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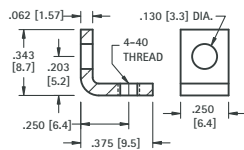
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THREADED MOUNTING BRACKETS

THREADED MOUNTING BRACKETS

4-40 THREAD

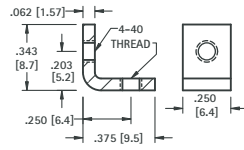


CAT. NO. 612

MATERIAL:

.062 (1.57) Steel, Zinc Plate

4-40 THREAD

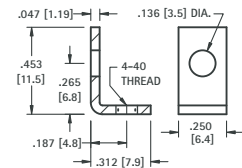


CAT. NO. 621

MATERIAL:

.062 (1.57) Steel, Zinc Plate

4-40 THREAD



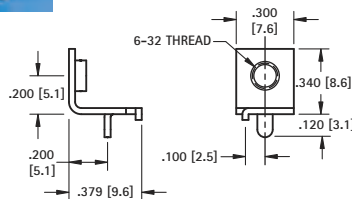
CAT. NO. 616

MATERIAL:

.047 (1.19) Brass, Tin Plate

6-32 THREAD

THRU-HOLE MOUNT

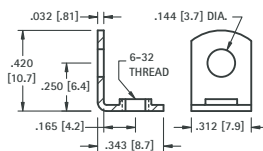


CAT. NO. 632

MATERIAL:

.032 (.81) Brass, Tin Plate

6-32 THREAD

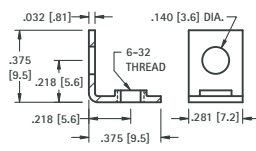


CAT. NO. 614

MATERIAL:

.032 (.81) Brass, Tin Plate

6-32 THREAD

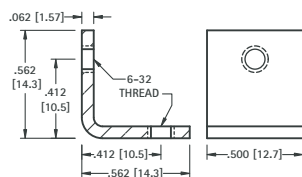


CAT. NO. 634

MATERIAL:

.032 (.81) Brass, Nickel Plate

6-32 THREAD

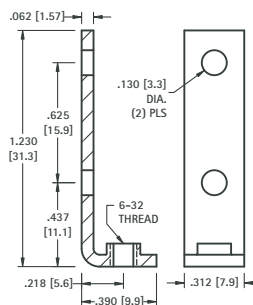


CAT. NO. 4334

MATERIAL:

.062 (1.57) Steel, Nickel Plate

6-32 THREAD

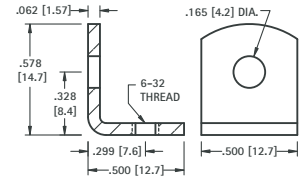


CAT. NO. 708

MATERIAL:

.062 (1.57) Steel, Nickel Plate

6-32 THREAD

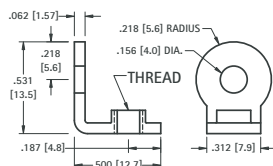


CAT. NO. 617

MATERIAL:

.062 (1.57) Steel, Tin Plate

6-32 OR 8-32 THREAD

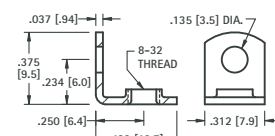


CAT. NO.	THREAD
4332	6-32
4333	8-32

MATERIAL:

.062 (1.57) Brass, Nickel Plate

8-32 THREAD

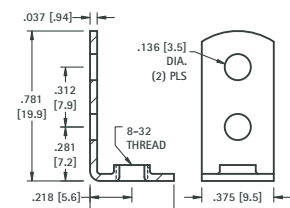


CAT. NO. 611

MATERIAL:

.037 (.94) Brass, Tin Plate

8-32 THREAD



CAT. NO. 631

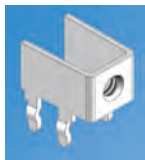
MATERIAL:

.037 (.94) Steel, Tin Plate

SNAP-IN THREADED PC MOUNT BRACKETS



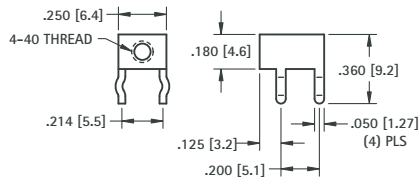
- Snaps in for wave soldering • Reduces assembly time • Easily mount into predrilled or punched holes • Stable no rock design



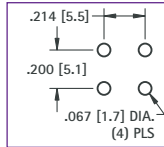
**SNAP-IN
PC MOUNT**



4-40 THREAD



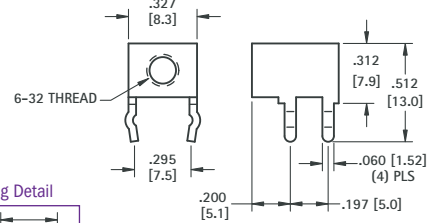
Mounting Detail



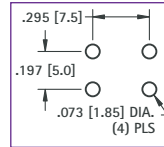
MATERIAL: .032 (.81) Brass, Matte Tin Plate

CAT. NO. 7774

6-32 THREAD



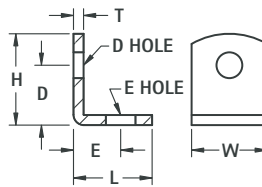
Mounting Detail



MATERIAL: .032 (.81) Brass, Matte Tin Plate

CAT. NO. 7779

UNIVERSAL CLEAR HOLE BRACKETS



CAT. NO.	H	L	W	D	D HOLE DIAMETER	E	E HOLE DIAMETER	T	MATERIAL	FINISH
633	.375 (9.5)	.375 (9.5)	.281 (7.1)	.218 (5.5)	.144 (3.7)	.218 (5.5)	.144 (3.7)	.032 (.81)	Brass	Nickel
613	.390 (9.9)	.453 (11.5)	.375 (9.5)	.234 (5.9)	.147 (3.7)	.299 (7.6)	.128 (3.3)	.032 (.81)	Brass	Nickel
615	.420 (10.7)	.343 (8.7)	.281 (7.1)	.281 (7.1)	.144 (3.7)	.203 (5.2)	.128 (3.3)	.032 (.81)	Brass	Tin
4335	.562 (14.3)	.562 (14.3)	.500 (12.7)	.412 (10.5)	.120 (3.0)	.411 (10.4)	.120 (3.0)	.062 (1.57)	Steel	Nickel
4336	.562 (14.3)	.562 (14.3)	.500 (12.7)	.412 (10.5)	.144 (3.7)	.412 (10.5)	.144 (3.7)	.062 (1.57)	Steel	Nickel
618	.628 (16.0)	.628 (16.0)	.375 (9.5)	.378 (9.6)	.169 (4.3)	.378 (9.6)	.169 (4.3)	.050 (1.27)	Brass	Tin
619	.687 (17.4)	.687 (17.4)	.375 (9.5)	.500 (12.7)	.144 (3.7)	.500 (12.7)	.144 (3.7)	.032 (.81)	Steel	Tin
4326	1.013 (25.7)	.487 (12.4)	.312 (7.9)	.816 (20.7)	.140 (3.6)	.332 (8.4)	.140 (3.6)	.050 (1.27)	Steel	Nickel
620	1.156 (29.4)	.656 (16.7)	.375 (9.5)	.906 (23.0)	.169 (4.3)	.420 (10.7)	.169 (4.3)	.032 (.81)	Steel	Tin

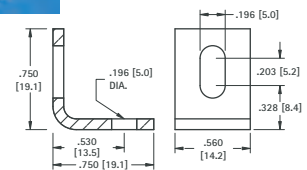
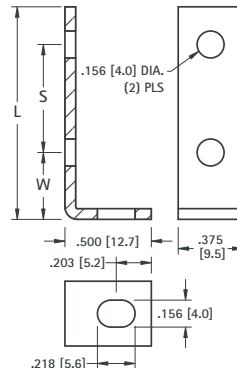
BOARD BRACKETS



Originally designed for our line of standardized terminal boards; these brackets can also be used in other applications.

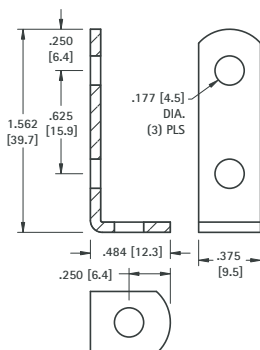
MATERIALS: .062 (1.57) Steel, Nickel Plate

CAT. NO.	W	L	S
1570	.281 (7.1)	1.187 (30.1)	.750 (19.1)
1556	.375 (9.5)	1.625 (41.3)	1.000 (25.4)
1571	.281 (7.1)	1.625 (41.3)	1.187 (30.1)
1567	.375 (9.5)	2.125 (54.0)	1.500 (38.1)
1568	.375 (9.5)	2.625 (66.7)	2.000 (50.8)
1569	.375 (9.5)	3.125 (79.4)	2.500 (63.5)



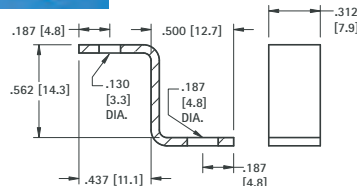
CAT. NO. 4337

MATERIAL: .080 (2.03) Aluminum



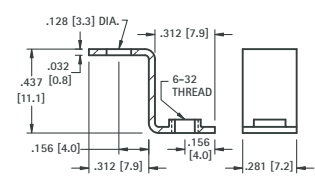
CAT. NO. 1564

MATERIAL: .062 (1.57) Steel, Nickel Plate



CAT. NO. 4325

MATERIAL: .050 (1.27) Steel, Nickel Plate



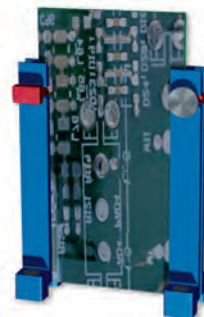
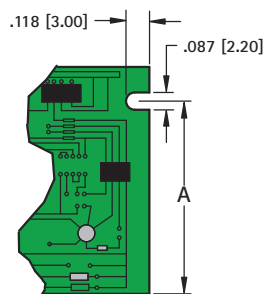
CAT. NO. 630

MATERIAL: .032 (.81) Brass, Tin Plate

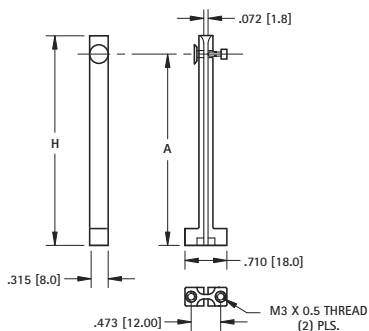
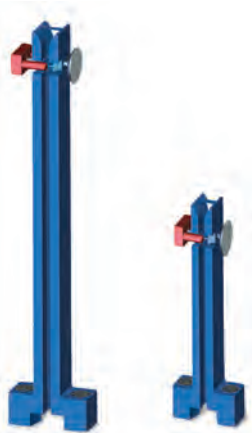
Vertical board guides provide for a quick and easy assembly of circuit boards. Sturdy design assures boards stay square. These guards can be mounted to chassis or directly to a mother board. Mounting holes have brass threaded inserts to assure secure mounting of guide. After

bracket is installed, boards are quickly locked into place or released for repair or upgrades. Locking pins at the top of the bracket can be set/released using finger pressure, no tools are required.

- Brass threaded inserts assure sturdy connection to chassis or mother board
- Available for circuit boards 1.970" to 6.300" tall
- Locking pin keeps circuit board locked into place
- M3 mounting screws available
- Supplied with hardware: 2 screws, 2 washers and 2 lock washers
- All brackets use same footprint, no redesign of mounting holes required if changing bracket height



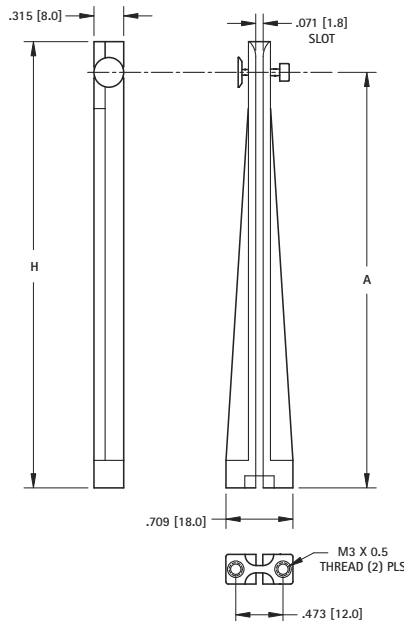
STANDARD



CAT. NO.	H HEIGHT	A LOCK PIN HEIGHT
8645	1.970 (50.0)	1.650 (42.0)
8646	2.560 (65.0)	2.250 (56.5)
8647	3.540 (90.0)	3.200 (81.5)
8648	4.725 (120.0)	4.430 (112.5)

MATERIAL:
Guide: Nylon 6/6
Threaded Insert: Brass, Nickel Plate

REINFORCED



MATERIAL:
Guide: Nylon 6/6, Glass Filled
Threaded Insert: Brass, Nickel Plate

CAT. NO.	H HEIGHT	A LOCK PIN HEIGHT
8654	4.724 (120.0)	4.410 (112.0)

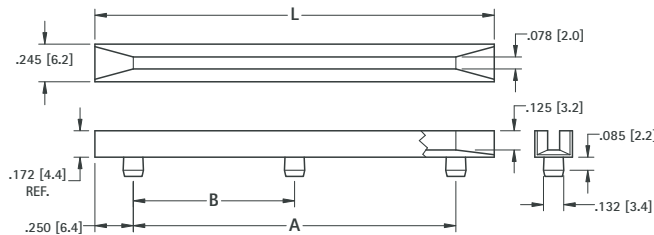
HORIZONTAL TYPE PC BOARD GUIDES



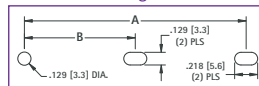
MATERIAL:
Natural Nylon 6/6, UL Rated 94V-2

Guides may be used horizontally or vertically and snap into .125 (3.2) diameter holes. Narrow width allows maximum density and optimum airflow. Simple press-fit, secure installation. No special tools required to install.

- Sturdy Nylon construction
- Mounts into chassis with out tools
- Assures proper alignment of board
- Quick and easy installation of board



Mounting Detail



CAT. NO.	L	A	B
8620	2.5 (63.5)	2.0 (50.8)	-
8621	3.0 (76.2)	2.5 (63.5)	-
8622	3.5 (88.9)	3.0 (76.2)	-
8623	4.0 (101.6)	3.5 (88.9)	-
8624	4.5 (114.3)	4.0 (101.6)	-
8625	5.0 (127.0)	4.5 (114.3)	-
8626	5.5 (139.7)	5.0 (127.0)	-
8627	6.0 (152.4)	5.5 (139.7)	-
8628	6.5 (165.1)	6.0 (152.4)	-
8629	7.0 (177.8)	6.5 (165.1)	-
8630	7.0 (177.8)	6.5 (165.1)	3.25 (82.6)
8631	7.5 (190.5)	7.0 (177.8)	-
8632	7.5 (190.5)	7.0 (177.8)	3.50 (88.9)
8633	8.0 (203.2)	7.5 (190.5)	-
8634	8.0 (203.2)	7.5 (190.5)	3.75 (95.3)
8635	8.5 (215.9)	8.0 (203.2)	-
8636	8.5 (215.9)	8.0 (203.2)	4.00 (101.6)

LEVER ACTION PC CARD EJECTORS



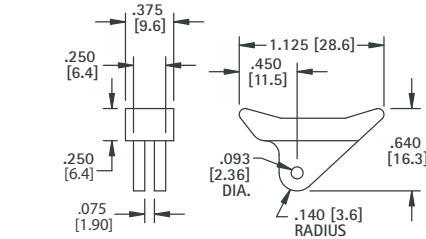
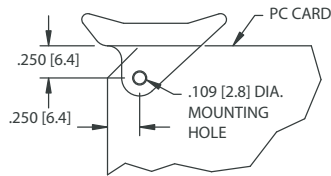
Card ejectors offer a simple and reliable way of installing and ejecting circuit boards. Card ejectors reduce the stress on board connectors by improper removal of board. Ejectors also protect components on board from damage during removal or installation. Ejectors supplied with stainless steel pin to assure quick assembly of ejector to card.

MATERIAL:

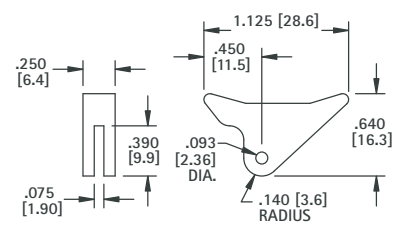
White Nylon 6/6, UL Rated 94V-2

- Designed for .062 (1.57) PC cards
- Level action ejectors aids card insertion and extraction
- Supplied complete with stainless steel spring pin

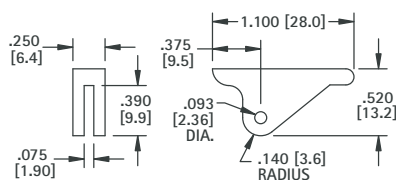
CARD MOUNTING DIMENSIONS



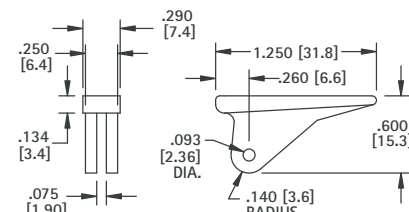
CAT. NO. 8640



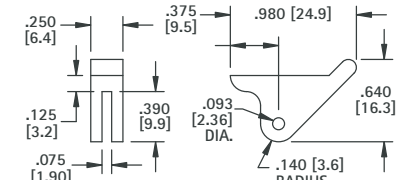
CAT. NO. 8641



CAT. NO. 8642



CAT. NO. 8643

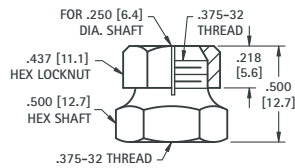


CAT. NO. 8644

SHAFT LOCKS

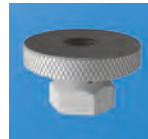


For .250 (6.4) SHAFT

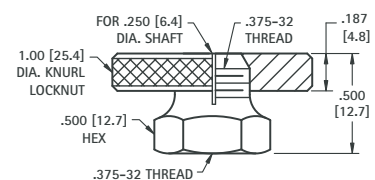


MATERIAL: Brass, Nickel Plate

CAT. NO. 1701



For .250 (6.4) SHAFT



MATERIAL: Brass, Nickel Plate

CAT. NO. 1702

.250 (6.4) SHAFT COUPLING

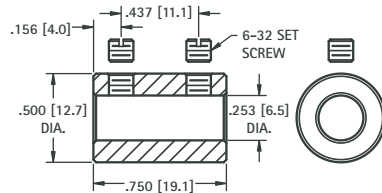


Two set screws hold shaft securely

MATERIAL: Brass, Nickel Plate

Set Screws: Steel, Zinc Plate
Supplied unassembled

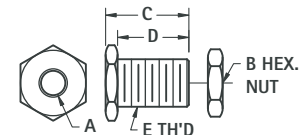
CAT. NO. 1453



PANEL BEARINGS



STANDARD and MINIATURE



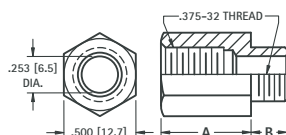
MATERIAL: Brass, Nickel Plate
Supplied unassembled

CAT. NO.	A	B (HEX)	C	D	E THREAD
1705	.253 (6.4)	.437 (11.1)	.500 (12.7)	.437 (11.1)	.375-32 Standard
1706	.128 (3.3)	.343 (8.7)	.437 (11.1)	.375 (9.5)	.250-32 Miniature

VOLUME CONTROL EXTENDERS



For .250 (6.4) volume control shafts having .375-32 threaded bushings.



MATERIAL: Brass, Nickel Plate

CAT. NO.	A	B
1464	.625 (15.9)	.250 (6.4)
1465	.625 (15.9)	.375 (9.5)
1466	.687 (17.4)	.500 (12.7)
1467	.750 (19.1)	.250 (6.4)

PANEL NUTS



For Volume Controls, Switches, Tip Jacks, etc.

CAT. NO.	THREAD	DIAMETER	THICKNESS
1448	1/4-32	.375 Hex	.093 (2.36)
1449	1/4-32	.312 Hex	.078 (1.98)
1456	3/8-32	.500 Hex	.093 (2.36)
1458	15/32-32	.562 Hex	.078 (1.98)
1459	15/32-32	.625 Knurled	.062 (1.57)
1472	5/16-32	.375 Hex	.093 (2.36)
11362-4	12-28	.250 Hex	.092 (2.34)

MATERIAL: Brass, Nickel Plate

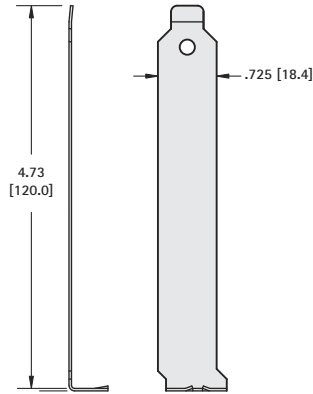


- Brackets supplied as flat blanks or with mounting tabs
- Premium quality
- Designed to fit standard PC Board configurations
- Custom designs can be fabricated to your exact configuration

MATERIAL: Steel, Nickel Plate

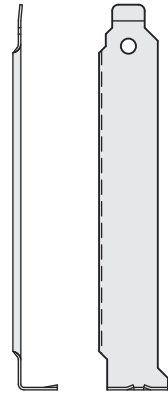
EISA/ISA or PCI

BLANK - FLAT



CAT. NO. 9200

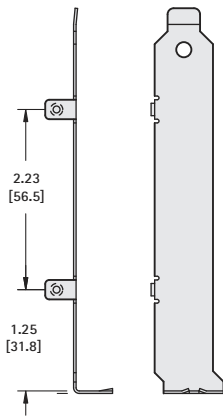
BLANK - REINFORCED



CAT. NO. 9201

EISA/ISA

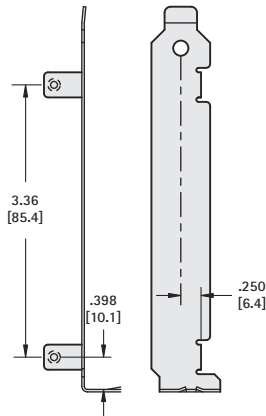
BLANK - WITH MOUNTING TABS



CAT. NO. 9202

PCI

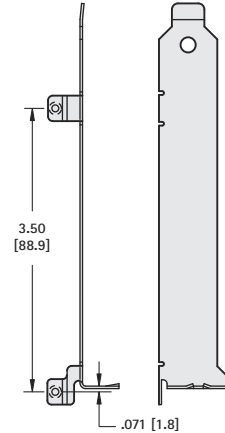
BLANK - WITH MOUNTING TABS



CAT. NO. 9203

EISA/ISA

BLANK - WITH MOUNTING TABS



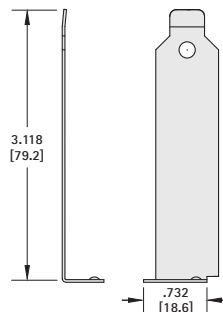
CAT. NO. 9205

LOW PROFILE BLANK BRACKETS



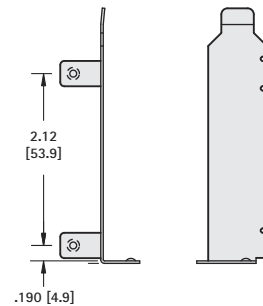
EISA/ISA or PCI

BLANK - FLAT

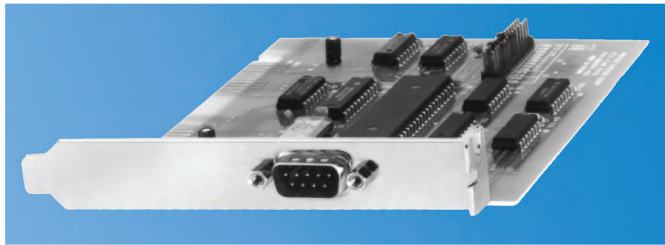


CAT. NO. 9230

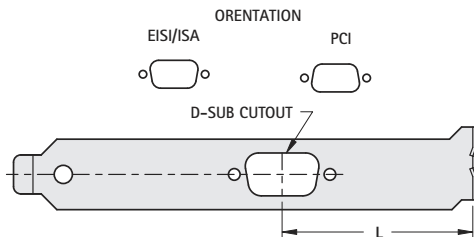
BLANK - WITH MOUNTING TABS



CAT. NO. 9231

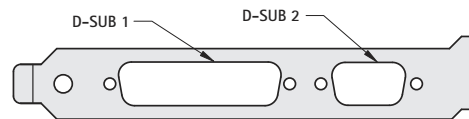


D-SUB



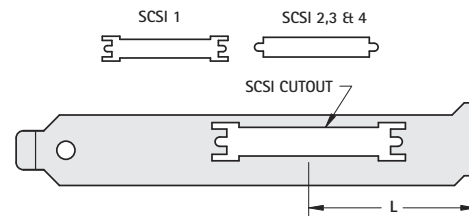
CAT. NO.	Orientation	Length	# Pins
9200-1	EISA/ISA	1.96 (49.9)	9 Pin
9200-2	PCI	2.20 (55.9)	9 Pin
9200-16	EISA/ISA	1.07 (27.2)	9 Pin
9200-3	EISA/ISA	2.95 (75.0)	15 Pin
9200-11	EISA/ISA	2.85 (72.4)	15 Pin
9200-4	EISA/ISA	2.81 (71.3)	25 Pin
9200-5	EISA/ISA	2.25 (57.2)	37 Pin
9260-14	EISA/ISA	1.90 (48.4)	50 Pin

MULTIPLE D-SUB - EISA/ISA



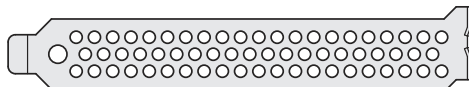
CAT. NO.	D SUB 1	D SUB 2
9200-12	15 Pin	15 Pin
9200-13	25 Pin	15 Pin
9200-15	9 Pin	9 Pin
9200-17	25 Pin	9 Pin

SCSI



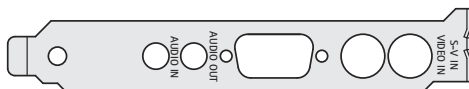
CAT. NO.	Shape	No. Pins	L
9200-6	SCSI 1	50 Pin	1.72 (43.6)
9200-7	SCSI 1	68 Pin	2.06 (52.3)
9200-8	SCSI 2,3 & 4	50 Pin	2.43 (61.6)
9200-9	SCSI 2,3 & 4	68 Pin	2.12 (53.9)

VENT



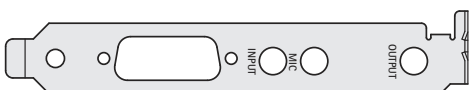
CAT. NO. 9200-19

VIDEO CARD - EISA/ISA



CAT. NO. 9201-1

SOUND CARD - EISA/ISA



CAT. NO. 9204-1

USB I/O CARD - EISA/ISA or PCI



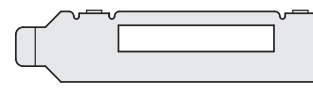
CAT. NO. 9200-10

NETWORK CARD - PCI



CAT. NO. 9203-2

USB I/O CARD - LOW PROFILE

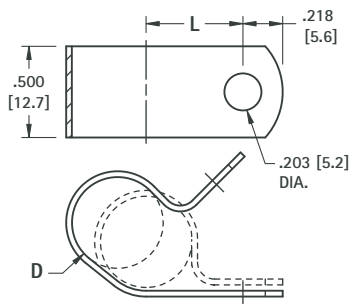


CAT. NO. 9231-1



STEEL CABLE CLAMPS

Ideal for securing, grounding and routing cable, wiring, piping, tubing, components and fibre optics.

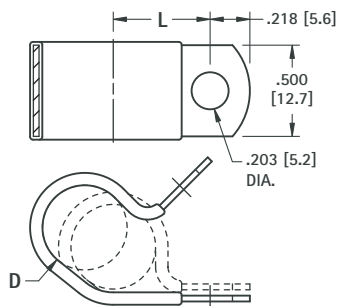


MATERIAL: .032 (.81) Steel, Zinc Plate

CAT. NO.	D FOR DIA.	L CTR TO CTR
8100	.187 (4.7)	.375 (9.5)
8101	.250 (6.4)	.406 (10.3)
8102	.312 (7.9)	.437 (11.1)
8103	.375 (9.5)	.468 (11.9)
8104	.437 (11.1)	.500 (12.7)
8105	.500 (12.7)	.531 (13.5)
8106	.562 (14.4)	.562 (14.3)
8107	.625 (15.9)	.594 (15.1)
8108	.687 (17.4)	.625 (15.9)
8109	.750 (19.0)	.656 (16.7)
8110	.812 (20.6)	.687 (17.4)
8111	.875 (22.2)	.718 (18.2)
8112	.937 (23.8)	.750 (19.1)
8113	1.00 (25.4)	.781 (19.8)
8114	1.062 (27.0)	.812 (20.6)

INSULATED STEEL CABLE CLAMPS

Ideal for securing, insulating and routing cable, wiring, piping, tubing, components and fibre optics.

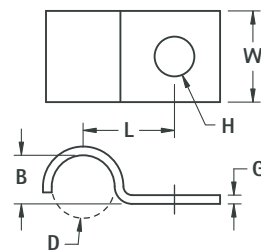
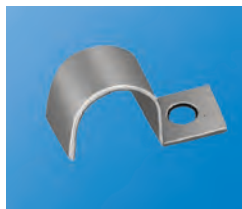


MATERIAL: .032 (.81) Steel, Zinc Plate
Cushion: Black Vinyl

CAT. NO.	D FOR DIA.	L CTR TO CTR
8121	.187 (4.7)	.406 (10.3)
8122	.250 (6.4)	.437 (11.1)
8123	.312 (7.9)	.468 (11.9)
8124	.375 (9.5)	.500 (12.7)
8125	.437 (11.1)	.531 (13.5)
8126	.500 (12.7)	.562 (14.3)
8127	.562 (14.3)	.594 (15.1)
8128	.625 (15.9)	.625 (15.9)
8129	.687 (17.4)	.656 (16.7)
8130	.750 (19.1)	.687 (17.4)
8131	.812 (20.6)	.718 (18.2)
8132	.875 (22.2)	.750 (19.1)
8133	.937 (23.8)	.781 (19.8)
8134	1.000 (25.4)	.812 (20.6)

STEEL HALF CLAMPS

Ideal for securing, grounding and routing cable, wiring, piping, tubing, components and fibre optics.

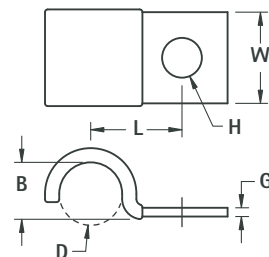


MATERIAL: Steel, Zinc Plate

CAT. NO.	D FOR DIA.	H HOLE DIA.	L CTR TO CTR	B	G THICK	W WIDTH
8140	.125 (3.2)	.218 (5.5)	.437 (11.1)	.125 (3.2)	.032 (.81)	.500 (12.7)
8141	.187 (4.7)	.218 (5.5)	.437 (11.1)	.156 (4.0)		
8142	.250 (6.4)	.218 (5.5)	.437 (11.1)	.187 (4.7)		
8143	.312 (7.9)	.218 (5.5)	.500 (12.7)	.250 (6.4)	.048 (1.22)	.500 (12.7)
8144	.375 (9.5)	.218 (5.5)	.531 (13.5)	.312 (7.9)		
8145	.437 (11.1)	.218 (5.5)	.562 (14.3)	.375 (9.5)		
8146	.500 (12.7)	.218 (5.5)	.625 (15.9)	.437 (11.1)	.060 (1.52)	.625 (15.9)
8147	.562 (14.3)	.218 (5.5)	.687 (17.4)	.500 (12.7)		
8148	.625 (15.9)	.218 (5.5)	.750 (19.1)	.562 (14.3)		
8149	.687 (17.4)	.218 (5.5)	.812 (20.6)	.625 (15.9)	.060 (1.52)	.625 (15.9)
8150	.750 (19.1)	.218 (5.5)	.812 (20.6)	.687 (17.4)		
8151	.812 (20.6)	.218 (5.5)	.875 (22.2)	.750 (19.1)		
8152	.875 (22.2)	.281 (7.1)	.937 (23.8)	.812 (20.6)	.060 (1.52)	.750 (19.1)
8153	.937 (23.8)	.281 (7.1)	.968 (24.6)	.812 (20.6)		
8154	1.000 (25.4)	.281 (7.1)	1.000 (25.4)	.937 (23.8)		

INSULATED STEEL HALF CLAMPS

Ideal for securing, insulating and routing cable, wiring, piping, tubing, components and fibre optics.



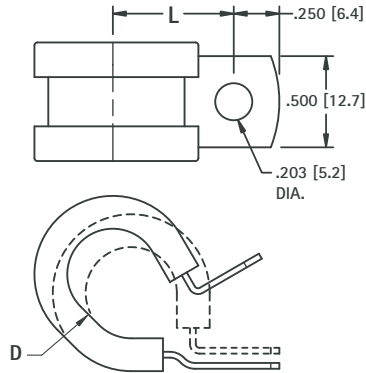
MATERIAL: Steel, Zinc Plate
Cushion: Black Vinyl

CAT. NO.	D FOR DIA.	H HOLE DIA.	L CTR TO CTR	B	G THICK	W WIDTH
8160	.187 (4.7)	.218 (5.5)	.437 (11.1)	.187 (4.7)	.032 (.81)	.500 (12.7)
8161	.250 (6.4)	.218 (5.5)	.500 (12.7)	.250 (6.4)		
8162	.312 (7.9)	.218 (5.5)	.531 (13.5)	.312 (7.9)		
8163	.375 (9.5)	.218 (5.5)	.562 (14.3)	.375 (9.5)	.048 (1.22)	.625 (15.9)
8164	.437 (11.1)	.218 (5.5)	.625 (15.9)	.437 (11.1)		
8165	.500 (12.7)	.218 (5.5)	.687 (17.4)	.500 (12.7)		
8166	.562 (14.3)	.218 (5.5)	.750 (19.1)	.562 (14.3)	.060 (1.52)	.625 (15.9)
8167	.625 (15.9)	.218 (5.5)	.812 (20.6)	.625 (15.9)		
8168	.687 (17.4)	.218 (5.5)	.812 (20.6)	.687 (17.4)		
8169	.750 (19.1)	.218 (5.5)	.875 (22.2)	.750 (19.1)	.060 (1.52)	.750 (19.1)
8170	.812 (20.6)	.281 (7.1)	.937 (23.8)	.812 (20.6)		
8171	.875 (22.2)	.281 (7.1)	.968 (24.6)	.812 (20.6)		
8172	.937 (23.8)	.281 (7.1)	1.000 (25.4)	.937 (23.8)	.060 (1.52)	.750 (19.1)
8173	1.000 (25.4)	.281 (7.1)	1.062 (27.0)	1.000 (25.4)		

CUSHIONED CABLE CLAMPS



Ideal for securing in rugged applications. These cushioned cable clamps secure tightly and protect against shock and vibration.



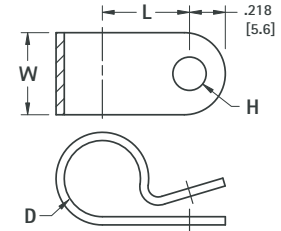
MATERIAL: .032 (0.81) Stainless Steel
Cushion: EPDM Rubber

CAT. NO.	D FOR DIA.	L CTR TO CTR
8090	.250 (6.4)	.711 (18.1)
8091	.375 (9.5)	.500 (12.7)
8092	.500 (12.7)	.562 (14.3)
8093	.625 (15.9)	.718 (18.2)
8094	.750 (19.1)	.781 (19.8)
8095	.875 (22.2)	.843 (21.4)
8096	1.000 (25.4)	.906 (23.0)

NYLON CABLE CLAMPS

Ideal for securing, insulating and routing cable wiring, piping, tubing, components and fibre optics.

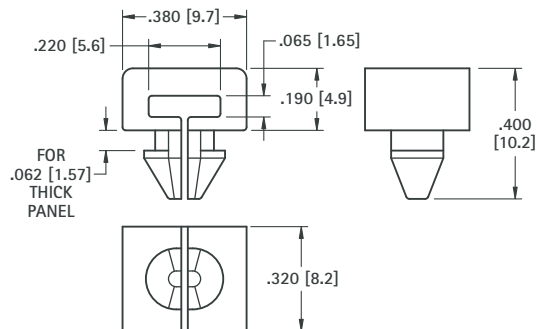
MATERIAL: .050 (1.27) Nylon 6/6



CAT. NO.	D FOR DIA.	L CTR TO CTR	W WIDTH	H HOLE
7620	.125 (3.2)	.325 (8.3)	.375 (9.5)	.140 (3.6)
7621	.125 (3.2)	.325 (8.3)	.375 (9.5)	.203 (5.2)
7622	.187 (4.7)	.380 (9.7)	.375 (9.5)	.140 (3.6)
7623	.187 (4.7)	.380 (9.7)	.375 (9.5)	.203 (5.2)
7624	.250 (6.4)	.410 (10.4)	.375 (9.5)	.140 (3.6)
7625	.250 (6.4)	.410 (10.4)	.375 (9.5)	.203 (5.2)
7626	.312 (7.9)	.445 (11.3)	.375 (9.5)	.140 (3.6)
7627	.312 (7.9)	.445 (11.3)	.375 (9.5)	.203 (5.2)
7628	.375 (9.5)	.475 (12.1)	.375 (9.5)	.140 (3.6)
7629	.375 (9.5)	.475 (12.1)	.375 (9.5)	.203 (5.2)
7630	.437 (11.1)	.525 (13.3)	.375 (9.5)	.140 (3.6)
7631	.437 (11.1)	.525 (13.3)	.375 (9.5)	.203 (5.2)
7632	.500 (12.7)	.550 (14.0)	.375 (9.5)	.140 (3.6)
7633	.500 (12.7)	.550 (14.0)	.375 (9.5)	.203 (5.2)
7634	.562 (14.3)	.625 (15.9)	.500 (12.7)	.203 (5.2)
7635	.625 (15.9)	.660 (16.8)	.500 (12.7)	.203 (5.2)
7636	.750 (19.1)	.785 (19.9)	.500 (12.7)	.203 (5.2)
7637	.875 (22.2)	.845 (21.5)	.500 (12.7)	.203 (5.2)
7638	1.000 (25.4)	.910 (23.1)	.500 (12.7)	.203 (5.2)
7639	1.125 (28.6)	.970 (24.6)	.500 (12.7)	.203 (5.2)
7640	1.250 (31.8)	1.060 (26.9)	.500 (12.7)	.203 (5.2)

CABLE TIE ROUTING CLIP

These clips snap into PC Boards or Panel chassis and are ideal for securing cable wiring, piping, tubing, components and fibre optics when used with cable ties.



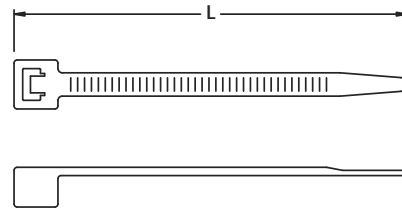
Recommended Mtg. Hole .187 (4.8) diameter.

MATERIAL: Nylon 6/6, UL Rated 94V-2

CAT. NO. 8860

NYLON CABLE TIES

Popular sizes and strengths to meet common cable tie requirements. Injection molded with one piece construction for strength and reliability. Easily installed by hand. Optional installation tool available, tightens and flush cuts cable tie.



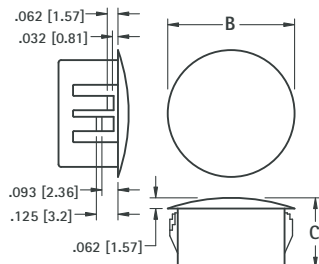
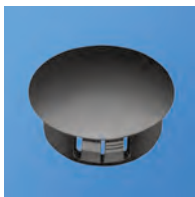
MATERIAL: Natural Nylon 6/6, UL Rated 94V-2

CAT. NO.	TENSILE STRENGTH (Min. Bundle)	FOR BUNDLE DIA. (Max.)	L LENGTH (Approx.)
8865	18 lbs	1.000 (25.4)	4.250 (108.0)
8866	18 lbs	2.000 (50.8)	8.000 (203.2)
8867	40 lbs	1.250 (31.8)	6.000 (152.4)
8868	50 lbs	1.750 (44.5)	7.500 (190.5)
8869	120 lbs	4.000 (101.6)	14.500 (368.3)
8870	Hand Operated Cable Tie Installation Tool for 18lb to 50lb Ties		



NYLON HOLE PLUGS

Closes unused chassis holes quickly and economically. Plugs are abrasion and vibration resistant. Snaps into .032 (.81) to .125 (3.2) thick panels.



SPECIFICATIONS:

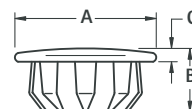
Material: Nylon 6/6, Matte Finish, Black

Temperature Rating: 0°F to 185°F (-20°C to 85°C)

CAT. NO.	HOLE DIAMETER	PANEL THICK MAX	B	C
8600	.250 (6.4)	.062 (1.57)	.312 (7.9)	.312 (7.9)
8601	.312 (7.9)	.062 (1.57)	.375 (9.5)	.312 (7.9)
8602	.375 (9.5)	.125 (3.2)	.468 (11.9)	.406 (10.3)
8603	.500 (12.7)	.125 (3.2)	.578 (14.7)	.406 (10.3)
8604	.625 (15.9)	.125 (3.2)	.734 (18.6)	.406 (10.3)
8605	.750 (19.1)	.125 (3.2)	.921 (23.4)	.406 (10.3)
8606	.875 (22.2)	.125 (3.2)	1.015 (25.8)	.453 (11.5)
8607	1.000 (25.4)	.125 (3.2)	1.203 (30.6)	.453 (11.5)
8608	1.125 (28.6)	.125 (3.2)	1.218 (30.9)	.453 (11.5)
8609	1.250 (31.8)	.125 (3.2)	1.375 (34.9)	.453 (11.5)
8610	1.375 (34.9)	.125 (3.2)	1.500 (38.1)	.453 (11.5)
8611	1.500 (38.1)	.125 (3.2)	1.671 (42.4)	.453 (11.5)

STEEL HOLE PLUGS

Excellent spring retention. Plugs will cover chassis holes, wiring outlets, access holes or unused openings.

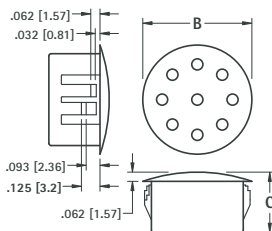


MATERIAL: Steel, Nickel Plate

CAT. NO.	HOLE DIAMETER	PANEL THICKNESS	A	B	C	PRONGS
7600	.250 (6.4)	.031-.062 (.81-1.57)	.406 (10.3)	.234 (5.9)	.062 (1.57)	6
7601	.312 (7.9)	.047-.078 (1.19-1.98)	.437 (11.1)	.250 (6.4)	.062 (1.57)	6
7602	.375 (9.5)	.047-.062 (1.19-1.57)	.500 (12.7)	.234 (5.9)	.062 (1.57)	6
7603	.500 (12.7)	.031-.062 (.81-1.57)	.656 (16.7)	.281 (7.1)	.078 (1.98)	8
7604	.625 (15.9)	.062-.093 (1.57-2.36)	.812 (20.6)	.296 (7.5)	.078 (1.98)	8
7605	.750 (19.1)	.062-.093 (1.57-2.36)	.921 (23.4)	.296 (7.5)	.078 (1.98)	12
7606	.875 (22.2)	.062-.093 (1.57-2.36)	1.062 (27.0)	.296 (7.5)	.062 (1.57)	12
7607	1.000 (25.4)	.062-.156 (1.57-3.9)	1.140 (29.0)	.328 (8.3)	.093 (2.36)	12
7608	1.125 (28.6)	.031-.125 (.79-3.2)	1.312 (33.3)	.343 (8.7)	.093 (2.36)	12
7609	1.250 (31.8)	.062-.093 (1.57-2.36)	1.437 (36.5)	.343 (8.7)	.093 (2.36)	12
7610	1.375 (34.9)	.031-.125 (.79-3.2)	1.562 (39.7)	.406 (10.3)	.078 (1.98)	12
7611	1.500 (38.1)	.031-.062 (.79-1.57)	1.640 (41.7)	.406 (10.3)	.093 (2.36)	12

NYLON VENT PLUGS

Used to cover chassis holes while allowing air flow for ventilation. Snaps into .032 (.81) to .125 (3.2) thick panels.



SPECIFICATIONS:

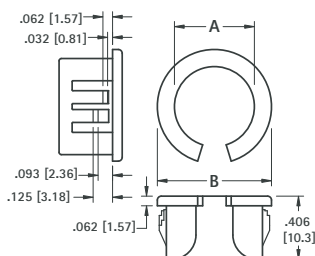
Material: Nylon 6/6, Matte Finish, Black

Temperature Rating: 0°F to 185°F (-20°C to 85°C)

CAT. NO.	HOLE DIAMETER	B	C
8612	.875 (22.2)	1.015 (25.8)	.453 (11.5)
8613	1.000 (25.4)	1.218 (30.9)	.453 (11.5)

NYLON SPLIT BUSHINGS

Designed to be assembled into holes that already contain wire or cable. Versatile bushing can be used on all chassis from .032 (.81) to .125 (3.2).



SPECIFICATIONS:

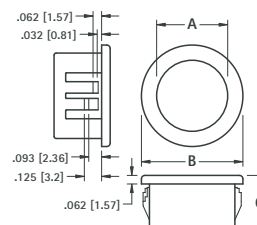
Material: Nylon 6/6, Black

Temperature Rating: 0°F to 185°F (-20°C to 85°C)

CAT. NO.	HOLE SIZE REQUIRED	A INSIDE DIAMETER	B HEAD DIAMETER
8490	.375 (9.5)	.265 (6.7)	.421 (10.7)
8491	.500 (12.7)	.312 (7.9)	.562 (14.3)
8492	.562 (14.3)	.390 (9.9)	.640 (16.3)
8493	.625 (15.9)	.453 (11.5)	.687 (17.4)
8494	.750 (19.1)	.546 (13.9)	.796 (20.2)
8495	.875 (22.2)	.671 (17.0)	.921 (23.4)
8496	1.000 (25.4)	.796 (20.2)	1.062 (27.0)

NYLON INSULATING BUSHINGS

Snaps into panel hole to provide protection for wire, cable and tubing from sharp uneven edges. Versatile bushing can be used on all chassis from .032 (.81) to .125 (3.2).



SPECIFICATIONS:

Material: Nylon 6/6, Black

Temperature Rating: 0°F to 185°F (-20°C to 85°C)

CAT. NO.	HOLE SIZE REQUIRED	MAXIMUM CHASSIS THICKNESS	A INSIDE DIAMETER	B HEAD DIAMETER	C OVERALL HEIGHT
8470	.250 (6.4)	.062 (1.57)	.125 (3.2)	.312 (7.9)	.312 (7.9)
8471	.312 (7.9)	.062 (1.57)	.187 (4.7)	.375 (9.5)	.312 (7.9)
8472	.375 (9.5)	.125 (3.2)	.250 (6.4)	.468 (11.9)	.406 (10.3)
8473	.437 (11.1)	.125 (3.2)	.312 (7.9)	.531 (13.5)	.406 (10.3)
8474	.500 (12.7)	.125 (3.2)	.375 (9.5)	.578 (14.7)	.406 (10.3)
8475	.562 (14.3)	.125 (3.2)	.437 (11.1)	.656 (16.7)	.406 (10.3)
8476	.625 (15.9)	.125 (3.2)	.500 (12.7)	.718 (18.2)	.406 (10.3)
8477	.750 (19.1)	.125 (3.2)	.562 (14.3)	.843 (21.4)	.406 (10.3)
8478	.875 (22.2)	.125 (3.2)	.625 (15.9)	.953 (24.2)	.453 (11.5)
8479	1.000 (25.4)	.125 (3.2)	.750 (19.1)	1.125 (28.6)	.453 (11.5)
8480	1.187 (30.1)	.125 (3.2)	.937 (23.8)	1.312 (33.3)	.453 (11.5)
8481	1.250 (31.8)	.125 (3.2)	.937 (23.8)	1.359 (34.5)	.453 (11.5)
8482	1.375 (34.9)	.125 (3.2)	1.000 (25.4)	1.468 (37.3)	.453 (11.5)
8483	1.500 (38.1)	.125 (3.2)	1.062 (27.0)	1.609 (40.9)	.453 (11.5)
8484	1.750 (44.5)	.125 (3.2)	1.375 (34.9)	1.875 (47.6)	.453 (11.5)
8485	2.000 (50.8)	.125 (3.2)	1.625 (41.3)	2.125 (54.0)	.453 (11.5)
8486	2.500 (63.5)	.250 (6.4)	1.968 (50.0)	2.656 (67.5)	.718 (18.2)

ANTI-VIBRATION GROMMETS

Anti-Vibration grommets are designed for noise suppression in office or lab equipment. Additionally, they isolate sensitive instrumentation from unpredictable vibration and shock. The

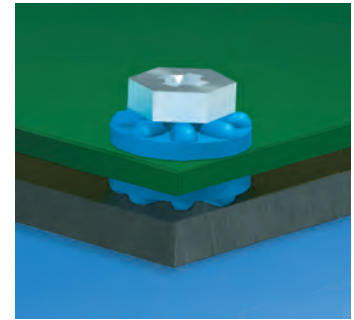
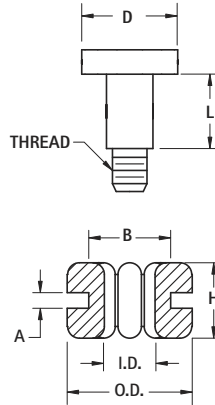
fingers of the grommets provide the flex needed to dampen unwanted noise and vibration. Specially designed shoulder screws are designed to provide the correct spacing.



ROUND HEAD

HEX HEAD

Screw supplied unassembled



MATERIAL:

Isolator: EPDM Rubber

Shoulder Screw: Steel, Nickel Plate

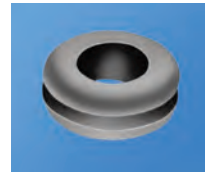
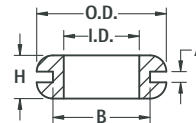
BLACK CAT. NO.	BLUE CAT. NO.	O.D. OUTSIDE DIAMETER	I.D. INSIDE DIAMETER	H HEIGHT	A PANEL THICK	B MTG. HOLE	SHOULDER SCREW			
							LENGTH (L)	THREAD	D	HEAD
765	766	.379 (9.6)	.154 (3.9)	.228 (5.8)	.063 (1.6)	.250 (6.4)	.189 (4.8)	6-32	.250 (6.4)	Hex
769	770	.377 (9.6)	.161 (4.1)	.298 (7.6)	.125 (3.2)	.250 (6.4)	.252 (6.4)	6-32	.300 (7.6)	
775	776	.551 (14.0)	.191 (4.9)	.319 (8.1)	.063 (1.6)	.375 (9.5)	.318 (8.0)	6-32	.394 (10.0)	Round
767	768	.379 (9.6)	.154 (3.9)	.228 (5.8)	.047 (1.2)	.250 (6.4)	.197 (5.0)	M3	.394 (10.0)	
771	772	.411 (11.2)	.181 (4.6)	.209 (5.3)	.031 (0.8)	.315 (8.0)	.197 (5.0)	M3	.394 (10.0)	
773	774	.551 (14.0)	.191 (4.9)	.291 (7.4)	.047 (1.2)	.375 (9.5)	.252 (6.4)	M3	.394 (10.0)	

RUBBER GROMMETS

Ideal for electrical insulation and mechanical damping.

MATERIAL: Rubber, BUNA N

CAT. NO.	I.D. INSIDE DIAMETER	B MTG. HOLE	A PANEL THICKNESS	O.D. OUTSIDE DIAMETER	H HEIGHT
730	.125 (3.2)	.187 (4.7)	.062 (1.57)	.312 (7.9)	.187 (4.7)
733	.125 (3.2)	.250 (6.4)	.062 (1.57)	.343 (8.7)	.187 (4.7)
734	.125 (3.2)	.437 (11.1)	.062 (1.57)	.625 (15.9)	.187 (4.7)
735	.125 (3.2)	.375 (9.5)	.093 (2.36)	.500 (12.7)	.312 (7.9)
736	.187 (4.7)	.312 (7.9)	.062 (1.57)	.437 (11.1)	.218 (5.5)
737	.187 (4.7)	.281 (7.2)	.093 (2.36)	.437 (11.1)	.218 (5.5)
738	.250 (6.4)	.437 (11.1)	.062 (1.57)	.625 (15.9)	.187 (4.7)
739	.250 (6.4)	.375 (9.5)	.062 (1.57)	.562 (14.3)	.250 (6.4)
740	.250 (6.4)	.375 (9.5)	.093 (2.36)	.500 (12.7)	.250 (6.4)
741	.312 (7.9)	.562 (14.3)	.062 (1.57)	.812 (20.6)	.312 (7.9)
742	.312 (7.9)	.437 (11.1)	.062 (1.57)	.625 (15.9)	.281 (7.1)
743	.312 (7.9)	.437 (11.1)	.093 (2.36)	.625 (15.9)	.312 (7.9)
744	.375 (9.5)	.625 (15.9)	.062 (1.57)	.875 (22.2)	.312 (7.9)
745	.375 (9.5)	.500 (12.7)	.062 (1.57)	.625 (15.9)	.250 (6.4)
732	.437 (11.1)	.562 (14.3)	.062 (1.57)	.750 (19.1)	.250 (6.4)
746	.437 (11.1)	.687 (17.4)	.062 (1.57)	.937 (23.8)	.312 (7.9)
747	.500 (12.7)	.812 (20.6)	.062 (1.57)	1.062 (27.0)	.312 (7.9)
748	.500 (12.7)	1.250 (31.8)	.062 (1.57)	1.500 (38.1)	.250 (6.4)
749	.500 (12.7)	.750 (19.1)	.093 (2.36)	.968 (24.6)	.281 (7.1)
750	.562 (14.3)	.812 (20.6)	.062 (1.57)	1.062 (27.0)	.312 (7.9)
752	.625 (15.9)	.875 (22.2)	.062 (1.57)	1.125 (28.6)	.312 (7.9)
756	.750 (19.1)	1.437 (36.5)	.062 (1.57)	1.812 (46.0)	.375 (9.5)
757	.875 (22.2)	1.250 (31.8)	.062 (1.57)	1.625 (41.3)	.437 (11.1)

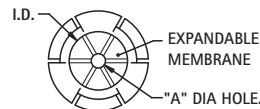
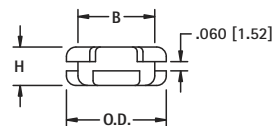


"UNIVERSAL" RUBBER GROMMET

- Designed to adjust to different cable diameters from .125 (3.2) to .312 (7.9)
- Self-adjusting membrane forms a dust resistant seal

MATERIAL: Thermoplastic Rubber, Black

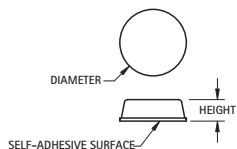
CAT. NO.	O.D. OUTSIDE	I.D. INSIDE DIA.	A DIA. HOLE	B MTG HOLE	H HEIGHT
777	.650 (16.32)	.380 (9.7)	.090 (2.3)	.500 (12.7)	.250 (6.4)
778	1.25 (31.8)	.810 (20.6)	.160 (4.0)	1.000 (25.4)	.370 (9.4)



ADHESIVE BUMPERS

Applies quickly and easily. Prevents nicks, scratches, scuffs, vibration, slippage and noise. Easy peel and stick mounting. Crack resistant. High coefficient of friction. Sold in sheets.

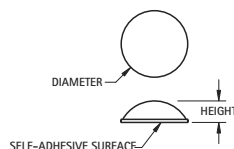
FLAT



MATERIAL: Molded Polyurethane

BLACK CAT. NO.	CLEAR CAT. NO.	DIAMETER	HEIGHT	PARTS/SHEET
780-B	780-C	.375 (9.5)	.125 (3.2)	300
781-B	781-C	.500 (12.7)	.060 (1.5)	200
782-B	782-C	.500 (12.7)	.140 (3.6)	200

DOMED



MATERIAL: Molded Polyurethane

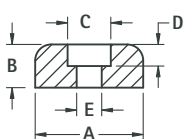
BLACK CAT. NO.	CLEAR CAT. NO.	DIAMETER	HEIGHT	PARTS/SHEET
783-B	783-C	.250 (6.4)	.062 (1.6)	578
784-B	784-C	.335 (8.5)	.085 (2.2)	450
785-B	785-C	.440 (11.2)	.200 (5.1)	242

RECESSED BUMPERS

Provides excellent traction and shock absorbing qualities. available with or without Mold-in Washers.



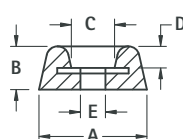
FIG. 1



MATERIAL: Rubber, BUNA S (Figs. 1 & 2), EPDM



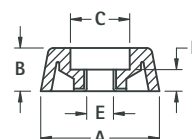
FIG. 2 Mold-In Washer



MATERIAL: Rubber, BUNA S (Figs. 1 & 2), EPDM



FIG. 3 Mold-In Washer



MATERIAL: Thermoplastic

CAT. NO.	FIG.	A	B	C	D	E	SCREW SIZE
720	1	.500 (12.7)	.250 (6.4)	.250 (6.4)	.187 (4.7)	.125 (3.2)	# 4
721	1	.625 (15.9)	.312 (7.9)	.250 (6.4)	.187 (4.7)	.125 (3.2)	# 4
722	1	.718 (18.2)	.437 (11.1)	.250 (6.4)	.218 (5.5)	.125 (3.2)	# 4
723	2	.937 (23.8)	.375 (9.5)	.375 (9.5)	.218 (5.5)	.187 (4.7)	# 8
724*	3	.687 (17.4)	.250 (6.4)	.343 (8.7)	.125 (3.2)	.155 (3.9)	# 6
725*	3	.875 (22.2)	.312 (7.9)	.406 (10.3)	.187 (4.7)	.187 (4.7)	# 8
726*	3	1.062 (27.0)	.437 (11.1)	.468 (11.9)	.234 (5.9)	.200 (5.1)	# 10
727	3	.562 (14.3)	.375 (9.5)	.218 (5.5)	.187 (4.7)	.115 (2.9)	# 4
728	3	.750 (19.1)	.437 (11.1)	.265 (6.7)	.250 (6.4)	.148 (3.8)	# 6
729	3	.937 (23.8)	.625 (15.9)	.359 (9.1)	.328 (8.3)	.174 (4.4)	# 8

*Grey - all others Black

SELF-LOCKING BUMPER FOOT



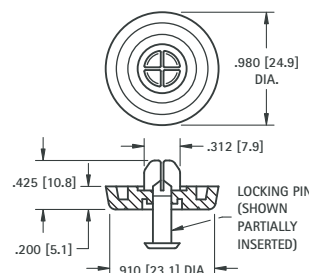
MATERIAL:

Foot: Santoprene, Black **Pin:** Polypropylene, Black

Mounting Hole: .305 (7.8) diameter

CAT. NO. 717

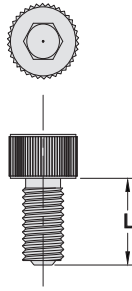
- A unique easy-to-install self-locking bumper foot
- Two piece assembly, furnished pre-assembled
- Vibration absorbing and skid resistant
- Mounts without screws or tools



TITANIUM SOCKET HEAD SCREWS



MATERIAL: Titanium, Grade 2



- **Lightweight:** Titanium is 40% lighter than carbon steel and stainless steel
- **Superior Corrosion Resistance:** Titanium has excellent resistance to acid and alkali
- **High Strength:** Highest strength to weight ratio
- **Other Features:** Extremely low magnetism. Low temperature tenacity. Non-Toxic. Low coefficient of thermal conductivity and expansion.

METRIC				
LENGTH	M3 CAT. NO.	M4 CAT. NO.	M5 CAT. NO.	M6 CAT. NO.
10	25031	25041	25051	25061
20	25033	25043	25053	25062
30	25035	25045	25055	25063
40	—	—	—	25067

IMPERIAL/INCH						
LENGTH	10-32 CAT. NO.	2-56 CAT. NO.	4-40 CAT. NO.	6-32 CAT. NO.	8-32 CAT. NO.	1/4-20 CAT. NO.
.250 (6.35)	21004	21204	21404	21604	21804	21904
.375 (9.52)	21006	21206	21406	21606	21806	21906
.500 (12.70)	21008	21208	21408	21608	21808	21908
.625 (15.87)	21010	—	21410	21610	21810	21910
.750 (19.04)	21012	—	—	21612	21812	21912

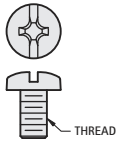
See web for additional lengths

BINDING HEAD SCREWS – COLORED HEAD



Ideal for quick identification of screw terminal. Reduces errors in wiring of cables. See pages 72-76 for screw terminals with colored screws installed. Only head is painted, provides reliable electrical contact to terminal.

MATERIAL: Brass, Nickel Plate with Painted Color Head



M4 × 6.3mm L	M3 × 6mm L	HEAD COLOR	6-32 × 250 (6.3) L
CAT. NO.	CAT. NO.		CAT. NO.
7799-1	7689-1	NICKEL	8190-1
9192-2	9191-2	RED	9190-2
9192-3	9191-3	BLACK	9190-3
9192-4	9191-4	WHITE	9190-4
9192-5	9191-5	BLUE	9190-5
9192-6	9191-6	GREEN	9190-6
9192-7	9191-7	YELLOW	9190-7

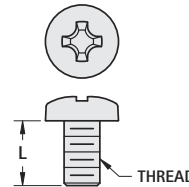
STAINLESS STEEL PAN HEAD SCREWS

Phillips drive pan head machine screws.



MATERIAL: Stainless Steel

CAT. NO.	L LENGTH	THREAD
9900	.250 (6.4)	4-40
9901	.375 (9.5)	
9902	.500 (12.7)	
9903	.250 (6.4)	6-32
9904	.375 (9.5)	
9905	.500 (12.7)	
9906	.375 (9.5)	8-32
9907	.500 (12.7)	
9908	.750 (19.1)	
9909	.375 (9.5)	10-32
9910	.500 (12.7)	
9911	.750 (19.1)	



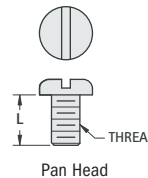
MACHINE SCREWS



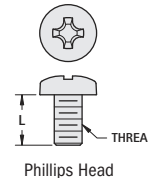
MATERIALS AVAILABLE:

- Steel: Zinc Plate (RoHS Compliant)
- Nylon: 6/6, UL Rated 94V-2
- Stainless Steel

METRIC					
PAN SLOTTED HEAD		L	PAN PHILLIPS HEAD		
STEEL	NYLON		STEEL	NYLON	
CAT. NO.	CAT. NO.		CAT. NO.	CAT. NO.	CAT. NO.
M2.5 THREAD					
29300	29330	4	29400	29430	
29301	29331	6	29401	29431	
29304	29334	12	29404	29434	
29306	29336	16	—	—	
M3 THREAD					
29311	29341	6	29411	29441	
29314	29344	12	29414	29444	
29316	29346	16	29416	29446	
29318	29348	25	—	—	
M4 THREAD					
29321	29351	6	29421	29451	
29324	29354	12	29424	29454	
29326	29356	16	—	—	
29328	29358	25	—	—	



Pan Head

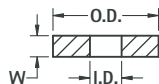


Phillips Head

IMPERIAL/INCH						
THREAD	LENGTH	PAN SLOTTED HEAD		PAN PHILLIPS HEAD		
		STEEL CAT. NO.	NYLON CAT. NO.	STAINLESS CAT. NO.	STEEL CAT. NO.	NYLON CAT. NO.
4-40	.250 (6.4)	9300	9327	9900	9360	9365
	.375 (9.5)	9301	9328	9901	9361	9366
	.500 (12.7)	9302	9329	9902	9362	9367
6-32	.250 (6.4)	9307	9334	9903	9370	9375
	.375 (9.5)	9308	9335	9904	9371	9376
	.500 (9.5)	9309	9336	9905	9372	9377
8-32	.750 (19.1)	9311	9337	9912	9374	9379
	.375 (9.5)	9317	9344	9906	9381	9386
	.500 (12.7)	9318	9345	9907	9382	9387



FLAT WASHERS – NYLON & FIBRE



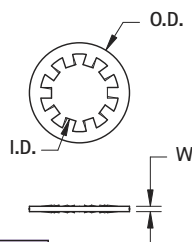
MATERIAL:

Fibre: Commercial Grade per ASTM D710 **Nylon:** Grade 6/6 per ASTM D4066

MATERIAL	I.D.	O.D.	W THICKNESS		
			.032 (.81)	.047 (1.19)	.062 (1.57)
			CAT. NO.	CAT. NO.	CAT. NO.
FIBRE	.098 (2.49) #2	.187 (4.8)	3111	3148	3366
		.250 (6.4)	3112	3149	3367
		.312 (7.9)	3113	3150	3194
NYLON	.098 (2.49) #2	.187 (4.8)	3114	3151	3356
		.250 (6.4)	3347*	3152	3357*
		.312 (7.9)	3115	3153	3195
FIBRE	.120 (3.05) #4	.250 (6.4)	3116	3154	3368
		.312 (7.9)	348	3155	3196
		.375 (9.5)	3117	3156	3197
NYLON	.120 (3.05) #4	.250 (6.4)	3348	345	3358
		.312 (7.9)	3359	3157	3198
		.375 (9.5)	3118	3158	3200
FIBRE	.140 (3.56) #6	.250 (6.4)	3119	3159	3369
		.312 (7.9)	3120	3160	3370
		.375 (9.5)	3121	3161	3201
NYLON	.140 (3.56) #6	.250 (6.4)	3122	3162	3360
		.312 (7.9)	3349	346	3361
		.375 (9.5)	3123	3163	3202
FIBRE	.171 (4.34) #8	.312 (7.9)	3124	3164	3203
		.375 (9.5)	3125	3165	3372
		.437 (11.1)	3126	3166	3204
NYLON	.171 (4.34) #8	.312 (7.9)	3127	3167	3205
		.375 (9.5)	3350	3168	3363
		.437 (11.1)	3128	3169	3206
FIBRE	.196 (4.98) #10	.312 (7.9)	349	3170	3207
		.375 (9.5)	3129	3171	3208
		.437 (11.1)	3130	3172	3209
NYLON	.196 (4.98) #10	.500 (12.7)	3131	3173	3210
		.312 (7.9)	3364	3174	3211
		.375 (9.5)	3352	3175	3212
FIBRE	.260 (6.60) 1/4"	.437 (11.1)	3132	3176	3213
		.500 (12.7)	3133	3177	3214
		.437 (11.1)	3134	3178	3215
NYLON	.260 (6.60) 1/4"	.500 (12.7)	3135	3179	3373
		.625 (15.9)	3136	3180	3216
		.750 (19.1)	3137	3181	3217
FIBRE	.385 (9.65) 3/8"	.437 (11.1)	3138	3182	3218
		.500 (12.7)	3353	3183	3365
		.625 (15.9)	3139	3184	3219
NYLON	.385 (9.65) 3/8"	.750 (19.1)	3140	3185	3220
		.500 (12.7)	3141	3186	3221
		.625 (15.9)	3142	3187	3222
FIBRE	.385 (9.65) 3/8"	.750 (19.1)	3143	3188	3223
		1.000 (25.4)	3144	3189	3224
		.500 (12.7)	3145	3190	3225
NYLON	.385 (9.65) 3/8"	.625 (15.9)	3354	3191	3226
		.750 (19.1)	3146	3192	3227
		1.000 (25.4)	3147	3193	3228

* .090 (2.3) I.D.

INTERNAL TOOTH WASHERS

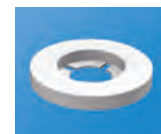
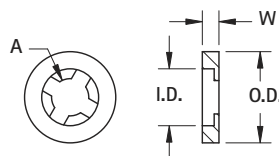


MATERIAL: Phosphor Bronze - Nickel Plate

CAT. NO.	I.D.	O.D.	W	SCREW SIZE
11360-4	.120 (3.1)	.265 (6.7)	.017 (.43)	#4 (M3)
11362-5	.226 (5.7)	.402 (10.2)	.020 (.51)	#12 (M5)
4691	.261 (6.6)	.469 (11.9)	.025 (.63)	1/4" (M6)

NYLON RETAINING WASHERS

Retaining Washers are similar to our standard washers, but with a specially configured ID designed to grip the screw shank. The washer remains attached to the screw, for quick, easy assembly.

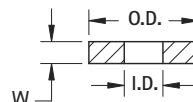


MATERIAL:

Nylon, 6/6 UL Rated 94V-0

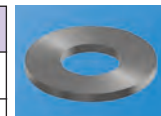
W THICKNESS		I.D.	A	O.D.	SCREW SIZE
.032 (0.81)	.062 (1.57)				
CAT. NO.	CAT. NO.				
2244	2284	.115 (2.9)	.078 (1.9)	.203 (5.2)	#2 (M2)
2245	2285	.156 (3.9)	.102 (2.6)	.256 (6.7)	#4
2246	2286	.198 (5.0)	.128 (3.3)	.328 (8.3)	#6 (M3.5)
2247	2287	.235 (5.9)	.152 (3.8)	.390 (9.9)	#8 (M4)
2248	—	.235 (5.9)	.135 (3.4)	.390 (9.9)	#8 (M4)
2249	—	.227 (7.0)	.177 (4.5)	.453 (11.5)	#10
—	2290	.227 (7.0)	.177 (4.5)	.500 (12.7)	#10
—	2291	.227 (7.0)	.177 (4.5)	.630 (16.0)	#10
2252	2292	.375 (9.5)	.234 (5.9)	.593 (15.1)	#1/4 (M6)
2253	2293	.564 (14.3)	.350 (8.9)	.890 (22.6)	#3/8

STEEL WASHERS

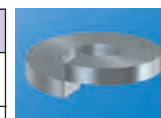


MATERIAL: Steel, Zinc Plate

FLAT CAT. NO.	I.D.	O.D.	W	SCREW SIZE
4692	.128 (3.3)	.281 (7.1)	.025 (.63)	#4 (M3)
7235-1	.120 (3.1)	.220 (5.6)	.032 (.81)	
4699	.147 (3.7)	.373 (9.5)	.031 (.80)	#6 (M3.5)
4703	.200 (5.1)	.436 (11.1)	.033 (.84)	#10 (M4)
1719-1	.391 (9.9)	1.500 (38.1)	.094 (2.4)	3/8"



LOCK CAT. NO.	I.D.	O.D.	W	SCREW SIZE
4693	.117 (3.0)	.205 (5.2)	.031 (.78)	#4 (M3)
7235-2	.117 (3.0)	.197 (5.0)	.025 (.63)	
4700	.144 (3.7)	.250 (6.4)	.033 (.84)	#6 (M3.5)
1477	.195 (5.0)	.320 (8.1)	.047 (1.2)	#10 (M4)
1476	.256 (6.5)	.479 (12.2)	.074 (1.9)	1/4" (M6)
1485	.321 (8.2)	.586 (14.8)	.078 (2.0)	5/16" (M8)



HEX MACHINE NUTS

MATERIAL: Nylon 6/6 UL Rated 94V-2 Steel, Zinc Plate

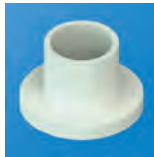
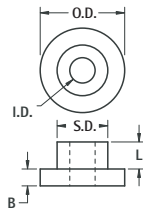


IMPERIAL			
STEEL CAT. NO.	NYLON CAT. NO.	HEX	THREAD
4694	—	.187 (4.7)	4-40
9600	9605	.250 (6.4)	
4701	—	.250 (6.4)	6-32
9602	9606	.312 (7.9)	
9603	—	.250 (6.4)	8-32
9604	9607	.312 (7.9)	
4705	9608	.375 (9.5)	10-32
4713	—	.430 (10.9)	
4716	—	.500 (12.7)	.312-24

METRIC			
STEEL CAT. NO.	NYLON CAT. NO.	HEX	THREAD
4707	4687	5.00 mm	M2.5
4708	4688	5.50 mm	M3
4709	4689	7.00 mm	M4



NYLON SHOULDER WASHER/BUSHINGS

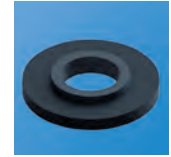
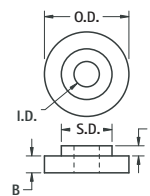


MATERIAL: Nylon 6/6 per ASTM D4066

CAT. NO.	L	O.D.	B	I.D.	S.D.	SCREW SIZE
7680	.025 (.64)	.260 (6.6)	.030 (.76)	.095 (2.4)	.154 (3.9)	#2
3051	.125 (3.2)	.181 (4.6)	.047 (1.2)	.090 (2.3)	.120 (3.1)	
3101	.187 (4.8)	.181 (4.6)	.047 (1.2)	.090 (2.3)	.120 (3.1)	
3052	.250 (6.4)	.181 (4.6)	.047 (1.2)	.090 (2.3)	.120 (3.1)	
3049*	.031 (.79)	.218 (5.5)	.040 (1.0)	.115 (2.9)	.135 (3.4)	#4
7681	.047 (1.2)	.250 (6.4)	.032 (.81)	.115 (2.9)	.185 (4.7)	
3053	.093 (2.4)	.235 (6.0)	.047 (1.2)	.115 (2.9)	.145 (3.7)	
3102	.125 (3.2)	.235 (6.0)	.047 (1.2)	.115 (2.9)	.145 (3.7)	
3103	.187 (4.7)	.235 (6.0)	.047 (1.2)	.115 (2.9)	.145 (3.7)	#6
340	.250 (6.4)	.235 (6.0)	.047 (1.2)	.115 (2.9)	.145 (3.7)	
7682	.032 (.81)	.385 (9.8)	.062 (1.6)	.145 (3.7)	.240 (6.1)	
7683	.032 (.81)	.250 (6.4)	.062 (1.6)	.140 (3.6)	.187 (4.7)	
7684	.032 (.81)	.312 (7.9)	.062 (1.6)	.140 (3.6)	.187 (4.7)	#8
3054	.125 (3.2)	.290 (7.4)	.047 (1.2)	.140 (3.6)	.170 (4.3)	
3104	.187 (4.7)	.290 (7.4)	.047 (1.2)	.140 (3.6)	.170 (4.3)	
341	.250 (6.4)	.290 (7.4)	.047 (1.2)	.140 (3.6)	.170 (4.3)	
3055	.500 (12.7)	.290 (7.4)	.047 (1.2)	.140 (3.6)	.170 (4.3)	#10
7685	.032 (.81)	.375 (9.5)	.032 (.81)	.171 (4.3)	.250 (6.4)	
3056	.140 (3.6)	.344 (8.7)	.062 (1.6)	.171 (4.3)	.205 (5.2)	
3105	.250 (6.4)	.344 (8.7)	.062 (1.6)	.171 (4.3)	.205 (5.2)	
342	.375 (9.5)	.344 (8.7)	.062 (1.6)	.171 (4.3)	.205 (5.2)	#10
3106	.500 (12.7)	.344 (8.7)	.062 (1.6)	.171 (4.3)	.205 (5.2)	
7686	.032 (.81)	.375 (9.5)	.062 (1.6)	.196 (5.0)	.308 (7.8)	
3107	.093 (2.4)	.438 (11.1)	.062 (1.6)	.200 (5.1)	.260 (6.6)	#10
3108	.250 (6.4)	.399 (10.1)	.062 (1.6)	.200 (5.1)	.260 (6.6)	
3057	.500 (12.7)	.399 (10.1)	.062 (1.6)	.200 (5.1)	.260 (6.6)	
3058	.750 (19.1)	.399 (10.1)	.062 (1.6)	.200 (5.1)	.260 (6.6)	
7687	.032 (.81)	.437 (11.1)	.032 (.81)	.253 (6.4)	.310 (7.9)	#250-20
7688	.078 (2.0)	.492 (12.7)	.032 (.81)	.260 (6.7)	.312 (7.9)	
3059	.187 (4.7)	.513 (13.0)	.062 (1.6)	.260 (6.7)	.312 (7.9)	
3109	.250 (6.4)	.513 (13.0)	.062 (1.6)	.260 (6.7)	.312 (7.9)	
3110	.375 (9.5)	.513 (13.0)	.062 (1.6)	.260 (6.7)	.312 (7.9)	#250-20
3060	.500 (12.7)	.513 (13.0)	.062 (1.6)	.260 (6.7)	.312 (7.9)	

* Black

FIBRE SHOULDER WASHERS



MATERIAL: Fibre, Commercial Grade per ASTM D710

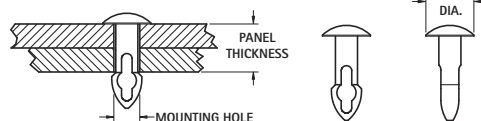
CAT. NO.	L	O.D.	B	I.D.	S.D.	SCREW SIZE
3229	.025 (.64)	.250 (6.4)	.047 (1.2)	.093 (2.4)	.123 (3.1)	#2
3061	.025 (.64)	.250 (6.4)	.047 (1.2)	.093 (2.4)	.156 (4.0)	
344	.015 (.38)	.312 (7.9)	.062 (1.6)	.125 (3.2)	.203 (5.2)	#4
343	.025 (.64)	.312 (7.9)	.062 (1.6)	.125 (3.2)	.203 (5.2)	
3062	.031 (.79)	.250 (6.4)	.031 (.79)	.115 (2.9)	.187 (4.7)	
3230	.031 (.79)	.281 (7.1)	.062 (1.6)	.115 (2.9)	.175 (4.4)	
3231	.031 (.79)	.312 (7.9)	.062 (1.6)	.120 (3.1)	.180 (4.6)	#6
4698	.031 (.79)	.250 (6.4)	.062 (1.6)	.140 (3.6)	.187 (4.7)	
3064	.031 (.79)	.312 (7.9)	.062 (1.6)	.140 (3.6)	.187 (4.7)	
3232	.031 (.79)	.375 (9.5)	.062 (1.6)	.140 (3.6)	.210 (5.3)	
3233	.031 (.79)	.375 (9.5)	.062 (1.6)	.140 (3.6)	.240 (6.1)	#8
3234	.031 (.79)	.500 (12.7)	.062 (1.6)	.140 (3.6)	.240 (6.1)	
3065	.031 (.79)	.375 (9.5)	.062 (1.6)	.170 (4.3)	.246 (6.2)	
3066	.031 (.79)	.417 (10.6)	.062 (1.6)	.170 (4.3)	.210 (5.3)	
3235	.031 (.79)	.312 (7.9)	.062 (1.6)	.170 (4.3)	.218 (5.5)	#10
3236	.031 (.79)	.375 (9.5)	.062 (1.6)	.170 (4.3)	.215 (5.5)	
3237	.031 (.79)	.500 (12.7)	.062 (1.6)	.170 (4.3)	.240 (6.1)	
4702	.031 (.79)	.375 (9.5)	.062 (1.6)	.194 (4.9)	.308 (7.8)	
3238	.031 (.79)	.375 (9.5)	.062 (1.6)	.194 (4.9)	.240 (6.1)	#10
3239	.031 (.79)	.500 (12.7)	.062 (1.6)	.196 (5.0)	.240 (6.1)	
4711	.031 (.79)	.500 (12.7)	.062 (1.6)	.253 (6.4)	.308 (7.8)	
3240	.031 (.79)	.625 (15.9)	.062 (1.6)	.265 (6.7)	.359 (9.1)	.250-20
3069	.031 (.79)	.625 (15.9)	.062 (1.6)	.385 (9.8)	.498 (12.6)	#375-24
3241	.031 (.79)	.750 (19.1)	.062 (1.6)	.385 (9.8)	.498 (12.6)	

WASHERS & CLIPS

KEY HOLE CLIPS



- Key hole design allows for easy installation of the fastener
- Can be hand installed, no tooling required
- One piece design, can be removed and reused with no missing parts
- Bullet tip helps to align panels during the assembly process
- Tapered locking shank provide a tight fit between the two panels
- Domed head provides a clean appearance to top panel

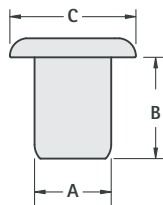


MATERIAL: Nylon 6/6 UL Rated 94V-2, Black

CAT. NO.	PANEL THICKNESS	HOLE SIZE	HEAD DIA.
3300	.093 (2.4)	.125 (3.2)	.250 (6.4)
3301	.125 (3.2)		
3302	.156 (4.0)		
3303	.187 (4.8)		
3305	.250 (6.4)	.158 (4.0)	.312 (7.9)
3310	.093 (2.4)		
3311	.125 (3.2)		
3312	.156 (4.0)		
3313	.187 (4.8)	.187 (4.8)	.312 (7.9)
3315	.250 (6.4)		
3320	.125 (3.2)		
3321	.156 (4.0)		
3322	.187 (4.8)	.219 (5.6)	.344 (8.7)
3324	.250 (6.4)		
3330	.156 (4.0)		
3331	.187 (4.8)		
3333	.250 (6.4)	.312 (7.9)	
3335	.312 (7.9)		



A choice of the most popular sizes in use for PC board and electronic assembly applications.

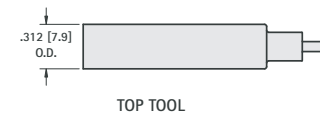


MATERIAL: Brass, Bright Electro Tin, MIL-T-10727. Other platings can be furnished.

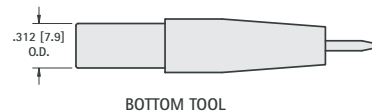
CAT. NO.	A OUTSIDE DIAMETER BARREL	B LENGTH UNDER FLANGE	C FLANGE DIAMETER	MTG. HOLE SIZE	STAKING TOOL CAT. NO.
22		.062 (1.57)			
23		.093 (2.36)			
24	.059 (1.49) O.D.	.125 (3.18)	.105 (2.7)	.062 (1.57) USE DRILL #51	3075
25	.045 (1.14) I.D.	.156 (3.96)			
26		.187 (4.75)			
27		.219 (5.56)			
33		.093 (2.36)			
34	.089 (2.26) O.D.	.125 (3.18)	.150 (3.8)	.093 (2.36) USE DRILL #42	3076
35	.070 (1.78) I.D.	.156 (3.96)			
36		.187 (4.75)			
37		.219 (5.56)			
43		.093 (2.36)			
44		.125 (3.18)			
45	.121 (3.07) O.D.	.156 (3.96)	.200 (5.1)	.125 (3.18) USE DRILL #30	3077
46	.102 (2.59) I.D.	.187 (4.75)			
47		.219 (5.56)			
48		.250 (6.35)			
14		.125 (3.18)			
15	.152 (3.86) O.D.	.156 (3.96)	.245 (6.2)	.156 (3.96) USE DRILL 5/32"	3079
16	.132 (3.35) I.D.	.187 (4.75)			
17		.219 (5.56)			

STAKING TOOLS

Set consisting of top and bottom tool. Made from Tool Steel and highly polished.



TOP TOOL

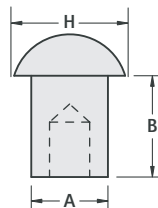


BOTTOM TOOL

SEMI-TUBULAR RIVETS



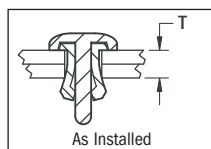
These standardized brass rivets typify the scope and variety of popular rivets that will provide faster and stronger assemblies at lower cost. We suggest you rivet and test a sample before purchasing large quantities for your application.



MATERIAL: Brass, Nickel Plate

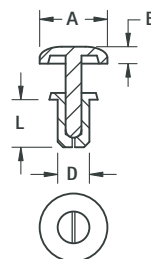
CAT. NO.	B LENGTH UNDER HEAD	A SHANK DIAMETER	H HEAD DIAMETER	MTG. HOLE SIZE
3381	.125 (3.2)			
3382	.156 (3.9)	.060 (1.55)	.109 (2.8)	.067 (1.70) Dia. USE DRILL #51
3383	.187 (4.8)			
3384	.156 (3.9)			
3385	.187 (4.8)	.087 (2.21)	.147 (3.7)	.093 (2.36) Dia. USE DRILL #42
3386	.218 (5.5)			
3387	.250 (6.4)			
3388	.156 (3.9)			
3389	.187 (4.8)	.120 (3.06)	.218 (5.5)	.128 (3.25) Dia. USE DRILL #30
3390	.218 (5.5)			
3391	.250 (6.4)			

SNAP RIVETS

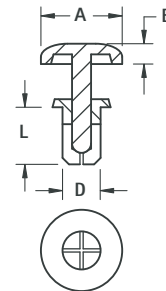


Attach panels and mounting hardware without any tooling. Leaves a clean cosmetic look once installed. Can be installed without access to underside. Removable so assembly can be easily repaired or upgraded.

DWG. 1



DWG. 2



CAT. NO.	DWG.	T PANEL THICKNESS	L RIVET LENGTH	D RIVET DIAMETER	A HEAD DIAMETER	B HEAD HEIGHT	MTG. HOLE SIZE
3440	1	.051/.079 (1.3/2.0)	.130 (3.3)				
3441	1	.083/.110 (2.1/2.8)	.160 (4.0)	.076 (1.9)	.165 (4.2)	.047 (1.2)	.083/.087 (2.1/2.2)
3442	1	.114/.142 (2.9/3.6)	.190 (4.8)				
3443	2	.118/.157 (3.0/4.0)	.220 (5.6)				
3444	2	.146/.181 (3.7/4.6)	.240 (6.1)	.138 (3.5)	.252 (6.4)	.063 (1.6)	.142/.146 (3.6/3.7)
3445	2	.177/.217 (4.5/5.5)	.280 (7.1)				
3446	2	.217/.256 (5.5/6.5)	.310 (7.9)				
3447	2	.177/.217 (4.5/5.5)	.280 (7.1)				
3448	2	.217/.256 (5.5/6.5)	.310 (7.9)	.158 (4.0)	.315 (8.0)	.071 (1.8)	.161/.165 (4.1/4.2)
3449	2	.256/.295 (6.5/7.5)	.350 (9.0)				
3450	2	.295/.335 (7.5/8.5)	.390 (10.0)				

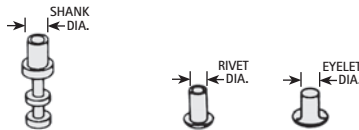
MATERIAL: Nylon 6/6, UL Rated 94V-2, Black

"BASIC" STAKING KIT

This kit provides the basic components needed to stake a majority of our most popular sizes of eyelets, rivets and terminals. The unskilled operator can produce professional looking assemblies quickly and with minimal training.



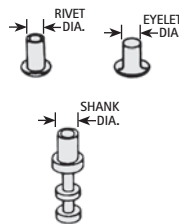
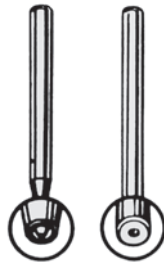
CAT. NO. 1721 COMPLETE KIT



CAT. NO.	CONSISTS OF ONE EACH:
1714	Top Setting Tool
1715	Anvil Holder
1716	Bottom Anvil
1717	

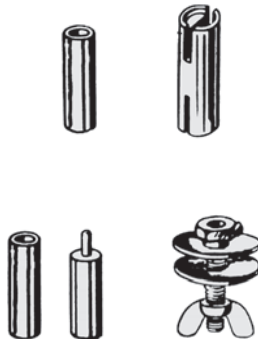
"MASTER" STAKING KIT

This kit provides all of the components needed to stake most terminals, standoffs, eyelets or rivets. This kit also includes sprung receding pins so that eyelets can be prealigned for easy assembly of components. Kit supplied in convenient plastic case for ease of use.



CAT. NO.	CONSISTS OF ONE EACH:
1714	Top Swaging Tool
1715	
1304	
1305	
1306	
1307	
1324	
1719	Anvil Holder
1325	Anvil for 6-32 Standoffs
1326	Anvil for Turret Terminals
1716	
1717	
1722	
1726	Anvil for Fork Turret Terminals
1315	Receding Pin - .045 (1.15) Dia.
1316	Receding Pin - .069 (1.75) Dia.
1321	Return Spring for Receding Pins

CAT. NO. 1713 COMPLETE KIT



INDIVIDUAL TOOLS

TOP SETTING TOOLS (Swager)

1/4" Diameter Tools

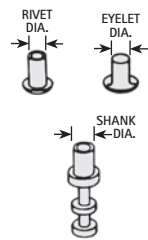
For Single End Terminals, Eyelets or Rivets

CAT. NO.	FOR SHANK DIA.
1714	.062 (1.57) to .098 (2.49)
1715	.110 (2.8) to .125 (3.2)
1328	.130 (3.3) to .140 (3.6)
1324	.180 (4.5) to .190 (4.8)

For Double End (Feed-Thru)

Hole in tool fits over Pin head and securely stakes the rivet part of terminal.

CAT. NO.	FOR PIN ON RIVET END
1304	.051 (1.30) Hole Dia.
1305	.063 (1.60) Hole Dia.
1306	.073 (1.85) Hole Dia.
1307	.086 (1.49) Hole Dia.
1324	.098 (2.49) Hole Dia.

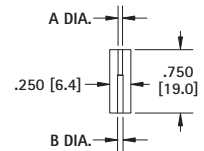


BOTTOM ANVILS

For Single End Terminals or Double End Terminals

Anvils have different size holes in each end therefore will accept 2 sizes of Pins of either Single or Double end Turret type Terminals.

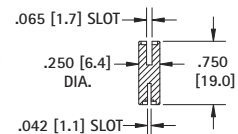
CAT. NO.	A DIA.	B DIA.
1722	.053 (1.35)	.065 (1.65)
1716	.070 (1.78)	.100 (2.54)
1717	.128 (3.25)	.152 (3.86)



ANVILS FOR FORK TERMINALS

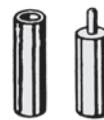


Accepts Diameter of 3/32 to 5/32 at one end and diameter of 3/16 other end .040 (1.0) slot one end and .060 (1.52) slot at other end.



CAT. NO. 1726

ANVILS FOR SWAGE SPACERS



CAT. NO.	BUSHING SIZE
1326	Holds Bushing with 5/32" O.D.
1325	For Bushing with 6-32" Thread
1309	For Bushing with 4-40 Thread

TOOL HOLDERS



Tool holders will hold all .250 (6.4) diameter anvils. May be used with receding pin and return spring to hold eyelets in place during the staking process.

CAT. NO. 1719

"IMPACT" STAKING KIT

All that is required to stake almost all swage components. Just press down and it stakes. Tools provided allow bench top staking with out setting up arbor or drill press. Staking tool can be adjusted

to provide heavy to light blows. Receding sprung pins can be assembled into anvil to locate eyelets for easy assembly of components. Kit supplied in convenient plastic case for ease of use.

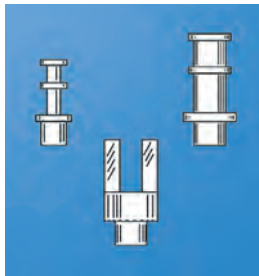


CAT. NO. 1707 COMPLETE KIT

CAT. NO.	CONSISTS OF ONE EACH:
TOOLS	
1302	Impact Handle
1300	Anvil Tool Holder Base
SWAGING TOOLS	
1312	.040 (1.02) to .072 (1.83)
1313	.078 (1.98) to .093 (2.36)
SWAGING TOOLS FOR DOUBLE ENDED TURRET	
1310	.053 (1.35) Diameter Hole
1311	.062 (1.57) Diameter Hole
ANVIL COMPONENTS	
1716	Anvil for Turret Terminals
1717	
1722	
1726	Anvil for Fork Turret Terminals
1315	Receding Pin - .045 (1.15) Dia.
1316	Receding Pin - .069 (1.75) Dia.
1321	Return Spring for Receding Pins

STYLES

- **Single, double and triple turrets**
- **Double-ended** (feed-thru)
- **Split-type** (fork)
- **Tubular** (hollow)
- Swage and thread mounting types available
- Bright Tin plated for extended shelf life and excellent solderability
- Wide variety of sizes to suit space and wire size requirements



SPECIFICATIONS

MATERIAL: Brass - Per ASTM-B16, Bright Electro-Tin per MIL-T-10727 Type 1. Other platings available upon request.

SPECIAL TERMINALS

Custom terminals can be manufactured to your specifications. Complete facilities available to meet your production requirements. Quotations on special terminals furnished promptly upon receipt of sample, sketch or print.

CUSTOM BUILT TERMINAL BOARDS

We are specialists in the assembly of terminals, eyelets, clips and special hardware. Quotations on special terminal boards furnished promptly upon receipt of sample, sketch or print. Assembly service using customer supplied materials also available. (Refer to page 146 for standard terminal boards.)

ORDERING INFORMATION

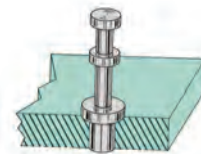
Keystone standardized terminals are available for various board thicknesses.

To specify a terminal, select the "CAT. NO." and "DASHED NUMBER" that corresponds with the board thickness to be used.

DASH NUMBERS (Board Thicknesses)

- 1 for .032 (.81) thick Board
- 2 for .062 (1.57) thick Board
- 3 for .093 (2.36) thick Board
- 4 for .125 (3.2) thick Board

Example: 1503-1 for .032 (.81) thick Board
1503-2 for .062 (1.57) thick Board



STAKING TOOLS

For easy mounting of terminals to insulators and PC boards. Standard and "special order" staking tools are available. Cat. No. "TL" designates a tool consisting of a TOP STAKING PUNCH and a BOTTOM ANVIL. Manufactured from steel with zinc plate. Punch and anvil are precision machined and hardened to insure long life. Refer to pages 143-145.

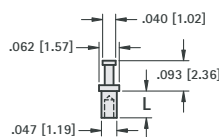
CUSTOM BUILT STAKING TOOLS

Custom prototype and production staking tools can be furnished for Single-End, Double-End, Fork Terminals, Extruded Lugs, Eyelets, Rivets, etc. Contact our Engineering Department for details.



SINGLE, DOUBLE & TRIPLE TURRET

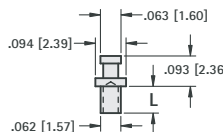
1528



Staking Tool 1528-TL

CAT. NO.	L
1528-1	.051 (1.30)
1528-2	.082 (2.08)
1528-3	.113 (2.8)
1528-4	.145 (3.6)

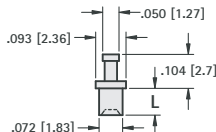
1508



Staking Tool No. TL-1

CAT. NO.	L
1508-1	.053 (1.35)
1508-2	.084 (2.13)
1508-3	.115 (2.9)
1508-4	.147 (3.7)

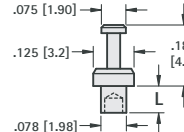
1572



Staking Tool No. TL-1

CAT. NO.	L
1572-1	.051 (1.30)
1572-2	.082 (2.08)
1572-3	.113 (2.8)

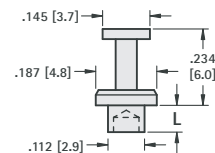
1520



Staking Tool No. TL-2

CAT. NO.	L
1520-1	.078 (1.98)
1520-2	.109 (2.8)
1520-3	.141 (3.5)

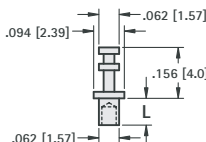
1532



Staking Tool No. TL-8

CAT. NO.	L
1532-1	.078 (1.98)
1532-2	.109 (2.8)
1532-3	.141 (3.5)
1532-4	.172 (4.4)

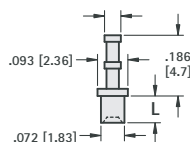
1593



Staking Tool No. TL-1

CAT. NO.	L
1593-1	.054 (1.37)
1593-2	.084 (2.13)
1593-3	.115 (2.9)

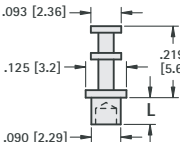
1573



Staking Tool No. TL-1

CAT. NO.	L
1573-1	.051 (1.30)
1573-2	.082 (2.08)
1573-3	.113 (2.8)

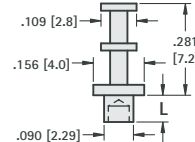
1502



Staking Tool No. TL-2

CAT. NO.	L
1502-1	.078 (1.98)
1502-2	.109 (2.8)
1502-3	.141 (3.5)
1502-4	.172 (4.4)

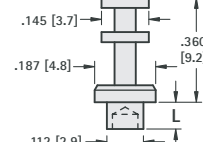
1514



Staking Tool No. TL-5

CAT. NO.	L
1514-2	.109 (2.8)
1514-3	.141 (3.5)

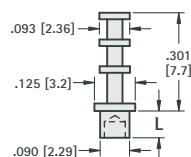
1503



Staking Tool No. TL-8

CAT. NO.	L
1503-2	.109 (2.8)
1503-3	.141 (3.5)
1503-4	.172 (4.4)

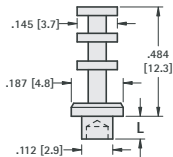
1598



Staking Tool No. TL-2

CAT. NO.	L
1598-1	.062 (1.57)
1598-2	.094 (2.39)
1598-3	.125 (3.2)

1527

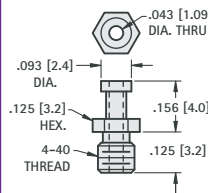


Staking Tool No. TL-8

CAT. NO.	L
1527-2	.109 (2.8)
1527-3	.141 (3.5)

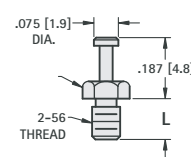
THREADED TURRETS

1563



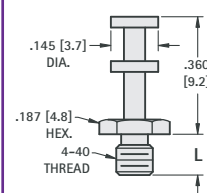
CAT. NO. 1563

1595



CAT. NO.	L
1595-1	.093 (2.36)
1595-2	.125 (3.2)
1595-3	.188 (4.8)

1587

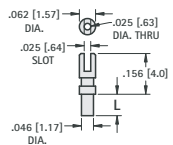


CAT. NO.	L
1587-1	.125 (3.2)
1587-2	.188 (4.8)

SPLIT-TYPE (FORK) TURRETS



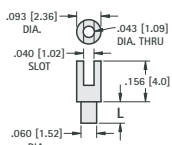
1515



Staking Tool 1515-TL

CAT. NO.	L
1515-1	.058 (1.47)
1515-2	.089 (2.26)
1515-3	.120 (3.1)

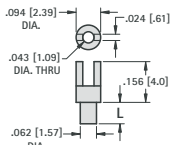
1533



Staking Tool Special Order

CAT. NO.	L
1533-2	.084 (2.13)
1533-4	.147 (3.7)

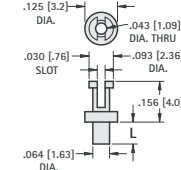
1526



Staking Tool No. TL-3

CAT. NO.	L
1526-1	.054 (1.37)
1526-2	.084 (2.13)
1526-3	.115 (2.9)

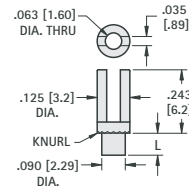
1592



Staking Tool No. TL-2

CAT. NO.	L
1592-1	.051 (1.30)
1592-2	.082 (2.08)
1592-3	.113 (2.8)

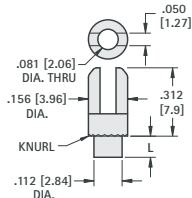
1511



Staking Tool No. TL-3

CAT. NO.	L
1511-2	.109 (2.8)
1511-3	.141 (3.5)

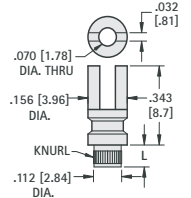
1510



Staking Tool No. TL-9

CAT. NO.	L
1510-2	.109 (2.8)
1510-3	.141 (3.5)

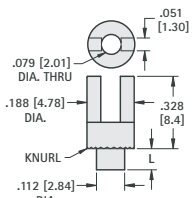
1525



Staking Tool No. TL-9

CAT. NO.	L
1525-2	.109 (2.8)
1525-3	.141 (3.5)
1525-4	.172 (4.4)

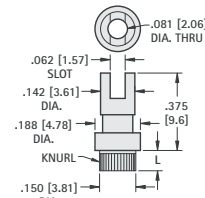
1507



Staking Tool No. TL-9

CAT. NO.	L
1507-2	.109 (2.8)
1507-3	.141 (3.5)

1557



Staking Tool Special Order

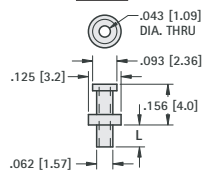
CAT. NO.	L
1557-2	.109 (2.8)
1557-3	.141 (3.5)
1557-4	.172 (4.4)

SPECIAL TURRET TERMINALS

Custom turret terminals can be machined to your exact specifications. Standard and special terminals can be staked onto special boards. Please email/fax your design to our Engineering Department.

TUBULAR TURRETS

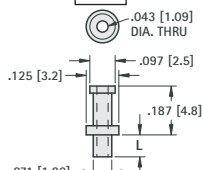
1562



Staking Tool No. TL-2

CAT. NO.	L
1562-1	.054 (1.37)
1562-2	.084 (2.13)
1562-3	.115 (2.9)

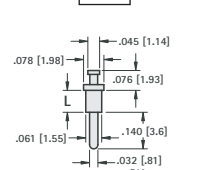
1559



Staking Tool No. TL-2

CAT. NO.	L
1559-1	.062 (1.57)
1559-2	.094 (2.39)
1559-3	.125 (3.2)
1559-4	.156 (3.9)

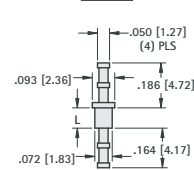
1633



Staking Tool Special Order

CAT. NO.	L
1633-1	.051 (1.30)
1633-2	.082 (2.08)
1633-3	.113 (2.8)
1633-4	.145 (3.6)

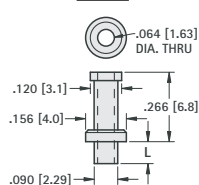
1583



Staking Tool No. TL-4

CAT. NO.	L
1583-1	.051 (1.30)
1583-2	.082 (2.08)
1583-3	.113 (2.8)

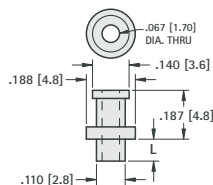
1540



Staking Tool No. TL-5

CAT. NO.	L
1540-2	.107 (2.7)
1540-3	.141 (3.5)
1540-4	.172 (4.4)

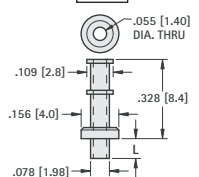
1519



Staking Tool No. TL-8

CAT. NO.	L
1519-2	.109 (2.8)
1519-3	.141 (3.5)
1519-4	.172 (4.4)

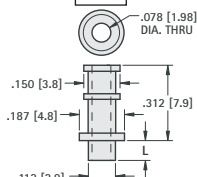
1582



Staking Tool No. TL-5

CAT. NO.	L
1582-2	.105 (2.7)
1582-3	.135 (3.4)

1509

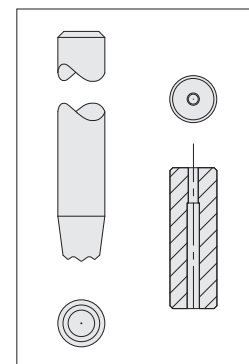
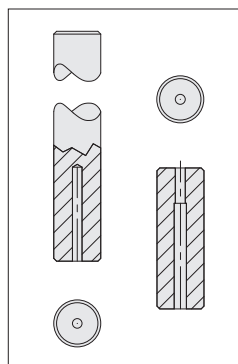


Staking Tool No. TL-8

CAT. NO.	L
1509-1	.078 (1.98)
1509-2	.109 (2.8)
1509-3	.141 (3.5)
1509-4	.172 (4.4)

STAKING TOOL KITS

Each Staking Tool Kit contains one Punch and one Anvil (See page 143 for individual tools in each kit.)



CAT. NO.	PUNCH	ANVIL
TL-1	1304	1722
TL-4	1305	1716
TL-10	1306	1716
TL-11	1307	1717
TL-12		

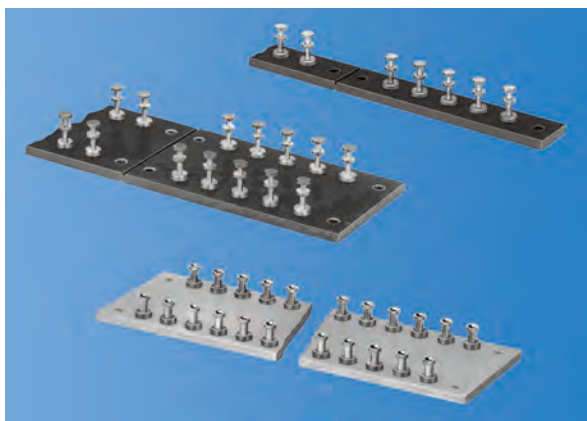
CAT. NO.	PUNCH	ANVIL
TL-1	1714	1722
TL-2	1714	1716
TL-3	1714	1726
TL-5	1714	1717
TL-8	1715	1717
TL-9	1715	1726



TURRET TERMINAL BOARDS

- Ready made terminal boards
- Save on tooling
- Economical
- Diverse range of sizes and terminal configurations
- Commercial and military specifications
- Custom terminal boards machined to your requirements

We offer a wide range of Turret Terminal Boards including: Scored, Miniature Turret, Thru Hole Turret, Military style, Single and Double Row Boards.

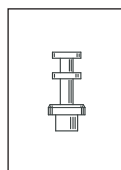


MATERIAL:

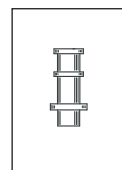
Terminals: Brass, Tin Plate

Available Board materials:

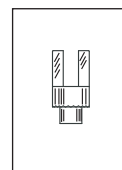
GEE (G10, Glass Epoxy)
PBE (XP Phenolic)
GPO-3 (Fiberglass)



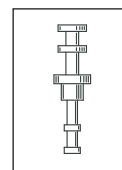
STANDARD



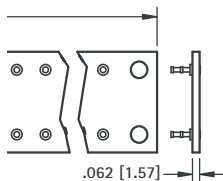
THRU HOLE



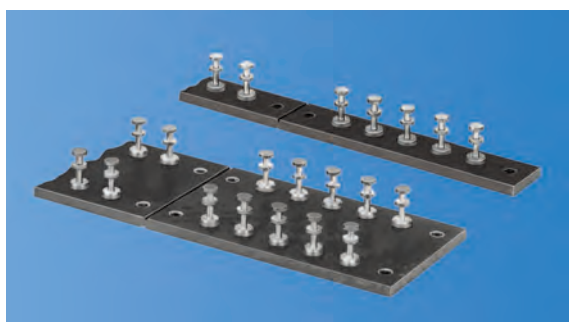
SPLIT



FEED THRU



MILITARY TERMINAL BOARDS



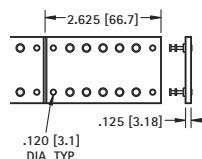
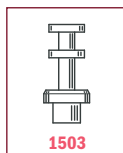
Terminal boards are manufactured as per Military specifications MS27249.

SPECIFICATIONS

Board Material: MIL-I-24768/27 TYPE GEE or TYPE GEB.
MIL-1-24768/3 .125 (3.2)

Terminal: SE12XC09 PER MIL-T-55155 Tin/Lead Plated
(Non-RoHS Compliant)

- Five sections **SCORED** for easy separation.
- Mounting holes in each section.



TERMINAL STRIPS

- Save Tooling
- Economical
- Complete Range of Sizes

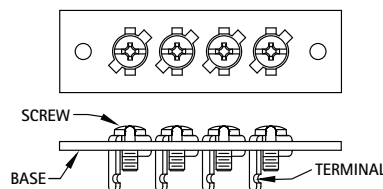
- Ready made terminal boards
- Save on tooling
- Economical
- Diverse range of sizes and terminal configurations
- Commercial and military specifications
- Custom terminal boards machined to your requirements
- Diverse range of sizes and terminal configurations
- Commercial and military specifications
- Custom terminal boards machined to your requirements



BINDING POST (SCREW) TERMINAL STRIPS



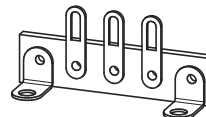
Screw terminal Boards can be used to connect to a stripped wire or wire with spade terminal. Ideal for configurable applications.



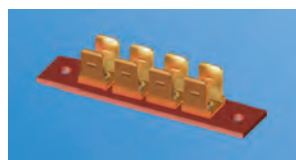
SOLDER TAB STRIPS



Solder Tab terminal strips provide a convenient solder point for wiring. Ideal for permanent applications.



QUICK-FIT TERMINAL STRIPS



Quick fit terminal Strips provide a convenient access point allowing wires with standard crimp terminals to be installed without any soldering. Ideal for maintenance items.

