

# CABLE



## #31DS

### 27 Strand

.046" diameter  
spiral centre strip  
63,800 circular mils  
Approximate weight per 1000 feet - 198 pounds  
Available in 500 foot reels.  
This good-looking smooth surface cable with a spiral ribbon core. This cable exceeds all requirements for structures up to 60 ft. \*



## #32DS

### 31 Strand

.046" diameter  
spiral centre strip  
80,000 circular mils  
Approximate weight per 1000 feet - 250 pounds.  
Available in 500 foot reels.  
Jumbo Brand. Similar to #31DS except of weight suitable for structures over 60 feet. \*



## #33DS

### 30 Strand

.057" diameter + 1 trailers  
spiral centre strip  
120,000 circular mils  
Approximate weight per 1000 feet - 375 pounds  
Available in 500 foot reels.  
Heavy6 oz. per foot. A 30 strand cable for smoke stack and other special applications. \*

\* - Denotes normally stocked items



## CABLE



**#32S - Smooth Twist Copper Cable.** 32 strands of 17 gauge cable, 15/32" diameter, 65,600 circular mils, weight is 215 pounds per 1000 feet, No. 2 size. - Available in 250 foot and 500 foot reels.

**#32L - Smooth Twist Copper Cable** - Same as above but cable is tin coated, weight is 260 pounds per 1000 feet, No. 2 size. - 500 foot reels. \*



**#G1 - Rope Lay Copper Cable.** 24 strands of 14 gauge cable 1/2" diameter, 98,600 circular mils, weight is 325 pounds per 1000 feet, No. 1 size. - 500 foot reels.



**#36S - Smooth Twist Copper Cable.** 36 strands of 17 gauge cable, 1/2" diameter, 74,000 circular mils, weight is 245 pounds per 1000 feet. - 500 foot reels.



**#28S - Smooth Twist Copper Cable.** No. 3 size. 28 strand 17 gauge cable. Diameter 7/16". 57,400 circular mils. Net weight per 1,000 feet - 190 lbs. Exceeds Underwriters' Laboratories minimum requirements. Conductor is for use on Class I installations.



**#F31 - Flat Braided Cable.** 32 strands of 17 gauge cable, 1" wide x 1/8" thick, weight is 205 lbs. per 1000 feet. 500 foot reels.

Any of the above cable can be supplied as tin coated.

\* - Denotes normally stocked items



## CABLE



**#40 - Rope Lay Copper Cable.** 28 strands of .066 diameter cable, 1/2" diameter, 122,000 circular mils, weight is 375 pounds per 1000 feet, No. 1/0 size. Available in 250 foot and 500 foot reels.

**#40L - Rope Lay Copper Cable.** As above description, but cable is tin coated. Weight is 407 pounds per 1000 feet, No. 1/0 size. 500 foot reels.



**#G3 - Rope Lay Copper Cable.** 28 strands of .0865 diameter cable, 5/8" diameter, 211,600 circular mils, weight is 662 pounds per 1000 feet, No. 4/0 size. Standard spool length 250 feet.



**#21 - Rope Lay Copper Cable.** 30 strands of .066 diameter cable, 1/2" diameter, 133,500 circular mils, weight is 416 pounds per 1000 feet, No. 2/0 size. Standard spool length is 250 feet.

Any of the above cable can be supplied as tin coated.

\* - Denotes normally stocked items



## CABLE



**#A28 - Smooth Twist Aluminum Cable.** 28 strands of 14 gauge cable, 5/8" diameter, 115,080 circular mils, weight is 130 pounds per 1000 feet, No. 1/0 size.  
500 foot reels - \*



**#A30 - Peerless Heavy Duty Aluminum Cable.** 37 strands of .0756 diameter cable, 211,600 circular mils, weight is 200 pounds for 1000 feet, No. 4/0 size.  
500 foot reels - \*.

\* - Denotes normally stocked items





## CONNECTING AND BONDING CABLES



**#22 - Copper Connecting Cable.** 14 strands of 17 gauge cable, 1/4" diameter, 28,500 circular mils, weight is 90 pounds per 1000 feet, No. 6 size.  
Spool size - 500 feet.



**#A22 - Aluminum Connecting Cable.** 10 strands of 14 gauge cable, 5/16" diameter, 43,000 circular mils, weight is 39 pounds per 1000 feet, No. 4 size.  
Spool size - 500 feet.



**#45T - Flexible Copper Bonding Cable** - 480 strands of 30 gauge copper tinned, 3/4" wide x 1/8" thick, 48,000 circular mils, weight is 160 pounds per 1000 feet. \*

**#A45 - Flexible Aluminum Bonding Cable.** Same as #45T above except in aluminum, weight is 50 lbs. per 1000 feet. Standard spool size for A45 is 250 feet.



**#184TDS Flexible Tinned Copper Bonding Connector.** 480 strands of 30 gauge tinned copper, 3/4" wide x 1/8" thick, 48,000 circular mils. Standard #184 strap is 3/4" wide by 11" overall length of 10" from centre hole to centre hole. Bolt holes will accept up to 3/8" diameter bolt. Connector is used for bonding metal doors to door frames. Other lengths available upon request. For more detailed picture of cable portion, see #45 above. Weight is .16 pounds each.

**#A184 - Flexible aluminum Bonding Connector.** Same as #184T above except in aluminum. Weight is .06 pounds each.

\* - Denotes normally stocked items





**#48A - Plain Soft Copper Bonding Strip.** 5/8" wide x 16 B & S gauge, round edge, 41,740 circular mils, weight is 128 lbs. per 1000 feet. \* - Available in 50 foot coils.

**#A48 - Soft Aluminum Bonding Strip.** 5/8" wide x 14 B & S gauge. 41,740 circular mils, weight is 48 pounds per 1000 feet. \* - Available in 50 foot coils.

**#48B - Soft Copper Bonding Strip.** Same as #48A above except strip is tinned, weight is 120 pounds per 1000 feet. - Available in 50 foot coils.



**#49 - Plain Soft Copper Bonding Strip.** 1" wide x 16 B & S gauge, rounded edge, 59,000 circular mils, weight is 193 lbs. per 1000 feet. \* - Available in 100 foot coils.

**#A49 - Soft Aluminum Bonding Strip.** 1" x 14 B & S gauge, round edge, 59,000 circular mils, weight is 73 lb. per 1000 feet. \* - Available in 50 foot coils.

**#49X - Soft Copper Bonding Strip.** Same as #49 above except strip is tinned, weight is 200 pounds per 1000 feet. \* - Available in 50 foot coils.



**#49Y Wide Soft Copper Bonding Strap.** 1-3/4" wide x 14 B & S gauge, rounded edge and tin coated for bonding to pipe. Weight is .44 lb. per foot. - Available in 50 foot coils.



**#789 Plain Copper Bonding Wire.** Wire is plain and soft drawn. Diameter is .167, 26,250 circular mils. Wire is furnished in custom lengths as required. Weight is 80 pounds per 1000 feet.

**#789X - Copper Bonding Wire, Tinned.** Same as #789 above except wire is tinned, weight is 90 pounds per 1000 feet.

\* - Denotes normally stocked items





# SOLID COPPER AIR TERMINALS

## Solid Copper 3/8" Diameter Air Terminals

Length	Plain Copper	Blunt Tip	Weight
12"	330	330-BT	.52
18"	330-A	330-ABT	.60
24"	330-B	330-BBT	.80
36"	330-C	330-CBT	1.26
48"	330-D	330-DBT	1.68
60"	330-E	330-EBT	2.10
72"	330-F	330-FBT	2.52

## Solid Copper 1/2" Diameter Air Terminals

Length	Plain Copper	Blunt Tip	Weight
12"	331-12*	331-12BT	.62
16"	331-16*	331-16BT	.92
18"	331-18*	331-18BT	1.00
24"	331-24*	331-24BT	1.38
36"	331-36*	331-36BT	2.14
48"	331-48	331-48BT	2.88
60"	331-60	331-60BT	3.66
72"	331-72	331-72BT	4.44

## Solid Copper 5/8" Diameter Air Terminals

Length	Plain Copper	Blunt Tip	Weight
12"	332-12*	332-12BT	.90
16"	332-16*	332-16BT	1.30
18"	332-18*	332-18BT	1.46
24"	332-24*	332-24BT	2.08
36"	332-36*	332-36BT	3.24
48"	332-48	332-48BT	4.44
60"	332-60	332-60BT	5.40
72"	332-72	332-72BT	6.48

**NOTE:**

Air terminals on this page are furnished plain, no tin plating as our standard product.

\* - Denotes normally stocked items





**Solid Aluminum 1/2" Diameter Air Terminals**



Length	Plain Aluminum	Blunt Tip	Weight
12"	A331-12*	A331-12BT	.20
16"	A331-16*	A331-16BT	.27
18"	A331-18*	A331-18BT	.30
24"	A331-24*	A331-24BT	.42
36"	A331-36*	A331-36BT	.66
48"	A331-48*	A331-48BT	.88

**Solid Aluminum 5/8" Diameter Air Terminals**

Length	Plain Aluminum	Blunt Tip	Weight
12"	A332-12*	A332-12BT	.28
16"	A332-16*	A332-16BT	.38
18"	A332-18*	A332-18BT	.46
24"	A332-24*	A332-24BT	.60
36"	A332-36*	A332-36BT	.93
48"	A332-48	A332-48BT	1.34
60"	A332-60	A332-60BT	1.56
72"	A332-72	A332-72BT	1.87

\* - Denotes normally stocked items







## AIR TERMINAL ADAPTERS



**#63B** - Bronze 3/8" ID Top to 5/8" ID Bottom. Wt . .18 lbs. ea.  
**#63C** - Bronze 1/2" ID Top to 5/8" ID Bottom. Wt . .16 lbs. ea. \*  
**#A63C** - Aluminum 1/2" ID Top to 5/8" ID Bottom. Wt . .04 lbs. ea. \*



**#63W** - Bronze 5/8" ID Top and Bottom. Wt . .06 lbs. ea. \*  
**#A63W** - Aluminum 5/8" ID Top and Bottom. Wt. .06 lbs. ea. \*



**#63X** - Bronze 1/2" ID Top and Bottom. Wt. .12 lb.  
**#A63X** - Aluminum 1/2" ID Top and Bottom. Wt. .04 lb. ea.



**#63Y** - Bronze 3/8" ID and 5/8" OD Top to 3/8" ID Bottom. Wt. .14 lb. ea.  
**#63Z** - Bronze 5/8" OD To to 1/2" ID Bottom. Wt. .14 lb. ea.  
**#A63Z** - Aluminum 5/8" OD Top to 1/2" ID Bottom. Wt. .04 lb. ea.



**#63A** -Bronze Adjustable Adaptor 5/8" OD and 3/8" ID Top to 5/8" ID Bottom. Wt . .40 lb. ea. \*

**#A63A** -Aluminum Adjustable Adapter 5/8" OD Top to 5/8" ID Bottom. Wt. .12 lb. ea.

**#63D** -Bronze Adjustable Adaptor 1/2" ID top to 5/8" ID Bottom. Wt. .40 lbs. ea. \*

**#A63D** - Aluminum Adjustable Adaptor 1/2" ID Top to 5/8" ID Bottom. Wt. .12 lbs. ea. \*

**#63D1/2** - Bronze Adjustable Adaptor 1/2" ID Top to 1/2" ID Bottom. Wt. 44 lb. ea.

**#A63D1/2** - Aluminum Adjustable Adaptor 1/2" ID Top to 1/2" ID Bottom. Wt. .12 lb. ea.



NOTE: For the 1/2" OD bottom, you may need to order 335T threaded stud, found on the following page.

\* - Denotes normally stocked items





## AIR TERMINAL TUBE POINTS

- Tube points are 5/8" OD and available in copper and aluminum.
- Tube points are shipped plain as our standard product.
- Full Tin Plating is available for copper tube points up to 48" in length. Add TP to part number.
- Special lengths available upon request.
- If point bushing or couplers are required, these items are to be ordered separately.



Length	Copper	Weight	In-Stock Item	Aluminum	Wt	In-Stock Item
12"	101-12*	.22	*	A101-12*	.10	
16"	101-16*	.30	*	A101-16*	.12	
18"	101-18*	.34	*	A101-18*	.14	
24"	101-24*	.46	*	A101-24*	.14	
30"	101-30	.58		A101-30	.26	
36"	101-36	.68		A101.36	.30	
48"	101-48	.92		A101-48	.42	
54"	101-54	1.03		A101.54	.48	
60"	101-60	1.14		A101.60	.50	



**#35 - Tube and Cable Coupler** made of pressed copper. Wt. .12 lb. ea. \*

**#A35 - Tube and Cable Coupler** made of pressed aluminum. Wt. .04 lb. ea. \*



**#63 - Point Bushing-Shank 5/8"** fits inside 5/8" tube points and thread fits all 5/8" screw shank saddles. Made of copper. Wt. .14 lb. ea. \*

**#A63 - Point Bushing-Shank 5/8"** made of aluminum. Wt. .04 lb. ea. \*



**#65WDS - Brass Adapter for #65DS EZ-Fit Saddle Base** fits inside 5/8" tube points. Wt. .25 lb. ea. \*

\* - Denotes normally stocked items





## AIR TERMINAL SAFETY ITEMS



**#312 - Heavy Duty Bronze Spring Point** 18" in length, nickel plated point with hex base adaptor with 5/8" inside thread. Stainless steel spring point allows point to bend to 90 degree angle, parallel to roof or coping with less than five lbs. of pressure. Wt. 1.28 lb. ea. \*

**#A312 - Heavy Duty Aluminum Spring Point.** Same as above except in aluminum. Wt. .60 lb. ea.



**#170PP - Point Tip Protector**, 1-1/8" diameter made of neoprene to fit over sharp point of all air terminals allowing the point tip to protrude approximately 1/16" and provides safety to avoid puncture wound should someone inadvertently fall on the air terminal mounted on flat roof or other accessible area. Hole in neoprene ball sized to fit all air terminals. Use silicone or construction adhesive to prevent removal of point tip protector. Wt. .03 lb. ea.

\* - Denotes normally stocked items



## FLAT MOUNTED BASES



**#60 - Bronze Flat Surface Point Base** with 3/8" inside and 5/8" outside threads with clamp type cable fastener. Wt. .64 lb. ea. \*

**#A60 - Aluminum Base** with 5/8" outside threads only. Wt. .22 lb. ea. \*



**#60A - Bronze Flat Surface Point Base** with 5/8" outside and 3/8" inside threads with 5/16" lead anchor and screw. The base requires only one anchor for fastening. Wt. .68 lb. ea.

**#A60A - Same as above** only in aluminum. Wt. .28 lb. ea.



**#60B - Bronze Flat Surface Point Base** with 1/2" inside thread with clamp type fastener. Wt. .64 lb. ea. \*

**#A60B - Same as above** only in aluminum. Wt. .22 lb. ea. \*



**#60SS - Bronze Base for Standing Seam Metal Roof.** Cable can be run parallel or perpendicular to seam. No penetration of roofing seam required. 5/8" outside and 3/8" inside threads. Wt. .93 lb. ea.

**#A60SS - Same as above** only in aluminum. Wt. .28 lb. ea.



**#60X - Bronze No-Nail Point Base** with 3/8" inside and 5/8" outside threads with clamp type cable fastener. Wt. .96 lb. ea. \*

**#A60X - Aluminum** with 5/8" outside threads. Wt. .28 lb. ea.

**#60XB - Same as above** with 1/2" inside threads. Wt. .86 lb. ea.

**#A60XB - Aluminum** with 1/2" inside threads. Wt. .25 lbs. ea.

\* - Denotes normally stocked items





## FLAT MOUNTED BASES



**#179 - Bronze Flat Metal Point Connector** with 8 sq. inches of bonding surface. Has 3/8" inside and 5/8" outside threads. Wt. .42 lb. ea.

**#A179 - Aluminum** with 5/8" outside thread. Wt. .14 lb. ea.

**#179A - Bronze Flat Metal Point Connector**, same as above only with 1/2" inside thread. Wt. .40 lb. ea.

**#A179A - Aluminum** with 1/2" inside thread. Wt. .12 lb. ea.



**#181 - Bronze Railing Bracket** with 5/8" outside and 3/8" inside threads with clamp style cable fastener. Fits up to 1-3/4" O.D. railing. Available with 3/8" inside thread upon request. Wt. .74 lb. ea. \*

**#A181 - Aluminum** with 5/8" outside thread. Wt. .28 lb. ea.

**#181A - Same as above** with 1/2" inside thread. Wt. .74 lb. ea.\*

**#A181A - Aluminum** with 1/2" inside thread. Wt. .28 lb. ea.



**#230 Bronze Gravel Stop Point Base** with 3/8" inside and 5/8" outside threads for fastening to gravel stop at roof edge. Wt. .02 lb. ea.

**#A230 - Aluminum** with 5/8" outside threads. Wt. .28 lb. ea.



**#231 - Bronze Gravel Stop Cable Clamp** used for fastening to gravel stop at edge of roof. Wt. .16 lb. ea.

**#A231 - Aluminum Gravel Stop Cable Clamp.** Wt. .06 lb. ea.

\* - Denotes normally stocked items





## VERTICAL MOUNTED BASES



**#67B - Bronze Vertical Flat Surface Point Support** with 1/2" inside thread and clamp style cable fastener. Wt. .78 lb. ea. \*

**#A67B - Aluminum** with 1/2" inside thread. Wt. .26 lb. ea. \*

**#67C - Same as above** with 3/8" inside thread. Wt. .60 lb. \*.

**#67X - Same as above** with 5/8" outside thread. Wt. .84 lb.\*

**#A67X - Aluminum** with 5/8" outside thread. Wt. .24 lb..\*



**#C90X - Bronze Point Base** with 3/8" inside thread. Has clamp type cable fastener. Wt. .46 lb. ea.

**#AC90X - Aluminum** with 1/2" inside thread. Wt. .16 lb. ea.

**#C90Y - Same as above** with 1/2" inside thread. Wt. .50 lb. ea. \*



**#178 - Bronze Vertical Metal Point Connector** with 1/2" inside thread 4 sq. inches of bonding surface for attaching point to side of metal angles, channel, canopy over swimming pool, boat, etc. Wt. .30 lb. ea.

**#A178 - Same as above** only in aluminum. Wt. .10 lb. ea.



**#260 - Bronze Heavy Duty Straight Connector** with 1/2" inside thread and two set screw cable clamp. (May be furnished with 5/8" inside thread when specified.) Wt. .54 lb. ea. \*

**#A260 - Same as above** only in aluminum. Wt. .20 lb. ea.

\* - Denotes normally stocked items



## VERTICAL MOUNTED BASES



**#261 - Bronze Heavy Duty "T": Connector** with 1/2" inside thread and 4-screw clamp type cable connector. 5/8" inside thread available upon request. Wt. .82 lb. ea.

**#A261 - Aluminum** with 1/2" inside thread. Wt. .28 lb. ea.



**#271 - Bronze Vertical Mount 3/8" Rod and Finger Type Cable Fastener** with set screw. For notched rod. Wt. .22 lb. ea.

**#271A - Same as above**, for threaded rod. Wt. .22 lb. ea.



**#273 - Bronze Off-set Point Support** with 1/2" inside thread. Wt. .76 lb. ea.\*

**#A273 - Aluminum** with 1/2" inside thread. Wt. .25 lb. ea.

**#274 - Same as above** with 3/8" inside and 5/8" outside threads. Wt. .76 lb. ea. \*

**#A274 - Aluminum** with 5/8" outside thread. Wt. .24 lb. ea. \*

*Off-set bases are off-set approximately 2". Clamp type cable fasteners may be used for either horizontal or vertical cables.*

\* - Denotes normally stocked items



## SIDE BY SIDE CONNECTORS AND SPLICERS



**#25G - Bronze Small 1" All Purpose Connector** with bolt, nut and washer for connecting two cables through 2/0. Adjusts to various size cables. Wt. .28 lb. ea.

**#A25G - Aluminum Small 1" All Purpose Connector.** Wt. .14 lb. ea.



**#G27 - Bronze Large 4" All Purpose Connector** with two stainless steel 3/8" bolts, nuts and washers and used for connecting two cables or rods through 2/0 or 5/8" dia. Wt. .86 lb. ea. \*

**#AG27 - Aluminum Large 4" All Purpose Connector.** Wt. .34 lb. ea. \*

**#G28 - Bronze 2" All Purpose Connector** with two stainless steel 3/8" bolts, nuts and washers and used for connecting two cables or rods through 2/0 to 5/8" dia. Wt. .54 lbs. ea.\*

**#AG28 - Aluminum 2" All Purpose Connector.** Wt. .28 lb. ea.\*



**#193A - Cast Copper Bronze Double Splicer** for standard cables. 2" long. Wt. .16 lb. ea.

**#A193A - Aluminum Double Splicer for Standard Cable.** Wt. .06 lb. ea.

**#193X - Cast Copper Bronze Double Splicer** for standard and miniature cables. 2" long. Wt. .08 lb. ea.

**#A193X - Aluminum Double splicer for Standard and Miniature Cables.** Wt. .06 lb. ea.



**#193S - Copper Pressed Double Splicer.** Splicer is 2" in length and is for two standard cables or one miniature and one standard cable. Wt. .12 lb. ea.

**#A193S- Aluminum Pressed Double Splicer.** Wt. .06 lb. ea.

\* - Denotes normally stocked items







## SIDE BY SIDE CONNECTORS AND SPLICERS



**#296 - Bronze Large Heavy Duty all Purpose Connector**, with two 3/8" stainless steel bolts, nuts and washers for connecting two cables or rods through 250m circular mills or 3/4" diameter. Wt. .80 lbs. ea.

**#A296 - Aluminum Large heavy Duty All Purpose Clamp.** Wt. .38 lb. ea.



**#297 - Bronze Small Many Purpose Clamp** for connecting No. 4 or No. 6 wires or cables to round guy wires, floor mesh, metallic braces, etc. Wt. .16 lbs. ea. \*

**#A297 - Aluminum Small Many Purpose Clamp.** Wt. .08 lb. ea.



**#297A - Bronze Large Many Purpose Clamp** heavy duty, for clamping two standard cables through 2/0 and/or 1/2" and 5/8" rods. 2" long. Wt. .38 lb. ea.\*

**#A297A - Aluminum Large Many Purpose Clamp.** Wt. .14 lb. ea. \*

\* - Denotes normally stocked items





**#G88 - Bronze Extra Heavy Duty Large Bonding Plate**, 6" x 4-1/2" x 3/8" thick. For standard cables through 2/0. For use when an extra heavy duty large bonding plate is required. 27 sq. inches of bonding surface. Wt. 1.24 lb. ea.

**#AG88 - Same as above only in aluminum.** Wt. .40 lb. ea.

**#G89 - Bronze Heavy Duty Large Bonding Plate**, similar to above, 4" x 4" x 3/16" thick with 16 square inches of bonding surface. Wt. 1.20 lb. ea.

**#AG89 - Same as above only in aluminum.** Wt. .40 lb. ea.



**#G95 - Bronze Large Heavy Duty Cross Run Connector** with hex-head screws. Measures 4" x 4" and used for bonding standard cables through 2/0 to 1/2", 5/8", or 3/4" dia. ground rods at right angles. When ordering, please specify size of ground rod and cable. Wt. 1.22 lb. ea.

**#AG95 - Same as above only in aluminum.** Wt. .40 lb. ea.



**#119 - Bronze Cross Run Clamp** for cross connecting standard cables up to 1/2" diameter. Wt. .40 lb. ea. \*

**#A119 - Same as above only in aluminum.** Wt. .14 lb. ea. \*

**#119A - Bronze Cross Run Clamp.** For use with cables or ground rods up to 5/8" diameter. Wt. .46 lb. ea.

**#A119A - Same as above only in aluminum.** Wt. .16 lb. ea.

\* - Denotes normally stocked items





**#238 - Bronze Heavy Duty Bonding Plate** with 8 sq. inches of bonding surface. Fits up to 3/4" diameter bolt, for standard cables through 2/0. Wt. .78 lb. ea.

**#A238 - Same as above only in aluminum.** Wt. .26 lb. ea.



**#238B - Bronze Heavy Duty 2 Screw metal Bonding Plate** with clamp type cable fastener for all standard cables through 2/0. Affords 8 sq. inches of bonding surface. Wt. .66 lb. ea. \*

**#A238B - Same as above only in aluminum.** Wt. .22 lb. ea. \*



**#298 - Bronze Small Cable and Flat Iron Clamp** for connecting No. 4 and No. 6 wire or cables to flat metal tracks, supports, flashings, etc. Wt. .18 lb. ea. \*

**#A298 - Same as above only in aluminum.** Wt. .08 lb. ea. \*



**#298A - Bronze Large Cable and Flat Iron Clamp** for connecting standard cable through 2/0 to angle iron, I Beams and flat iron strips. Also services as cable holder on I beams. Wt. .40 lb. ea. \*

**#A298A - Same as above only in aluminum.** Wt. .16 lb. ea. \*

\* - Denotes normally stocked items





## WATER PIPE CLAMPS

Water pipe clamps are easy to install. Caps have slotted holes so it is not necessary to remove screws. When tightened, the clamp grips both the cable and pipe. Bronze clamps are manufactured of special copper and are tinned to prevent corrosion. Clamps are very sturdy and durable.



**#306 - Bronze Perfection Pipe Clamp.** Clamp type cable fastener, fits all standard cables through 2/0 and provides 1-1/2" contact with water pipes, rods, television masts, etc. Fits 1/2", 3/4" and 1" iron water pipes and 1/4", 1/2", 5/8", 3/4" and 1" copper water pipes. Wt. .48 lb. ea. \*

**#A306 - Aluminum Perfection Pipe Clamp.** Wt. .18 lb. ea.

**#306X - Bronze medium Perfection Pipe Clamp.** Similar to above clamp. Fits 1-1/4" and 1-1/2" iron water pipes. (Max 2" O.D.). Wt. .82 lb. ea. \*

**#A306X - Aluminum Medium Perfection Pipe Clamp.** Wt. .26 lb. ea.



**#306A - Bronze Large Perfection Pipe Clamp** with clamp type cable fastener that swivels 360 degrees. Fits 1-1/2" and 2" iron water pipes. (Max. 2-1/2" O.D.). Lower casting may be inverted to fit smaller diameter pipes and rods. Tinned to prevent corrosion. Wt. 1.04 lb. ea.

**#A306A - Bi-Metallic Large Perfection Pipe Clamp.** Wt. .80 lb. ea.



**#306B - Bronze Extra Large Perfection Pipe Clamp** with clamp type cable fastener that swivels 360 degrees. Fits from 2-1/2" to 4" iron water pipes. (Max. 4" O.D.). Tinned to prevent corrosion. Wt. 1.48 lb. ea.

**#A306B - Bi-Metallic Extra Large Perfection Pipe Clamp.** Wt. 1.30 lb. ea.

\* - Denotes normally stocked items





## SHEET METAL CONNECTORS



**#120 - Bronze Bonding Connector** for sheet metal and other applications. Furnished as tinned and for use with standard No. 2. cable. Wt. .22 lb. ea. \*

**#A120 - Aluminum Bonding Connector.** Same as above except part is not tinned. Wt. .10 lb. ea.



**#219 - Bronze Metal Connector** for standard No. 2 cable. Wt. .18 lb. ea. \*

**#A219 - Aluminum Metal Connector.** Wt. .06 lb. ea. \*

\* - Denotes normally stocked items



## BUS TERMINALS



**#G67 - Bronze Heavy Duty Bus Terminal** for connecting standard cables through 2/0 to flat metal surfaces. Wt. .28 lb. ea.

**#AG67 - Aluminum Heavy duty Bus Terminal.** Wt. .12 lb. ea.

**#G68 - Bronze Small Bus Terminal** for connecting No. 4 or No. 6 cable to small bodies of metal. Wt. .14 lb. ea.

**#AG68 - Aluminum Small Bus Terminal.** Wt. .06 lb. e.



**#347 - Bronze Heavy Duty Bus Terminal** with 6" of surface contact for connecting two cables up to 4/0 size or 5/8" dia. to metal surfaces. Hole diameter are for 1/2" bolts. Cable fastener is two bolt style. Wt. 1.12 lb. ea.

**#A347 - Aluminum Heavy Duty Bus Terminal.** Wt. .46 lb. ea.



**#596 - Bronze Bus Terminal Metal Connector** with clamp type cable fastener for standard cables through 2/0. Fits over 1/2" bolt, for larger size bolt specify when ordering. Clamp has 5 sq. inches of bonding surface. Wt. .54 lb. ea. \*

**#A596 - Aluminum Bus Terminal metal Connector.** Wt. .18 lb. ea.



**#596A - Bronze Extra Heavy Bus Terminal.** 3 sq. inches of surface contact, for connecting 4/0 size cable to columns or larger metal bodies. Specify cable size when ordering. Standard hole size for 1/2" bolt but furnished for larger bolt when specified. Wt. .68 lb. ea.

**#A596A - Aluminum Extra Heavy Bus Terminal.** Wt. .24 lb. ea.

\* - Denotes normally stocked items



## LOOP TYPE CABLE FASTENERS



**#96DS - One Nail Copper Clip** for standard cables through 1/0. Made of 1/2" x 20 gauge strip copper. Wt. .01 lb. ea. \*

**#A83 - One Nail Aluminum Clip**, made of 1/2" x 16 gauge aluminum strip. Wt. .006 lb. ea.



**#121ADS - Copper Loop Fastener** fits standard cables through 2/0. 5/8" wide with hole for 1/4" bolts. Wt. .02 lb. ea. \*

**#A121A DS - Aluminum Loop Fastener.** Wt. .01 lb. ea. \*

**#121C - Copper Loop Fastener**, fits 4/0 and larger cables. 5/8" wide with hole for 1/4" bolts. Wt. .04 lb. ea.

**#A121C - Aluminum Loop Fastener.** Wt. .01 lb. ea.



### One Hole Bronze Fasteners

**#84 - For Standard Cable**, nail hole. Wt. .04 lb. ea.

**#A84 - Aluminum Fastener**, nail hole. Wt. .01 lb. ea.

**#84B - For Standard Cable** has hole for 1/4" bolt. Wt. .04 lb. ea.

**#A84B - Aluminum Fastener**, bolt hole. Wt. .01 lb. ea.

\* - Denotes normally stocked items





## PASTE DOWN CABLE FASTENERS



**#265A - 2" Copper Paste Down Cable Fastener.** Made from stamped copper. Wt. .04 lb. ea.

**#A265A - 2" Aluminum Paste Down Cable Fastener.** Wt. .10 lb. ea.

**#265 - 4" Copper Paste Down Fastener.** Wt. .02 lb. ea. \*

**#A265 - 4" Aluminum Paste Down Fastener.** Wt. .04 lb. ea. \*



**#265P - Poly Plastic Paste Down Cable Fastener** for use only with 32S Cable. Cable holder is 3-1/4" x 2-3/8". Wt. .04 lb. ea.

**#A265P - Poly Plastic Paste Down Cable Fastener** for use with all cables except 32S. Wt. .04 lb. ea.



**#265X - 3" Diameter Pressed Copper Paste Down Cable Fastener** with finger type cable fastener. Wt. .09 lb. ea. \*



**#266 - No Nail Bronze Pan-Type Cable Fastener.** Fastener is filled with roofing stone, chips or concrete and then fastened to roof with adhesive. Overall dia. is 6" and inside dia. of the pan is approximately 5". Wt. .98 lb. ea.

**#A266 - No Nail Aluminum Pan-Type Cable Fastener.** Wt. .30 lb. ea.



**#267 - 3" Diameter Bronze Paste Down Cable Fastener** is cast from copper bronze and has clamp type cable fastener. Wt. .32 lb. ea.

**#A267 - 3" Diameter Aluminum Paste Down Cable Fastener.** Wt. .10 lb. ea.

\* - Denotes normally stocked items







### For Standing Seam Roofs

**#121SS - Copper Loop Type Fastener.** Cable can run either parallel or perpendicular to seam. Fits cable through 2/0 or 1/2" diameter. Will slide over seams up to 3/4" wide. Wt. .18 lb. ea.

**#A121SS - Aluminum Loop Type Fastener.** Wt. .14 lb. ea.



### Tile Fastener

**#58A - Perfect-Fit Copper Cable Bracket** 28" long for use with tile, Asbestos, slate roof and coping. Made of 1" wide pliable copper strip that can be cut to desired length and easily shaped to tile. Has adjustable cable clamp. Wt. .62 lb. ea.

**#A58A - Aluminum Bracket.** Wt. .24 lb. ea.



### For Slate Roofs

**#268 - Copper Slate Roof Cable Connector** for horizontal or vertical cable. Adjustable length, slips under shingle and hooks around nail. Wt. .15 lb. ea.

**#A268 - Aluminum Slate Roof Cable Connector.** Wt. .06 lb. ea.

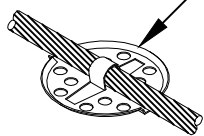


**#8B - Bronze Eave Trough Bonding Connector.** Provides good connection to rolled edge eave troughs. Part is provided as tinned. Wt. .15 lb. ea. \*

**#A8B - Aluminum Eave Trough Bonding Connector.** Part is *not* tinned. Wt. .05 lb. ea. \*

\* - Denotes normally stocked items





No.730: ADHESIVE  
CABLE HOLDER  
@ 3'-0" O/C

	PROJECT:	REVISION	DATE
	JOB NO:	FILE:	
	DR BY:	DATE: 8.24.11	
	CH BY:	SHH	

## GROUND ROD CLAMPS



### Standard Ground Rod Clamp Made of Copper Bronze

**#50 - 1/2" Clamp.** Wt. .24 lb. ea.

**#51 - 5/8" Clamp.** Wt. .30 lb. ea.

**#52 - 3/4" Clamp.** Wt. .28 lb. ea.

Above clamps fit standard cable through 2/0 with corresponding size ground rod as indicated.



### Heavy Duty Ground Rod Clamp Made of Copper Bronze

**#50A - 1/2" Clamp.** Wt. .36 lb. ea.

**#51A - 5/8" Clamp.** Wt. .42 lb. ea. \*

**#52A - 3/4" Clamp.** Wt. .52 lb. ea. \*

Above clamps fit standard cable through 2/0 with corresponding size ground rod as indicated.

### Cross Run Cable and Ground Clamps



**#119 - Bronze Clamp** for connecting 1/2" diameter cable to 1/2" diameter ground rod. Wt. .40 lb. ea. \*

**#A119 - Same as above only in aluminum.** Wt. .14 lb. ea.

**#119A - Bronze Clamp** for connecting 5/8" diameter cable to 5/8" diameter ground rod. Wt. .46 lb. ea.

**#A119A - Aluminum Clamp** for cross-connecting two aluminum cables. Wt. .16 lb. ea.

\* - Denotes normally stocked items



## GROUND FLOOR RECEPTACLES



**#310 - Bronze Floor Ground Receptacle** of heavy duty construction, with clamp type cable fastener for connecting one or two standard cables through 2/0 to ground rod. When ordering, please specify diameter and whether ground rod is threaded or plain. Wt. 2.72 lb. ea.



**#311 - Bronze Floor Ground Receptacle** of heavy duty construction. Receptacle furnished for all size ground rods, 1/2", 5/8" and 3/4" either plain or threaded. When ordering, please specify diameter and whether ground rod is threaded or plain. Wt. 2.22 lb. ea.

\* - Denotes normally stocked items





## GROUND PLATES AND CHARCOAL GROUNDS



**#583 - Copper Charcoal Ground.** 4" dia. x 24" tube filled with charcoal. Wt. 10.72 lb. ea.

**#583X - Perforated Copper Charcoal Ground.** Same as above but has perforated tube. Wt. 7.60 lb. ea.

Additional chemicals such as magnesium sulfate will improve or lower ground resistance even further.



**#584 - Large Length Four Wing Ground Plate.** Each wing is 3-1/2" wide, 18" long. Made of 20 ga. copper. Wt. 3.46 lb. ea.

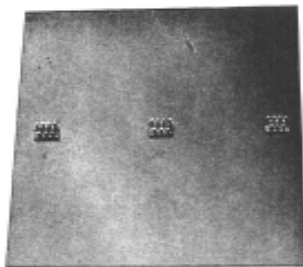


**#585 - Small Length Four Wing Ground Plate.** Each wing is 6" wide, 9" long. Made of 20 ga. copper. Wt. 2.66 lb. ea.



**#586 - Copper Bronze Ground Plate** 12" x 12" x 1/4" thick. Wt. 13.28 lb. ea.

**#586X - Copper Bronze Ground Plate** 12" x 12" x 1/2" thick. Wt. 20.68 lb. ea.



### Copper Sheet Ground Plates

The following ground plates are made of 20 gauge copper sheet stock.

**#587** - 18" x 36". Wt. 6.75 lb. ea.

**#587A** - 36" x 36". Wt. 13.48 lb. ea.

**#588** - 18" x 24". Wt. 4.60 lb. ea.

**#589** - 18" x 18". Wt. 3.125 lb. ea.

\* - Denotes normally stocked items



# GROUNDING



## Ground Rods -- Copperweld

<u>D&amp;S #</u>	<u>SPECS</u>	<u>WT.</u>
137	1/2" X 8'	5.52
137A	1/2" X 9'	6.30
138	1/2" X 10'	6.98
139	5/8" X 8'	6.68
577	5/8" X 10'	8.44
579	3/4" X 10'	12.36



## Ground Rods -- Stainless Steel

<u>D&amp;S #</u>	<u>SPECS</u>	<u>WT.</u>
138L	1/2" X 10'	6.80
577L	5/8" X 10'	10.50
579L	3/4" X 10'	15.30

## Compression Ground Rod Couplers

<u>D&amp;S #</u>	<u>SPECS</u>	<u>WT.</u>
141CC	1/2" Coupler	.32
141XC	5/8" Coupler	.32
141YC	3/4" Coupler	.32



\* - Denotes normally stocked items





## ORNAMENTAL EQUIPMENT

Dodd & Struthers offers a limited amount of decorative or ornamental equipment. The equipment shown is for fitting to 5/8" tube points. Equipment may be combined together to meet specific needs.



**#156 - Glass Tail Aluminum Arrow** for 5/8" tube points. Glass available in the following colours: amber/gold, red, wine/purple, green, cobalt blue. Specify colour when ordering. Wt. .52 lb. ea.

**#156C - Same as above only in copper.** Wt. 1.28 lb. ea.



**#157 - 18" Long Aluminum Arrow** for 5/8" tube point. Wt. .28 lb. ea.

**#157C - Same as above only in copper.** Wt. .76 lb. ea.



**#158 - 23" Long Moon and Stars** for 5/8" tube point. Wt. .42 lb. ea.

**#158C - Same as above only in copper.** Wt. 1.25 lb. ea.



**#159 - Point of Compass Vane.** Made of aluminum painted with red letters for 5/8" tube point. Wt. .62 lb. ea.

**#159C - Same as above only in copper.** Wt. 2.00 lb. ea.

\* - Denotes normally stocked items





**#320 - Satellite Ornament** is manufactured from copper and shipped as natural copper. This ornament is used with the 85 Series government points or the 240W point. See the air terminal section. Wt. .58 lb. ea.

**#A320 - Same as above only in aluminum** and supplied as aluminum finish. Wt. .20 lb. e.

**#321 - Satellite Ornament.** Same as #320 but supplied with bushings for 1/2" air terminals, 331 Series. See the air terminal section. Wt. .58 lb. ea.

**#A321 - Satellite Ornament.** Same as A320 but supplied with bushings for 1/2" O.D. air terminals, A331 Series. See the air terminal section. Wt. .20 lb. ea.



**#320C - Imperial Crown Ornament** made of aluminum with black satin finish paint. Approximate height is 8-1/2". Ornamental top will fit on 5/8" tube points, A100 Series, A240W air terminal or the A85 Series government points. See the air terminal section. Wt. .26 lb. ea.

\* - Denotes normally stocked items







# ORNAMENTAL EQUIPMENT

## Weather Vane Assemblies



We offer two types of weather vanes for your selection and installation. The weather vanes come complete with a saddle base, vane stem, point of compass, a 28" arrow and your choice of ornament. The unit is approximately 32" in height, depending on the ornament selected. We offer the 3-D Deluxe Bodied Ornament and also the 500 Series which is a slightly textured design. Both series are supplied with a black satin paint finish.

All weather vanes are fitted with an exclusive ball bearing design for ease of turning with the slightest breeze. The vanes are manufactured of special aluminum and bronze alloys that are weather resistant and rust proof to offer years of maintenance free service.

### DELUXE BODIED ORNAMENTS

3-D Effect - Used on 500 Series Weather Vane



**No. 1-D Horse**  
12" x 12"



**No. 4-D Sail Boat**  
10" x 14"



**No. 12-D Doctor and Buggy**  
16" x 8"



**No. 14-D Pointer**  
12" x 6"



**No. 26-D Cow**  
12" x 8"



**No. 29-D Duck**  
10" x 10"



**No. 33-D Hog**  
11" x 7"



**No. 34-D Squirrel**  
11" x 10"



**No. 36-D Rooster**  
8" x 11"



**No. 59-D Spinning Wheel**  
11" x 10"



**No. 62-D Lamplighter**  
6" x 11"



**No. 68-D Town Crier**  
5" x 9"

You may also install glass balls or Plastiballs to your weather vane as an additional option. See complete description in this section

\* - Denotes normally stocked items



# ORNAMENTAL EQUIPMENT



## Weather Vane Assemblies 500 Series WeatherVanes

The following ornaments are some of the most commonly sold vanes. Please see description of other available vanes. We can supply pictures of other vanes upon request. Sizes shown are approximate (width x height).



**No. 1-L Horse**  
12" x 11"



**No. 2-L  
Boy Fisherman**  
13" x 10"



**No. 26L Cow**  
14" x 9"



**No. 29-L  
Duck Take-off**  
10" x 11"



**No. 35-L Eagle**  
12" x 11"



**No. 40-L Deer**  
13" x 11"



**No. 42-L Angus  
Bull**  
12" x 10"



**No. 53-L  
Boston Terrier**  
10" x 9"



**No. 59-L: Woman  
at Spinning Wheel**  
12" x 11"



**No. 92-L Bicyclist**  
8" x 9"

### Other Styles Available

3-L Gardener.....	12" x 10"	28-L Covered Wagon.....	16" x 7"	57-L Mink.....	12" x 7"
4-L Sailboat.....	9" x 15"	30-L Tractor.....	12" x 8"	58-L Show Horse and Cart.....	14" x 9"
5-L Horse and Rider.....	12" x 11"	31-L Beef Bull.....	12" x 10"	60-L Old Surry.....	15" x 8"
6-L Jumper.....	13" x 10"	32-L Dairy Bull.....	14" x 9"	61-L Horse and carriage.....	15" x 9"
7-L Horse and Sulky.....	15" x 9"	33-L Hog.....	14" x 8"	62-L Lamp Lighter.....	6" x 12"
8-L Sailing.....	9" x 13"	34-L Squirrel.....	14" x 11"	63-L Dachshund.....	11" x 8"
10-L Cocker Spaniel.....	12" x 9"	36-L Rooster.....	10" x 12"	64-L Collie.....	11" x 9"
11-L Fisherman in Boat.....	13" x 8"	37-L Cat and Kitten.....	12" x 8"	65-L Doberman.....	10" x 10"
12-L Doctor in Buggy.....	15" x 7"	38-L Stork.....	13" x 10"	66-L Running Horse.....	14" x 8"
13-L Bucking Bronco.....	12" x 11"	41-L Ayrshire Cow.....	12" x 10"	67-L French Cock.....	10" x 12"
14-L Pointer.....	14" x 9"	43-L Pheasants.....	15" x 6"	68-L Town Crier and Dog.....	10" x 11"
15-L Terrier.....	10" x 10"	44-L Lamb and Ewe.....	14" x 8"	69-L Walking Horse.....	13" x 11"
16-L Windmill.....	15" x 10"	45-L Turkey.....	9" x 10"	70-L Caterpillar © Tractor.....	9" x 6"
17-L Hunter with Dog.....	12" x 10"	46-L Photographer.....	13" x 9"	71-L Ford © Tractor.....	11" x 8"
18-L Derby Runner.....	14" x 10"	47-L Bee Hive.....	11" x 9"	72-L Parakeet.....	8" x 9"
19-L Swinging Golfer.....	14" x 10"	48-L Fox.....	11" x 10"	73-L Mare and Colt.....	15" x 9"
20-L Scotty.....	11" x 10"	49-L Siesta.....	11" x 9"	74-L Old Style Airplane.....	15" x 6"
21-L Cow and Tree.....	10" x 13"	50-L Apple.....	15" x 9"	75-L Pine Trees.....	14" x 9"
22-L Cow and Calf.....	16" x 8"	51-L Old Fire Wagon.....	16" x 8"	76-L Mockingbird.....	13" x 10"
23-L Pair of Owls.....	14" x 10"	52-L Beagle.....	11" x 10"	77-L Beaver.....	12" x 9"
24-L Old Locomotive.....	18" x 6"	54-L Irish Setter.....	14" x 9"	78-L Hound Dog.....	11" x 10"
25-L Old Auto.....	15" x 7"	55-L Great Dane.....	10" x 9"	79-L Caterpillar © Grader.....	14" x 6"
27-L Flying Geese.....	16" x 9"	56-L Boxes.....	12" x 10"	80-L Beef Cow and Calf.....	13" x 8"

Continued on next page...

\* - Denotes normally stocked items





# ORNAMENTAL EQUIPMENT

## Other Styles Available . . .

81-L Mr. Potato.....10" x 11"	86-L Cockatoo.....16" x 8"	91-L Wolf.....10" x 9"
82-L Press Photographer.....8" x 9"	87-L Saint Bernard.....12" x 10"	92-L Bicyclist.....8" x 9"
83-L Surveyor.....8" x 10"	88-L Pair of Skaters.....8" x 10"	93-L TV Set.....11" x 10"
84-L Jack and Jill.....8" x 10"	89-L Semi-Trailer.....16" x 7"	94-L Cherries.....13" x 9"
85-L Shepherd with Sheep.....11" x 9"	90-L Indian.....8" x 9"	95-L Chinchilla.....11" x 11"

## Full Bodied Animal Vanes

All are made of cast aluminum and painted black. For mounting to 5/8" tube points.



#150 - 23" Horse Vane



#151 - 23" Cow Vane



#152 - 23" Rooster Vane



#153 - 23" Hog Vane



#154 - 23" Sheep Vane

## Tri-Pod Assembly



Older style tri-pod assemblies made of copper are available for older home styles and barns for that distinct look. The assemblies include the tri-pod brace, tube point, cable coupler and glass ball or Plastiball. You may also add decorative arrows as another option. See arrows in this section. Specify "G" for glass ball or "P" for Plastiballs. The tri-pod assemblies are also available in aluminum. Order parts individually.

\* - Denotes normally stocked items





## Other Accessories



**#170A** - 1/2" Copper/Bronze Pinch Type Ball Ring for 1/2" point.  
Wt. .02 lb. ea.

**#A170A** - Aluminum 1/2" Pinch Type Ball ring. Wt. .01 lb. ea.



**#170** - Copper-Bronze Ball Ring with Set Screw for 5/8" solid Copper Point. Used to support a glass ball on the point. Wt. .03 lb. ea.\*

**#A170** - Aluminum Ball Ring with Set Screw. Wt. .02 lb. ea.



**#170W** - Wind Resistant Lock Washer for use with Plastiball on 5/8" point. Made of copper and nickel plated for use with Aluminum or copper tube points. Wt. .01 lb. ea. \*



**#171** - Vane Ferrule. Made of copper and nickel plated for use with copper or aluminum tube points. Wt. .08 lb. ea. \*

We can also offer copper balls that will provide an aesthetic enhancement to your lightning protection system. The balls are round and are supplied buffed and polished. Copper balls are supplied with a ball ring for attaching to 5/8" air terminals shown elsewhere in the catalogue.

**#164C** - 4" diameter

**#166C** - 6" diameter

**#165C** - 5" diameter

**#168C** - 8" diameter

other sizes available upon request.

\* - Denotes normally stocked items





# ORNAMENTAL EQUIPMENT

## Glass Balls

Following are glass balls available for your selection. Our supplier offers **reproduction** balls except for #165 Streamline White, which is from old production. All balls are supplied with aluminum ball caps and are ready for placement on 5/8" OD points.



**No. 161W**  
4-1/2" round White



**No. 161A**  
4-1/2" round Amber



**No. 161G**  
4-1/2" round Green



**No. 161R**  
4-1/2" round Red



**No. 161RG**  
4-1/2" Ribbed Grape  
Cobalt Blue



**#161HK**  
4" Hawkeye  
Cobalt Blue



**#165**  
3-1/2" Streamline  
White



**#161TG**  
4-1/2" Round  
Turquoise  
**See Note Below**

**Notes:** Glass Ball 161TG, 4-1/2" round in turquoise blue original and from old production is only available for 7/8" OD or twisted section rod applications. 161RG and 161HK are new production balls from original dies.

## Plastiballs

Plastiballs are an alternative to the more expensive glass balls. Plastiballs consist of two pieces that snap together and are made of Lucite O (plastic) material. Plastiballs are for placement on 5/8" OD tube points. Sold in complete units only.



**White Plastiball**

- #P160** - White Plastiball \*
- #P161** - Blue Plastiball
- #P164** - Red Plastiball

\* - Denotes normally stocked items

