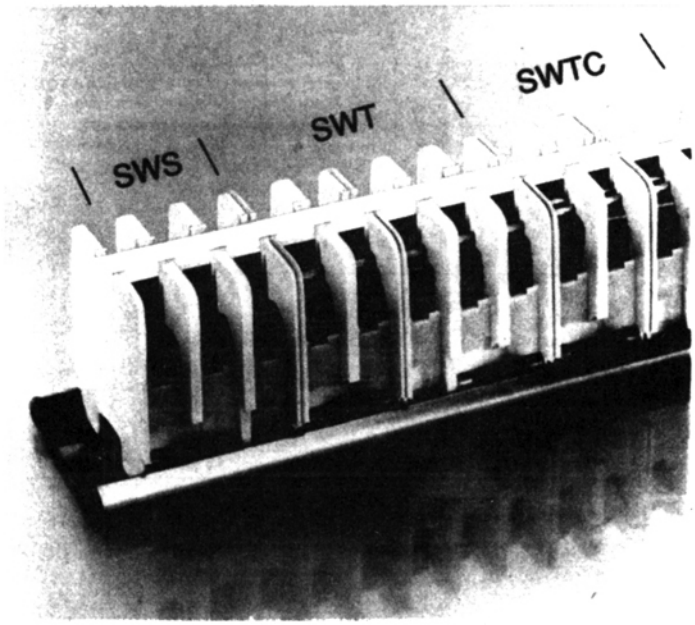
Series SW

3/8" (9.52 mm)
Center-to-Center Spacing



FEATURES

- **SNAP-IN TRACK-TYPE CONCEPT** – To assemble two or three-pole modules simultaneously simply insert one edge of the module under the flange of the track and with very little pressure snap into place. To remove, push center section of spring toward molding. Module will "pop free."
- **TOTAL MODULAR PRINCIPLE** – Two and three-pole nylon modules are complete with white fiber marking strips and retaining springs.
- **REDUCED INVENTORY** – No end moldings, mounting brackets or metal mounting clamps are needed for assembly.
- **COMPACT DESIGN** – 3/8" center-to-center terminals provide compact circuit density. 32 poles per foot – 192 per six foot length.
- **TERMINAL FLEXIBILITY** – Three different terminal variations are available. Ratings up to 50 amps/600 volts.
- **DURABLE MODULAR CONSTRUCTION** – All SW models feature moldings of break-resistant nylon.
- **WIRE SIZES** – Type SWS strap screw terminal with No. 6-32 screws. UL recognized for No. 22AWG to No. 14AWG. Type SWT tubular terminal with No. 10-32 screws. UL recognized for No. 16AWG to No. 8AWG. Type SWTC tubular clamp terminal with No. 10-32 screws. UL recognized for No. 22 AWG to No. 8AWG.
- **RECOGNITION AND LISTING** – UL recognized and CSA certified.

Recognized under the Components Program of Underwriters Laboratories, Inc. Standard 1059, Guide No. XCFR2,. File No. E62557.

Guide No. 184-N-90, Report No. LR39186-1.

VARIATIONS AND TERMINAL DESIGNATIONS

SWS

Brass terminal bars with No. 6-32 terminal screws. Accepts wire up to No. 14AWG with CSA requiring use of lugs for wires larger than No. 16AWG.

SWT

Solderless electro-tinned tubular connector with No. 10-32 terminal screws. Accepts wire from No. 16AWG to No. 8AWG.

SWTC

Solderless electro-tinned tubular connector with No. 10-32 terminal screws captivated by traveling pressure pad. Accepts wire from No. 22AWG to No. 8AWG.

NOTE: All variations as illustrated above available in two or three terminal modules only.

ACCESSORIES

White fiber marking strip available in two or three-pole lengths or in pre-punched 100-ft. rolls.
To order, specify:
Part No. 275A8 (2PSW)
Part No. 275A9 (3PSW)
100-ft. Rolls – Part No. 20SW
Pins – Part No. 21SW

Insulated phosphor-bronze connector clamps to over head of No. 10-32 terminal screws. Test lead and test jumper are constructed from 6' length of No. 14AWG wire. Test lead is fitted with connector at one end only, while test jumper has connectors at both ends. Connectors eliminate use of alligator clips and are rated 50 amps intermittently and 15 amps continuously
18W (test lead)

Brass jumper connects 12 consecutive terminals and can be cut for shorter applications.

Part No. 275-A14.

Type 275-A16 is designed to connect two adjacent terminals.

Series SW

4

TERMINAL BLOCKS

ENGINEERING SPECIFICATIONS

Center-to-Center Spacing: 3/8" (9.52 mm)
Wire Range: SWS – No. 22AWG to No. 14AWG (CSA requires lugs for wire over No. 16AWG); SWT – No. 16AWG to No. 8AWG; SWTC – No. 22AWG to No. 8AWG.
Number of Terminals: 2 thru 192
Voltage Rating: CSA and UL – 600 volts
Tightening Torque:
Type SWS 12 in.-lb.
Type SWT 25 in.-lb.
Type SWTC 25 in.-lb.
Current Rating: SWS – 25 amps; SWT and SWTC – 50 amps.
Housing:

Material	Polyamide
Continuous Use Temp. (UL Index)	125° C (257° F)
Flammability Rating	94V-2
Water Absorption (24 hrs. % wt. gain)	1.5%
Chemical Resistance	Outstanding resistance to both organic and inorganic substances.

Breakdown Voltage	**SWS**	**SWT**	**SWTC**
Terminal - Terminal	7,000V Typ.	4,700V Typ.	4,900V Typ.
Terminal - Ground	8,400V Typ.	8,200V Typ.	9,300V Typ.

NOTE: Specifications contained herein are subject to change without notice.

HOW TO ORDER

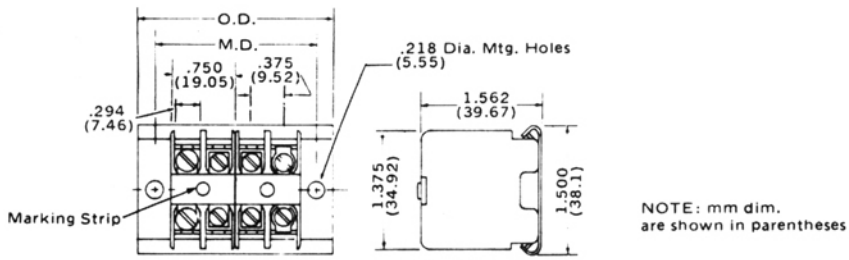
SW Series modules are ordered by listing a composite number made up of the model designation **preceded** by the number of poles per module.

Prefixes are used as follows:

2P denotes 2-pole module
3P denotes 3-pole module

Example: A two-pole SWT module becomes stock number 2PSWT; a three-pole module becomes 3PSWT.

DIMENSIONS



NOTE: mm dim. are shown in parentheses

No. of Terminals	Mounting Dimensions		Overall Dimensions	
	Inches	Metric (mm)	Inches	Metric (mm)
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2	1.125	28.57	1.437	36.51
3	1.500	38.10	1.812	46.03
4	1.875	47.62	2.187	55.56
5	2.250	57.15	2.562	65.08
6	2.625	66.67	2.937	74.61
7	3.000	76.20	3.312	84.13
8	3.375	85.72	3.687	93.66
9	3.750	95.25	4.062	103.18
10	4.125	104.77	4.437	112.71
11	4.500	114.30	4.812	122.23
12	4.875	123.82	5.187	131.76
13	5.250	133.35	5.562	141.28
14	5.625	142.87	5.937	150.81
15	6.000	152.40	6.312	160.33
16	6.375	161.92	6.687	169.86
17	6.750	171.45	7.062	179.38
18	7.125	180.97	7.437	188.91

No. of Terminals	Mounting Dimensions		Overall Dimensions	
	Inches	Metric (mm)	Inches	Metric (mm)
19	7.500	190.50	7.812	198.43
20	7.875	200.02	8.187	207.96
21	8.250	209.55	8.562	217.48
22	8.625	219.07	8.937	227.01
23	9.000	228.60	9.312	236.53
24	9.375	238.12	9.687	246.06
25	9.750	247.65	10.062	255.58
26	10.125	257.17	10.437	265.11
27	10.500	266.70	10.812	274.63
28	10.875	276.22	11.187	284.16
29	11.250	285.75	11.562	293.68
30	11.625	295.27	11.937	303.21
31	12.000	304.80	12.312	312.73
32	12.375	314.32	12.687	322.26
33	12.750	323.85	13.062	331.78
34	13.125	333.37	13.437	341.31
35	13.500	342.90	13.812	350.83
36	13.875	352.42	14.187	360.36

No. of Terminals	Mounting Dimensions		Overall Dimensions	
	Inches	Metric (mm)	Inches	Metric (mm)
37	14.250	361.95	14.562	369.88
38	14.625	371.47	14.937	379.41
39	15.000	381.00	15.312	388.93
40	15.375	390.52	15.687	398.46
41	15.750	400.05	16.062	407.98
42	16.125	409.57	16.437	417.51
43	16.500	419.10	16.812	427.03
44	16.875	428.62	17.187	436.56
45	17.250	438.15	17.562	446.08
46	17.625	447.67	17.937	455.61
47	18.000	457.20	18.312	465.13
48	18.375	466.72	18.687	474.66
49	18.750	476.25	19.062	484.18
50	19.125	485.77	19.437	493.71
51	19.500	495.30	19.812	503.23
52	19.875	504.82	20.187	512.76

To determine mounting and overall dimensions of length beyond 52 terminals, add .375 inches per terminal.