

REJ.  RA



CAPTORES AÉREOS FYS / TERMINALES AÉREOS / PARARRAYOS

CAPTOR AÉREO CU CR FYS



- . No posee piezas móviles
- . Tecnología no radioactiva
- . Sin mantenimiento
- . 100% de eficacia en descarga
- . Nivel de protección alto

CÓDIGOS:

- ME 1279 - ME 1281
- ME1278

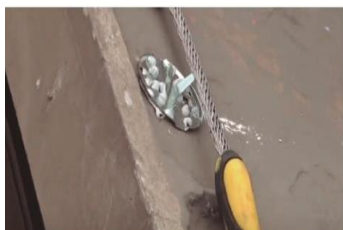
CAPTOR AÉREO CU CR FYS BASE GIRATORIA



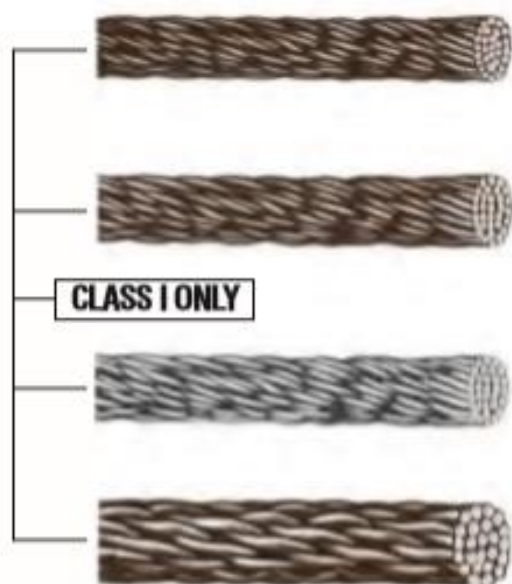
- . Posee base giratoria
- . Sin mantenimiento
- . Nivel de protección alto
- . No radioactiva.

CÓDIGOS:

- ME 1269
- ME 1270



MAIN/FULL SIZE COPPER CONDUCTORS



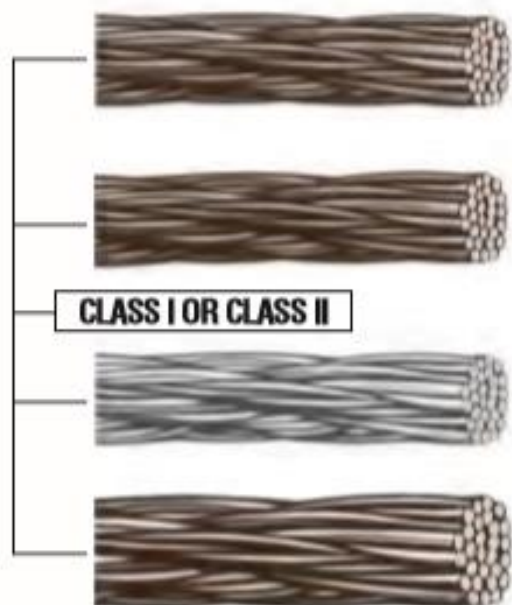
NO. 29X CENTURY—29 STRANDS OF 17 GAUGE COPPER WIRE, $\frac{3}{8}$ " DIAMETER, BRAIDED SMOOTH TWIST 59,500 CIRCULAR MILS, NET WEIGHT 190 LBS. PER 1000 FT.

NO. 32 STANDARD—32 STRANDS OF 17 GAUGE COPPER WIRE, $\frac{1}{4}$ " DIAMETER, BRAIDED SMOOTH TWIST 65,500 CIRCULAR MILS, NET WEIGHT 215 LBS. PER 1000 FT.

CLASS I ONLY

NO. 48—32 STRANDS OF 17 GAUGE COPPER WIRE IDENTICAL TO NO. 32 BUT OF TINNED COPPER STRANDS.

NO. 505 THOR—24 STRANDS OF 14 GAUGE COPPER WIRE, $\frac{1}{2}$ " DIAMETER, ROPE LAY, 98,500 CIRCULAR MILS, NET WEIGHT 320 LBS. PER 1000 FT.



NO. 28R SAMPSON—28 STRANDS OF 14 GAUGE COPPER WIRE, $\frac{1}{2}$ " DIAMETER, ROPE LAY, 115,000 CIRCULAR MILS, NET WEIGHT 375 LBS. PER 1000 FT.

NO. 506 ZEUS—28 STRANDS OF .0689" DIAMETER COPPER WIRE, $\frac{1}{2}$ " DIAMETER, ROPE LAY, 131,500 CIRCULAR MILS, NET WEIGHT 420 LBS. PER 1000 FT.

CLASS I OR CLASS II

NO. 506T—28 STRANDS OF .0689" DIAMETER COPPER WIRE IDENTICAL TO NO. 506 BUT OF TINNED COPPER STRANDS.

NO. 507 SUPREME—28 STRANDS OF .0865" DIAMETER COPPER WIRE, $\frac{3}{8}$ " DIAMETER, ROPE LAY, 211,500 CIRCULAR MILS, NET WEIGHT 660 LBS. PER 1000 FT.

NOTE: 250 MCM TO 500 MCM COPPER AND ALUMINUM CABLES ALSO AVAILABLE.

NOTE: COPPER AND ALUMINUM BAR, STRAP, AND FLEXIBLE BRAID ARE ALSO AVAILABLE IN BOTH LARGER AND SMALLER SIZES.

NOTE: STANDARD PUT-UP FOR MAIN SIZE CABLES, BOTH COPPER AND ALUMINUM, IS EITHER 250' OR 500' SPOOLS. PLEASE SPECIFY WHICH SIZE IS DESIRED WHEN ORDERING. OTHER LENGTHS ARE AVAILABLE, BUT ADDITIONAL SPOOL OR CUTTING CHARGES MAY APPLY.

MAIN/FULL SIZE ALUMINUM CONDUCTORS

NO. A24 STANDARD-24 STRANDS OF 14 GAUGE ALUMINUM WIRE, $\frac{1}{8}$ " DIAMETER, BRAIDED SMOOTH TWIST 98,500 CIRCULAR MILS, NET WEIGHT 95 LBS. PER 1000 FT.

NO. A26 VULCAN-26 STRANDS OF 14 GAUGE ALUMINUM WIRE, $\frac{1}{8}$ " DIAMETER BRAIDED SMOOTH TWIST, 115,000 CIRCULAR MILS, NET WEIGHT 115 LBS. PER 1000 FT.

NO. A37 BEN FRANKLIN-37 STRANDS OF 13 GAUGE ALUMINUM WIRE, $\frac{1}{8}$ " DIAMETER, SMOOTH CONCENTRIC TWIST, 110,000 CIRCULAR MILS, NET WEIGHT 100 LBS. PER 1000 FT.

NO. A507 PREMIUM-20 STRANDS OF .0865" DIAMETER ALUMINUM WIRE, $\frac{1}{8}$ " DIAMETER, SMOOTH ROPE LAY TWIST, 211,500 CIRCULAR MILS, NET WEIGHT 202 LBS. PER 1000 FT.



CLASS I ONLY



CLASS I OR II



NOTE: ALUMINUM CABLES SHOULD NEVER BE USED UNDER GROUND. THE CONVERSION BETWEEN ALUMINUM AND COPPER SHOULD BE MADE NOT LESS THAN 14 FEET ABOVE GRADE BY THE USE OF THE DIME TAL CLAMPS SHOWN ON PAGE 22.

SECONDARY/SPECIALTY CONDUCTORS

COPPER

NO. 14-14 STRANDS OF 17 GAUGE COPPER WIRE, $\frac{1}{8}$ " DIAMETER, 20,500 CIRCULAR MILS, NET WEIGHT 82 LBS. PER 1000 FT.

NO. 509-10 STRANDS OF 14 GAUGE COPPER WIRE, $\frac{1}{8}$ " DIAMETER, 43,000 CIRCULAR MILS, NET WEIGHT 135 LBS. PER 1000 FT.

NO. 105-COPPER STRIP $\frac{1}{2}$ " WIDE x 16 GAUGE.

NO. 106-TINNED COPPER STRIP $\frac{1}{2}$ " WIDE x 16 GAUGE.

NO. 107-COPPER STRIP $\frac{1}{2}$ " WIDE x 16 GAUGE.

NO. 108-TINNED COPPER STRIP $\frac{1}{2}$ " WIDE x 16 GAUGE.

NO. 109-COPPER STRIP 1" WIDE x 14 GAUGE.

NO. 110-TINNED COPPER STRIP 1" WIDE x 14 GAUGE.

NO. 140X-NO. 6 WIRE, BARE SOFT DRAWN COPPER, $\frac{1}{8}$ " DIAMETER, 25,250 CIRCULAR MILS, NET WEIGHT 80 LBS. PER 1000 FT.

NO. 509X-NO. 4 WIRE, BARE SOFT DRAWN COPPER, $\frac{1}{8}$ " DIAMETER, 41,750 CIRCULAR MILS, NET WEIGHT 125 LBS. PER 1000 FT.

NO. 32M-NO. 2 WIRE, BARE SOFT DRAWN COPPER, $\frac{1}{8}$ " DIAMETER, 66,360 CIRCULAR MILS, NET WEIGHT 201 LBS. PER 1000 FT.

NO. 32MT-AS ABOVE BUT TINNED.



ALUMINUM

NO. A509-10 STRANDS OF 14 GAUGE ALUMINUM WIRE, $\frac{1}{8}$ " DIAMETER, 43,000 CIRCULAR MILS, NET WEIGHT 40 LBS. PER 1000 FT.

NO. A107-SAME AS NO. 107 EXCEPT ALUMINUM.

NO. A109-SIMILAR TO NO. 109 EXCEPT ALUMINUM 1" WIDE x 12 GAUGE.

NO. A509X-NO. 4 WIRE, BARE SOFT DRAWN ALUMINUM, $\frac{1}{8}$ " DIAMETER, 41,750 CIRCULAR MILS, NET WEIGHT 40 LBS. PER 1000 FT.



AIR TERMINALS: COPPER



THE 3/4" COPPER AND 1/2" ALUMINUM AIR TERMINALS SHOWN HERE ARE FOR CLASS I USE. 1/2" COPPER AND 1/4" ALUMINUM POINTS ARE FOR CLASS I OR II USE.

COPPER AIR TERMINALS ARE AVAILABLE IN TWO FINISHES; BARE COPPER OR WITH NICKEL PLATED TIPS. BOTH TYPES HAVE A HIGHLY POLISHED FINISH. THE LETTER "E" IN A PART NUMBER DENOTES THE BARE COPPER FINISH. TWO MOUNTING STYLES ARE ALSO STANDARD. THE LETTERS "LA" (LESS ADAPTER) IN A PART NUMBER DENOTE THOSE POINTS FOR USE WITH BASES HAVING INTERNAL THREAD. "ADAPTER TYPE" POINTS ARE FOR USE WITH ALL BASES HAVING MOUNTING STUDS.

SIZE		FINISH AND MOUNTING STYLE			
DIA.	LENGTH	BARE COPPER-POLISHED		WITH NICKEL PLATED TIP-POLISHED	
		LESS ADAPTER	WITH ADAPTER	LESS ADAPTER	WITH ADAPTER
3/4"	10"	51ELA	51E	51LA	51
3/4"	12"	52ELA	52E	52LA	52
3/4"	18"	62ELA	62E	62LA	62
3/4"	24"	57ELA	57E	57LA	57
3/4"	36"	63ELA	63E	63LA	63
3/4"	48"	64ELA	64E	64LA	64
1/2"	10"	53ELA	53E	53LA	53
1/2"	12"	54ELA	54E	54LA	54
1/2"	18"	56ELA	56E	56LA	56
1/2"	24"	57ELA	57E	57LA	57
1/2"	36"	66ELA	66E	66LA	66
1/2"	48"	67ELA	67E	67LA	67
1/4"	10"	65XELA	65XE	65XLA	65X
1/4"	12"	66ELA	66E	66LA	66
1/4"	18"	66ELA	66E	66LA	66
1/4"	24"	571ELA	571E	571LA	571
1/4"	36"	667ELA	667E	667LA	667
1/4"	48"	668ELA	668E	668LA	668

ADDITIONAL OPTIONS AND MODIFICATIONS:

NOTE: OTHER LENGTH AIR TERMINALS ARE AVAILABLE. CONTACT FACTORY.

NOTE: AS AN OPTION TO NICKEL PLATED TIPS, FULL LENGTH NICKEL PLATED AIR TERMINALS ARE AVAILABLE UP TO 24" LONG. ADD "FNP" TO PART NUMBER.

NOTE: AS A SAFETY OPTION FOR MID-ROOF AIR TERMINALS, ALL AIR TERMINALS CAN BE SUPPLIED WITH ROUNDED, BLUNT TIPS. ADD THE LETTERS "BI" TO PART NUMBER.

AIR TERMINALS: ALUMINUM

© "BLUNT TIP" TYPE



**1/4" ALUMINUM POINTS
(CLASS I ONLY)**



**3/8" ALUMINUM POINTS
(CLASS I OR II)**

ALUMINUM AIR TERMINALS ARE FURNISHED HIGHLY POLISHED. TWO STYLES ARE AVAILABLE. FOR BASES HAVING INTERNAL THREADS, USE PARTS WITH THE LETTERS "LA" (LESS ADAPTER). FOR BASES WITH EXTERNAL MOUNTING STUDS, USE "ADAPTER TYPE" POINTS.

SIZE		MOUNTING STYLE	
DIA.	LENGTH	LESS ADAPTER	WITH ADAPTER
1/8"	10"	A56LA	A56X
1/8"	12"	A56LA	A56
1/8"	18"	A56LA	A56
1/8"	24"	A57LA	A572
1/8"	36"	A66LA	A660
1/8"	48"	A66LA	A661
3/16"	10"	A66XLA	A66X
3/16"	12"	A66LA	A665
3/16"	18"	A66LA	A666
3/16"	24"	A57LA	A571
3/16"	36"	A66LA	A667
3/16"	48"	A66LA	A668

ADDITIONAL OPTIONS AND MODIFICATIONS:

NOTE: OTHER LENGTH AIR TERMINALS ARE AVAILABLE. CONTACT FACTORY.

NOTE: AS A SAFETY OPTION FOR MID-ROOF AIR TERMINALS, ALL AIR TERMINALS CAN BE SUPPLIED WITH ROUNDED, BLUNT TIPS. ADD THE LETTERS "BT" TO PART NUMBER.

SAFETY/SPRING AIR TERMINALS



NO. 55SP-FLEXIBLE AIR TERMINALS FOR USE WHERE WINDOW WASHING OR OTHER MOVABLE EQUIPMENT CONFLICTS WITH FIXED AIR TERMINAL. ADAPTER FITS ALL EXTERNAL STUD TYPE BASES. SOLID POINT PORTION IS 1/2" DIAMETER COPPER WITH NICKEL PLATED TIP. OVERALL HEIGHT IS 12". THE HEAVY STAINLESS STEEL SPRING PROVIDES A 90° TILT IN ANY DIRECTION. COMES COMPLETE WITH A STAINLESS STEEL SAFETY TIE-OFF CABLE WITH LUG FOR ATTACHING TO BOLT AT BASE.

NO. A55SP-AS ABOVE IN ALUMINUM.
NO. 56SP-1/2" DIAMETER SOLID COPPER, 18" OVERALL HEIGHT.

NO. A56SP-AS ABOVE IN ALUMINUM.
NO. 572SP-1/2" DIAMETER SOLID COPPER, 24" OVERALL HEIGHT.

NO. A572SP-AS ABOVE IN ALUMINUM.
NO. 66SP-3/4" SOLID COPPER, 12" OVERALL HEIGHT.

NO. A66SP-AS ABOVE IN ALUMINUM.
NO. 666SP-3/4" DIAMETER SOLID COPPER, 18" OVERALL HEIGHT.

NO. A666SP-AS ABOVE IN ALUMINUM.
NO. 571SP-1/2" DIAMETER SOLID COPPER, 24" OVERALL HEIGHT.

NO. A571SP-AS ABOVE IN ALUMINUM.
NOTE: 24" IS THE MAXIMUM ALLOWABLE HEIGHT FOR THIS TYPE OF TERMINAL.

NOTE: ALL OF THE ABOVE ARE AVAILABLE WITH BLUNT TIPS. ADD "BT" TO PART NUMBERS SHOWN FOR THIS OPTION.

AIR TERMINAL ACCESSORIES

ADAPTERS



NO. 68-BRASS ADAPTER TO ENGAGE 3/4" SOLID ROD POINTS TO STUD TYPE BASES.



NO. 69-BRASS ADAPTER TO ENGAGE 1/2" SOLID ROD POINTS TO STUD TYPE BASES.

NO. A69-ALUMINUM ADAPTER TO ENGAGE 1/2" SOLID ROD POINTS TO STUD TYPE BASES.



NO. 67B-BRASS ADAPTER TO ENGAGE 3/4" SOLID ROD POINTS TO STUD TYPE BASES.

NO. A67B-ALUMINUM ADAPTER TO ENGAGE 3/4" SOLID ROD POINTS TO STUD TYPE BASES.



NO. 27-A HINGED SWIVEL CONNECTOR DESIGNED SO THAT A POINT MAY BE SET PERPENDICULAR ON A SLOPING ROOF. THE LOWER SECTION FITS ALL BASES WITH EXTERNAL STUDS AND THE UPPER SECTION FITS ALL ADAPTER TYPE POINTS. STAINLESS STEEL SET SCREWS ASSURE A PERMANENT LOCK BETWEEN THE POINT AND THE BASE.

NO. A27-AS ABOVE IN ALUMINUM.



NO. 28-A RISER ADAPTER FOR ALL ADAPTER TYPE POINTS TO 3/4" DIAMETER RISER BARS.



NO. 28M-A RISER ADAPTER FOR ALL ADAPTER TYPE POINTS TO 1/2" DIAMETER RISER BARS.

NO. A28M-AS ABOVE IN ALUMINUM.



NO. 28D-A BRASS ADAPTER FOR USE IN COMBINING SOLID OR TUBULAR ADAPTER TYPE POINTS WITH 1/2" INTERNAL THREAD BASES.

NO. A28D-AS ABOVE IN ALUMINUM.



NO. 28DE-SAME AS NO. 28D BUT HAS A 1/2" x 13 x 1 1/2" LONG MALE STUD.

NO. A28DE-AS ABOVE IN ALUMINUM.



NO. 27M-A BRASS EXTENSION ADAPTER FOR ALL STANDARD BASES AND POINTS. THIS UNIT GIVES 1 1/4" EXTENSION. LONGER LENGTHS AVAILABLE UPON REQUEST.

EXTENSION RODS

SOLID COPPER OR ALUMINUM RODS, THREADED AT BOTH ENDS, FOR USE WHERE AIR TERMINALS OR RISER RODS HAVE TO BE MADE LONGER.

COPPER		ALUMINUM	
NO. 52ER:	3/4" x 12"	NO. A52ER:	3/4" x 12"
NO. 573ER:	3/4" x 24"	NO. A573ER:	3/4" x 24"
NO. 663ER:	3/4" x 36"	NO. A663ER:	3/4" x 36"
NO. 664ER:	3/4" x 48"	NO. A664ER:	3/4" x 48"
NO. 55ER:	1/2" x 12"	NO. A55ER:	1/2" x 12"
NO. 572ER:	1/2" x 24"	NO. A572ER:	1/2" x 24"
NO. 660ER:	1/2" x 36"	NO. A660ER:	1/2" x 36"
NO. 661ER:	1/2" x 48"	NO. A661ER:	1/2" x 48"
NO. 665ER:	3/4" x 12"	NO. A665ER:	3/4" x 12"
NO. 571ER:	3/4" x 24"	NO. A571ER:	3/4" x 24"
NO. 667ER:	3/4" x 36"	NO. A667ER:	3/4" x 36"
NO. 668ER:	3/4" x 48"	NO. A668ER:	3/4" x 48"

ROD COUPLERS

NO. 656-A SOLID BRASS ROD COUPLER, DOUBLE FEMALE, 1/4" TO 3/4".

NO. 671-A SOLID BRASS ROD COUPLER, DOUBLE FEMALE, 1/2" TO 3/4".

NO. A671-A SOLID ALUMINUM ROD COUPLER, DOUBLE FEMALE, 1/2" TO 3/4".

NO. 672-A SOLID BRASS ROD COUPLER, DOUBLE FEMALE, 3/4" TO 1".

NO. A672-A SOLID ALUMINUM ROD COUPLER, DOUBLE FEMALE, 3/4" TO 1".

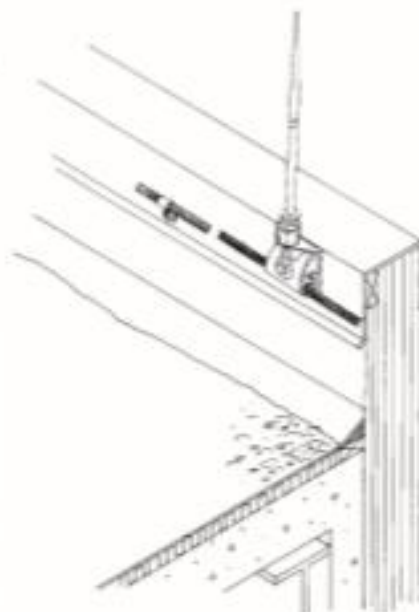


AIR TERMINAL BASES

NO. 690X-A PREMIUM DIE CAST POINT BASE FOR SIDE MOUNTING AT PARAPETS OR SCREEN WALLS, ETC. THE PREMIUM DIE CAST CLAMP IS FOR USE WITH ADAPTER TYPE AIR TERMINALS AND CABLES THROUGH NO.506. MOUNTING HOLES ARE 1/4" CLEARANCE. ORDER FASTENERS SEPARATELY.

NO. A690X-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NOTE: FOR NO. 507/A507 CABLES ADD "X" TO PART NUMBERS SHOWN.



NO. 688-A PREMIUM DIE CAST POINT BASE FOR ADHESIVE MOUNTING ON FLAT ROOFS, ETC. THE BOLT PRESSURE CABLE CLAMP IS FOR CABLES THROUGH NO. 506. THIS BASE HAS AN EXTERNAL STUD FOR USE WITH ADAPTER TYPE AIR TERMINALS. ORDER ADHESIVE SEPARATELY TO SUIT ROOFING SYSTEM IN USE. CONTACT FACTORY FOR PROPER ADHESIVE.

NO. A688-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NOTE: FOR NO. 507/A507 CABLE, ADD "X" TO PART NUMBERS SHOWN.



NOTE: VERIFY COMPATIBILITY OF ANY PROPOSED ADHESIVE WITH ROOFING SYSTEM IN USE.



NO. 688C-A HEAVY DUTY CROSS RUN POINT BASE FOR ADHESIVE MOUNTING ON FLAT ROOFS WHERE AIR TERMINALS AND CROSS RUN CABLES ARE JOINED. FITS ALL CABLES THROUGH NO. 506. EXTERNAL STUD ACCEPTS ALL ADAPTER TYPE POINTS.

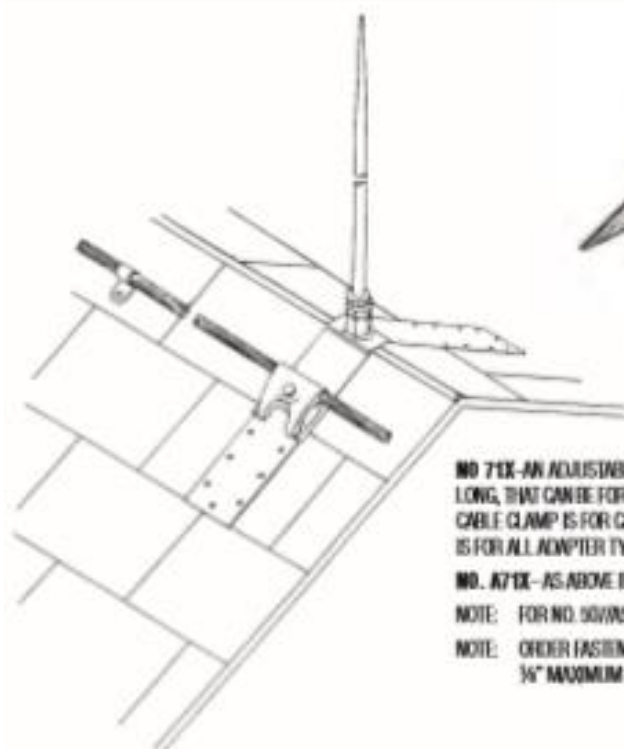
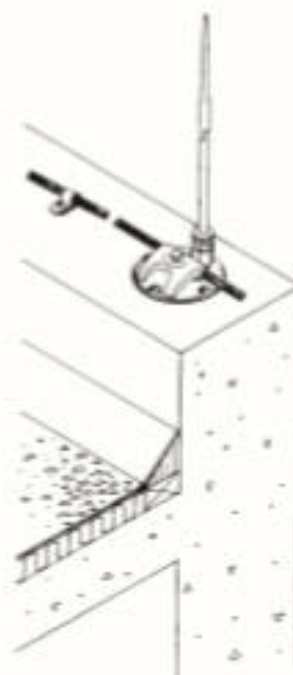
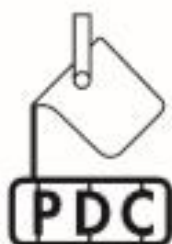
NO. A688C-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

AIR TERMINAL BASES

NO. 611-A PREMIUM DIE CAST POINT BASE FOR TOP MOUNTING AT MECHANICAL EQUIPMENT, PARAPETS, OR SCREEN WALLS, ETC. THE BOLT PRESSURE CABLE CLAMP IS FOR CABLES THROUGH NO. 506. BASE HAS AN EXTERNAL STUD FOR USE WITH ADAPTER TYPE AIR TERMINALS. MOUNTING HOLES ARE 3/4" CLEARANCE. ORDER FASTENERS SEPARATELY.

NO. A611 - AS ABOVE IN ALUMINUM.

NOTE: FOR USE WITH NO. 507/AS07 CABLES, ADD "X" TO PART NUMBERS SHOWN.



NO. 71X - AN ADJUSTABLE RIDGE SADDLE OF PURE COPPER, 2" WIDE X 15" LONG, THAT CAN BE FORMED FOR ANY ROOF SLOPE. THE PREMIUM DIE CAST CABLE CLAMP IS FOR CABLES THROUGH NO. 506. THE 3/4" EXTERNAL STUD IS FOR ALL ADAPTER TYPE POINTS.

NO. A71X - AS ABOVE IN ALUMINUM.

NOTE: FOR NO. 507/AS07 CABLE, ADD "X" TO PART NUMBERS SHOWN.

NOTE: ORDER FASTENERS SEPARATELY. USE 6d NAILS OR SCREWS UP TO 3/8" MAXIMUM DIAMETER.



AIR TERMINAL BASES



NO. 600-A VERTICAL POINT BASE FOR CONNECTION BETWEEN ADAPTER TYPE POINTS AND CABLE THROUGH NO. 506 CONNECTOR HAS MOUNTING HOLE FOR EITHER 1/2" BOLTS OR SCREWS WHICH SHOULD BE ORDERED SEPARATELY. THE CABLE CLAMP IS OF PREMIUM DIE CAST CONSTRUCTION.

NO. 600B-SAME AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. 407.

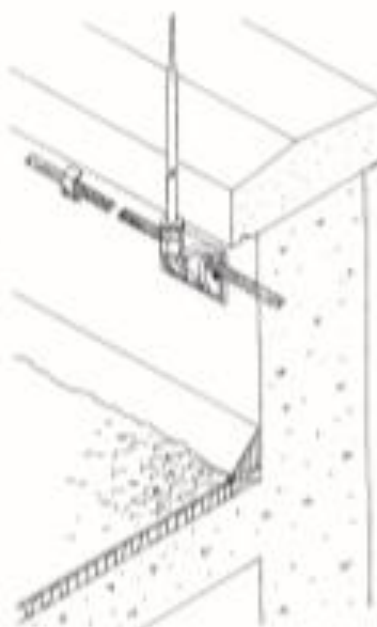


NO. 670A-A HEAVY DUTY RIGHT ANGLE BRACKET BASE WITH AN EXTERNAL STUD FOR ALL ADAPTER TYPE POINTS. THIS BASE IS DESIGNED FOR MOUNTING NEAR THE TOP OF THE WALL FOR USE WITH 12" 24" POINTS WHICH WILL REQUIRE NO FURTHER SUPPORT. THE POINTS HELD OUT FROM THE WALL TO CLEAR A CANYON OVERHANG OF UP TO 1 1/2". PREMIUM DIE CAST BOLT PRESTRESS CABLE CLAMP ACCEPTS CABLES THROUGH NO. 506.

NO. 670A-SAME AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. 407.

NOTE: FOR NO. 50000V CABLES, ADD "X" TO PART NUMBER DESIGN.

NOTE: ORDER FASTENERS SEPARATELY. MOUNTING HOLES ARE 1/2" CLEARANCE.



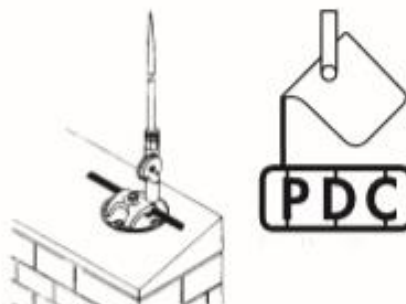
AIR TERMINAL BASES



NO. 30—THIS PREMIUM DIE CAST BRONZE BASE INCLUDES A SWIVEL ADAPTER SO THAT POINTS MAY BE SET PERPENDICULAR ON A SLOPING ROOF. THE PREMIUM DIE CAST BOLT PRESSURE CONNECTION ACCEPTS CABLES THROUGH NO. 506. MOUNTING HOLES ARE 1/4" CLEARANCE. ORDER FASTENERS SEPARATELY.

NO. A30—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NOTE: FOR NO. 507/A507 CABLES, ADD "X" TO PART NUMBER SHOWN.



NO. 155AT—A THROUGH ROOF BASE WHICH ALLOWS FOR THE INSTALLATION OF A COMPLETE CONCEALED AIR TERMINAL BY ONE TECHNICIAN FROM ABOVE THE ROOF. THIS BASE REQUIRES AN ADEQUATELY SUPPORTED 1" PVC CONDUIT SLEEVE THROUGH THE ROOF. ROOF SEAL IS ACHIEVED VIA AN EPDM SEAL AND SOLVENT WELDED PVC PIPE CAP. IDEAL FOR USE WHERE AIR TERMINALS ARE CONNECTED DIRECTLY TO BUILDING STEEL. FOR CABLES THROUGH NO. 506.

NO. A155AT—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.



NO. 685—A THROUGH ROOF BASE FOR CONCEALED MOUNTING AT ROOF RIDGE LOCATIONS. ASSEMBLY INCLUDES AN ALL THREAD 1/2" X 12" LONG RISER BAR, PREMIUM DIE CAST BRONZE CABLE CLAMP FOR CONDUCTORS THROUGH NO. 506, LEAD WASHER FOR WEATHER SEAL ABOVE THE ROOF, HEX NUT, AND FLAT WASHER TO SECURE RISER BELOW THE ROOF, AND NO. 28M ADAPTER FOR ALL ADAPTER TYPE AIR TERMINALS.

NO. A685—AS ABOVE WITH 1/2" ALUMINUM RISER BAR AND CLAMP FOR CABLES THROUGH NO. A37.

NOTE: FOR NO. 507/A507 CABLES, ADD "X" TO PART NUMBER SHOWN.



NO. 685V—SIMILAR TO NO. 685 BUT WITH A VERTICAL CABLE CONNECTOR AT THE LOWER END OF THE RISER. THIS BASE IS USED WHERE ONLY A SINGLE CABLE LEAD FROM THE AIR TERMINAL IS REQUIRED.

NO. A685V—AS ABOVE IN ALUMINUM.



AIR TERMINAL BASES



NO. 240P-3-A BIMETAL PLATED, CLAMP TYPE AIR TERMINAL BASE FOR MOUNTING ON PIPES, ROUND HANDRAILS, ETC. UP TO 1 1/4" O.D. HAS INTERNAL THREAD FOR 3/8" LESS ADAPTER TYPE POINTS. (CLASS I ONLY)

NO. 240P-4-AS ABOVE FOR 1/2" LESS ADAPTER TYPE POINTS.

NO. A240P-4-AS ABOVE IN ALUMINUM. (CLASS I ONLY)

NO. 240P-5-AS ABOVE FOR 3/8" LESS ADAPTER POINTS.

NO. A240P-5-AS ABOVE IN ALUMINUM.

NO. 240XP-3-A HEAVIER VERSION PIPE/RAIL POINT BASE FOR 3/8" LESS ADAPTER TYPE POINTS TO PIPES UP TO 2 1/4" O.D. (CLASS I ONLY)

NO. 240XP-4-AS ABOVE FOR 1/2" LESS ADAPTER TYPE POINTS.

NO. A240XP-4-AS ABOVE IN ALUMINUM. (CLASS I ONLY)

NO. 240XP-5-AS ABOVE FOR 3/8" LESS ADAPTER TYPE POINTS.

NO. A240XP-5-AS ABOVE IN ALUMINUM.

NO. 681-AN ADJUSTABLE PIPE RAILING BASE FOR ADAPTER TYPE POINTS. BASE FITS ALL PIPE SIZES FROM 1 1/4" TO 2" O.D. HAS A 3/8" EXTERNAL STUD FOR ALL ADAPTER TYPE POINTS. NO CABLE CONNECTION. (USED WHERE RAILING IS OF ADEQUATE SIZE TO SERVE AS CONDUCTOR.)

NO. A681-SAME AS ABOVE IN ALUMINUM.

NO. 681X-SAME AS NO. 681 BUT WITH CABLE ATTACHMENT FOR CABLES THROUGH NO. 506 (AS PICTURED).

NO. A681X-AS ABOVE IN ALUMINUM WITH ATTACHMENT FOR CABLES THROUGH NO. A37.

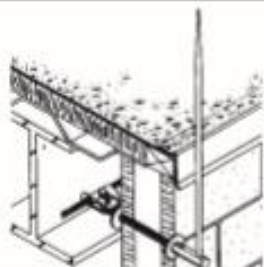


NO. 78-A ONE BOLT BRONZE BASE WITH PRESSURE TYPE CABLE CONNECTION FOR INSTALLATION ON FLAT MASONRY. COMPLETE WITH STAINLESS STEEL MACHINE SCREW AND 3/8" PAK-TITE ANCHOR. STUD ENGAGES ALL ADAPTER TYPE POINTS. ACCEPTS CABLES THROUGH NO. 506.

NO. A78-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NO. 79-A FOUR LEG ADJUSTABLE BASE FOR MOUNTING AT CONE-SHAPE OR ROUNDED VENTS OR MECHANICAL EQUIPMENT, ETC. CAST BRONZE CABLE CLAMP IS FOR ALL ADAPTER TYPE AIR TERMINALS AND FITS CABLES THROUGH NO. 506.

NO. A79-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.



NO. 27DG-A RIGHT ANGLE BASE OF MACHINED BRASS THAT PROVIDES A TRANSITION FROM A HORIZONTAL 1/2" RISER TO LESS ADAPTER TYPE AIR TERMINALS. (NO. 55LA, ETC.) INCLUDES A SET SCREW TO LOCK THE POINT IN A VERTICAL POSITION. AVAILABLE IN 1/2" DIAMETER ONLY.



NO. A27DG-SIMILAR TO NO. 27DG IN ALUMINUM. (CLASS I ONLY)



NO. 532-A HEAVY DUTY 3/4" WIDE, COPPER RAISED RIDGE SADDLE. BENDS TO FIT ANY ROOF SLOPE AND HOLDS POINT AND CABLE SLIGHTLY ABOVE THE CENTER OF THE RIDGE. PRESSURE TYPE CABLE CLAMP IS FOR CABLES THROUGH NO. 506. STUD ENGAGES ALL ADAPTER TYPE POINTS. (USE NO. 533 ATTACHMENT TO HOLD AND SUPPORT THE CABLE BETWEEN POINT LOCATIONS.)

NO. A532-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

AIR TERMINAL BASES



NO. 737M-A "FLUSH WITH SURFACE" EMBEDDED GROUND PLATE INTENDED TO SERVE AS AN AIR TERMINAL REPLACEMENT ON HELIPORTS AND PARKING DECKS WHERE TRAFFIC FLOW PROHIBITS THE USE OF STANDARD AIR TERMINALS. CABLE CLAMP ACCEPTS CABLES THROUGH NO. 506.

NOTE: AVAILABLE IN COPPER ONLY.



NO. 606-HEAVY DUTY EMBEDDED POINT BASE FOR FULLY CONCEALED INSTALLATION IN POURED CONCRETE. THIS BASE IS USED WHERE THE CABLE IS BURIED IN A POURED CONCRETE ROOF SLAB OR PARAPET. THE $\frac{3}{8}$ " STUD ENGAGES ALL ADAPTER TYPE POINTS. CLAMP ACCEPTS CABLES THROUGH NO. 506.

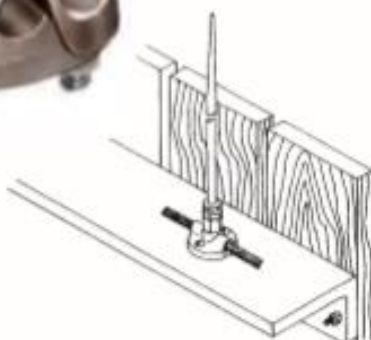
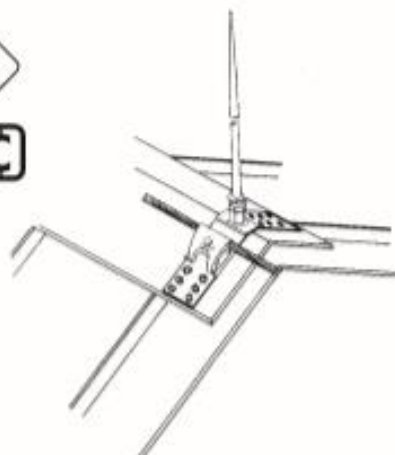
NOTE: AVAILABLE IN COPPER ONLY.



NO. 71A-A 2" WIDE COPPER RIDGE SADDLE FOR ADHESIVE MOUNTING ON METAL BUILDINGS, SKYLIGHTS, ETC., AS AN OPTION TO MECHANICAL FASTENERS. THE PREMIUM DIE CAST CLAMP ACCEPTS CABLES THROUGH NO. 506. EXTERNAL STUD IS FOR USE WITH ALL ADAPTER TYPE POINTS.

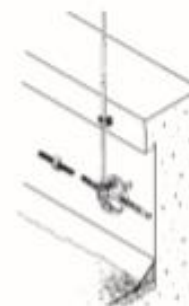
NO. A71A-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NOTE: FOR NO. 507/A507 CABLES, ADD "X" TO PART NUMBER SHOWN.



NO. 636-A CAST BRONZE BASE FOR MOUNTING ON ANGLES OR CHANNELS AT SCREEN WALLS, ETC. THE MOUNTING BOLTS SECURE THE PRESSURE TYPE CABLE CLAMP THAT ACCEPTS CONDUCTORS THROUGH NO. 506. THE EXTERNAL STUD ACCEPTS ALL ADAPTER TYPE POINTS.

NO. A636-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.



NO. 569-A HEAVY DUTY BRONZE PARAPET WALL BASE WITH EXTERNAL STUD FOR ALL ADAPTER TYPE POINTS. COMES COMPLETE WITH MACHINE SCREWS AND ONE $\frac{3}{8}$ " PAK-TITE ANCHOR. HOLDS POINTS AT RIGHT ANGLES TO CABLE. USE NO. 574, 575, OR 576 TO SUPPORT UPPER PART OF POINTS. CLAMP ACCEPTS CONDUCTORS THROUGH NO. 506.

NO. A569-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NO. 576-A BRONZE 2 SCREW POINT HOLDER FOR $\frac{3}{8}$ " POINTS WITH $\frac{3}{8}$ " PAK-TITE ANCHOR.

NO. 575-AS ABOVE FOR $\frac{1}{2}$ " POINTS.

NO. A575-AS ABOVE IN ALUMINUM FOR $\frac{1}{2}$ " POINTS.

NO. 574-AS ABOVE FOR $\frac{3}{8}$ " POINTS.

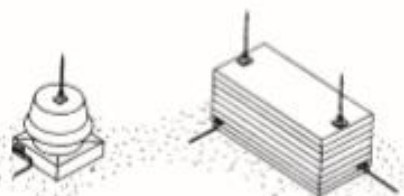
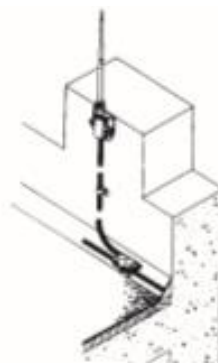
NO. A574-AS ABOVE IN ALUMINUM FOR $\frac{3}{8}$ " POINTS.

AIR TERMINAL BASES



NO. 690M—A HEAVY DUTY VERTICAL POINT BASE FOR NO. 507 CABLE. THE TWO 1/4" CLEARANCE MOUNTING HOLES ELIMINATE THE NEED FOR ADDED POINT SUPPORT. THE 3/8" STUD ENGAGES ALL ADAPTER TYPE POINTS.

NO. A690M—AS ABOVE IN ALUMINUM.
NOTE: ORDER FASTENERS SEPARATELY.



NO. 76MT—A FULLY BIMETAL PLATED 2" WIDE COPPER BASE FOR MOUNTING ALL ADAPTER TYPE AIR TERMINALS ON MECHANICAL EQUIPMENT WHERE CONDUCTOR INTERCONNECTS ARE NOT REQUIRED.

NO. 76M—AS ABOVE BUT BARE COPPER - NOT PLATED.
NO. A76M—AS ABOVE IN ALUMINUM.

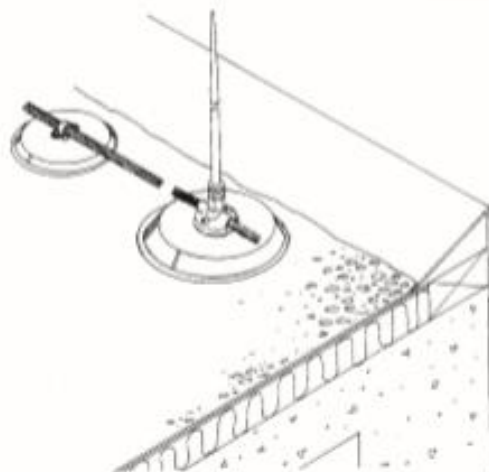
NOTE: REVIEW CODES/STANDARDS IN EFFECT TO VERIFY IF THIS METHOD IS APPLICABLE.



NO. 691—A CLAMP TYPE POINT BASE FOR FASTENING TO STANDING SEAM METAL ROOFS WITHOUT THE USE OF MECHANICAL FASTENERS. BOLT PRESSURE CLAMP ACCEPTS CABLES THROUGH NO. 506. EXTERNAL STUD ACCEPTS ALL ADAPTER TYPE AIR TERMINALS.

NO. A691—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NOTE: STANDARD SIZE IS FOR 1/4" THICK SEAMS. CAN BE MILLED TO 1/8" ON SPECIAL ORDER.



NO. 694—THIS PAN TYPE POINT BASE IS FOR FLAT ROOFS. INCLUDES A COMBINATION POINT TO CABLE BASE CONNECTOR WITH EXTERNAL STUD FOR ALL ADAPTER TYPE POINTS. ACCEPTS CABLES THROUGH NO. 506. THE PAN IS FILLED WITH CEMENT ON THE JOB AND IS INVERTED AFTER THE CEMENT SETS. NO. 589 PAN-TYPE CABLE SUPPORTS ARE USED IN CONJUNCTION WITH THIS BASE. CAN BE USED WITH OR WITHOUT ADHESIVE. OVERALL WEIGHT HOLDS BASE AND CABLE SUPPORTS IN PLACE.

NO. A694—SAME AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

AIR TERMINAL BASES/CHIMNEY AIR TERMINALS

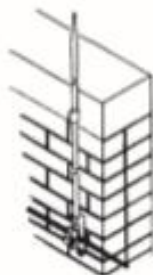
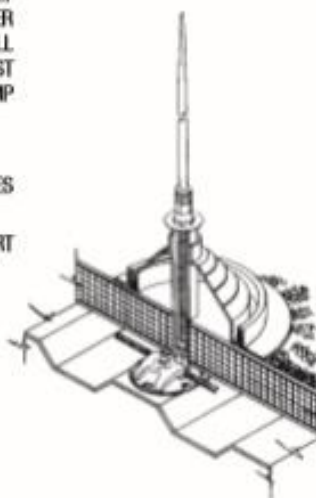


NO. 709B-A CONCEALED BASE AND RISER ASSEMBLY FOR METAL OR CONCRETE DECK CONSTRUCTION. RISER BAR IS 1/2" DIAMETER BY 12". TOP ASSEMBLY FITS ALL ADAPTER TYPE AIR TERMINALS. THE PREMIUM DIE CAST MOUNTING BASE HAS A BOLT PRESSURE CABLE CLAMP FOR CABLES THROUGH NO. 506.

NOTE: ORDER FASTENERS SEPARATELY.

NO. A709B-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NOTE: FOR NO. 507/A507 CABLES, ADD "X" TO PART NUMBER SHOWN.



NO. 85E-A 3/4" X 3' CHIMNEY POINT ASSEMBLY OF LEAD COATED SOLID COPPER COMPLETE WITH EXCEL CABLE CONNECTOR FOR CABLES THROUGH NO. 506 WHICH ENGAGES A HORIZONTAL OR VERTICAL CABLE. INCLUDES A MASONRY ATTACHMENT TO SUPPORT THE UPPER PART OF THE POINT. (CLASS I ONLY)

NO. A88E-3/4" X 4', AS ABOVE IN ALUMINUM.

NO. 88E-AS ABOVE IN ALUMINUM WITH 1/2" X 3' ALUMINUM POINT FOR CABLES THROUGH NO. A37. (CLASS I ONLY)

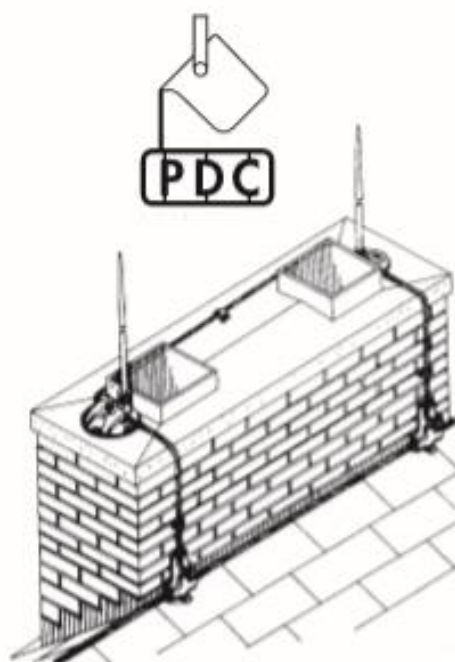
NO. 88E-AS ABOVE BUT 1/2" X 4'.

NO. 85-AS ABOVE, 3/4" X 3' BUT WITH A VERTICAL SET SCREW CABLE CONNECTOR SHOWN BELOW. (FOR CLASS I ONLY)

NO. 88-A COMPLETE HEAVY DUTY CHIMNEY AIR TERMINAL AS SHOWN BUT WITH A 1/2" X 4' COPPER AIR TERMINAL HAVING A 1/4" THICK LEAD SHEATH ON THE AIR TERMINAL. ASSEMBLY INCLUDES SET SCREW VERTICAL POINT BASE. (FOR CLASS I OR II USE)

NO. A88-AS ABOVE BUT WITH 1/2" X 4' ALUMINUM AIR TERMINAL. (FOR CLASS I ONLY)

NOTE: ADD "M" TO ABOVE PART NUMBER FOR METAL MOUNT.

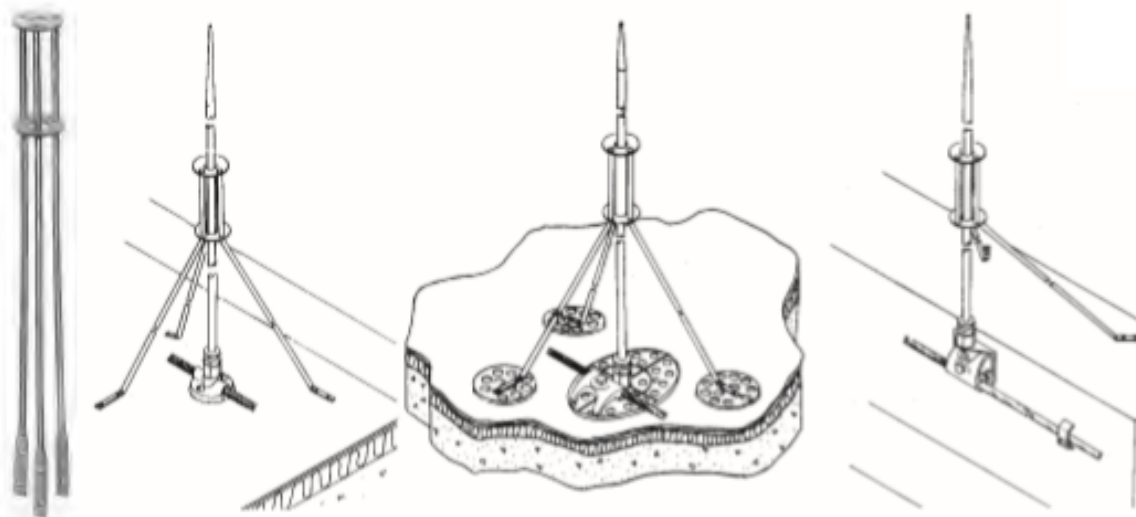


NO. 673-A COMPLETE CHIMNEY POINT ASSEMBLY FOR MOUNTING ON THE TOP OF THE CHIMNEY CAP. INCLUDES A LEAD COATED NO. 611 BASE AND LEAD COATED NO. 55 1/2" X 12" SOLID COPPER POINT WITH BASE ADAPTER. PREMIUM DIE CAST CLAMP ACCEPTS CABLES THROUGH NO. 506.

NO. A673-CHIMNEY POINT COMPLETE AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.



AIR TERMINAL SUPPORTS



GALVANIZED STEEL TRIPOD BRACES HAVE $\frac{1}{4}$ " DIAMETER LEGS AND ARE FOR USE WITH $\frac{3}{8}$ " THROUGH $\frac{1}{2}$ " DIAMETER AIR TERMINALS. MOUNTING FEET ARE FIELD FORMED AND CAN BE SECURED WITH BOLTS, SCREWS OR NAILS AS REQUIRED.

NO. 80—14" LONG FOR USE WITH 18" AIR TERMINALS.

NO. 81—18" LONG FOR USE WITH 24" AIR TERMINALS.

NO. 82—24" LONG FOR USE WITH 36" AIR TERMINALS.

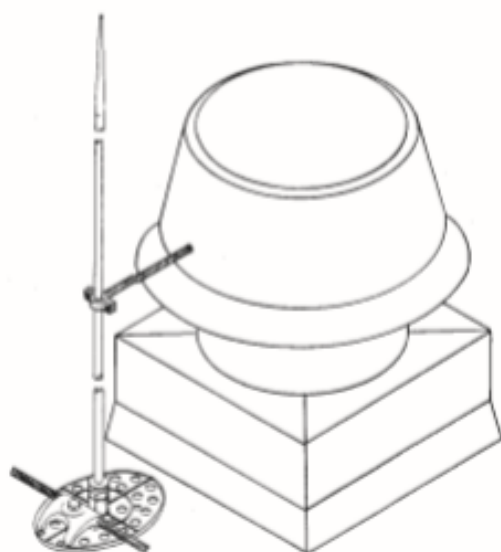
NO. 83—36" LONG FOR USE WITH 48" AIR TERMINALS.

NO. 83-5—48" LONG FOR USE WITH 60" AIR TERMINALS.

NO. 83-6—60" LONG FOR USE WITH 72" AIR TERMINALS.

ALL OF THE ABOVE BRACES CAN BE FURNISHED FOR USE ON FLAT ROOFS WHERE ATTACHMENT IS MADE WITH ADHESIVE IN LIEU OF MECHANICAL FASTENERS. ADD "CA" TO PART NUMBERS ABOVE FOR COPPER ADHESIVE FEET OR "AA" FOR ALUMINUM FEET.

NOTE: VERIFY COMPATIBILITY OF ANY PROPOSED ADHESIVE WITH ROOFING SYSTEM IN USE.



NO. 657-3—A BRONZE POINT SUPPORT ATTACHMENT FOR $\frac{3}{8}$ " COPPER AIR TERMINALS WITH $\frac{3}{8}$ " X 8" STUD. INCLUDES 2 STAINLESS STEEL NUTS AND WASHERS.

NO. 657-4—AS ABOVE FOR $\frac{1}{2}$ " COPPER AIR TERMINALS.

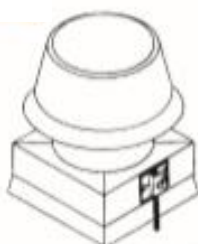
NO. A657-4—AS ABOVE FOR $\frac{1}{2}$ " ALUMINUM AIR TERMINALS ($\frac{1}{2}$ " DIAMETER THREADED ROD).

NO. 657-5—AS ABOVE FOR $\frac{3}{8}$ " COPPER AIR TERMINALS.

NO. A657-5—AS ABOVE FOR $\frac{3}{8}$ " ALUMINUM AIR TERMINALS ($\frac{1}{2}$ " DIAMETER THREADED ROD). THESE SUPPORTS ARE ALSO USED AS "THROUGH BOLT" TYPE SUPPORTS AT WOOD POLE MAST TYPE LIGHTNING PROTECTION SYSTEMS.

NOTE: THREADED ROD CAN BE ORDERED IN LONGER LENGTHS IF REQUIRED.

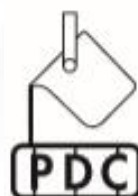
BONDING CONNECTORS: FULL/MAIN SIZE



NO. 702—A PREMIUM DIE CAST BRONZE BONDING PLATE WITH 8 SQUARE INCH BIMETAL PLATED CONTACT AREA. THE PRESSURE TYPE CABLE CONNECTOR IS FOR CONDUCTORS THROUGH NO. 506. THIS PLATE WILL ACCOMMODATE EITHER A "DEAD-END" OR CONTINUOUS THROUGH CABLE ROUTE. THE TWO HOLES WILL FIT EITHER SHEET METAL SCREWS OR 1/4" MACHINE SCREWS.

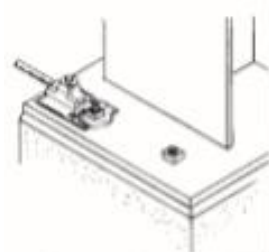
NO. A702—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NOTE: FOR NO. 507/A507 CABLE, ADD "M" TO PART NUMBERS SHOWN.



NO. 639—A PREMIUM DIE CAST BRONZE BONDING PLATE WITH 8 SQUARE INCH CONTACT SURFACE FOR BONDING ALL CABLES THROUGH NO. 506 TO STRUCTURAL STEEL, ETC. THE UPPER BOLT HOLE IS DRILLED AND TAPPED 1/2"-13. THE OTHER BOLT HOLES ARE FOR EITHER 1/4" OR 5/16" MACHINE SCREWS. THE VISE-GRIP CABLE CONNECTION WITH 2" OF CONTACT ACCEPTS CABLES THROUGH NO. 506. CONNECTOR DOES NOT ALLOW CONTINUOUS RUN-THROUGH OF CABLE. CAN ALSO BE USED FOR CONNECTING CABLE TO 1/2" RISER BARS.

NO. A639—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.



NO. 703—A PREMIUM DIE CAST BRONZE BONDING PLATE SIMILAR TO THE NO. 639 BUT WITH A HOLE TO ENGAGE BOLTS OF UP TO 1" IN DIAMETER. CAN ALSO BE FURNISHED WITH A SMALLER BOLT HOLE. THE VISE GRIP CABLE CONNECTION WITH 2" OF CONTACT IS FOR CABLES THROUGH NO. 506. TYPICALLY USED AT COLUMN OR POLE BASE PLATE ANCHOR BOLTS.

A703—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.



NO. 586—A HEAVY DUTY, 4" X 4", BRONZE BONDING PLATE FOR BONDING ALL CABLE THROUGH NO. 506 TO STRUCTURAL STEEL. THE FOUR BOLT HOLES ARE FOR EITHER 1/4" OR 5/16" MACHINE SCREWS. THE TWO BOLT PREMIUM DIE CAST PRESSURE TYPE CLAMP IS FOR CABLES THROUGH NO. 506. CONNECTION HAS 4" OF CONTACT.

NO. A586—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.



NO. 639X—A HEAVY DUTY CAST BRONZE BONDING PLATE WITH 9 SQUARE INCHES OF CONTACT AREA SPECIFICALLY MADE FOR NO. 507 AND 250 MCM CABLES. HAS TWO BOLT PRESSURE TYPE CABLE CLAMP.

NO. A639X—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A507.



NO. 586X—A HEAVY DUTY 4" X 4" BRONZE BONDING PLATE SPECIFICALLY DESIGNED FOR NO. 507 AND 250 MCM CONDUCTORS. IDEAL FOR GROUND CONNECTIONS TO BUILDING COLUMNS.

NO. A586X—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A507.

BONDING CONNECTORS: FULL/MAIN SIZE



NO. 701X-A HEAVY DUTY FORGED STEEL "C" CLAMP WITH BRONZE BONDING PLATE FOR CABLES THROUGH NO. 506 TO STRUCTURAL STEEL PURLINS, CHANNEL IRON, "I" BEAMS, OR ANGLE IRONS. HAS A PREMIUM DIE CAST BOLT PRESSURE TYPE CABLE CLAMP. FITS STRUCTURAL STEEL UP TO 1" THICKNESS AND HAS 9 SQUARE INCHES OF BONDING SURFACE.

NO. A701X-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NOTE: FOR NO. 507/A507 CABLES ADD "X" TO ABOVE PART NUMBERS.

NOTE: THESE PLATES ARE FOR INTERIOR USE ONLY. IF OUTDOOR USE IS REQUIRED, ADD "S" TO PART NUMBERS SHOWN.



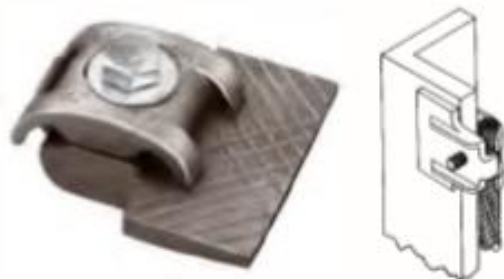
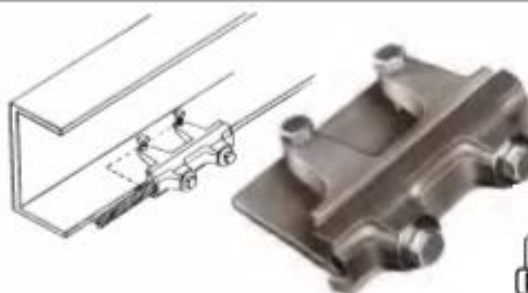
NO. 701-A HEAVY DUTY "SET SCREW" CLAMP TYPE BRONZE BONDING PLATE WITH 8 SQUARE INCHES OF SURFACE FOR BONDING ALL CABLES THROUGH NO. 506 TO STRUCTURAL STEEL PURLINS, CHANNEL IRONS, "I" BEAMS, OR ANGLE IRONS. THIS PLATE CLAMPS TO THE STEEL AND REQUIRES NO DRILLING. HAS A TWO BOLT PREMIUM DIE CAST CABLE CLAMP WITH 4" OF CONTACT. FITS STRUCTURAL STEEL UP TO 1/2" THICK.

NO. A701-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NO. 701M-A HEAVY DUTY 2 SCREW PURLIN BONDING PLATE FOR STEEL UP TO 1" THICK AND CABLES THROUGH NO. 507.

NO. A701M-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A507.

NOTE: THESE PLATES ARE FOR INTERIOR USE ONLY. IF OUTDOOR USE IS REQUIRED, ADD "S" TO PART NUMBERS SHOWN.



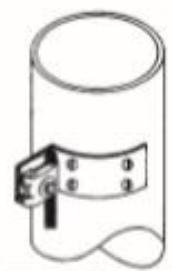
NO. 142HD-A LARGER VERSION OF OUR STANDARD FLAT METAL BONDING CLAMP WHICH EXCEEDS THE 3 SQUARE INCH CONTACT AREA REQUIRED FOR MAIN SIZE BONDING CONNECTIONS. CAPACITY IS FOR UP TO 3/8" THICK METAL AND CABLES THROUGH NO. 507.

NO. A142HD-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A507.



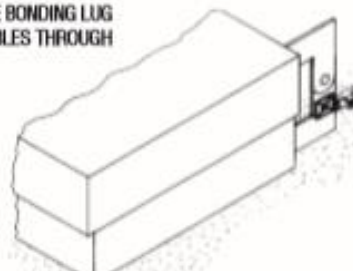
NO. 145N-A 2" WIDE COPPER BONDING PLATE THAT IS FIELD FORMED FOR CONNECTIONS TO CURVED SURFACES ON VENTS, STACKS, OR SIDING, ETC. PREMIUM DIE CAST BRONZE CLAMP ACCEPTS CABLES THROUGH NO. 507.

NO. A145N-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A507.



NO. 551X-A HEAVY DUTY BRONZE PRESSURE TYPE BONDING LUG WITH A PREMIUM DIE CAST CABLE CLAMP FOR CABLES THROUGH NO. 506. MOUNTING HOLE IS 3/4" CLEARANCE.

NO. A551X-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.



BONDING CONNECTORS: FULL/MAIN SIZE



NO. 551—A HEAVY DUTY BRONZE BONDING LUG THAT HAS TWO STAINLESS STEEL SET SCREWS FOR BONDING ALL STANDARD CABLES THROUGH NO. 506 TO FLAT METAL SURFACES. BOLT HOLE SIZE IS NORMALLY $\frac{3}{8}$ " BUT LARGER HOLES CAN BE FURNISHED WHEN SPECIFIED.

NO. 551M—SIMILAR TO NO. 551 BUT IN A LARGER SIZE FOR NO. 507 CABLE.

NO. A551M—AS ABOVE IN ALUMINUM FOR NO. A24 THROUGH NO. A507 CABLES.



NO. 702X—A 3" SQUARE BRONZE BONDING PLATE WITH $\frac{3}{8}$ " DIAMETER BOLT FOR BONDING ALL CABLES THROUGH NO. 506 TO STRUCTURAL STEEL. HAS A PREMIUM DIE CAST CABLE CONNECTION.

NO. A702X—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NOTE: FOR NO. 507/A507 CABLES, ADD "X" TO PART NUMBER SHOWN.



NO. 706RDC—A COMBINATION CABLE SUPPORT AND BONDING CLAMP WITH A $\frac{5}{8}$ " CLEARANCE HOLE. DEVELOPED FOR USE ON BOLTED STRUCTURES SUCH AS RADOMES, METAL STRUCTURE COVERS, AND CABLE TRAYS, ETC., WHERE STRUCTURAL BOLTS SERVE TO MOUNT THIS FITTING. PRESSURE CAP CONNECTOR ALLOWS FOR CONTINUOUS CABLE ROUTE. FOR CABLES THROUGH NO. 506.

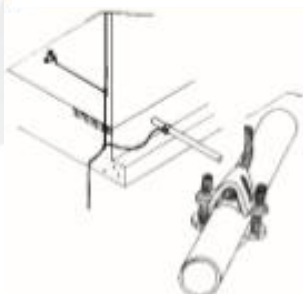
NOTE: NOT AVAILABLE IN ALUMINUM.



NO. 645—A HEAVY DUTY BONDING LUG FOR NO. 507 CABLE WITH 2 SCREW PRESSURE CABLE CLAMP WHICH HAS 2" OF CONTACT LENGTH.

NO. A645—AS ABOVE IN ALUMINUM FOR NO. A507 CABLE.

BONDING CONNECTORS: FULL/MAIN SIZE

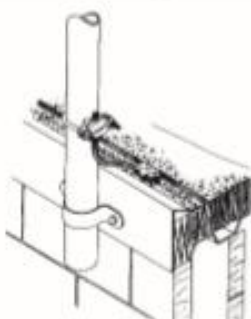


NO. 240—A CAST BRONZE PIPE BONDING CLAMP WITH BIMETAL PLATING TO PREVENT CORROSION. THIS CLAMP ACCEPTS CABLES THROUGH NO. 506 AND PIPE OR TUBE DIAMETERS UP TO 1 1/4" O.D. MAXIMUM. USED FOR BONDING MAIN SIZE CONDUCTORS TO MAIN WATER SERVICE, PIPING, OR ELECTRICAL CONDUITS, ETC.

NO. A240—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NO. 240X—A LARGER VERSION OF NO. 240 THAT WILL ACCEPT PIPING UP TO 2 1/4" O.D. MAXIMUM.

NO. A240X—AS ABOVE IN ALUMINUM.



NO. 802—A U-BOLT TYPE PIPE BONDING CLAMP WITH CAST BRONZE CABLE CONNECTION AND 3/4" STAINLESS STEEL U-BOLT. CLAMP ACCEPTS ALL CABLES THROUGH NO. 507 AND A MAXIMUM PIPE O.D. OF 1 1/4". ALSO USED TO SUPPORT AIR TERMINALS ON VERTICAL PIPE MASTS OR CONDUIT MOUNTED LIGHTS, ETC.

NO. A802—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A507.

NO. 803—SIMILAR TO NO. 802 BUT FOR MAXIMUM O.D. OF 2 1/4".

NO. A803—AS ABOVE IN ALUMINUM.

NO. 804—SIMILAR TO NO. 802 BUT FOR MAXIMUM O.D. OF 3 1/4".

NO. A804—AS ABOVE IN ALUMINUM.

NO. 805—SIMILAR TO NO. 802 BUT FOR MAXIMUM O.D. OF 4 1/4".

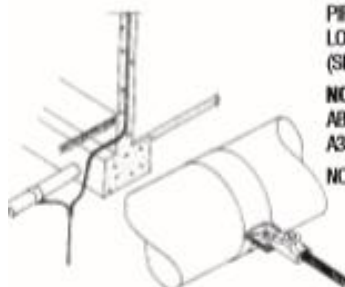
NO. A805—AS ABOVE IN ALUMINUM.



NO. 800—A 1" WIDE BONDING STRAP OF TINNED COPPER WITH A PREMIUM DIE CAST PRESSURE TYPE CABLE CLAMP FOR BONDING TO ROOF VENTS AND PIPING, ETC., UP TO 4" O.D. CABLE CONNECTOR IS FOR SIZES THROUGH NO. 507. (NOT FOR USE AS MAIN WATER SERVICE BOND.) LONGER STRAPS CAN BE FURNISHED FOR LARGER PIPES. (SEE BELOW)

NO. A800—AS ABOVE IN ALUMINUM FOR CABLES THROUGH A507.

NOTE: OTHER SIZES OF THIS STRAP ARE AVAILABLE FOR LARGER DIAMETERS. TO ORDER, ADD SUFFIX DENOTING LARGER DIAMETERS IN 2" INCREMENTS. EXAMPLES: 800-6 IS FOR 6" DIAMETER, 800-8 IS FOR 8" DIAMETER, ETC.



NO. 704—AN ADJUSTABLE 2" WIDE TINNED COPPER BONDING STRAP WITH A PREMIUM DIE CAST PRESSURE TYPE CABLE CONNECTOR FOR CABLES THROUGH 506. FITS PIPE SIZES THROUGH 4" AND O.D. SIZES THROUGH 4 1/2". LONGER STRAPS CAN BE FURNISHED FOR LARGER PIPES. (SEE BELOW)

NO. A704—SAME AS NO. 704 ABOVE IN ALUMINUM. USE ABOVE GROUND ONLY. ACCEPTS CABLES THROUGH NO. A37.

NOTE: OTHER SIZES OF THIS STRAP ARE AVAILABLE FOR LARGER DIAMETERS. TO ORDER, ADD SUFFIX DENOTING LARGER DIAMETERS IN 2" INCREMENTS. EXAMPLES: 704-6 IS FOR 6" DIAMETER, 704-8 IS FOR 8" DIAMETER, ETC.

NOTE: FOR NO. 507/A507 CABLES, ADD SUFFIX "X" TO PART NUMBERS SHOWN ABOVE.

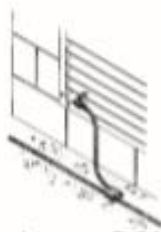


BONDING CONNECTORS: SECONDARY/MISC.



NO. 142X-A SMALL BRONZE CLAMP WITH 1" OF CONTACT TO CONNECT NO. 14X THROUGH NO. 506 WIRE OR CABLE TO FLAT METALLIC BODIES SUCH AS FLASHINGS, ETC.

NO. A142X-AS ABOVE IN ALUMINUM FOR CABLES NO. A509 THROUGH NO. A37.



NO. 561-A CAST BRONZE BONDING LUG FOR SECONDARY METAL BODIES. FOR CABLES NO. 14X THROUGH NO. 509.

NO. A561-AS ABOVE IN ALUMINUM FOR CABLES NO. A509X THROUGH NO. A509.



NO. 588-A FLEXIBLE BONDING STRAP COMPOSED OF 480 STRANDS OF NO. 30 AWG COPPER WIRES. HAS BOLT HOLES TO TAKE EITHER $\frac{1}{16}$ " OR $\frac{3}{16}$ " MACHINE SCREWS. STRAP IS $\frac{3}{4}$ " WIDE X $9\frac{1}{2}$ " LONG OVER-ALL. THIS STRAP IS NORMALLY USED FOR BONDING STEEL DOORS TO STEEL DOOR FRAMES. LONGER OR SHORTER STRAPS CAN ALSO BE FURNISHED. (SEE BELOW)

NO. A588-AS ABOVE IN ALUMINUM.

NO. 588-12-AS ABOVE BUT 12" LONG.

NO. A588-12-AS ABOVE IN ALUMINUM.

NO. 588-24-AS ABOVE BUT 24" LONG.

NO. A588-24-AS ABOVE IN ALUMINUM.

NOTE: STRAPS OF SMALLER OR LARGER SIZES/CAPACITY ARE AVAILABLE. CONTACT FACTORY.

NOTE: LARGER/SMALLER HOLES AVAILABLE UPON REQUEST.



NOTE: FOR TINNED COPPER STRAPS ADD "T" TO PART NUMBER SHOWN.

NOTE: ALSO AVAILABLE WITH LONGER END TABS FOR 2 HOLE MOUNTING. ADD "2H" TO PART NUMBER AND SPECIFY HOLE SIZE AND SPACING.



NO. 503-AN EXTRA FLEXIBLE FLAT CONDUCTOR, 480 STRANDS OF 30 GAUGE COPPER WIRE, $\frac{3}{4}$ " WIDE, 48,250 CIRCULAR MILS, NET WEIGHT 159 LBS. PER 1000 FT. THIS CONDUCTOR IS USED TO FIELD FABRICATE FLEXIBLE JUMPERS OF LONGER LENGTH USING STANDARD CLAMPS/LUGS FOR TERMINATIONS.



NO. A503-SIMILAR TO 503 BUT OF ALUMINUM WIRES. NET WEIGHT 56 LBS. PER 1000 FT. USAGE IS SIMILAR TO NO. 503.

NOTE: NO. 503/A503 NOT FOR USE AS A MAIN SIZE CONDUCTOR.



NO. 613-A PREMIUM DIE CAST BOLT THROUGH CLAMP FOR ATTACHING EITHER ONE OR TWO CABLES TO FLAT METAL SURFACES. FITS CABLES THROUGH NO. 506.

NO. A613-AS ABOVE IN ALUMINUM FOR CABLES THROUGH A37.

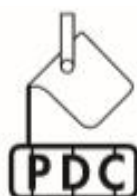


NO. 142-A PREMIUM DIE CAST BRONZE BONDING CLAMP WITH $1\frac{1}{2}$ " OF CONTACT TO CONNECT ALL CABLES THROUGH NO. 506 TO FLAT METALLIC BODIES SUCH AS CHANNEL IRONS, FLASHINGS, ANGLE IRONS, ETC. PRIMARILY TO SERVE AS A CABLE HOLDER ON "I" BEAMS, ANGLE IRONS, ETC. FITS MAXIMUM THICKNESS OF $\frac{3}{8}$ ".



NO. A142-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

CONDUCTOR SPLICERS



NO. 705—A PREMIUM DIE CAST PRESSURE TYPE STRAIGHT SPLICER FOR CABLES THROUGH NO. 506. WILL WITHSTAND VERY SEVERE PULL TESTS DUE TO THE 4" VISE-GRIP 2 BOLT TYPE PRESSURE CLAMP.

NO. A705—AS ABOVE IN ALUMINUM FOR CABLE SIZES THROUGH NO. A37.



NO. 419B—A HEAVY DUTY STRAIGHT SPLICER WITH 4 SET SCREWS FOR CABLES THROUGH NO. 506.

NO. A419—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NOTE: ADD "BR" TO PART NUMBERS SHOWN ABOVE FOR OPTIONAL 1/2" DIAMETER ROUND END SET SCREWS WHICH REDUCE THE POSSIBILITY OF DAMAGING CABLE STRANDS.

NO. 644—AS ABOVE BUT FOR LARGER CABLES FROM NO. 506 THROUGH NO. 507.

NO. A644—AS ABOVE IN ALUMINUM FOR CABLES NO. A37 AND NO. A507.



NO. 416B—A HEAVY DUTY BRONZE CROSS RUN CLAMP FOR ALL STANDARD CABLES THROUGH NO. 506.

NO. A416—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.



NO. 125—A STANDARD FORGED PURE COPPER CROSS RUN CLAMP FOR ALL STANDARD CABLES THROUGH NO. 506.

NO. A125—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.



NO. 423B—A PREMIUM DIE CAST SPLICER FOR CABLES THROUGH NO. 507 TO OTHER CABLES OR TO SOLID RODS UP TO 3/4" IN DIAMETER. THIS SUPERIOR GRADE CLAMP IS A FULL 2" LONG AND PROVIDES A SUPERIOR CONNECTION FOR A WIDE COMBINATION OF SIZES USING 2 - 3/4" STAINLESS STEEL CARRIAGE BOLTS.

NO. A423—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A507.



NO. 141—A PREMIUM DIE CAST BRONZE CLAMP WITH 1 1/2" OF CONTACT TO CONNECT ALL MAIN SIZE CABLES THROUGH NO. 506 TO ALL ROUND METALLIC BODIES THROUGH 3/4" DIAMETER.

NO. A141—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.



NO. 424B—A HEAVY DUTY BARE BRONZE FINGER TYPE PARALLEL SPLICER WITH STAINLESS STEEL BOLTS ADJUSTABLE TO ALL SIZES OF CABLE AND RODS UP TO 3/4" DIAMETER.

NO. A424—AS ABOVE IN ALUMINUM.



NO. 706—A HEAVY DUTY CAST BRONZE PRESSURE TYPE TEE SPLICER FOR SPLICING CABLES THROUGH NO. 506.

NO. A706—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

CONDUCTOR/BIMETAL SPLICERS



NO. 607-A 3 GROOVE PARALLEL CLAMP WHICH CAN BE USED TO CONNECT TWO CABLES THROUGH NO. 506 TO A 1/2" ROD, POINT, OR ANOTHER CABLE.

NO. A607-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NO. 608-SAME AS NO. 607 EXCEPT FOR 3/8" ROD OR POINT.

NO. A608-AS ABOVE IN ALUMINUM.

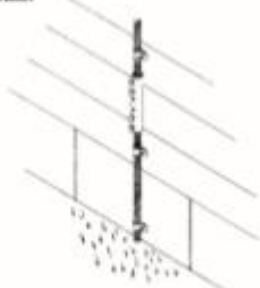


NO. 706X-A HEAVY DUTY, DOUBLE CAP TEE SPLICER OF CAST BRONZE FOR NO. 507 AND 250MCM CABLES. EACH CABLE IS SECURED BY A PRESSURE TYPE CLAMP WITH 2" OF CONTACT LENGTH.

NO. A706X-AS ABOVE IN ALUMINUM FOR NO. A507 CABLE.



NO. 229S-A ONE PIECE HEAVY DUTY STAINLESS STEEL SPLICER TO JOIN COPPER TO ALUMINUM CABLES. CABLE SIZE RANGE UP TO NO. 507/A507. WHEN USED AS A BIMETAL TRANSITION AT DOWN-LEAD LOCATIONS, THIS CLAMP MUST BE 18" MINIMUM ABOVE GRADE. CLAMP HAS WATER TIGHT ISOLATOR AT CENTER AND CAN BE USED WITH EITHER END UP. DRAIN HOLES ARE PROVIDED AT BOTH SIDES TO MINIMIZE POTENTIAL CORROSION. STAINLESS STEEL SET SCREWS HAVE ROUNDED ENDS THAT PREVENT CUTTING OF CABLES WHEN TIGHTENED.



NO. 430B-A U-BOLT PARALLEL CLAMP OF CAST BRONZE USED FOR A PARALLEL CONNECTION FROM EITHER ONE OR TWO CABLES OR RODS THROUGH 1/8" DIAMETER TO ANOTHER CABLE OR ROD. U-BOLT, NUTS, AND WASHERS ARE STAINLESS STEEL.

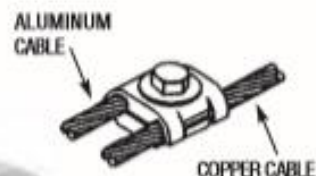
NO. A430-AS ABOVE IN ALUMINUM.



NO. 744-A HEAVY DUTY 3 1/2" LONG BIMETAL PARALLEL CLAMP USED AS A BIMETALLIC CONNECTOR FOR JOINING ALUMINUM AND COPPER CABLES NO. 32 THROUGH NO. 506 TO NO. A24 THROUGH NO. A37 ALUMINUM CABLES.



NO. 744M-STANDARD SIZE 1 1/2" LONG BIMETAL SPLICER SIMILAR TO ABOVE.



NO. 141T-A SPECIALLY PLATED PARALLEL SPLICER USED AS A BIMETAL CONNECTION BETWEEN COPPER AND ALUMINUM CONDUCTORS FROM NO. 29X/NO. A24 THROUGH NO. 507/NO. A507.

MISC. FITTINGS AND SPLICERS



NO. 565-A CAST BRONZE 2" LONG PARALLEL CLAMP FOR CONNECTING MAIN SIZE CABLES THROUGH NO. 506 TO SECONDARY SIZE NO. 14X THROUGH NO. 509 CABLE OR WIRE. SPECIFY CABLE SIZE COMBINATION.

NO. A565-AS ABOVE IN ALUMINUM.



NO. 143-A SMALL SIZE PREMIUM DIE CAST PARALLEL CLAMP OF CAST BRONZE WITH 1" OF CONTACT. CLAMPS SECONDARY SIZE TO STANDARD CABLES OR ROUND METAL OBJECTS THROUGH $\frac{3}{8}$ " DIAMETER.

NO. A143-AS ABOVE IN ALUMINUM.



NO. 171-A SET SCREW CABLE SUPPORT FOR USE ON STANDING SEAM ROOFS WITH SEAMS UP TO $\frac{1}{4}$ " WIDE. COMES COMPLETE WITH LOOP CABLE HOLDER FOR CABLES THROUGH NO. 506.

NO. A171-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.



NO. 172-A AS ABOVE BUT FOR SEAMS UP TO 1" WIDE.

NO. A172-AS ABOVE IN ALUMINUM.

NOTE: FOR NO. 507/A507 CABLES ADD "X" TO THE PART NUMBERS SHOWN.

NOTE: TWO NO. 171 CLIPS (LESS CABLE HOLDER) CAN ALSO BE USED TO SUPPORT NO. 690X BASES TO STANDING SEAMS.



NO. 740-A CABLE TO CABLE WALL OUTLET FOR IMBEDDING IN CONCRETE TO PROVIDE A CONNECTION BETWEEN A CABLE CONCEALED IN A WALL OR FLOOR TO AN EXTERIOR CABLE. MADE OF BRONZE AND FITS ALL CABLES THROUGH NO. 506.

NO. 737-A AN EMBEDDED BUS TERMINAL OUTLET THAT MAY BE INSTALLED FLUSH IN FLOOR SLAB OR WALL. LOWER CLAMP ACCEPTS CABLES UP TO NO. 506. TOP PLATE HAS SMOOTH BRONZE SURFACE WITH FOUR $\frac{3}{16}$ " CAP SCREWS AND ONE $\frac{3}{8}$ " CAP SCREW. UP TO FOUR LEGS/TERMINALS MAY BE ATTACHED BY USING LONGER CAP SCREWS. THIS IS AN EXCELLENT FITTING FOR GROUNDING MACHINERY.



NO. 901-A $\frac{3}{16}$ " STAINLESS STEEL U-BOLT USED TO FIELD FABRICATE SUPPORTS FOR CABLE, AIR TERMINALS, PIPE MASTS, ETC. MAXIMUM O.D. IS $\frac{3}{8}$ ".

NO. 902-AS ABOVE FOR MAXIMUM O.D. OF $1\frac{1}{8}$ ".

NO. 903-AS ABOVE FOR MAXIMUM O.D. OF $2\frac{1}{4}$ ".

NO. 904-AS ABOVE FOR MAXIMUM O.D. OF $3\frac{1}{2}$ ".

NO. 905-AS ABOVE FOR MAXIMUM O.D. OF $4\frac{1}{2}$ ".

NOTE: ORDER NO. 720S STAINLESS STEEL HEX NUTS AND NO. 724S WASHERS SEPARATELY.

NO. ALCO-1 1 INCH WIDE ALCO PLATE (BIMETAL) SHIM STOCK IS MOLECULARLY BONDED COPPER AND ALUMINUM FOR USE IN BONDING COPPER AND ALUMINUM SURFACES TOGETHER. AVAILABLE BY THE FOOT FOR FIELD FABRICATION. (PRE-FABRICATED SHIMS OF THIS MATERIAL ARE AVAILABLE FOR CERTAIN FITTINGS. CONTACT FACTORY.)

NO. ALCO-2-AS ABOVE $2\frac{1}{4}$ " WIDE.



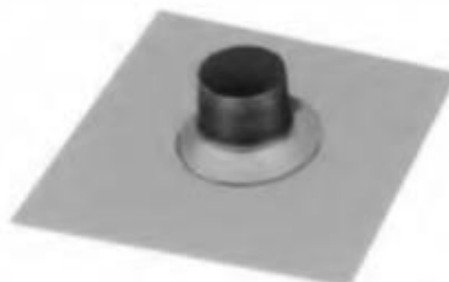
THROUGH ROOF/DOWNLEAD FITTINGS



NO. 746M—A PURE COPPER THROUGH ROOF FLASHING THAT HAS AN 8" DIAMETER BASE WITH A 1/2" DIAMETER X 8" TALL COPPER TUBE. COMES WITH EPDM RUBBER SEAL.

NOTE: COORDINATE RISER BAR LENGTH REQUIRED WITH ROOF THICKNESS WHEN USING THIS FLASHING.

NO. 746MG—AS ABOVE IN GALVANIZED STEEL.



NO. 746NC—A ONE PIECE SEAMLESS COPPER PITCH BOX FOR USE WITH EITHER RISER BARS OR CONDUITS THROUGH 1" SIZE ON CONVENTIONAL TAR AND GRAVEL ROOFS.

NO. 746NG—AS ABOVE IN GALVANIZED STEEL.



NO. AT-1B—A GALVANIZED STEEL "ICE BREAKER" FITTING USED WITH CONCEALED THROUGH ROOF AIR TERMINALS AT THE RAKE EDGE AND EAVE LINES OF METAL ROOF BUILDINGS TO HELP MINIMIZE THE POTENTIAL OF DAMAGE TO THESE AIR TERMINALS FROM SLIDING SNOW AND ICE.

UNDER SEVERE CONDITIONS, THE DESIGNER/OWNER SHOULD ALSO INSTALL STANDARD SNOW GUARDS PER ROOFER RECOMMENDATIONS.



NO. 9034—ONE PAIR OF BRONZE CABLE TO CONDUIT BONDING WEDGES FOR 3/4" CONDUIT.

NO. A9034—AS ABOVE IN ALUMINUM.

NO. 9010—ONE PAIR OF BRONZE CABLE TO CONDUIT BONDING WEDGES FOR 1" CONDUIT.

NO. A9010—AS ABOVE IN ALUMINUM.

NO. 9125—ONE PAIR OF BRONZE CABLE TO CONDUIT BONDING WEDGES FOR 1 1/2" CONDUIT.



NO. 604—AN OVERLAY TYPE GROUND TEST DISCONNECTOR FOR USE ON MASONRY WALLS. COMES COMPLETE WITH BOLTS AND ANCHORS FOR MOUNTING. MADE OF BRONZE FOR USE WITH COPPER CABLES THROUGH NO. 506.

NO. 605—SAME AS NO. 604 EXCEPT WITH WOOD SCREWS FOR MOUNTING ON WOOD WALLS. MADE OF BRONZE FOR USE WITH COPPER CABLES THROUGH NO. 506.



NO. 707—A SUPERIOR PREMIUM DIE CAST BRONZE END TO END GROUND TEST DISCONNECTOR FOR ALL STANDARD CABLES THROUGH NO. 506. CAN BE USED ON EITHER MASONRY OR WOOD WALLS. ORDER MOUNTING HARDWARE/FASTENERS SEPARATELY. (FOR USE WITH COPPER CABLES ONLY.)

THROUGH ROOF/DOWNLEAD FITTINGS



NO. 708—FOR STRAIGHT RUNS FOR CABLES THROUGH NO. 506.

NO. A708—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NO. 708M—AS ABOVE BUT BIMETAL TYPE FOR ALUMINUM ROOF CABLE TO COPPER DOWNLEAD.

NO. 709—FOR STRAIGHT TO RIGHT ANGLE RUNS FOR CABLES THROUGH NO. 506.

NO. A709—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NO. 709M—AS ABOVE BUT BIMETAL TYPE FOR ALUMINUM ROOF CABLE TO COPPER DOWNLEAD.

NO. 710—FOR RIGHT ANGLE RUNS FOR CABLES THROUGH NO. 506.

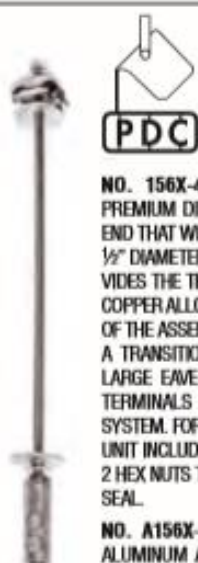
NO. A710—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NO. 710M—AS ABOVE BUT BIMETAL TYPE FOR ALUMINUM ROOF CABLE TO COPPER DOWNLEAD.

THESE THROUGH ROOF OR WALL CONNECTORS ARE ADJUSTABLE FOR ROOF OR WALL THICKNESS UP TO 10". ROD IS 1/2" X 12" BRASS WITH PREMIUM DIE CAST CABLE CONNECTORS AT EACH END. ASSEMBLY INCLUDES TWO LEAD WASHERS, TWO FLAT WASHERS AND TWO NUTS. A LONGER ROD CAN BE FURNISHED FOR THICKER WALLS OR ROOFS. ALL CABLE CONNECTORS ARE FOR CABLES THROUGH NO. 506.

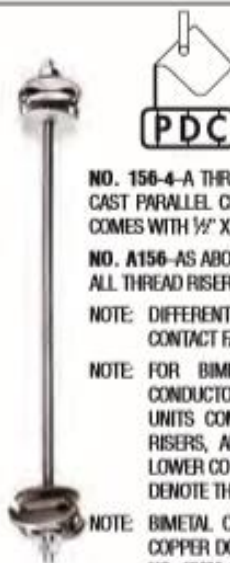
NOTE: FOR 18" OR 24" RISER BARS, ADD "-18" OR "-24" TO PART NUMBERS ABOVE.

NOTE: FOR NO. 507/A507 CABLES, ADD "X" TO PART NUMBER SHOWN.



NO. 156X-4-A THROUGH ROOF ASSEMBLY WITH A PREMIUM DIE CAST PARALLEL CONNECTOR AT THE TOP END THAT WILL ACCEPT TWO CABLES ABOVE THE ROOF. A 1/2" DIAMETER X 18" LONG ALL THREAD BRASS ROD PROVIDES THE THROUGH ROOF TRANSITION TO A MACHINED COPPER ALLOY VERTICAL CONNECTOR AT THE LOWER END OF THE ASSEMBLY. THIS ASSEMBLY IS TYPICALLY USED AS A TRANSITION FROM ROOF TO DOWNLEAD CABLES AT LARGE EAVE OVERHANGS OR TO BRING EXPOSED AIR TERMINALS THROUGH THE ROOF TO A CONCEALED SYSTEM. FOR ALL CONDUCTORS THROUGH NO. 506. THIS UNIT INCLUDES 2 LEAD WASHERS, 2 FLAT WASHERS AND 2 HEX NUTS TO PROVIDE SUPPORT AND WEATHER PROOF SEAL.

NO. A156X—AS ABOVE IN ALUMINUM WITH 1/2" X 18" ALUMINUM ALL THREAD RISER FOR CABLES THROUGH NO. A37



NO. 156-4-A THROUGH ROOF ASSEMBLY WITH PREMIUM DIE CAST PARALLEL CLAMPS AT BOTH UPPER AND LOWER ENDS. COMES WITH 1/2" X 18" ALL THREAD RISER.

NO. A156—AS ABOVE IN ALUMINUM WITH 1/2" X 18" ALUMINUM ALL THREAD RISER.

NOTE: DIFFERENT LENGTH RISER BARS ARE AVAILABLE. CONTACT FACTORY FOR ADDITIONAL INFORMATION.

NOTE: FOR BIMETAL APPLICATIONS (ALUMINUM ROOF CONDUCTORS TO COPPER DOWNLEAD CABLES), THESE UNITS COME WITH 1/2" DIAMETER STAINLESS STEEL RISERS, ALUMINUM TOP CONNECTOR, AND BRONZE LOWER CONNECTOR. USE PART NO. 156XM OR 156M TO DENOTE THIS OPTION.

NOTE: BIMETAL OPTIONS FOR ALUMINUM ROOF CABLES TO COPPER DOWNLEADS: **NO. 156XM**: WITH 1/2" S.S. RISER **NO. 156M**: WITH 1/2" S.S. RISER.

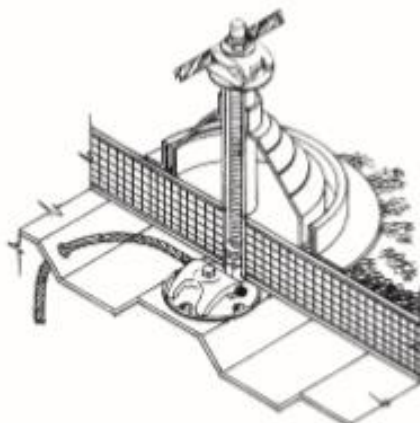
THROUGH ROOF/DOWNLEAD FITTINGS



NO. 156BT-4 (-12) OR (-18) OR (-24)—THIS THROUGH ROOF CONNECTOR ASSEMBLY IS FOR USE WHERE DOWN-LEAD CABLES ARE TO BE TERMINATED ABOVE THE ROOF DECK AND UNDER THE FINISHED ROOF AND INSULATION. THE FLAT SURFACE BASE IS SECURED TO THE DECK WITH SCREWS OR MASONRY ANCHORS. THE 1/2" DIAMETER RISER BAR HAS AN INTEGRAL 1" PVC SLEEVE FOR USE WITH BOOT TYPE ROOF FLASHINGS. RISER BAR LENGTHS ARE 12", 18" OR 24" DENOTED (-) AT THE END OF THE PART NUMBER. PREMIUM DIE CAST CABLE CLAMPS AT TOP AND BASE ARE FOR CABLES THROUGH NO. 506.

NO. A156BT-4 (-12) OR (-18) OR (-24)—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NOTE: FOR BIMETAL APPLICATIONS WITH ALUMINUM CLAMP AT TOP, STAINLESS STEEL RISER BAR, AND BRONZE BASE CONNECTOR, ADD THE LETTER "B" IN FRONT OF THE FIRST HYPHEN IN THE CATALOG NUMBER SHOWN ABOVE. (I.E. 156BTB-4-12 ETC.)



SPECIALTY WASHERS

NO. 200—LEAD WASHER FOR NAILS/SCREWS.

NO. 200N—AS ABOVE IN EPDM.

NO. 727—3/8" I.D. X 1 1/4" O.D. LEAD WASHER.

NO. 727N—3/8" I.D. X 1 1/4" O.D. EPDM WASHER.

NO. 728—1/2" I.D. X 1 3/4" O.D. LEAD WASHER.

NO. 728N—1/2" I.D. X 2" O.D. EPDM WASHER.

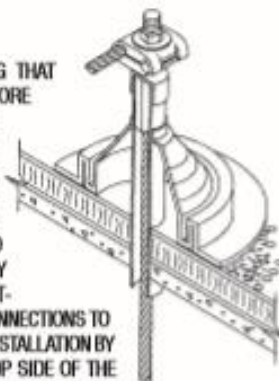
NO. 728X—A 1" DIAMETER 3/4" LONG EPDM SEALING BUSHING WITH CENTER HOLE FOR 3/8" BOLT OR ROD.

NO. 728XX—AS ABOVE BUT WITH 1/2" HOLE.

NO. 728XXX—AS ABOVE BUT WITH 5/8" HOLE.



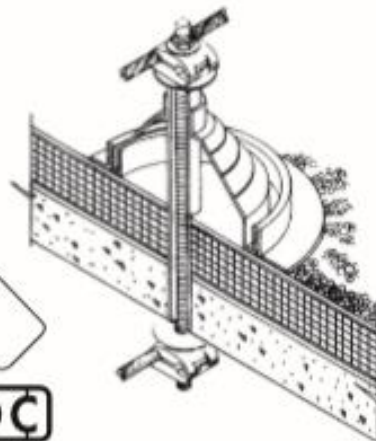
NO. 155-A THROUGH ROOF FITTING THAT ELIMINATES 90° ELBOWS OR OTHER MORE EXPENSIVE FITTINGS AT ROOF PENETRATIONS AND THE PROBLEMS OF SEALING THE END OF THE CONDUIT. THE EPDM WASHER IS SEALED WITH G.E. SILICONE AND THE PVC CAP IS SOLVENT WELDED TO THE DOWNLEAD CONDUIT TO INSURE AN ABSOLUTELY WATERTIGHT INSTALLATION. THIS FITTING IS IDEAL FOR THROUGH ROOF CONNECTIONS TO STEEL AND ALLOWS FOR COMPLETE INSTALLATION BY ONLY ONE TECHNICIAN FROM THE TOP SIDE OF THE ROOF IDEAL FOR ROOF LEVEL LEADS TO STRUCTURAL STEEL. BOTH CONNECTORS ARE BIMETAL TO ALLOW FOR ANY COMBINATION OF COPPER AND ALUMINUM CABLES THROUGH NO. 506 AND/OR NO. A37.



NO. 156P-4 (-12) OR (-18) OR (-24)—THIS THROUGH ROOF ASSEMBLY IS SIMILAR TO THE UNIT ABOVE EXCEPT THE RISER PASSES THROUGH THE ROOF DECK WITH THE DOWNLEAD TERMINATION BELOW THE ROOF. FOR CABLES THROUGH NO. 506.

NO. A156P-4 (-12) OR (-18) OR (-24)—AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NOTE: FOR BIMETAL APPLICATIONS WITH ALUMINUM CLAMP AT TOP, STAINLESS STEEL RISER BAR, AND BRONZE CONNECTOR AT LOWER END, ADD THE LETTER "B" IN FRONT OF THE FIRST HYPHEN IN THE CATALOG NUMBER SHOWN ABOVE. (I.E. 156PB-4-12 ETC.)



RISER BARS AND DOWNLEAD GUARDS

ALL THREAD RISER BARS

SIZE	BRASS	COPPER	ALUMINUM	STAINLESS STEEL
3/8" diameter x 6'0" long	No. 696- (*)	No. 696C- (*)	Not Available	No. 696S- (*)
3/8" diameter x 9' long	No. 696-9	No. 696C-9	Not Available	No. 696S-9
3/8" diameter x 12' long	No. 696-12	No. 696C-12	Not Available	No. 696S-12
3/8" diameter x 18' long	No. 696-18	No. 696C-18	Not Available	No. 696S-18
3/8" diameter x 24' long	No. 696-24	No. 696C-24	Not Available	No. 696S-24
1/2" diameter x 6'0" long	No. 697- (*)	No. 697C- (*)	No. A697- (*)	No. 697S- (*)
1/2" diameter x 9' long	No. 697-9	No. 697C-9	No. A697-9	No. 697S-9
1/2" diameter x 12' long	No. 697-12	No. 697C-12	No. A697-12	No. 697S-12
1/2" diameter x 18' long	No. 697-18	No. 697C-18	No. A697-18	No. 697S-18
1/2" diameter x 24' long	No. 697-24	No. 697C-24	No. A697-24	No. 697S-24

NOTE: OTHER DIAMETER/LENGTH COMBINATIONS ARE AVAILABLE FOR RISER BARS OF ANY MATERIAL. CONTACT FACTORY FOR ADDITIONAL INFORMATION.

* RISER BARS CAN BE ORDERED IN ANY PRE-CUT LENGTH UP TO 6'0" LONG. TO SPECIFY LENGTHS UNDER 6'0" OTHER THAN THOSE LISTED ABOVE, ADD A DASH AND SUFFIX FOR THE LENGTH IN INCHES TO THE BASIC PART NUMBERS SHOWN. EXAMPLE: A 1/2" X 36" BRASS RISER WOULD BE ORDERED UNDER PART NO. 697-36.



NO. 242XP-AN 8'0" MOLDED PVC GUARD (LIGHT GREY COLOR) FOR PROTECTION OF EXPOSED DOWN CONDUCTORS. GUARD CAN BE MOUNTED TO WOOD, METAL OR MASONRY SURFACES. SIX FASTENERS ARE RECOMMENDED AND SHOULD BE ORDERED SEPARATELY. MOUNTING HOLES ARE FOR 1/4" MAXIMUM DIAMETER FASTENERS.

NO. 242X-SIMILAR TO NO. 242XP BUT 7'0" LONG AND OF GALVANIZED STEEL WHERE EXTRA STRENGTH IS REQUIRED. REQUIRES SIX 1/4" FASTENERS WHICH MUST BE ORDERED SEPARATELY.

NO. 242X-5-AS ABOVE BUT 5'0" LONG.



NO. 465X-A 1/4" DIAMETER BY 8'0" LONG COPPER TUBE DOWN CONDUCTOR GUARD. COMES COMPLETE WITH A SET SCREW TYPE CONNECTOR FOR BONDING THE DOWNLEAD CABLE AT THE TOP AND BOTTOM ENDS.

NOTE: SUPPORTS AND FASTENERS ARE ORDERED SEPARATELY. USE THREE NO. 589X BRONZE CLIPS PER GUARD. THESE CLIPS HAVE 1/4" CLEARANCE HOLES FOR MOUNTING HARDWARE.



NO. 246-1/4" I.D. X 8'0" LONG PVC CONDUIT DOWNLEAD GUARD SECURED WITH 3 GALVANIZED STEEL SUPPORT STRAPS (NO. 589XG) FOR USE WITH 1/4" DIAMETER FASTENERS. ORDER FASTENERS AND STRAPS SEPARATELY.



NO. 243-THIS HEAVY DUTY PRESSURE TREATED WOOD GUARD IS 8'0" LONG. TYPICALLY USED ON WOOD POLE LIGHTNING MASTS. SECURE WITH 2 NO. 157G COPPER WELD STAPLES WHICH ARE ORDERED SEPARATELY.

GROUND RODS

COPPERWELD GROUND RODS

GROUND RODS AVAILABLE
UP TO 20' CONTINUOUS
LENGTH IN COPPERWELD.

NO. TL128 - 1/2" X 8'0" COPPERCLAD GROUND ROD

NO. TL1210 - 1/2" X 10'0" COPPERCLAD GROUND ROD.

NO. TL588 - 5/8" X 8'0" COPPERCLAD GROUND ROD.

NO. TL5810 - 5/8" X 10'0" COPPERCLAD GROUND ROD.

NO. TL348 - 3/4" X 8'0" COPPERCLAD GROUND ROD.

NO. TL3410 - 3/4" X 10'0" COPPERCLAD GROUND ROD.

NO. TL3420 - 3/4" X 20'0" COPPERCLAD GROUND ROD.

NO. TL1010 - 1" X 10'0" COPPERCLAD GROUND ROD.

NO. TL1020 - 1" X 20'0" COPPERCLAD GROUND ROD.

NOTE: OTHER SIZE RODS
AVAILABLE. CONTACT
FACTORY.

SECTIONAL GROUND RODS

NO. TL125S - 1/2" X 5'0" SECTIONAL COPPERCLAD GROUND ROD.

NO. TL126S - 1/2" X 6'0" SECTIONAL COPPERCLAD GROUND ROD.

NO. TL128S - 1/2" X 8'0" SECTIONAL COPPERCLAD GROUND ROD.

NO. TL1210S - 1/2" X 10'0" SECTIONAL COPPERCLAD GROUND ROD.

NO. TL585S - 5/8" X 5'0" SECTIONAL COPPERCLAD GROUND ROD.

NO. TL586S - 5/8" X 6'0" SECTIONAL COPPERCLAD GROUND ROD.

NO. TL588S - 5/8" X 8'0" SECTIONAL COPPERCLAD GROUND ROD.

NO. TL5810S - 5/8" X 10'0" SECTIONAL COPPERCLAD GROUND ROD.

NO. TL345S - 3/4" X 5'0" SECTIONAL COPPERCLAD GROUND ROD.

NO. TL348S - 3/4" X 8'0" SECTIONAL COPPERCLAD GROUND ROD.

NO. TL3410S - 3/4" X 10'0" SECTIONAL COPPERCLAD GROUND ROD.

NO. TL1008S - 1" X 8'0" SECTIONAL COPPERCLAD GROUND ROD.

NO. TL1010S - 1" X 10'0" SECTIONAL COPPERCLAD GROUND ROD.

SOLID/FULL SIZE GROUND RODS

STAINLESS STEEL GROUND RODS

PLAIN

302/304 ALLOY

NO. TL358 - 5/8" X 8'0" - **NO. TL458**

NO. TL3510 - 5/8" X 10'0" - **NO. TL4510**

NO. TL368 - 3/4" X 8'0" - **NO. TL468**

NO. TL3610 - 3/4" X 10'0" - **NO. TL4610**

416 ALLOY

SECTIONAL

302/304 ALLOY

NO. TL358S - 5/8" X 8'0" - **NO. TL458S**

NO. TL3510S - 5/8" X 10'0" - **NO. TL4510S**

NO. TL368S - 3/4" X 8'0" - **NO. TL468S**

NO. TL3610S - 3/4" X 10'0" - **NO. TL4610S**

416 ALLOY

PURE COPPER GROUND RODS

NO. TL128PC - 1/2" X 8'0" SOLID COPPER

NO. TL1210PC - 1/2" X 10'0" SOLID COPPER

NO. TL588PC - 5/8" X 8'0" SOLID COPPER

NO. TL5810PC - 5/8" X 10'0" SOLID COPPER

NO. TL348PC - 3/4" X 8'0" SOLID COPPER

NO. TL3410PC - 3/4" X 10'0" SOLID COPPER

NOTE: SECTIONAL PURE COPPER GROUND
RODS ARE NOT RECOMMENDED.

COUPLERS

HIGH STRENGTH BRONZE FOR COPPERCLAD RODS.

NO. 50C - FOR 1/2" RODS.

NO. 60C - FOR 5/8" RODS.

NO. 70C - FOR 3/4" RODS.

NO. 80C - FOR 1" RODS.

STAINLESS STEEL

NO. 60CS - FOR 5/8" RODS.

NO. 70CS - FOR 3/4" RODS.

DRIVE STUDS

HIGH STRENGTH TOOL STEEL FOR DRIVING SECTIONAL RODS.

NO. 50DS - FOR 1/2" SECTIONAL RODS.

NO. 60DS - FOR 5/8" SECTIONAL RODS.

NO. 70DS - FOR 3/4" SECTIONAL RODS.

NO. 80DS - FOR 1" SECTIONAL RODS.

DRIVING TOOL

TO PREVENT MUSHROOMING OF ENDS ON PLAIN GROUND
RODS WHEN DRIVEN WITH HAMMER.

NO. 50DT - FOR 1/2" RODS.

NO. 60DT - FOR 5/8" RODS.

NO. 70DT - FOR 3/4" RODS.

AUGER TIPS FOR TIE DOWN RODS

FOR 4" DIAMETER AUGER, ADD "4A"
TO PART NUMBERS ABOVE.

FOR 5" DIAMETER AUGER, ADD "5A"
TO PART NUMBERS ABOVE.

TIE DOWN GROUNDS

NO. TL586TD - 5/8" DIAMETER, 60" OVERALL LENGTH
COPPERCLAD STEEL TIE DOWN GROUND ROD. INSIDE
DIAMETER OF EYE IS 1 1/2".

NO. TL586TDS - AS ABOVE WITH LOWER END THREADED.

NO. TL346TD - AS ABOVE BUT 3/4" DIAMETER.

NO. TL346TDS - AS ABOVE BUT WITH LOWER END
THREADED.

NO. TDG-CF - A ONE PIECE
PLASTIC BLOCK-OUT
FORM USED DURING
CONCRETE POUR TO CRE-
ATE AN ACCESS GROOVE
TO THE "EYE" PORTION OF
TIE - DOWN GROUND
RODS.

NO. TDG-DT - A ONE PIECE TOOL STEEL
DRIVING BLOCK RADIUSED FOR DRIV-
ING TIE DOWN GROUNDS WITHOUT
DEFORMING THE EYE LOOP PORTION.

NO. TDG-DT1 - AS ABOVE BUT MADE IN
TWO SEPARABLE SECTIONS TO ELIMI-
NATE ANY POSSIBLE JAMMING DURING
DRIVING.



GROUND CLAMPS AND PLATES



NO. 230—A HEAVY DUTY $2\frac{3}{8}$ " LONG CAST BRONZE TWO BOLT GROUND ROD CLAMP FOR $\frac{1}{2}$ " GROUND RODS. THIS CLAMP HAS TWO $\frac{3}{16}$ " STAINLESS STEEL SET SCREWS AND WILL ACCEPT MAIN SIZE CABLES THROUGH NO. 506. THIS CLAMP IS ALSO USED IN SOME CASES TO CONNECT CABLES TO $\frac{1}{2}$ " AIR TERMINALS OR THROUGH ROOF RISERS, ETC.



NO. 231—SIMILAR TO NO. 230 BUT FOR $\frac{3}{8}$ " GROUND RODS AND CABLES THROUGH NO. 507.



NO. 519—A LARGE, HEAVY DUTY $3\frac{1}{4}$ " LONG CAST BRONZE GROUND ROD CLAMP FOR $\frac{3}{4}$ " GROUND RODS. THIS CLAMP HAS TWO $\frac{3}{16}$ " STAINLESS STEEL SET SCREWS AND WILL ACCEPT CABLES THROUGH NO. 507.



NO. 493—THIS $\frac{3}{8}$ " STAINLESS STEEL U-BOLT TYPE ROD TO CABLE CLAMP IS A VERY VERSATILE CONNECTOR FOR CLAMPING ALL MAIN SIZE CABLES FROM NO. 29X THROUGH NO. 507 TO GROUND RODS THROUGH $\frac{1}{2}$ " DIAMETER. THIS CLAMP CAN ALSO BE USED TO CONNECT AIR TERMINALS, RISER BARS, REINFORCING RODS, AND SMALL PIPING (THROUGH $\frac{1}{4}$ " DIAMETER) TO CABLES.

NO. A493—AS ABOVE BUT FOR MAIN SIZE ALUMINUM CABLES FROM NO. A24 THROUGH NO. A507. (NOTE: NOT FOR UNDERGROUND USE.)

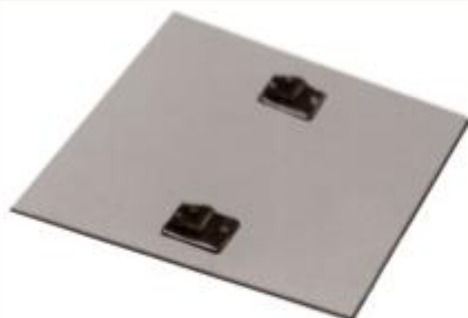


NO. 693—THIS CLAMP IS OUR PREMIER MULTIPURPOSE BOLT PRESSURE CLAMP. USES INCLUDE CONNECTING MAIN SIZE CABLES FROM 29X THROUGH 506 TO SOLID RODS (AIR TERMINALS, RISERS, OR GROUND RODS) THROUGH $\frac{1}{2}$ " DIAMETER.

NO. 693-3—SIMILAR TO NO. 693 BUT WITH EXTRA CENTER PLATE TO FACILITATE 3 WAY CABLE CONNECTION PLUS GROUND ROD.

NO. 693M—AS ABOVE BUT LARGER FOR MINIMUM $\frac{3}{8}$ " GROUND RODS TO NO. 507 THROUGH NO. 510 CABLES.

NO. 693M-3—AS ABOVE BUT WITH EXTRA CENTER PLATE FOR 3-WAY CONNECTION.



NO. 233M—A SOLID COPPER GROUND PLATE USED WHERE SHALLOW OR ROCKY TOPSOIL CONDITIONS PRECLUDE THE USE OF DRIVEN GROUND RODS. THIS GROUND PLATE IS 18" X 18" X 20 GAUGE THICK AND COMES COMPLETE WITH TWO PREMIUM DIE CAST BOLT PRESSURE TYPE CABLE CONNECTIONS FOR CABLES THROUGH NO. 506.

NO. 233MM—AS ABOVE BUT 24" X 24" IN SIZE.

NO. 234M—AS ABOVE BUT 36" X 36" IN SIZE.

NOTE: FOR EXOTHERMIC GROUND CONNECTIONS, $\frac{1}{4}$ " THICK COPPER PLATES IN ALL SIZES ARE AVAILABLE. CONTACT FACTORY (STOCK SIZE IS $\frac{1}{4}$ " X 24" X 24" NO. 234MX.)



NO. 235—THIS GROUND DEVICE IS AN ALTERNATE TO DRIVEN GROUND RODS OR FLAT PLATES THAT ARE USED WHERE SMALLER EXCAVATION OR DRILLED HOLE METHOD OF INSTALLATION IS PREFERRED. THIS UNIT IS FABRICATED OF 20 GAUGE COPPER WITH EACH OF THE FOUR "WINGS" HAVING A DIMENSION OF $3\frac{1}{2}$ " WIDE X 18" LONG. SET SCREW CABLE CONNECTOR ACCEPTS ALL MAIN SIZE COPPER CABLES THROUGH NO. 506.



GROUND ACCESS WELLS



STANDARD SIZES: (STOCK)

NO. GWP-1024-PVC. TEST WELL,
10" ± I.D. X 24" LONG WITH 1/4" THICK
GALVANIZED STEEL FRICTION-FIT
COVER.

NO. GWP-1036-AS ABOVE BUT 36"
LONG.

NO. GWP-1224-PVC. TEST WELL,
12" ± I.D. X 24" LONG WITH 1/4" THICK
GALVANIZED STEEL FRICTION-FIT
COVER.

NO. GWP-1236-AS ABOVE BUT 36"
LONG.

NO. GWP-1524-PVC. TEST WELL,
15" ± I.D. X 24" LONG WITH 1/4" THICK
GALVANIZED STEEL FRICTION-FIT
COVER.

NO. GWP-1536-AS ABOVE BUT 36"
LONG.

NO. GWP-1824-PVC. TEST WELL,
18" ± I.D. X 24" LONG WITH 1/4" THICK
GALVANIZED STEEL FRICTION-FIT
COVER.

NO. GWP-1836-AS ABOVE BUT 36"
LONG.

CUSTOM SIZES: (SPECIAL ORDER)

NO. GWP-624-PVC TEST WELL 6" ±
I.D. X 24" LONG.

NO. GWP-824-AS ABOVE 8" ± I.D. X
24" LONG.

GROUND ACCESS WELLS:

TO FACILITATE TESTING OF GROUNDING SYSTEMS WE OFFER A WIDE VARIETY OF ACCESS TEST WELLS. MOST COMMONLY USED AND READILY AVAILABLE ARE THOSE CONSTRUCTED OF PVC. THESE UNITS COMBINE SUPERIOR CORROSION AND DETERIORATION RESISTANCE QUALITIES WITH LIGHT WEIGHT AND EASE OF INSTALLATION FOR THE OPTIMUM IN GROUND WELLS. THESE UNITS ARE SUITABLE FOR INSTALLATION IN AREAS OF POURED CONCRETE, ASPHALT OR NORMAL EARTH. COVERS ARE GENERALLY RATED FOR VEHICLE AND PEDESTRIAN TRAFFIC. A UNIQUE FEATURE OF THESE UNITS IS THE EASE OF ROUTING GROUND CABLES THROUGH THE SIDE WALLS OF THE WELL. CONCRETE AND CLAY TILE WELLS DO NOT ADAPT EASILY TO THIS METHOD. STANDARD SIZES AVAILABLE ARE SHOWN IN THE CHART BELOW. OTHER DIAMETERS, LENGTHS, AND COVER CONFIGURATIONS ARE AVAILABLE UPON REQUEST.

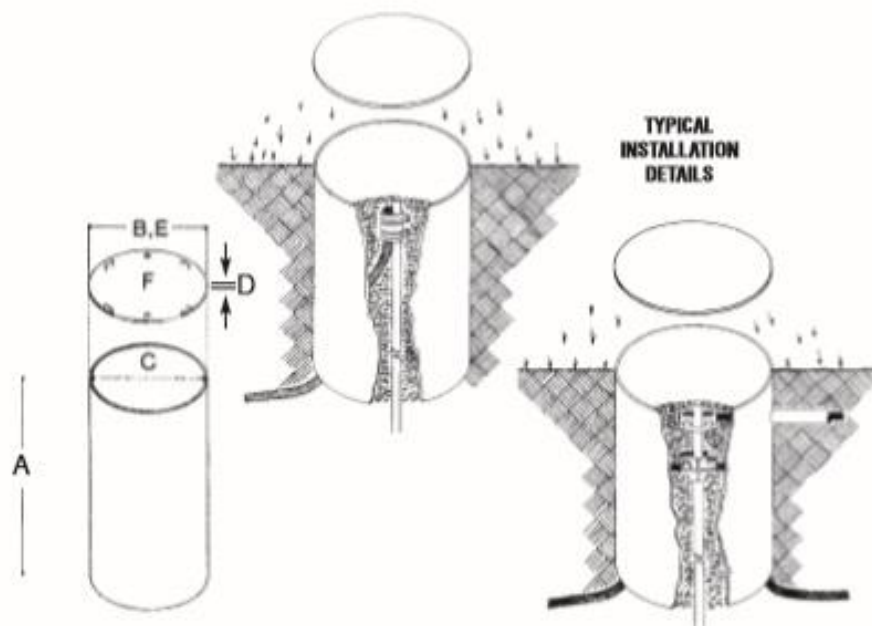
	A LENGTH	B* O.D.	C* I.D.	D COVER THICKNESS	E* Ø OF COVER	F COVER MATERIAL
GWP-624	24"	6.25"	5.875"	1/4"	6.25"	Steel
GWP-824	24"	8.25"	7.875"	1/4"	8.5"	Steel
GWP-1024	24"	10.5"	9.875"	1/4"	10.5"	Steel
GWP-1036	36"	10.5"	9.875"	1/4"	10.5"	Steel
GWP-1224	24"	12.5"	11.75"	1/4"	12.5"	Steel
GWP-1236	36"	12.5"	11.75"	1/4"	12.5"	Steel
GWP-1524	24"	15.675"	14.675"	1/4"	15.675"	Steel
GWP-1536	36"	15.675"	14.675"	1/4"	15.675"	Steel
GWP-1824	24"	18.75"	17.75"	1/4"	18.75"	Steel
GWP-1836	36"	18.75"	17.75"	1/4"	18.75"	Steel

(*Nominal dimensions - may vary slightly)

OTHER OPTIONS: IN ADDITION TO THE PVC. GROUND WELLS SHOWN, WE HAVE AVAILABLE, BY SPECIAL ORDER, A NUMBER OF OTHER GROUND ACCESS DEVICES. THESE INCLUDE:

- RECTANGULAR CAST IRON FLOOR BOXES WITH EITHER HINGED OR BOLT COVERS.
- CONCRETE GROUND WELLS.
- MOLDED, REINFORCED PLASTIC ACCESS BOXES.

NOTE: OVER-ALL FREIGHT COSTS AND POSSIBLE DAMAGE AS WELL AS DIFFICULTY OF INSTALLATION SHOULD BE CAREFULLY EVALUATED WHEN CONSIDERING THESE OPTIONS.



**TYPICAL
INSTALLATION
DETAILS**

STATIC GROUND RECEPTACLES



632 SERIES FLOOR GROUND RECEPTACLE.
STANDARD DESIGN FOR USE ONLY WITH A GROUND ROD.

NO. 632-4SS—FOR 1/2" ROD WITH SET SCREW.
NO. 632-5SS—FOR 5/8" ROD WITH SET SCREW.
NO. 632-6SS—FOR 3/4" ROD WITH SET SCREW.
NO. 632-4DT—FOR 1/2" SECTIONAL ROD WITH 1/2" THREADS.
NO. 632-5DT—FOR 5/8" SECTIONAL ROD WITH 5/8" THREADS.
NO. 632-6DT—FOR 3/4" SECTIONAL ROD WITH 3/4" THREADS.



632X SERIES FLOOR GROUND RECEPTACLE.
SAME AS NO. 632 EXCEPT A CLAMP IS ATTACHED TO THE SIDE TO ENGAGE ANY HORIZONTAL CABLE THROUGH NO. 506.

NO. 632X-4SS—FOR 1/2" ROD WITH SET SCREW.
NO. 632X-5SS—FOR 5/8" ROD WITH SET SCREW.
NO. 632X-6SS—FOR 3/4" ROD WITH SET SCREW.
NO. 632X-4DT—FOR 1/2" SECTIONAL ROD WITH 1/2" THREADS.
NO. 632X-5DT—FOR 5/8" SECTIONAL ROD WITH 5/8" THREADS.
NO. 632X-6DT—FOR 3/4" SECTIONAL ROD WITH 3/4" THREADS.



NO. 632GS-1—BRASS BALL TYPE GROUND STUD AS USED WITH NO. 632 SERIES GROUND RECEPTACLES. ALSO FOR USE ON BUS BARS, GROUND PLATES, ETC. BALL DIAMETER IS 5/8". THREADED STUD IS 1/2-13 X 1/4" LONG. OVERALL LENGTH IS 1 1/4".

NO. 632GC—A HEAVY DUTY, ALL COPPER, SPRING TENSION CLAMP FOR CONNECTING STATIC GROUND CABLE LEAD TO 632 SERIES GROUND RECEPTACLE STUDS. DESIGN ALLOWS FULL 360° SWIVEL TO HELP PREVENT CLAMP FROM BEING PULLED OFF STUD.

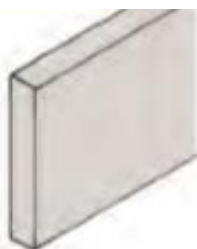


632XX SERIES FLOOR GROUND RECEPTACLE.
SAME AS NO. 632X EXCEPT THE SIDE CLAMP IS FOR FLOOR MESH OR HORIZONTAL CABLES OR WIRES THROUGH NO. 509X.

NO. 632XX-4SS—FOR 1/2" ROD WITH SET SCREW.
NO. 632XX-5SS—FOR 5/8" ROD WITH SET SCREW.
NO. 632XX-6SS—FOR 3/4" ROD WITH SET SCREW.
NO. 632XX-4DT—FOR 1/2" SECTIONAL ROD WITH 1/2" THREADS.
NO. 632XX-5DT—FOR 5/8" SECTIONAL ROD WITH 5/8" THREADS.
NO. 632XX-6DT—FOR 3/4" SECTIONAL ROD WITH 3/4" THREADS.

THE ABOVE BRONZE GROUNDING RECEPTACLES COME COMPLETE WITH AN EASILY REMOVABLE FLUSH COVER PERMANENTLY SECURED WITH A BRASS CHAIN.

GROUNDING BARS



THESE PURE, SOLID COPPER BARS ARE FOR CONTINUOUS WALL MOUNTING IN HAZARDOUS OR EXPLOSIVE AREAS. ALL SIZES COME IN APPROXIMATELY 12' LENGTHS.

COPPER BARS - AVAILABLE IN UP TO 12' (APPROX.) LENGTHS

CAT. NO.	SIZE	WEIGHT/PIECE
37108 (+)	3/8" X 1"	5.81 LB.
37116 (+)	3/8" X 2"	11.63 LB.
37208 (+)	3/4" X 1"	11.63 LB.
37212 (+)	3/4" X 1 1/2"	17.40 LB.
37216 (+)	3/4" X 2"	23.28 LB.

NOTE: OTHER SIZES AVAILABLE. CONTACT FACTORY.

(+) PART NUMBERS SHOWN ARE SOLD AND PRICED PER LINEAL FOOT. PLEASE ORDER ACCORDINGLY.



NO. 39108-A 1/2" THICK, 1" WIDE BY 4" LONG PREDRILLED SPLICE BAR FOR JOINING 3/8" X 1" BARS END TO END.



NO. 39412-A 3/4" THICK BY 1 1/2" WIDE BY 4" LONG PREDRILLED SPLICE BAR FOR JOINING 3/4" X 1 1/2" BARS END TO END.

NO. 39416-AS ABOVE BUT 2" WIDE FOR JOINING 3/4" X 2" BARS END TO END.



NO. 36210-A WHITE NYLON STAND-OFF WITH A 1/4" CLEARANCE HOLE FOR DIRECT MOUNT OF BAR TO WALL. DIAMETER IS 1", HEIGHT IS 1 1/4". SEE DETAIL ① BELOW.

NO. 36212-AS ABOVE BUT 1 1/2" DIAMETER AND 1 1/2" HEIGHT



NO. 38210-A RED 600 VOLT STAND-OFF INSULATOR FOR AN ISOLATED MOUNT OF GROUND BAR. DIAMETER IS 1", HEIGHT IS 1 1/4". INSERTS FOR MOUNTING ARE THREADED 1/4"-20. SEE DETAIL ② BELOW.



NO. 38311-AS ABOVE BUT 1 3/8" FACE DIAMETER WITH 1 3/8" HEIGHT. INSERTS ARE THREADED 3/8"-16.



NO. 38316-A RED 600 VOLT STAND-OFF INSULATOR WITH 1 1/2" FACE DIAMETER AND 2" HEIGHT. INSERTS ARE THREADED 3/8"-16.



NO. 39208-A 3/4" X 1" STAINLESS STEEL THREADED STUD FOR MOUNTING STANDOFF INSULATORS TO THREADED ANCHORS.

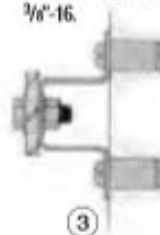
NO. 39308-AS ABOVE BUT 3/8" X 1 1/4".



①



②



③

TYPICAL GROUND BUS MOUNTING DETAILS

(ORDER MOUNTING HARDWARE SEPARATELY)



NO. 39210-A STAINLESS STEEL MOUNTING BRACKET FOR SECURING GROUND BARS (WITH OR WITHOUT STAND-OFFS) TO WALLS. (A) DIMENSION IS 1 1/2" (B) DIMENSION IS 1 1/2" SEE DETAIL ③ ABOVE.



CUSTOM GROUND BARS

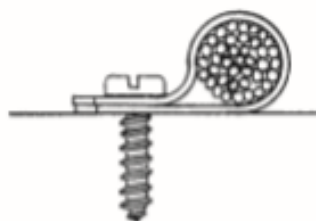
THOMPSON HAS COMPLETE CAPABILITY TO FABRICATE ANY SIZE, TYPE OR STYLE OF CUSTOM GROUND PLATE OR GROUND BAR. PLEASE SUBMIT FULL DETAILS OF SIZE, QUANTITY, DRILLING AND MOUNTING, ETC. FOR A PROMPT QUOTATION.

CABLE HOLDERS



NO. 166-A 5/8" WIDE COPPER CABLE SUPPORT LOOP FOR USE WITH ALL MAIN SIZE CABLES THROUGH NO. 506. THIS LOOP IS PREFORMED FOR EASE OF INSTALLATION AND IS SECURED WITH FASTENERS OF 1/4" MAXIMUM DIAMETER.

NO. A166-A AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.



NO. 165-A 1/2" WIDE COPPER LOOP SIMILAR TO ABOVE. MOUNTING HOLES ARE FOR NAILS OR SCREWS NOT LARGER THAN 1/4" IN DIAMETER.

NO. A165-A AS ABOVE IN ALUMINUM.



NO. 166X-A 5/8" WIDE LOOP SUPPORT WITH 1/4" HOLE FOR SECURING NO. 507 CABLE OR 3/8" TUBE.

NO. A166X-A AS ABOVE IN ALUMINUM.



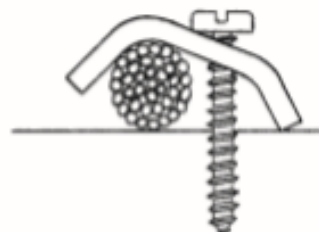
NO. 166XX-A 1" WIDE COPPER LOOP WITH 1/4" MOUNTING HOLES FOR ALL CABLES THROUGH NO. 506.

NO. A166XX-A AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.



NO. 168-A 5/8" WIDE HEAVY DUTY SOLID COPPER CLIP WITH SLOTTED MOUNTING HOLE FOR 1/4" MAXIMUM FASTENERS. CLIP ACCEPTS A WIDE RANGE OF CONDUCTORS FROM NO. 14 THROUGH NO. 507.

NO. A168-A AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A507.



NO. 167-A 1/2" WIDE COPPER CLIP SIMILAR TO NO. 168 FOR MOUNTING WITH NAILS OR OTHER FASTENERS NOT OVER 3/16" DIAMETER.

NO. A167-A AS ABOVE IN ALUMINUM.



NO. 168M-A HEAVY DUTY STAMPED COPPER ONE HOLE CLIP FOR NO. 507 CABLE OR 3/8" TUBE WITH 1/4" HOLE. ORDER FASTENERS SEPARATELY.

NO. A168M-A AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A507 CABLE.



NO. 158-A 1/2" WIDE STAMPED COPPER CLIP WITH MOUNTING HOLE FOR NAILS OR SCREWS UP TO 3/16" DIAMETER. THIS CLIP IS FOR SECONDARY CABLES FROM NO. 14X THROUGH NO. 509.

NO. A158-A AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A509.



NO. 159 SIMILAR TO NO. 158 BUT WITH MOUNTING HOLE FOR 1/4" MAXIMUM DIAMETER FASTENERS.

NO. A159-A AS ABOVE IN ALUMINUM.

NOTE: OTHER SIZE HOLES FOR FASTENERS ARE AVAILABLE ON A SPECIAL ORDER BASIS (CONTACT FACTORY).

CABLE HOLDERS



NO. 730-A STAMPED CABLE HOLDER SECURED WITH ADHESIVE ON FLAT ROOFS. THE ROLLED EDGE AND BREAK-AWAY TABS ARE DESIGNED TO PROTECT ROOF SURFACES. ACCEPTS ALL CABLES THROUGH NO. 507.

NO. A730-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A507.



NO. 186X-A HEAVY DUTY CAST BRONZE ADHESIVE CABLE HOLDER WITH COPPER CLIP AND STAINLESS STEEL MACHINE SCREW. ACCEPTS CABLES THROUGH NO. 506. (SEE NOTE AT NO. 731 REGARDING ADHESIVE SELECTION AND PRECAUTIONS.)

NOTE: IT IS IMPORTANT TO SELECT AN ADHESIVE THAT IS COMPATIBLE WITH THE ROOFING SYSTEM IN USE. A WIDE VARIETY OF ADHESIVES ARE AVAILABLE IN GALLON CANS OR CAULKING TUBES OF VARIOUS SIZES. FOR ALL MEMBRANE ROOFS THE ACTUAL ROOF MANUFACTURER SHOULD BE DETERMINED PRIOR TO ORDERING ANY ADHESIVE.



NO. 731-G ONE GALLON "CONSTRUCTION MASTIC" FOR USE ON ASPHALT BASED (FLAT OR SHINGLED) OR METAL ROOFS.

NO. 731-Q DENOTES 29 OZ. TUBE.

NO. 731-P DENOTES 10 OZ. TUBE.

NOTE: IF ROOF IS SINGLE MEMBRANE TYPE, I.E., PVC, EPDM, THERMOPLASTIC, ETC., SPECIAL ADHESIVES COMPATIBLE WITH THE ROOF MATERIAL MUST BE USED. CONTACT FACTORY FOR FURTHER INFORMATION.

NOTE: ONE GALLON IS USUALLY ADEQUATE FOR APPROXIMATELY 50 BASES OR 100 CABLE HOLDERS.



NO. 533-A COPPER RIDGE CABLE SUPPORT 2" WIDE THAT HOLDS THE CABLE ABOVE THE ROOF. FITS ALL CABLES THROUGH NO. 506. THIS SUPPORT IS USED IN CONJUNCTION WITH NO. 532 POINT BRACKET.

NO. A533-AS ABOVE IN ALUMINUM FOR CABLE SIZES THROUGH A37.



NO. 589X-A HEAVY DUTY CAST BRONZE CLIP USED TO SECURE THE NO. 465X COPPER GUARD PIPE. USE THREE CLIPS PER GUARD. MOUNTING HOLE IS 1/4" CLEARANCE. ORDER FASTENERS SEPARATELY TO SUIT MOUNTING SURFACE.

NO. 589XG-AS ABOVE BUT OF GALVANIZED STEEL FOR USE WITH 3/4" PVC OR METAL CONDUIT GUARDS.



NO. 188M-A COPPER WRAP-AROUND STRAP AND CLIP CABLE SUPPORT FOR SECURING CABLES THROUGH NO. 506 TO PIPES UP TO 2" O.D.

NO. A188M-AS ABOVE IN ALUMINUM FOR CABLE SIZES THROUGH NO. A37.

NO. 188MX-AS ABOVE BUT FOR NO. 507 CABLE.

NO. A188MX-AS ABOVE IN ALUMINUM FOR NO. A507 CABLE.

NOTE: FOR TINNED STRAP ADD "T" TO THE PART NUMBERS SHOWN, I.E. NO. 188MT, ETC.

NOTE: FOR LARGER SIZE STRAPS ADD DESIRED DIAMETER TO PART NUMBER: EXAMPLE 4" DIAMETER=NO. 188M-4, ETC.



NO. 564-A BRONZE 2 SCREW CABLE ATTACHMENT WITH A FULL THREADED 3/4" X 4" STUD COMPLETE WITH BRASS WASHER AND NUT. FITS ALL CABLES THROUGH NO. 506.

NO. A564-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.



NO. 441B-A HEAVY DUTY BRONZE 2 SCREW MASONRY ATTACHMENT WITH 3/4" ANCHOR FOR CABLES THROUGH NO. 506.

NO. A441-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

NO. 643-AS ABOVE BUT LARGER WITH 1/2" ANCHOR FOR NO. 507 CABLE.

NO. A643-AS ABOVE IN ALUMINUM FOR NO. A507 CABLE.



NO. 589-A ALL COPPER PAN TYPE CABLE SUPPORT FOR FLAT ROOFS. PAN IS FILLED WITH CEMENT ON THE JOB AND INVERTED AFTER THE CEMENT SETS. THE WEIGHT OF THIS UNIT HOLDS THE ATTACHMENT IN PLACE. CABLE SUPPORT ACCEPTS ALL CONDUCTORS THROUGH NO. 506.

NO. A589-AS ABOVE IN ALUMINUM FOR CABLES THROUGH NO. A37.

FASTENERS AND HARDWARE

ROUND HEAD MACHINE SCREWS 	NO. 203XS-1/4" X 1/2" NO. 204XS-1/4" X 3/4" NO. 205XS-1/4" X 1" NO. 206XS-1/4" X 1 1/2" NO. 210S-5/16" X 3/4" NO. 210S-5/16" X 1" NO. 210S-12-5/16" X 1 1/2"
CAP SCREWS 	NO. 716S-1/4" X 1/2" NO. 716S-5/16" X 3/4" NO. 716S-5/16" X 1" NO. 716S-12-5/16" X 1 1/2" NO. 717S-5/16" X 1" NO. 717S-12-5/16" X 1 1/2" NO. 717S-16-5/16" X 2" NO. 717S-24-5/16" X 3" NO. 718S-4-3/8" X 1/2" NO. 718S-5-3/8" X 3/4" NO. 718S-6-3/8" X 3/4" NO. 718S-3/4" X 1" NO. 718S-12-3/8" X 1 1/2" NO. 718S-16-3/8" X 2" NO. 718S-24-3/8" X 3" NO. 729S-1/2" X 1/2" NO. 729S-6-1/2" X 3/4" NO. 729S-8-1/2" X 1" NO. 729S-12-1/2" X 1 1/2" NO. 729S-16-1/2" X 2" NO. 729S-24-1/2" X 3"
WASHERS 	NO. 723S-1/4" I.D. X 1 1/8" O.D. NO. 724S-5/16" I.D. X 3/4" O.D. NO. 725S-3/8" I.D. X 7/8" O.D. NO. 726S-1/2" I.D. X 1 1/4" O.D. NO. 726-5S-3/4" I.D. X 1 1/2" O.D.
HEX NUTS 	NO. 719S-1/4" FULL NO. 720S-5/16" FULL NO. 721S-3/8" FULL NO. 721S-J-3/8" JAM NO. 722S-1/2" FULL NO. 722S-J-1/2" JAM NO. 722S-5-5/8" FULL NO. 722S-5J-5/8" JAM
ALL THE ABOVE HARDWARE IS SHOWN IN STAINLESS STEEL WHICH IS PREFERRED FOR STRENGTH AND CORROSION RESISTANCE. OTHER MATERIALS INCLUDING BRASS AND SILICON BRONZE ARE AVAILABLE ON A SPECIAL ORDER BASIS.	



PAK-TITE ANCHORS
NO. 208-1/4" BOLT SIZE
NO. 209-5/16" BOLT SIZE
NO. 480-3/8" BOLT SIZE
NO. 481-1/2" BOLT SIZE

LOCK WASHERS - "SPLIT-RING" TYPE

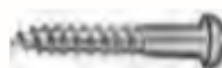


STAINLESS STEEL

NO. 270-FOR 1/4" BOLTS
NO. 271-FOR 5/16" BOLTS
NO. 272-FOR 3/8" BOLTS
NO. 273-FOR 1/2" BOLTS
NO. 274-FOR 5/8" BOLTS



NO. 212D-A SELF DRILLING ANCHOR FOR "DRY-VIT" E.F.L.S. WALLS AND PARAPETS. USE NO. 6 SCREW TO SECURE LOOPS AND BASES, ETC.



WOOD SCREWS

NO. 201-NO. 8 X 1 1/2" BRASS.
NO. 201S-NO. 8 X 1 1/2" STAINLESS STEEL.

NO. 715-NO. 12 X 1 1/2" BRASS.

NO. 715S-NO. 12 X 1 1/2" STAINLESS STEEL.

NOTE: OTHER SIZES AVAILABLE UPON REQUEST. CONTACT FACTORY.

NOTE: SEE WOOD SCREWS WITH HEXHEADS BOTTOM RIGHT.

"NAIL-IN" ANCHORS

NO. 208N-A STAINLESS STEEL MASONRY ANCHOR WHICH REQUIRES ONLY A 1/4" DRILLED HOLE. FOR USE WITH BASES AND CLIPS NORMALLY MOUNTED WITH 3/4" DIAMETER FASTENERS.

NO. 208NM-SAME STYLE AS ABOVE BUT 3/16".



NAILS

NO. 191-6 PENNY-2" LONG COPPER CLAD STEEL NAIL.

NO. A191-AS ABOVE BUT ALUMINUM CLAD.

NO. 191S-AS ABOVE BUT STAINLESS STEEL.

NO. 192-8 PENNY-2 1/2" LONG COPPER CLAD STEEL NAIL.

NO. A192-AS ABOVE BUT ALUMINUM CLAD.

NO. 192S-AS ABOVE BUT STAINLESS STEEL.



STAINLESS STEEL SHEET METAL SCREWS

NO. 207-NO. 12 X 3/4"
NO. 207-6-NO. 12 X 3/4"
NO. 207M-5-NO. 10 X 5/8"
NO. 207M-6-NO. 10 X 3/4"
NO. 207M-8-NO. 10 X 1"
NO. 207M-12-NO. 10 X 1 1/2"



NO. 207TS-A SELF DRILLING, SELF TAPPING STAINLESS STEEL SCREW. NO. 10 X 3/4".

NO. 207TS-5-AS ABOVE BUT NO. 10 X 3/4".

NO. 207TS-8-AS ABOVE BUT NO. 10 X 1".

NO. 207TMS-6-AS ABOVE BUT NO. 14 X 3/4".

NO. 207TMS-8-AS ABOVE BUT NO. 14 X 1".

NO. 207SG-8-#9 X 1" WOOD SCREW WITH HEXHEAD AND WASHER.

NO. 207SG-10-AS ABOVE BUT 1 1/4" LONG.

NO. 207SG-12-AS ABOVE BUT 1 1/2" LONG.

BASES Y ACCESORIOS

BASE CIRCULAR



ME 0190

Base T/Aéreo Br Cr Circular
P/Tornillos FyS

BASE OVALADO



ME 0191

Base T/ Aéreo Br Cr Ovalado
P/Pegar FyS

BASE PARA PARED



ME 0195

Base T/Aéreo Br Cr Cuadrado
P/Pared FyS

UNIÓN TUBULAR



ME 1974

Unión Tubular
Bimetálico 4" 1/2

GRAPA DE FIJACIÓN FYS



ME 1020

Grapa de Fijación
de Cu FyS

CLAVO DE EXPANSIÓN



ME 0761

Clavo de
expansión 2"

MÉTODO DE LA ESFERA RODANTE

