

Terminal Block Accessories

Double Row - Top Mounted Covers/Marking Strips

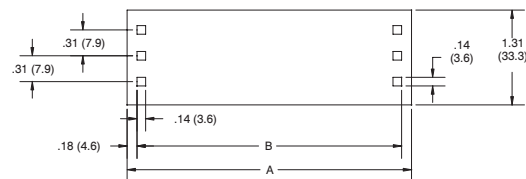
Specifications:

- White vinyl material, 0.03" thick
- Two nylon spring clips for mounting provided
- Marking strips: printed on center line with letters or numbers for circuit identification
- Covers: printed on top, bottom or center line with letters or numbers for circuit identification
- Printing character size is 1/8 inch
- Unless otherwise specified, the marking goes down the center of the cover for print styles 01A, 01B, 01C, 01D
- Marking goes down the 2 sides of the cover for print styles 07A, 07B, 07C, 07D

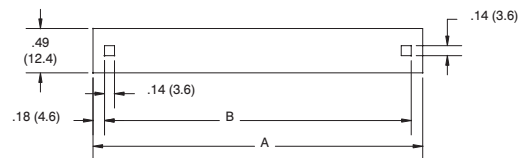


	Series 1		Series 2		Series 3	
	100/670A GP, 600 GP, 600A GP, 670A RZ		200/671 GP, 601 GP, 621 RZ, 671 RZ		300/672GP 602 GP, 672 RZ	
# of Terminals	A	B	A	B	A	B
1	0.91	0.55	1.01	0.65	1.16	0.80
2	1.29	0.93	1.44	1.08	1.73	1.37
3	1.66	1.30	1.88	1.52	2.29	1.93
4	2.04	1.68	2.32	1.96	2.85	2.49
5	2.41	2.05	2.76	2.40	3.42	3.06
6	2.79	2.43	3.19	2.83	3.98	3.62
7	3.16	2.80	3.63	3.27	4.54	4.18
8	3.56	3.20	4.07	3.71	5.10	4.74
9	3.91	3.55	4.50	4.14	5.67	5.31
10	4.29	3.93	4.94	4.58	6.23	5.87
11	4.66	4.30	5.38	5.02	6.79	6.43
12	5.04	4.68	5.81	5.45	7.36	7.00
13	5.41	5.05	6.25	5.89	7.92	7.56
14	5.79	5.43	6.69	6.33	8.48	8.12
15	6.16	5.80	7.13	6.77	9.05	8.69
16	6.54	6.18	7.56	7.20	9.61	9.25
17	6.91	6.55	8.00	7.64	10.17	9.81
18	7.29	6.93	8.44	8.08	10.73	10.37
19	7.66	7.30	8.87	8.51	11.30	10.94
20	8.04	7.68	9.31	8.95	11.86	11.50
21	8.41	8.05	9.75	9.39	12.42	12.06
22	8.79	8.43	10.18	9.82	12.99	12.63
23	9.16	8.80	10.62	10.26	13.55	13.19
24	9.54	9.18	11.06	10.70	14.11	13.75
25	9.91	9.55	11.50	11.14	--	--
26	10.29	9.93	11.93	11.57	--	--
27	10.66	10.30	12.37	12.01	--	--
28	11.04	10.68	12.81	12.45	--	--
29	11.41	11.05	13.24	12.88	--	--
30	11.79	11.43	13.68	13.32	--	--
31	12.16	11.80	--	--	--	--
32	12.54	12.18	--	--	--	--
33	12.91	12.55	--	--	--	--
34	13.29	12.93	--	--	--	--
35	13.66	13.30	--	--	--	--
36	14.04	13.68	--	--	--	--

COVER



MARKING STRIP



Print Styles

01A	1 2 3 4 5 6 7	01C	1 2 3 4 5 6 7
01B	7 6 5 4 3 2 1	01D	7 6 5 4 3 2 1
07A	1 2 3 4 5 6 7 7 6 5 4 3 2 1	07C	1 2 3 4 5 6 7 1 2 3 4 5 6 7
07B	7 6 5 4 3 2 1 1 2 3 4 5 6 7	07D	7 6 5 4 3 2 1 7 6 5 4 3 2 1

Ordering Codes

COVER	SERIES	NO. OF TERMINALS	PRINT STYLE
CW	2	05*	01A
CB (Black) CW (White) CC (Clear)	1/2/3 or 621		
MARKING STRIP	SERIES	NO. OF TERMINALS	PRINT STYLE
SW	2	05*	01A
SW (White)	1/2/3 or 621		Print styles 07A/B/C/D not available

Terminal Block Accessories

Marking and Insulator Strips; Sub-Mounted - Single Row & Double Row

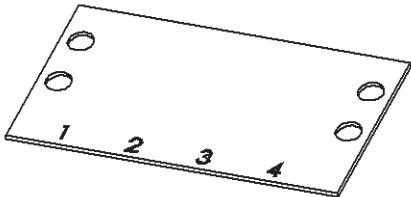
Marking strips serve as insulation between terminal blocks and chassis, as well as providing a marking surface for terminal identification. When specified, they can be printed to show terminal designations by numbers, letters, symbols or any combination thereof. Insulator strips offer the same properties, but do not provide space for terminal identification. Both marking and insulator strips can be supplied pre-mounted on the back of each block thereby simplifying assembly and inventory control.

Order Information:
FEED-THRU STYLE: For feed-thru terminal blocks, see styles 2, 3, 5, 6, 8, & 9 on page 114. Insert applicable feed-thru style designation in ordering code, i.e. Y, YSY, XY, 1904, 1921, 2000, 2004, 2020, 2021, 2104, 2120, 3000.

AVAILABILITY: Marking and insulator strips are available to fit most Terminal Blocks. See SERIES reference numbers on pages 113-114 for a complete listing. If not listed, consult Customer Service for availability. Designate appropriate prefix (MS for marking strips or IS for insulator strip) in front of the SERIES number when ordering. Available materials: XP (general purpose laminate), XXXPFR (flame retardant), GME (glass cloth melamine), GEE (glass cloth epoxy).

Ordering Code:

Descriptions:	Strip Type	Series	Material	Feed Thru (if applicable)	Number of Terminals	Print Style
Example:	MS	671	XP	Y	16	01A
	MS = Marking Strip	410	XP	Y	---	See
	IS = Insulator Strip	411	XXPFR	(Blank)		Printing
		599 (799)	GME			Style
		600 (800)	GEE			Selection
		601 (801)				
		602 (802)				
		603				
		604				
		605				
		621				
		670 (100)				
		671 (200)				
		672 (300)				
		699 (899)				
		812 (912)				



MS-xxx-XP-04-01A

Terminal Block Accessories

Marking Strip Dimensions - Double & Single Row

Series	Print Style	C*	D	E	F	X (dia)	Text Height	Figure
410	1-6	0.75	0.25	0.19	0.12	0.13	0.06	1
	7, 8, 9	1.13		0.44				
411	1, 2, 4, 5	0.56	n/a	0.19	0.13	0.13	0.06	2
	7, 8	0.88		0.44				
599 (799)	1, 2, 4, 5	0.81	n/a	0.28	0.14	0.16	0.13	2
	7, 8	1.13		0.56				
600 (800)	1-6	1.13	0.31	0.29	0.14	0.16	0.13	1
	7, 8, 9	1.38		0.53				
601 (801)	1-6	1.31	0.42	0.34	0.16	0.18	0.13	1
	7, 8, 9	1.50		0.55				
602 (802)	1-6	1.50	0.50	0.41	0.20	0.21	0.13	1
	7, 8, 9	1.75		0.63				
603	1-6	1.88	0.63	0.59	0.22	0.23	0.13	1
	7, 8, 9	2.13		0.75				
604	1, 4	2.13	0.75	0.63	0.27	0.23	0.13	1
	7	2.50		0.88				
605	1, 4	2.69	0.88	0.81	0.31	0.27	0.13	1
	7	2.81		0.97				
621	1, 4	1.88	0.42	0.51	0.16	0.18	0.13	1
670 (100)	1-6	1.19	0.31	0.28	0.14	0.16	0.13	1
	7, 8, 9	1.50		0.59				
671 (200)	1-6	1.50	0.42	0.34	0.16	0.18	0.13	1
	7, 8, 9	1.75		0.67				
672 (300)	1-6	1.63	0.50	0.41	0.20	0.21	0.13	1
	7, 8, 9	1.94		0.72				
699 (899)	1, 2, 4, 5	0.88	n/a	0.56	0.16	0.18	0.13	2
	7, 8	1.13		0.34				
812 (912)	1, 2, 4, 5	0.94	n/a	0.37	0.20	0.21	0.06	2
	7, 8	1.31		0.66			0.13	

Figure-1

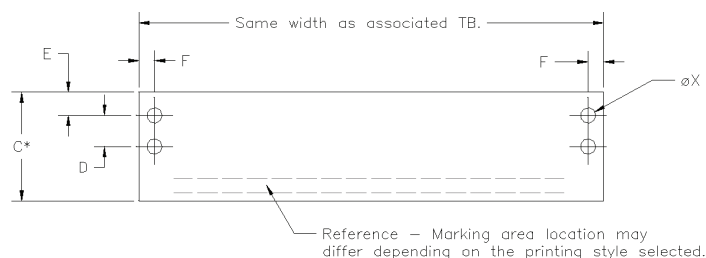
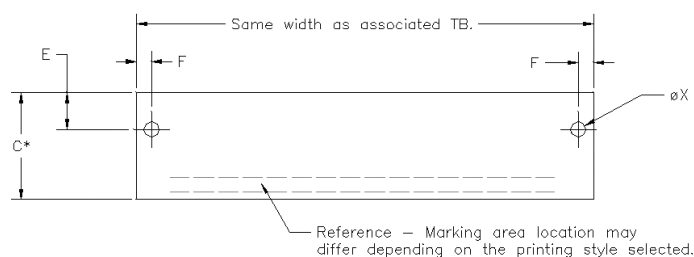


Figure-2



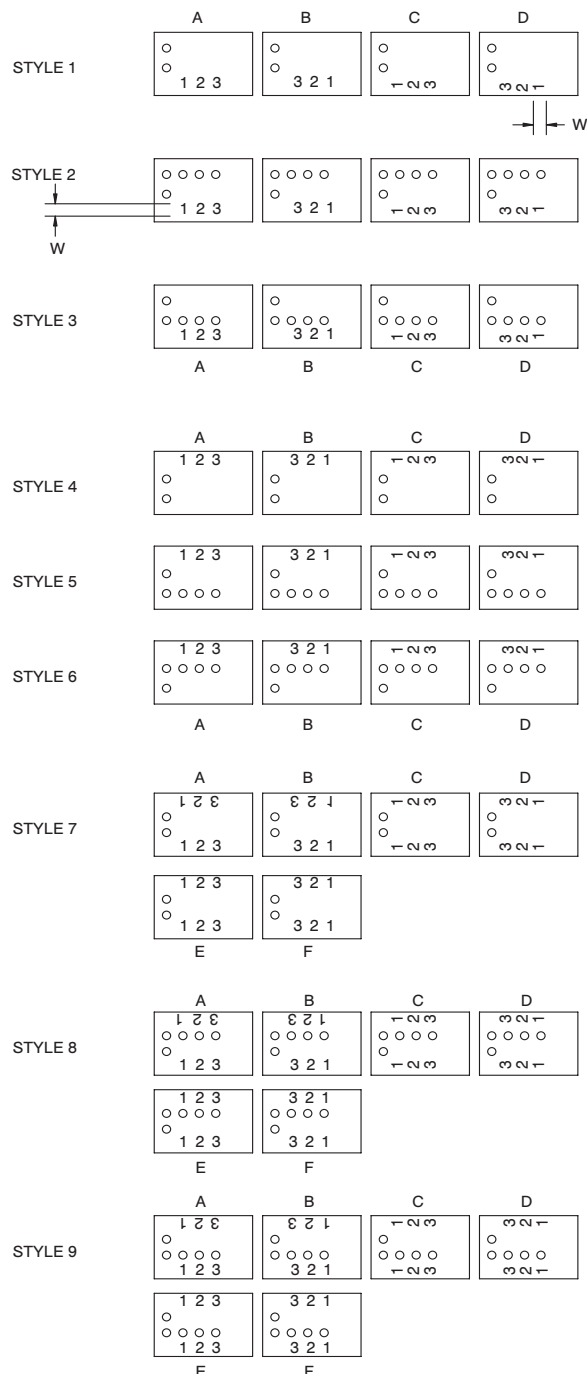
Terminal Block Accessories

Marking Strip Printing Styles - Double & Single Row

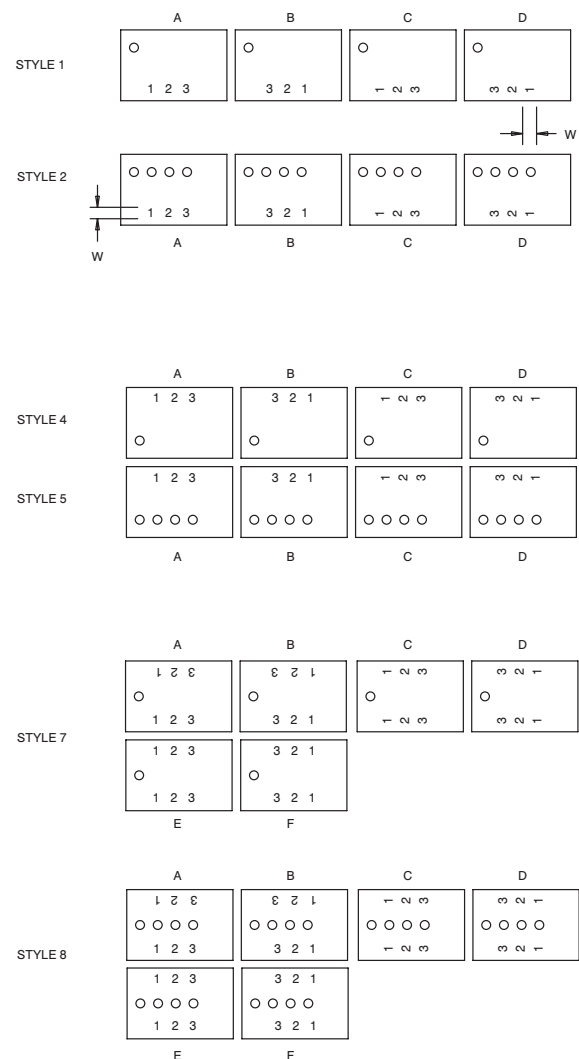
Printing:

- Maximum number of characters is two.
- If unprinted marking strips are desired, insert the letter "X" in the print style order code.
- Printing color is black on white surfaces, and silver on black surfaces.
- Fungus proof coatings can be supplied per request per MIL-V-173A. State on order:
"Coat after printing with MIL-V-173A varnish."

Double Row



Single Row



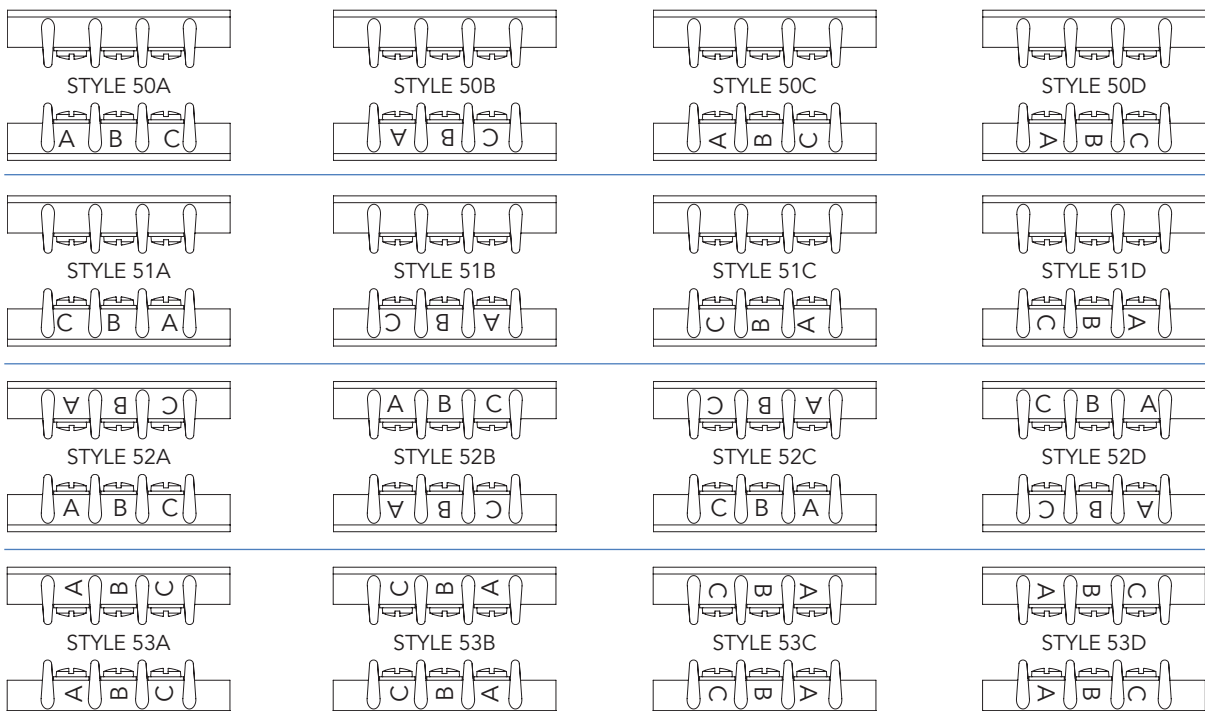
Terminal Block Accessories

Terminal Block Printing

Numeric Print Styles



Alpha Print Styles



Terminal Block Accessories

Kliptite (Quick Connect) - Single Row

Specifications:

Kliptite (Quick Connect) accept standard female wire terminals. These Kliptites are ideal for applications that require a positive, yet quick disconnect termination. Kliptites are assembled to the block with screws or, in some applications, riveted to the block.

Kliptites are available in 0°, 45° or 90° bends; one side or two side. Material: Brass; Finish: Tin

Screw Construction	Rivet Construction	Tab Width	Tab Thickness	(2) 0° tabs	(2) 45° tabs	(2) 90° tabs	(1) 0° tab	(1) 45° tab	(1) 90° tab
411 Series		0.110	0.020	KT10	KT11	KT12	KT16	KT17	KT18
599 Series	799 Series	0.187	0.020	KT28	KT29	KT30	KT34	KT35	KT36
699 Series	899 Series	0.250	0.032	KT46	KT47	KT48	KT52	KT53	KT54
812 Series	912 Series	0.250	0.032	KT73	KT74	KT75	KT79	KT80	KT81
1690 Series ¹		0.250	0.032	KT46	KT47	KT48	KT52	KT53	KT54
2590 Series ²		0.187	0.020	KT28	KT29	KT30	KT34	KT35	KT36
2690 Series ³		0.250	0.032	KT46	KT47	KT48	KT52	KT53	KT54

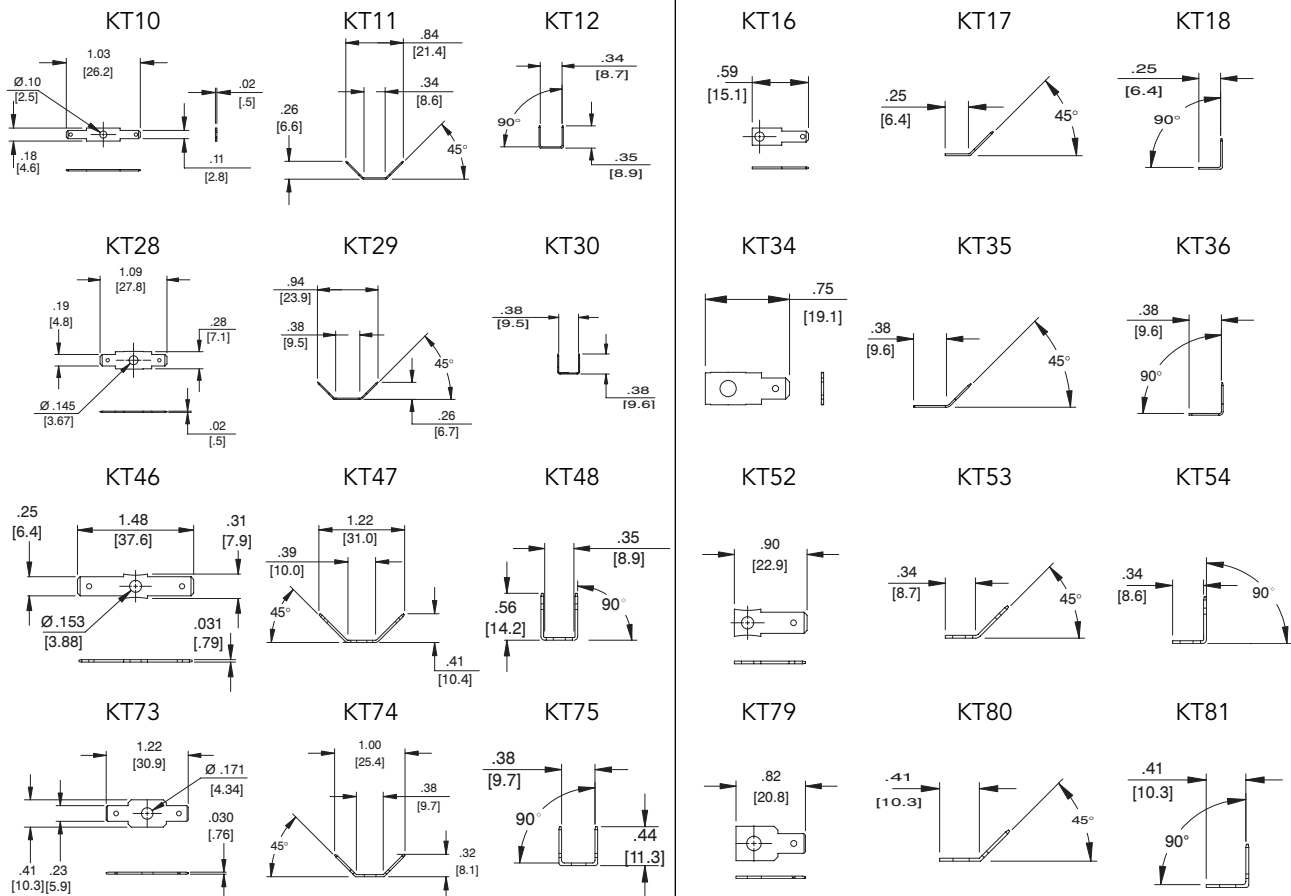
1) 1690 Series insulated feed-thru blocks use the 699 Series Kliptites

2) 2590 Series use the 599 Series Kliptites

3) 2690 Series PC block use the 699 Kliptites

TWO SIDE TABS

ONE SIDE TABS



Terminal Block Accessories

Kliptite (Quick Connect) - Double Row

Series	Rivet Construction	Tab Width	Tab Thickness	(2) 0° tabs	(2) 45° tabs	(2) 90° tabs	(1) 0° tab	(1) 45° tab	(1) 90° tab
400		0.250	0.032	KT67	KT68	KT69	KT64	KT65	KT66
600 GP (600A)		0.187	0.020	KT19	KT20	KT21	KT25	KT26	KT27
601		0.250	0.032	KT37	KT38	KT39	KT43	KT44	KT45
602		0.250	0.032	KT55	KT56	KT57	KT61	KT62	KT63
603		0.250	0.032	KT67	KT68	KT69	KT64	KT65	KT66
621 RZ ⁵		0.250	0.032	KT37	KT38	KT39	KT43	KT44	KT45
670A GP (100)		0.187	0.020	KT19	KT20	KT21	KT25	KT26	KT27
670A RZ Series ⁴	801 Series	0.187	0.020	KT19	KT20	KT21	KT25	KT26	KT27
671 GP (200)	802 Series	0.250	0.032	KT37	KT38	KT39	KT43	KT44	KT45
671 RZ Series ⁵		0.250	0.032	KT37	KT38	KT39	KT43	KT44	KT45
672 GP (300)		0.250	0.032	KT55	KT56	KT57	KT61	KT62	KT63
672 RZ Series ⁶		0.250	0.032	KT55	KT56	KT57	KT61	KT62	KT63

4) 100, 670A GP, 670A RZ Series use the 600 Series Kliptites

5) 200, 671 GP, 671 RZ, 621 RZ Series use the 601 Series Kliptites

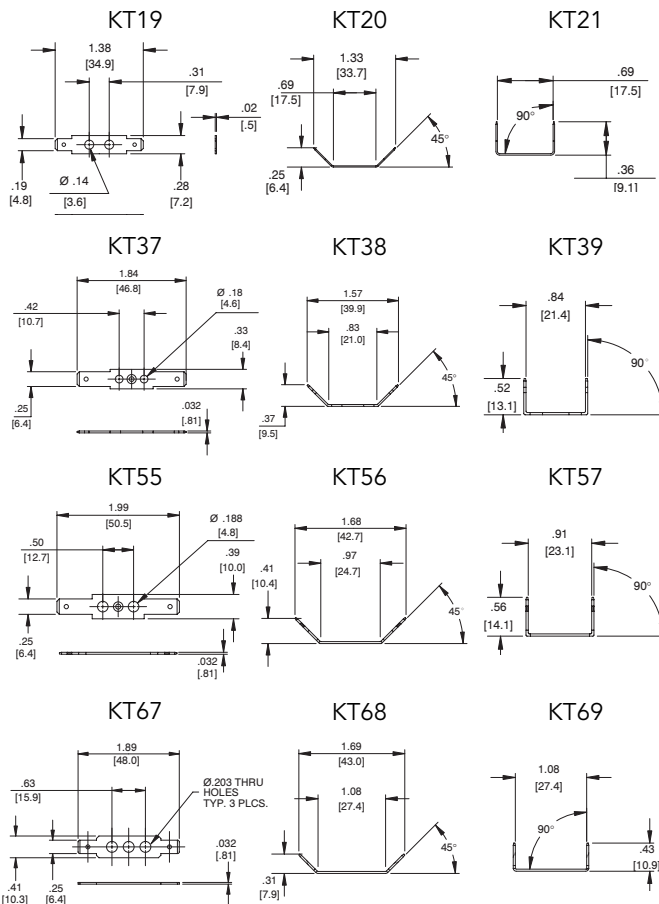
6) 300, 672 GP, 672 RZ Series use the 602 Series Kliptites

MSP Catalog Designations:

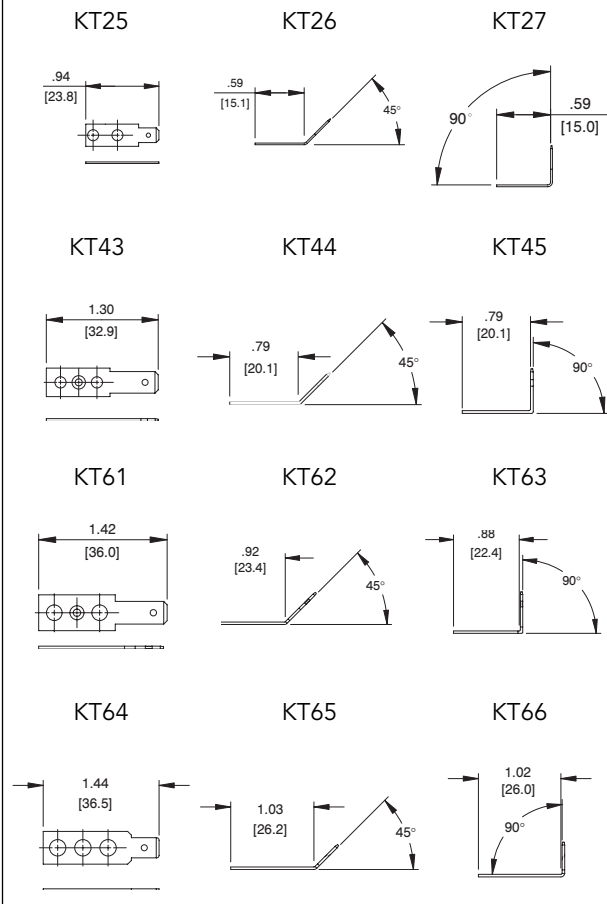
2-SIDE TABS: F1 (0°), F2 (45°), F3 (90°)

1-SIDE TABS: HF1 (0°), HF2 (45°), HF3 (90°)

TWO SIDE TABS



ONE SIDE TABS



Terminal Block Accessories

J & JS Jumpers

Catalog #	A	B	C	D	E	F	G	H	J	K
J 410/J 411	0.41	0.25	0.19	0.09	0.10	0.04	0.010	0.094	0.08	NA
J 600	0.62	0.38	0.25	0.12	0.16	0.04	0.015	0.156	0.08	NA
J 601	0.71	0.45	0.31	0.15	0.19	0.06	0.015	0.166	0.11	NA
J 602	0.91	0.56	0.37	0.18	0.27	0.08	0.015	0.190	0.16	NA
J 603	1.13	0.69	0.43	0.21	0.25	0.12	0.031	0.201	0.24	NA
J 604	1.38	0.88	0.50	0.25	0.35	0.15	0.035	0.234	0.32	NA
J 605	1.75	1.13	0.62	0.31	0.39	0.24	0.035	0.266	0.54	NA
J 621	0.69	0.44	0.30	0.17	0.38	0.07	0.015	0.141	0.11	0.14
JS 600	0.62	0.38	0.25	0.12	0.16	0.04	0.015	0.156	0.08	0.16
JS 601	0.71	0.45	0.31	0.15	0.19	0.06	0.015	0.166	0.11	0.17
JS 602	0.91	0.56	0.37	0.18	0.27	0.08	0.015	0.190	0.16	0.14

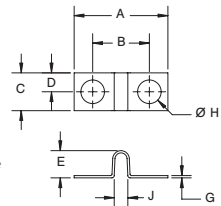
MSP Catalog Designations:

J 600 = LL 100
J 601 = LL 200
J 602 = LL 300
J 603 = LL 400

J Type Jumper

Material: Brass
Finish: Nickel Plate

JS Type Jumper
(per 55164/28B)

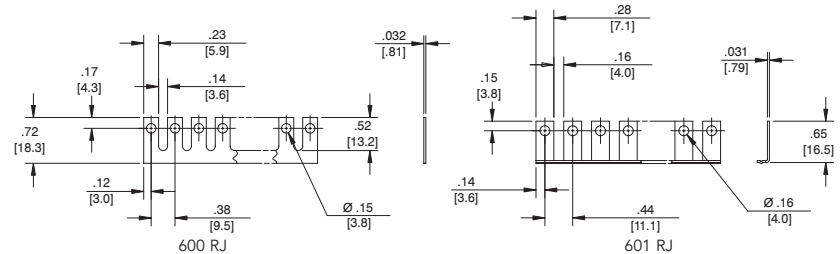


mm = dim X 25.4

NOTE 1: These parts are not necessarily supplied flat. The functioning of the part, however, will not be interfered.

NOTE 2: All dimensions are applicable after the bus (jumper) is torqued down into the associate terminal board.

RJ Type Jumpers

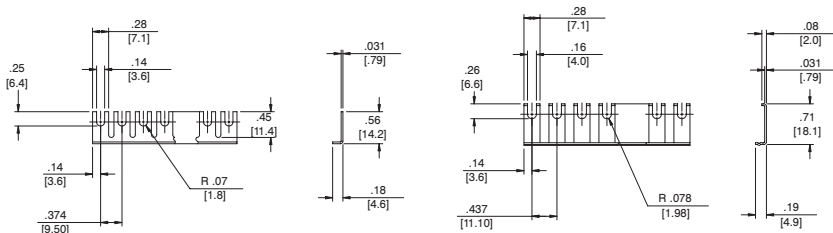


Material: Brass
Finish: Nickel Plate

Max # of sections = 24
Note: 670A RZ, 599 Series, use 600 RJ

Max # of sections = 24

RJS Type Jumpers

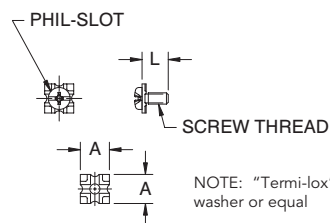


Material: Brass
Finish: Nickel Plate

Max # of sections = 24
Note: 670A RZ, 599 Series, use 600 RJ

Max # of sections = 24

Wire Clamp

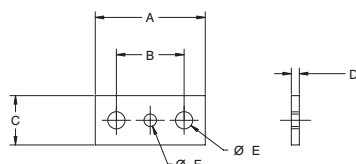


NOTE: "Termi-lox" washer or equal

Catalog #	Material	Finish	Screw Thread	L	A
3786	Steel	Nickel	8-32 UNC	0.38	0.41
3765			6-32 UNC	0.31	0.33
3780	Brass	Nickel	8-32 UNC	0.38	0.41
3760			6-32 UNC	0.31	0.33
3860	Brass	Nickel	6-32 UNC	0.30	0.29
3865	Steel	Nickel	6-32 UNC	0.30	0.29

mm = dim X 25.4

Straddle Plate



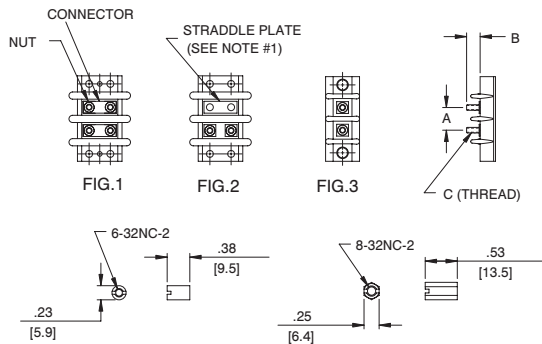
Catalog #	A	B	C	D	E	F	Material	Finish
SPB 600	0.56	0.31	0.30	0.032	0.144	N/A	Brass	Tin
SPB 601	0.71	0.42	0.30	0.031	0.148	N/A	Brass	Nickel
SPB 602	0.87	0.50	0.40	0.032	0.189	N/A	Brass	Nickel
SPB 603	1.03	0.62	0.45	0.063	0.190	0.143	Brass	Tin
SPB 604	1.21	0.75	0.54	0.087	0.187	0.138	Brass	Tin
SPB 605	1.46	0.87	0.63	0.116	0.220	0.138	Brass	Nickel

mm = dim X 25.4

Terminal Block Accessories

Stud and Turret Terminal Blocks

Threaded Stud



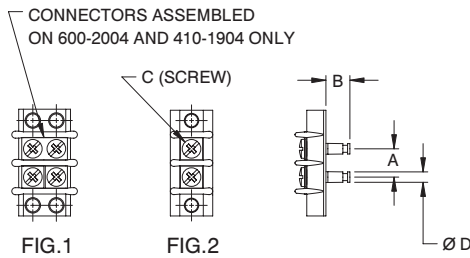
NOTE 1:
NOTE 2:

Standard with block, but packed separately
604 and 605 nuts are part of the assembly.
Additional nuts (one per stud) are supplied in bulk.

XX = # of terminals

Catalog #	Figure #	A	B	C
599 GP 2002 XX	FIG 3	0.38	0.34	6-32 NC
600A GP 2002 XX	FIG 2	0.38	0.38	6-32 NC
601 GP 2102 XX	FIG 2	0.44	0.44	6-32 NC
602 GP 2202 XX	FIG 2	0.56	0.50	8-32 NC
603 GP 2302 XX	FIG 1	0.69	0.50	10-32 NF
604 GP 2402 XX	FIG 1	0.88	0.44	10-32 NF
605 GP 2502 XX	FIG 1	1.13	0.75	1/4-28 NF
699 GP 2102 XX	FIG 3	0.44	0.44	6-32 NC
812 GP 2202 XX	FIG 3	0.56	0.50	8-32 NC

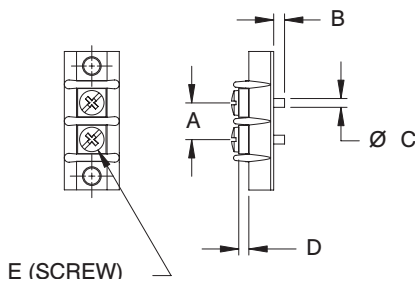
Screw Terminal with Feed-Thru Solder Terminal



Catalog #	Figure #	A	B	C	D
411 GP 1904 XX	FIG 2	0.25	0.28	2-56 NC X .19	0.11
599 GP 2004 XX	FIG 2	0.38	0.31	5-40 NC X .25	0.14
600 GP 2004 XX	FIG 1	0.38	0.31	5-40 NC X .25	0.14
601 GP 2104 XX	FIG 1	0.44	0.38	6-32 NC X .25	0.13
699 GP 2104 XX	FIG 2	0.44	0.38	6-32 NC X .25	0.13
812 GP 2204 XX	FIG 2	0.56	0.44	8-32 NC X .25	0.14

To ensure solderability, use within six (6) months. XX = # of terminals

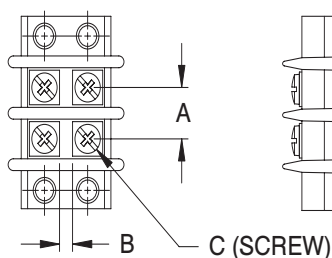
Screw Terminal with Solder Pin for Printed Circuit Board Connection



Catalog #	A	B	C	D	E
599 GP 2020 XX	0.38	0.13	0.09	0.09	5-40 NC X .19
599 GP 2021 XX	0.38	0.13	0.09	0.03	5-40 NC X .19
699 GP 2120 XX	0.44	0.19	0.09	0.04	6-32 NC X .25
699 GP 2121 XX	0.44	0.20	0.06	0.04	6-32 NC X .25

To ensure solderability, use within six (6) months. XX = # of terminals

Individual Screw Terminals



Catalog #	A	B	C
601 GP 2108 XX	0.44	0.09	6-32 NC X .25

XX = # of terminals

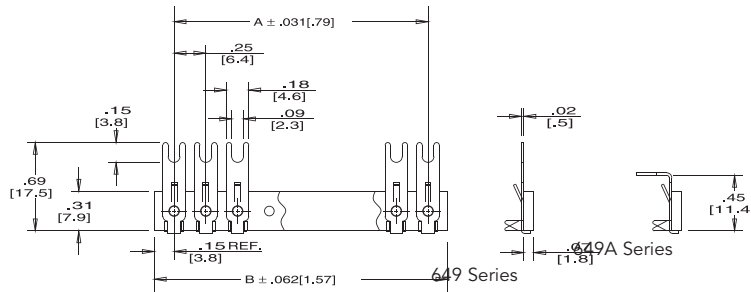
Terminal Block Accessories

Fanning Strips

- Terminals, Brass, Tin Plated
- Material: XP = Phenolic, Black
GME = Glass Cloth Melamine
Per MIL-M-14 Light Brown Term

649 Series

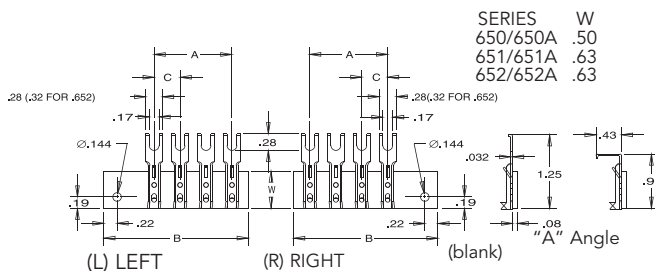
- For 410 and 411 Series Terminal Blocks
- Available in XP Phenolic Only



# of Term.	A	B	# of Term.	A	B
2	0.250	0.562	13	3.000	3.312
3	0.500	0.812	14	3.250	3.562
4	0.750	1.062	15	3.500	3.812
5	1.000	1.312	16	3.750	4.062
6	1.250	1.562	17	4.000	4.312
7	1.500	1.812	18	4.250	4.562
8	1.750	2.062	19	4.500	4.812
9	2.000	2.312	20	4.750	5.062
10	2.250	2.562	21	5.000	5.312
11	2.500	2.812	22	5.250	5.562
12	2.750	3.062			

650/651/652 Series

- 650 Series for 599, 600, and 670A RZ Series Terminal Blocks
- 651 Series for 601 and 699 Series Terminal Blocks
- 652 Series for 602 and 812 Series Terminal Blocks



SERIES	650 / 650A		651 / 651A		652 / 652A	
C	3/8 (.375)		7/16 (.4375)		9/16 (.5625)	
# of Term.	A	B	A	B	A	B
2	.375	1.435	.437	1.497	.562	1.622
3	.750	1.810	.875	1.935	1.125	2.185
4	1.125	2.185	1.312	2.372	1.687	2.747
5	1.500	2.560	1.750	2.610	2.250	3.310
6	1.875	2.935	2.187	3.247	2.812	3.872
7	2.250	3.310	2.625	3.685	3.375	4.435
8	2.265	3.685	3.062	4.122	3.937	4.997
9	3.000	4.060	3.500	4.560	4.500	5.560
10	3.375	4.435	3.937	4.997	5.062	6.122
11	3.750	4.810	4.375	5.435	5.625	6.685
12	4.125	5.165	4.812	5.872	6.187	7.247
13	4.500	5.560	5.250	6.310	6.750	7.810
14	4.875	5.935	5.687	6.747	7.312	8.372
15	5.250	6.310	6.125	7.185	7.875	8.935
16	5.625	6.685	6.562	7.622	8.437	9.497
17	6.000	7.060	7.000	8.060	9.000	10.060
18	6.375	7.435	7.437	8.497	9.562	10.622
19	6.750	7.810	7.875	8.935	10.125	11.185
20	7.125	8.186	8.312	9.372	10.687	11.747
21	7.500	8.560	8.750	9.810	11.250	12.310
22	7.875	8.935	9.187	10.247	11.812	12.672
23	--	--	9.625	10.685	12.375	13.435
24	--	--	--	--	12.937	13.997
25	--	--	--	--	13.500	14.560
26	--	--	--	--	14.062	15.122

Ordering Code

For convenience and accuracy in ordering, please specify catalog numbers as shown:

- For Marking Strips, use an "MS" prefix on the series
- For Insulator Strips, use an "IS" prefix on the series

Series	Mat. Code	Angle	Position	# of Terminals
652	XP	A	L	5
651	GME	(or blank)	R	
650			(or Blank)	
649				

Terminal Block Accessories

Solder Terminal Lugs

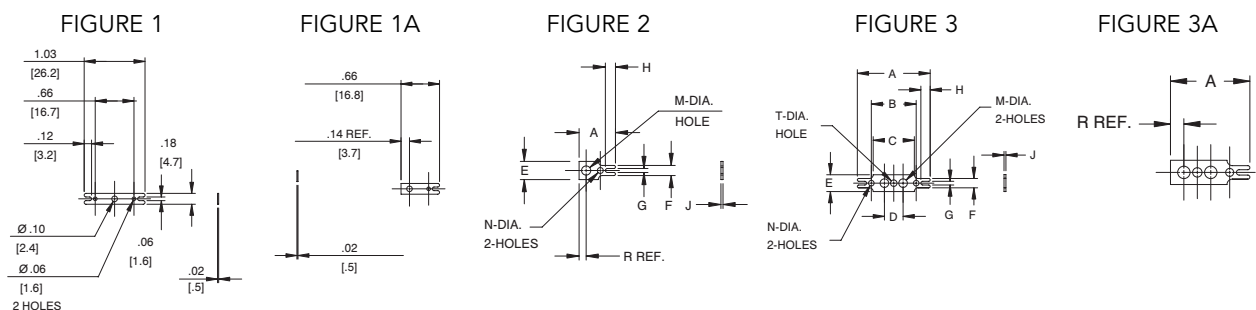
ST and 3/4 ST Types

	Figure	A	B	C	D	E	F	G	H	J	M	N	R	T	Also used on:
411 ST	See Figure 1														
411 3/4ST	See Figure 1A														
599 3/4ST	FIG 2	0.56	--	--	--	0.28	0.16	0.06	0.16	0.032	0.144	0.093	0.11	--	2590, 2590A
600 ST	FIG 3	1.22	0.75	0.69	0.31	0.28	0.16	0.06	0.16	0.032	0.144	0.093	--	--	600A, 670A GP
600 3/4ST	FIG 3A	0.92	--	--	0.31	0.28	0.16	0.06	0.16	0.032	0.144	0.093	0.15	--	
601 ST	FIG 3	1.58	0.94	0.84	0.42	0.31	0.21	0.06	0.21	0.036	0.148	0.125	--	--	621 RZ
601 3/4ST	FIG 3A	1.17	--	--	0.42	0.31	0.21	0.06	0.21	0.036	0.148	0.125	0.17	--	
602 ST	FIG 3	1.85	1.06	0.94	0.50	0.41	0.28	0.09	0.28	0.036	0.177	0.125	--	--	672 GP
602 3/4ST	FIG 3A	1.37	--	--	0.50	0.41	0.28	0.09	0.28	0.036	0.177	0.125	0.20	--	
699 3/4ST	FIG 2	0.70	--	--	--	0.31	0.21	0.06	0.21	0.032	0.146	0.125	0.13	--	1690, 2690
812 3/4ST	FIG 2	0.88	--	--	--	0.41	0.28	0.09	0.28	0.037	0.177	0.125	0.19	--	

mm = dim x 25.4

MSP Catalog Designations: ST = S 3/4ST = HS

To ensure solderability, use within six (6) months.



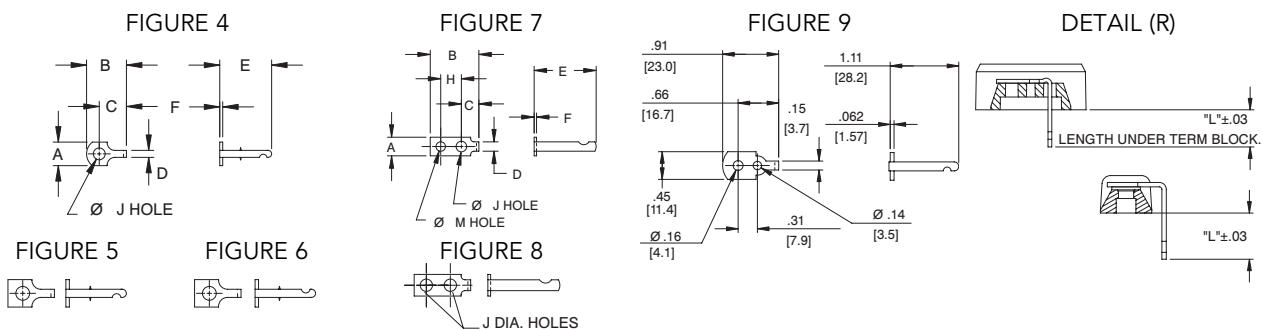
Y, YSY and Z Types (Material: Brass Finish Electro-Tin Plated)

	Figure	A	B	C	D	E	F	H	J	M	L (see detail R)	Also used On:
599Z, 600Y	FIG 6	0.28	0.48	0.33	0.085	0.63	0.036	NA	0.144	NA	599Z=0.31, 600Y=0.31	670A RZ
600YSY	FIG 6	0.28	0.48	0.33	0.085	0.82	0.036	NA	0.144	NA	0.50	670A RZ
600Z	FIG 7	0.28	0.73	0.25	0.140	0.94	0.036	0.31	0.160	0.143	0.62	670A RZ
699Z, 601Y	FIG 4	0.31	0.63	0.44	0.099	0.80	0.036	NA	0.148	NA	699Z=0.42, 601Y=0.42	
601YSY	FIG 5	0.31	0.63	0.44	0.099	1.07	0.040	NA	0.148	NA	0.69	
602Y	FIG 4	0.43	0.75	0.52	0.125	0.95	0.040	NA	0.177	NA	0.49	
812Z, 602YSY	FIG 5	0.40	0.70	0.52	0.125	1.13	0.040	NA	0.177	NA	812Z=0.64, 602YSY=0.67	
602Z	FIG 8	0.40	1.09	0.38	0.203	1.06	0.040	0.50	0.177	NA	0.60	
603Y	FIG 9	NOTE: For factory assembly only onto 603 Terminal Boards									0.60	
672 YSY	FIG 7	0.42	0.70	0.27	0.08	1.02	0.040	0.25	NA	0.14	0.56	300 series

mm = dim x 25.4

MSP Catalog Designations: Y = L YSY = LSL

To ensure solderability, use within six (6) months.



Figures 5 & 6 same as Figure 4 except as shown

Same as Figure 7 except as shown