

# ISLAND LIGHTNING ROD

PROTECTING PEI | NS | NB SINCE 1975

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## LIGHTNING PROTECTION EQUIPMENT CATALOG

Equipment Engineered for Today's Structures  
Commercial - Industrial - Residential



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# Welcome to Our Catalog!

Island Lightning Rod Co Ltd offers a comprehensive product line to cover your lightning protection needs. The catalog brings with it line drawings of our products and detail drawings that simulate the parts in an actual installation. All cables and components in the catalog are listed and approved for use in lightning protection system installations by Underwriters Laboratories and carry the UL approved mark.

**Island Lightning Rod Co. Ltd.** is a fully integrated service provider for the installation and design of lightning protection systems. Since its incorporation in 1975 by Ron Smith, Island Lightning Rod has installed countless lightning protection systems on homes, farm buildings, churches, commercial buildings and industrial sites.

## WHERE WE INSTALL:

Residential Homes	Concert & Venue Sites
Commercial Buildings	Historical Landmarks
Industrial Sites	Emergency & 911 Facilities
Hospitals & Nursing Homes	Schools & Universities
Military Sites	Hotels
Farm Structures	Golf Clubs & Sporting Complexes
Churches & Houses of Worship	

**From start to finish Island Lightning Rod Co. Ltd is your single provider for all your lightning protection requirements.**

## WE PROVIDE:

Design/Specification support	On site project evaluation
Supervision and professional guidance	Auto CAD engineering and design services
Shop drawings	Project engineering and consultation
Repairs and upgrades to existing systems	UL approved materials
Ground resistance testing	Concealed or exterior installations

**ISLAND  LIGHTNING ROD**  
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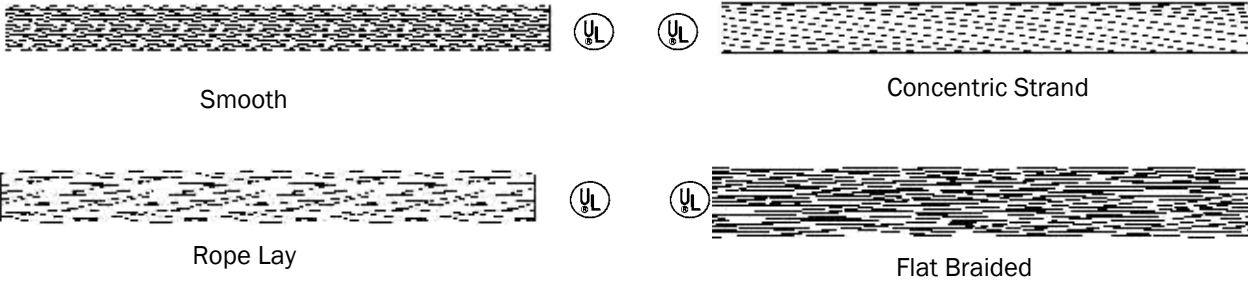
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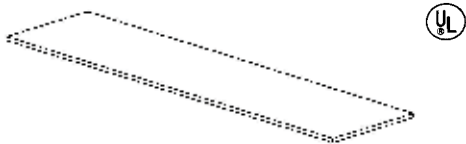
Above drawings are typical for cables below.

Part #	Class	Type Weave	Number Strands	Wire Gauge	Circular Mils	Wt. per 1,000'	Approx. Size	Cable Size	Std. Spool Size
<b>Copper Cable</b>									
28S	1	Smooth	28	17	56,700	190	7/16"	No. 3	500'
32S	1	Smooth	32	17	64,800	215	15/32"	No. 2	250' & 500'
32L	Same description as 32S except cable is tinned.								250' & 500'
F31	1	Flat Braided	32	17	N/A	205	1" X 1/8" wide	N/A	250' & 500'
40	2	Rope Lay	28	14	121,968	375	1/2"	1/0	250' & 500'
40L	Same description as 40 except cable is tinned.								250' & 500'
21	2	Rope Lay	30	14	130,680	416	1/2"	2/0	250'
G3	2	Rope Lay	28	12	209,503	662	5/8"	4/0	250'

<b>Aluminum Cable</b>									
A28	1	Smooth	28	14	118,300	130	5/8"	1/0	250' & 500'
A30	2	Conc. Strand	37	12-1/2	211,468	200	9/16"	4/0	250' & 500'

<b>Copper Secondary Bonding</b>									
22		Smooth	14	17	28,500	90	1/4"	No. 6	250' & 500'

<b>Aluminum Secondary Bonding</b>									
A22		Smooth	10	14	43,000	39	5/16"	No. 4	500'



Part #	Class	Type	Width	Thickness	Wt. Per 1,000'	Std. Coil Size
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<b>Copper Bonding Strap</b>							
49	1	Strap	1"	0.051	193	25' & 50'	
49X	1	Strap	Same as 49 description except material is tinned.				
49Y	1	Strap	1-3/4"	0.064	440	25' & 50'	

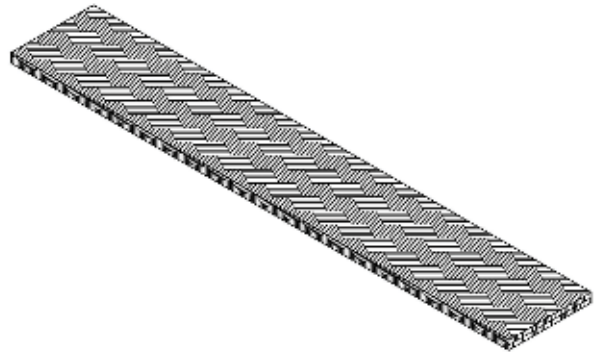
<b>Aluminum Secondary Bonding Strap</b>						
A48	1	Strap	5/8"	0.064	48	25' & 50'
A49	1	Strap	1"	0.064	73	25' & 50'

<b>Copper Secondary Bonding Strap</b>							
48A	1	Strap	5/8"	0.051	128	25' & 50'	
48B	1	Strap	Same as 48A description except material is tinned.				

**45**

**Flexible Copper Bonding Cable**

480 strands of 30 gauge copper, 3/4" wide x 1/8" thick, 48,000 circular mils, wt. is 160 lbs. per 1,000 ft. Standard spool size is 250'.



**A45**

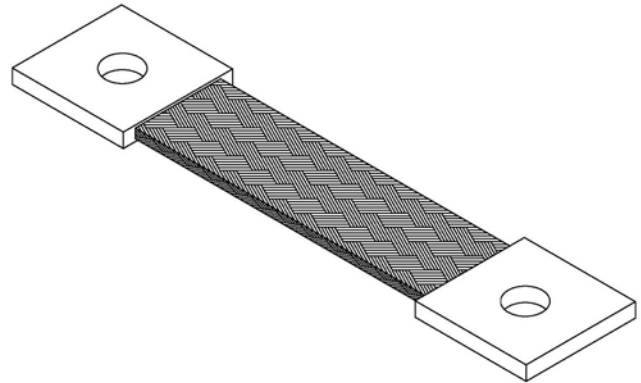
**Flexible Aluminum Bonding Cable**

Aluminum. Wt. is 50 lbs. per. 1,000 ft.

**184**

**Flexible Bonding Connector**

480 strands of 30 gauge copper, 3/4" wide x 1/8" thick, 48,000 circular mils. Connector size is 3/4" wide x 11" overall or 10" from center hole to center hole. Bolt hole is 3/8" diameter. Other lengths available upon request. Wt. .16 lbs. each.



**A184**

**Flexible Bonding Connector**

Aluminum. Wt. .06 lbs. each.

**Class I Solid Copper  
3/8" Diameter Air Terminals**

Length	Sharp Tip	Blunt Tip	Weight
12"	330	330 BT	.52
18"	330A	330A BT	.60
24"	330B	330B BT	.80
36"	330C	330C BT	1.26
48"	330D	330D BT	1.68
60"	330E	330E BT	2.10
72"	330F	330F BT	2.52

\*  
\*

**Class II Solid Copper  
1/2" Diameter Air Terminals**

Length	Sharp Tip	Blunt Tip	Weight
12"	331	331BT	.62
18"	331A	331A BT	1.00
24"	331B	331B BT	1.38
36"	331C	331C BT	2.14
48"	331D	331D BT	2.88
60"	331E	331E BT	3.66
72"	331F	331F BT	4.44

\*  
\*

**Class II Solid Copper  
5/8" Diameter Air Terminals**

Length	Sharp Tip	Blunt Tip	Weight
12"	332	332 BT	.90
18"	332A	332A BT	1.46
24"	332B	332B BT	2.08
36"	332C	332C BT	3.24
48"	332D	332D BT	4.44
60"	332E	332E BT	5.40
72"	332F	332F BT	6.48

\*  
\*



Note: Other lengths available upon request.

\* Air terminals noted with "\*" may require additional lead time.

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

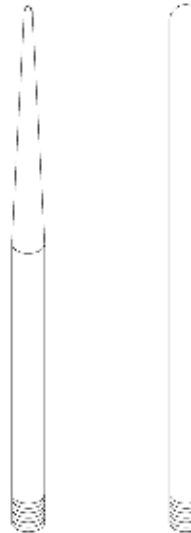
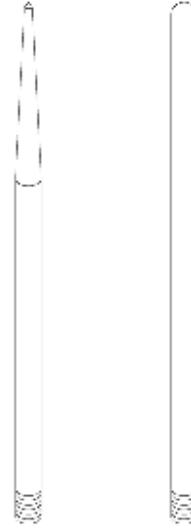
Length	Sharp Tip	Blunt Tip	Weight
12"	A331	A331-BT	.20
18"	A331A	A331A-BT	.30
24"	A331B	A331B-BT	.42
36"	A331C	A331C-BT	.66
48"	A331D	A331D-BT	.88
60"	A331E	A331E-BT	1.08 *
72"	A331F	A331F-BT	1.36 *

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

Length	Sharp Tip	Blunt Tip	Weight
12"	A332	A332-BT	.28
18"	A332A	A332A-BT	.46
24"	A332B	A332B-BT	.60
36"	A332C	A332C-BT	.93
48"	A332D	A332D-BT	1.34
60"	A332E	A332E-BT	1.56 *
72"	A332F	A332F-BT	1.87 *

Note: Other lengths available upon request.

\* Air terminals noted with "\*" may require additional lead time.



**M312 BT**

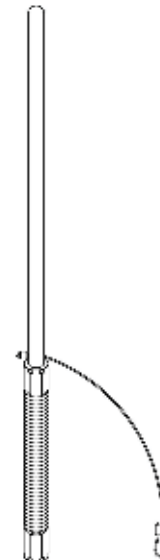
**Spring Point Air Terminal**

Assembly consists of 1/2" x 12" length solid copper blunt tip air terminal mounted on a 6" stainless steel spring assembly. Total overall length is 18". Longer length air terminals available upon request. Wt. 1.28 lbs. each.

**MA312 BT**

**Spring Point Air Terminal**

Aluminum. Wt. .60 lbs. each.



**240W**

**Decorative Strike Termination Device**

Cast solid bronze decorative terminal. Part is nickel plated and has 3/8" female threads. Wt. .54 lbs. each.



**A240W**

**Decorative Strike Termination Device**

Cast aluminum with 1/2" female threads. Wt. .16 lbs. each.

**240Z**

**Decorative Strike Termination Device**

Cast solid bronze decorative terminal. Part is nickel plated and has 1/2" female threads. Wt. .54 lbs. each.

**Tin Coated Solid Copper Strike Termination Device**

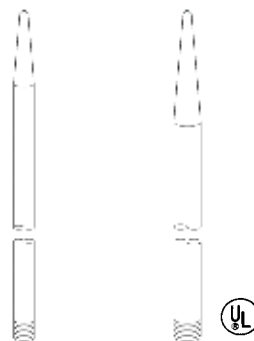
**90** – 3/8" x 36" long. Wt. 1.24 lb. each.

**90B** – 3/8" x 48" long. Wt. 1.68 lbs. each.

**91** – 3/8" x 60" long. Wt. 2.10 lbs. each.

**G90X** – 1/2" x 36" long. Wt. 2.14 lbs. each.

**G91X** – 1/2" x 60" long. Wt. 3.68 lbs. each.



**Tin Coated Solid Copper Chimney Notched Rod**

**250** – 3/8" x 36" long. Wt. 1.28 lbs. each.

**250A** – 3/8" x 48" long. Wt. 1.72 lbs. each.

**250B** – 3/8" x 60" long. Wt. 2.16 lbs. each.

**Solid Aluminum Chimney Notched Rod**

**A250** – 1/2" x 36" long. Wt. .72 lbs. each.

**A250A** – 1/2" x 48" long. Wt. .92 lbs. each.

**A250B** – 1/2" x 60" long. Wt. 1.14 lbs. each.



**256**

**Tin Coated Copper Flue Tile Support**

For use with 3/8" rod and standard or round tile up to 7/8" thick. Wt. .18 lbs. each.

**256X**

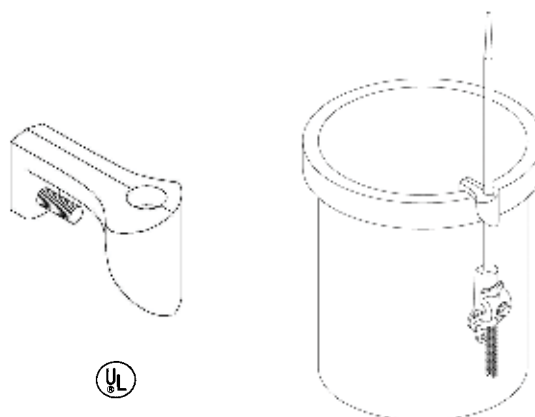
**Large Tin Coated Copper Flue Tile Clamp**

For use with 3/8" rod and tile up to 1 – 3/8" thick. Wt. .22 lbs. each.

**A256X**

**Aluminum Flue Tile Clamp**

Aluminum. For use with 1/2" rod. Wt. .08 lbs. each.



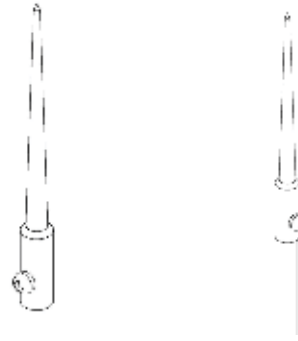


**255**

**Tin Coated Copper Chimney Air Terminal**

For use with 3/8" notched rod. Strike termination device has set screw and approximately 4-3/4" in length.

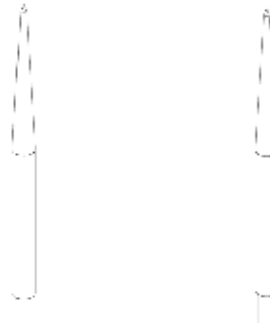
Wt. .06 lbs. each.



**A255**

**Aluminum Chimney Air Terminal**

For use with 1/2" notched rod. Strike termination device is 8" in length and slips on notched rod. Wt. .06 lbs. each.



**Tube Points**

Length	Copper	Weight	Aluminum	Weight	
12"	101	.22	A101	.10	
14"	102	.28	A102	.12	
16"	103	.30	A103	.14	
18"	104	.34	A104	.14	
24"	104A	.46	A104A	.20	
30"	105	.58	A105	.26	
36"	106	.68	A106	.30	
48"	107	.92	A107	.42	
54"	108	1.03	A108	.48	
60"	109	1.14	A109	.50	*
72"	110	1.36	A110	.58	*
84"	111	1.58	A111	.66	*
96"	112	1.80	A112	.74	*

- Furnished in 5/8" OD and in copper and aluminum.
- Tube points are shipped plain as our standard product.
- Full nickel plating is available for up to 48" in length. Add "NP" to part number.
- Point bushings (IP-M63) or couplers (IP-35) are ordered as separate components.

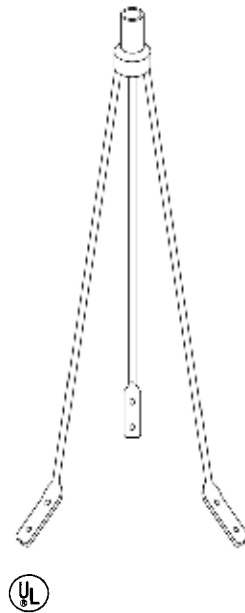


\* Air terminals noted with "\*" may require additional lead time.

**Three leg tripod braces** are furnished in copper and aluminum and used with our strike termination devices up to 5/8" diameter. Braces are made of 1/4" rod and are easily shaped for securing to roof. Tripods are also furnished with feet for securing with adhesive. For proper sizing see description below. Other lengths available upon request.

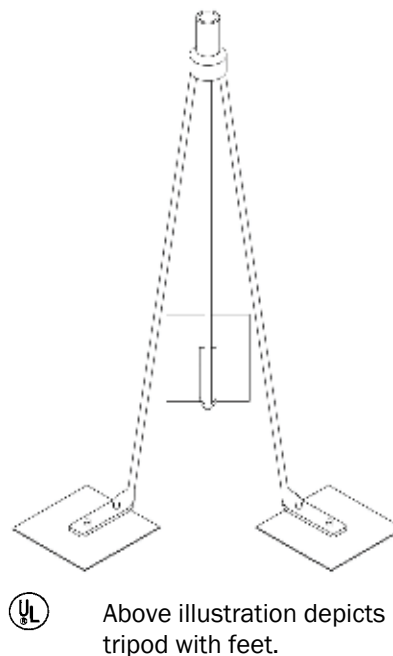
**Copper Tripod Supports**

PART #	DESCRIPTION	Weight
30A	14" length for 24" point	.88 lbs. each
30AF	Above description with feet	1.14 lbs each
30	18" length for 30" point	1.15 lbs. each
30F	Above description with feet	1.39 lbs. each
30B	24" length for 36" point	1.45 lbs. each
30BF	Above description with feet	1.75 lbs. Each
30C	36" length for 48" point	2.05 lbs. each
30CF	Above description with feet	2.47 lbs. Each
30D	48" length for 60" point	2.64 lbs. each
30DF	Above description with feet	3.18 lbs. Each



**Aluminum Tripod Supports**

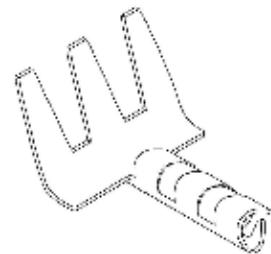
PART #	DESCRIPTION	Weight
A110X	14" length for 24" point	.26 lbs. each
A110XF	Above description with feet	.32 lbs each
A110	18" length for 30" point	.43 lbs. each
A110F	Above description with feet	.53 lbs. each
A111	24" length for 36" point	.58 lbs. each
A111F	Above description with feet	.71 lbs. Each
A112	36" length for 48" point	.80 lbs. each
A112F	Above description with feet	.98 lbs. Each
A113	48" length for 60" point	1.02 lbs. each
A113F	Above description with feet	1.25 lbs. Each



**35**

**Tube Point Coupler**

Pressed copper coupler is crimped into tube point prior to shipping.  
Wt. .12 lbs. each.



**A35**

**Tube Point Coupler**

Aluminum. Wt. .04 lbs. each.

**M63**

**Tube Point Bushing**

Machined solid brass coupler with 5/8" female threads is crimped into tube point prior to shipping. Wt. .18 lbs. each.



**MA63**

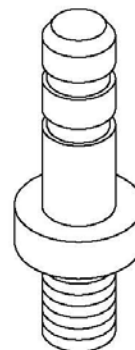
**Tube Point Bushing**

Aluminum. Wt. .06 lbs. each.

**M63 - 12MB**

**Tube Point Bushing**

Machined solid brass coupler with 1/2" male threads is crimped into tube point prior to shipping. Wt. .18 lbs. each.



**MA63 - 12MB**

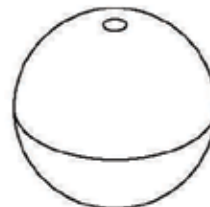
**Tube Point Bushing**

Aluminum. Wt. .06 lbs. each.

**170PP**

**Point Tip Protector**

1-1/8" diameter Neoprene® ball to fit on sharp tip strike devices. Secure with silicone or construction adhesive to prevent removal of protector.  
Wt. .03 lbs. each.



**60 Bushing**

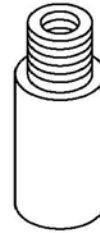
Machined brass bushing with 1/2" male and 3/8" female threads. Bushing installed in 1/2" female bases to allow use of 3/8" Strike Termination Devices.  
Wt. .02 lbs. each.



**\*\*Note: The following thread sizes apply to all IPC fixed and adjustable adaptors.  
 5/8" - 11 (threads per inch) Tops  
 5/8" - 14 (threads per inch) Bottoms**

**Fixed Adaptor Series  
 Male Top to Female Bottom Adaptors**

Part #	Description	Weight
M63Y	Machined brass 3/8" female and 5/8" male top and 3/8" female bottom.	.12
M63Z	Machined brass 5/8" male top and 1/2" female bottom.	.12
MA63Z	Machined aluminum 5/8" male top and 1/2" female bottom.	.04



13



**Female Top to Female Bottom Adaptors**

Part #	Description	Weight
M63E	Machined brass 3/8" female top and 1/2" female bottom.	.14
M63B	Machined brass 3/8" female top and 5/8" female bottom.	.16
M63C	Machined brass 1/2" female top and 5/8" female bottom.	.12
M63X	Machined brass 1/2" female top and 1/2" female bottom.	.12
M63W	Machined brass 5/8" female top and 5/8" female bottom.	.14
M63Y	Machined brass 3/8" female and 5/8" male top and 3/8" female bottom.	.12
MA63C	Machined aluminum 1/2" female top and 5/8" female bottom.	.04
MA63X	Machined aluminum 1/2" female top and 1/2" female bottom.	.08
MA63W	Machined aluminum 5/8" female top and 5/8" female bottom.	.04



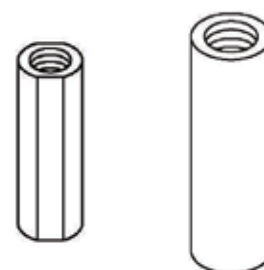
**Female Top to Male Bottom Adaptors**

Part #	Description	Weight
M60UADP	Machined brass 5/8" female top and 1/2" male bottom.	.10
MA60UADP	Machined aluminum 5/8" female top and 1/2" male bottom.	.04



**Fixed Couplers**  
**Female Top – Female Bottom Couplers**

Part #	Description	Weight
M334C	Machined brass coupler with 3/8" female threads on each end, 1-1/4" length.	.04
M335C	Machined brass coupler with 1/2" female threads on each end, 2" length.	.16
MA335C	Machined aluminum coupler with 1/2" female threads on each end, 2" length.	.06



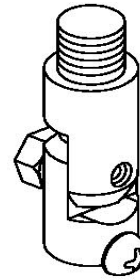
**Adjustable Adaptor Series**  
**Female Top-Male Bottom Adjustable Adaptors**

Part #	Description	WEIGHT
MADJ38FT38MB	Machined brass adjustable adaptor 3/8" female top and 3/8" male bottom	.36
MADJ38FT12MB	Machined brass adjustable adaptor 3/8" female top and 1/2" male bottom	.40
MADJ38FT58MB	Machined brass adjustable adaptor 3/8" female top and 5/8" male bottom	.40
MADJ12FT38MB	Machined brass adjustable adaptor 1/2" female top and 3/8" male bottom	.36
MADJ12FT12MB	Machined brass adjustable adaptor 1/2" female top and 1/2" male bottom	.40
MAADJ12FT12MB	Machined aluminum adjustable adaptor 1/2" female top and 1/2" male bottom	.16
MADJ58FT12MB	Machined brass adjustable adaptor 5/8" female top and 1/2" male bottom	.38
MADDJ58FT12MB	Machined aluminum adjustable adaptor 5/8" female top and 1/2" male bottom	.16



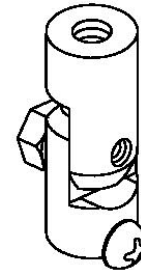
**Adjustable Adaptor Series**  
**Male Top-Female Bottom Adjustable Adaptors**

Part #	Description	WEIGHT
MADJ58MT12FB	Machined brass 5/8" male top and 1/2" female bottom.	.38
MAADJ58MT12FB	Machined aluminum 5/8" male top and 1/2" female bottom.	.16
MADJ58MT58FB	Machined brass 5/8" male top and 5/8" female bottom.	.42
MAADJ58MT58FB	Machined aluminum 5/8" male top and 5/8" female bottom.	.16



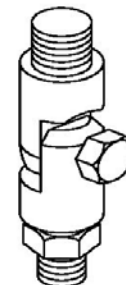
**Adjustable Adaptor Series**  
**Female Top-Female Bottom Adjustable Adaptors**

Part #	Description	WEIGHT
MADJ38FT12FB	Machined brass 3/8" female top and 1/2" female bottom.	.40
MADJ38FT58FB	Machined brass 3/8" female top and 5/8" female bottom.	.42
MADJ12FT12FB	Machined brass 1/2" female top and 1/2" female bottom.	.38
MAADJ12FT12FB	Machined aluminum 1/2" female top and 1/2" female bottom.	.16
MADJ12FT58FB	Machined brass 1/2" female top and 5/8" female bottom.	.36
MAADJ12FT58FB	Machined aluminum 1/2" female top and 5/8" female bottom.	.14
MADJ58FT12FB	Machined brass 5/8" female top and 1/2" female bottom.	.40
MAADJ58FT12FB	Machined aluminum 5/8" female top and 1/2" female bottom.	.16
MADJ58FT58FB	Machined brass 5/8" female top and 5/8" female bottom.	.42
MAADJ58FT58FB	Machined aluminum 5/8" female top and 5/8" female bottom.	.14



**Male Top-Male Bottom Adjustable Adaptors**

Part #	Description	WEIGHT
MAADJ58MT12MB	Machined aluminum 5/8" male top and 1/2" male bottom.	.18
MADJ58MT12MB	Machined brass 5/8" male top and 1/2" male bottom.	.44
MADJ58MT38MB	Machined brass 5/8" male top and 3/8" male bottom.	.40



**60U**

**Universal Mounting Base**

Cast bronze base can be used in either a vertical or horizontal mounting. For use with 3/8" air terminals. Fasten to surface with adhesive or screws. Wt. .80 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**60UB**

**Universal Mounting Base**

Same as 60U description except for 1/2" air terminals. Wt. .80 lbs. each.

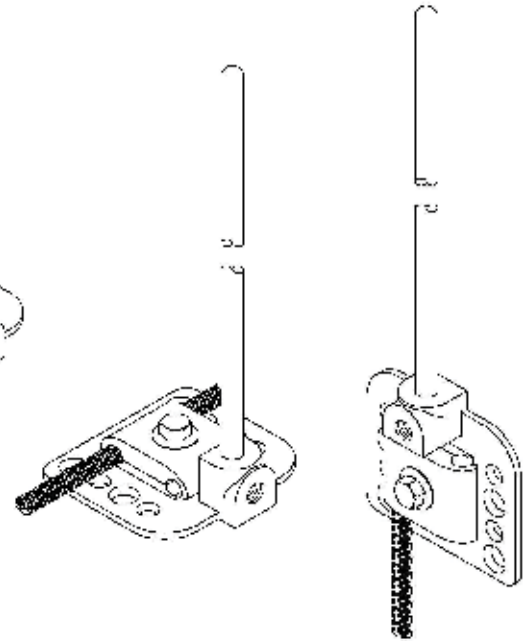
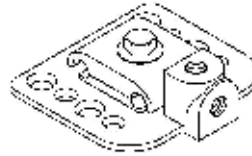
22	28S	32S	40	21	G3	A22	A28	A30
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**A60UB**

**Universal Mounting Base**

Cast aluminum. Wt. .28 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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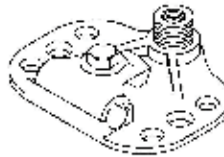


**60**

**Horizontal Mounting Base**

Cast bronze base has 3/8" female and 5/8" male threads. Wt. .64 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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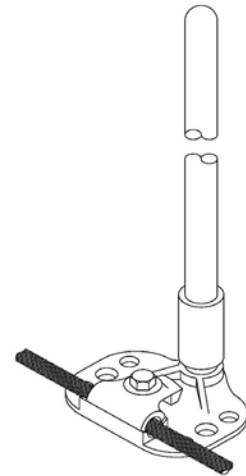
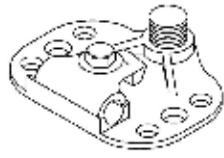


**A60**

**Horizontal Mounting Base**

Cast aluminum with 5/8" male threads. Wt. .22 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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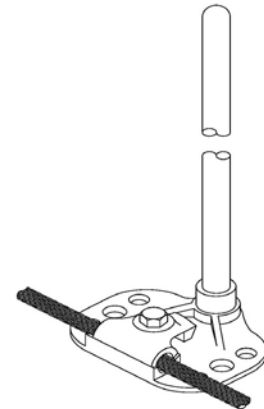
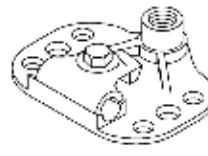


**60B**

**Horizontal Mounting Base**

Cast bronze base has 1/2" female threads. Wt. .64 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A60B**

**Horizontal Mounting Base**

Cast aluminum. Wt. .22 lbs. each.

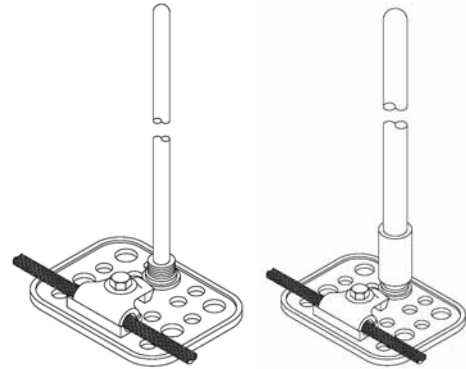
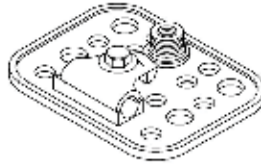
22	28S	32S	40	21	G3	A22	A28	A30
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## 60X

### Adhesive Style Horizontal Mounting Base

Cast bronze with 3/8" female and 5/8" male threads. Wt. .96 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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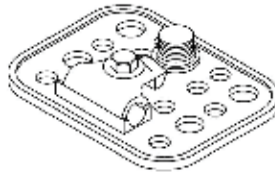


## A60X

### Adhesive Style Horizontal Mounting Base

Cast aluminum with 5/8" male threads. Wt. .28 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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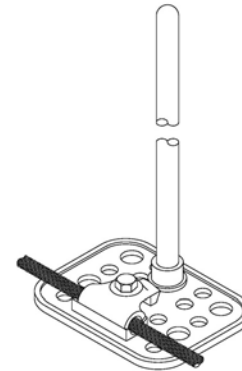
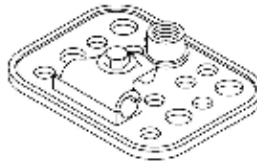


## 60XB

### Adhesive Style Horizontal Mounting Base

Cast bronze with 1/2" female threads. Wt. .86 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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## A60XB

### Adhesive Style Horizontal Mounting Base

Cast aluminum. Wt. .26 lbs. each.

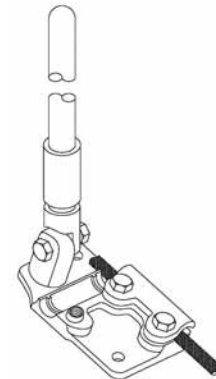
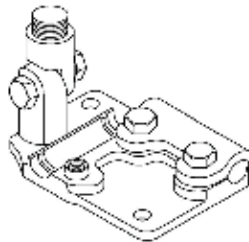
22	28S	32S	40	21	G3	A22	A28	A30
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## 338

### Heavy Duty Adjustable Base - Short Neck

Cast bronze with 3/8" female and 5/8" male threads. Wt. 1.55 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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## A338

### Heavy Duty Adjustable Base - Short Neck

Cast aluminum with 5/8" male threads. Wt. .64 lbs. each.

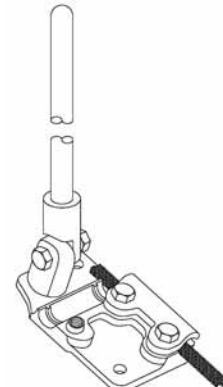
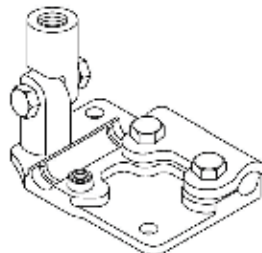
22	28S	32S	40	21	G3	A22	A28	A30
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## 339

### Heavy Duty Adjustable Base - Short Neck

Cast bronze with 1/2" female threads. Wt. 1.55 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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## A339

### Heavy Duty Adjustable Base - Short Neck

Cast aluminum with 1/2" female threads. Wt. .64 lb. each.

22	28S	32S	40	21	G3	A22	A28	A30
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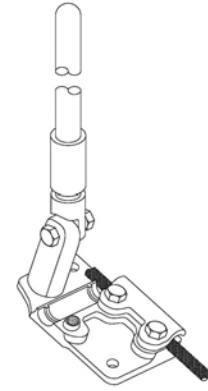
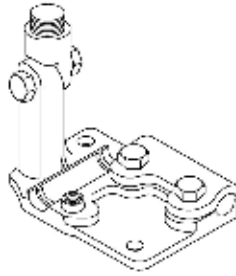


**336**

**Heavy Duty Adjustable Base – Long Neck**

Cast bronze part with 3/8" female and 5/8" male threads. Wt. 1.75 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A336**

**Heavy Duty Adjustable Base – Long Neck**

Cast aluminum with only 5/8" male threads. Wt. .64 lbs. each.

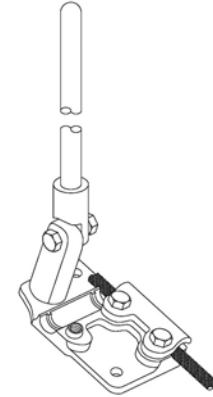
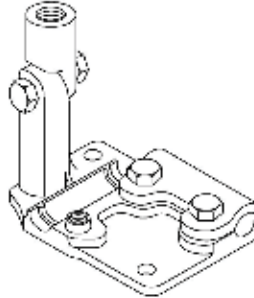
22	28S	32S	40	21	G3	A22	A28	A30
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**337**

**Heavy Duty Adjustable Base – Long Neck**

Cast bronze part with 1/2" female threads. Wt. 1.55 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A337**

**Heavy Duty Adjustable Base – Long Neck**

Cast aluminum with only 1/2" female threads. Wt. .64 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**67B**

**Vertical Flat Surface Base**

Cast bronze part has 1/2" female threads. Wt. .78 lbs. each.

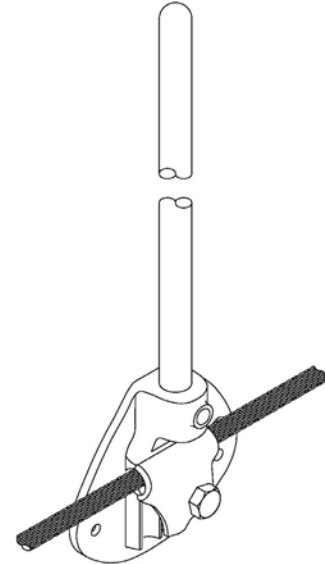
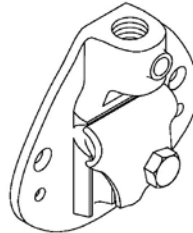
22	28S	32S	40	21	G3	A22	A28	A30
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**A67B**

**Vertical Flat Surface Base**

Cast aluminum part has 1/2" female threads. Wt. .26 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**67C**

**Vertical Flat Surface Base**

Cast bronze part has 3/8" female threads. Wt. .80 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**67X**

**Vertical Flat Surface Base**

Cast bronze part has 5/8" male threads. Wt. .84 lbs. each.

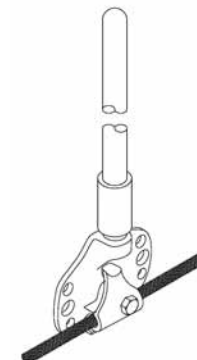
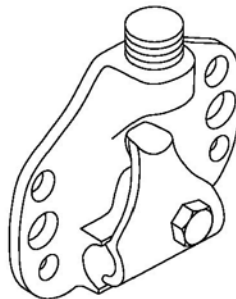
22	28S	32S	40	21	G3	A22	A28	A30
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**A67X**

**Vertical Flat Surface Base**

Cast aluminum part has 5/8" male threads. Wt. .24 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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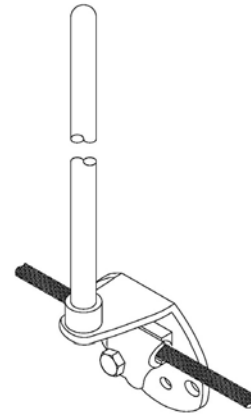
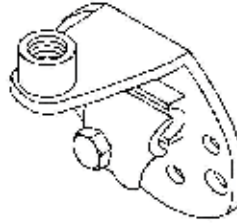


**273**

**Offset Vertical Base**

Cast bronze with 1/2" female threads. Air terminals are off-set 1-3/4" from mounting surface. Wt. .76 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A273**

**Offset Vertical Base**

Cast aluminum with 1/2" female threads. Wt. .25 lbs. each.

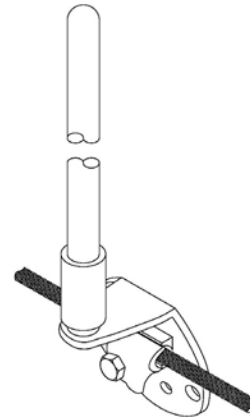
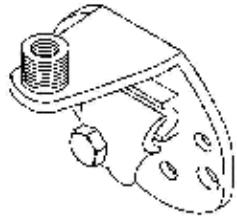
22	28S	32S	40	21	G3	A22	A28	A30
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**274**

**Offset Vertical Base Support**

Cast bronze with 3/8" female and 5/8" male threads. Air terminals are off-set 1-3/4" from surface. Wt. .76 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A274**

**Offset Vertical Base Support**

Cast aluminum with 5/8" male threads. Wt. .25 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**271**

**Vertical Mount for Chimney Base**

Cast bronze part for use with notched rod. Part has crimp type cable fastener and set screw. Wt. .22 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**271A**

**Vertical Mount for Chimney Base**

Cast bronze for use with 3/8" threaded rod. Part has crimp type cable fastener and set screw. Wt. .22 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**C90X**

**Vertical Mount Chimney Base**

Cast bronze base with 3/8" female threads.  
Wt. .46 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**AC90X**

**Vertical Mount Chimney Base**

Cast aluminum and 1/2" female threads.  
Wt. .16 lb. each.

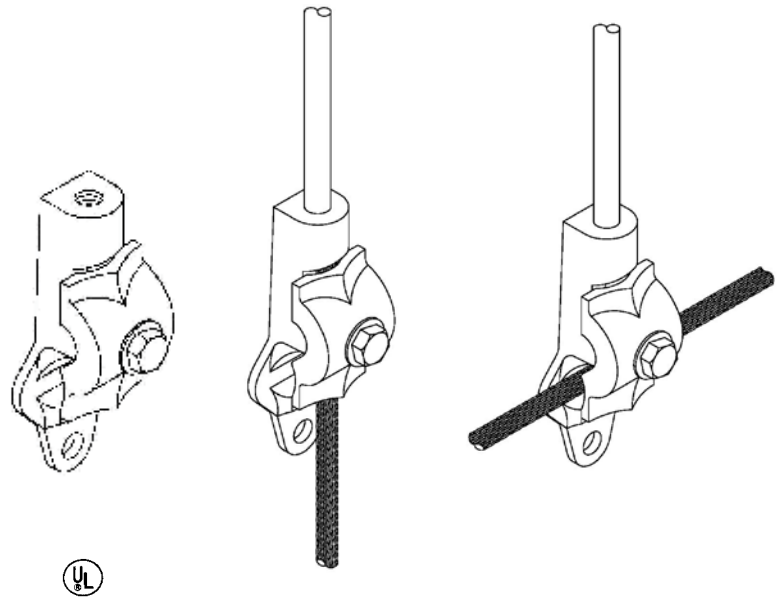
22	28S	32S	40	21	G3	A22	A28	A30
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**C90Y**

**Vertical Mount Chimney Base**

Cast bronze base with 1/2" female threads.  
Wt. .50 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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20

**257**

**Vertical Mount Chimney Base**

Cast bronze for use with 3/8" rod with clamp style cable fastener. Wt. .50 lbs each.

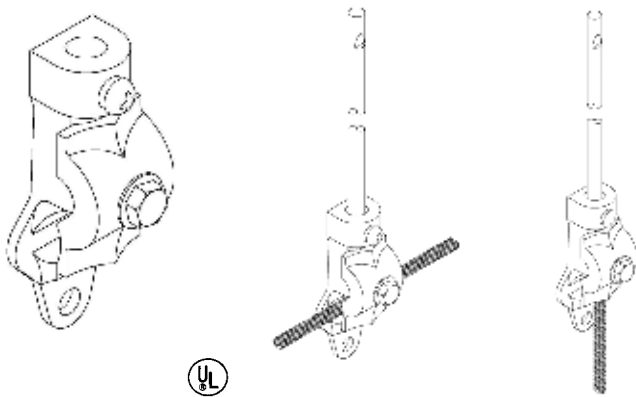
22	28S	32S	40	21	G3	A22	A28	A30
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**A257**

**Vertical Mount Chimney Base**

Cast aluminum for 1/2" rod. Wt. .16 lbs. each.

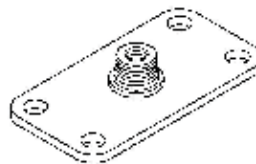
22	28S	32S	40	21	G3	A22	A28	A30
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**179**

**Flat Surface Horizontal Base**

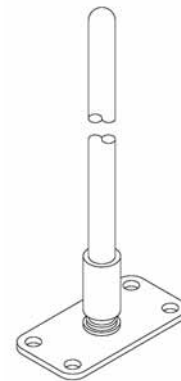
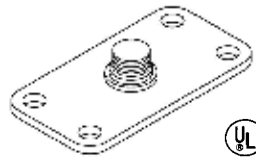
Cast bronze has 8 square inches of bonding surface. With 3/8" female and 5/8" male threads. Wt. .42 lbs. each.



**A179**

**Flat Surface Horizontal Base**

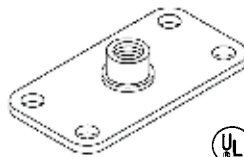
Cast aluminum with 5/8" male threads. Wt. .14 lbs. each.



**179A**

**Flat Surface Horizontal Base**

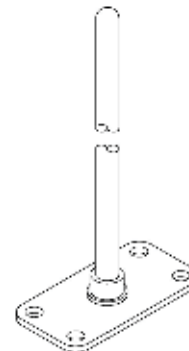
Cast bronze part has 8 square inches of bonding surface and has 1/2" female threads. Wt. .40 lbs. each.



**A179A**

**Flat Surface Horizontal Base**

Cast aluminum part has 1/2" female threads. Wt. .12 lbs. each.

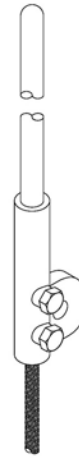
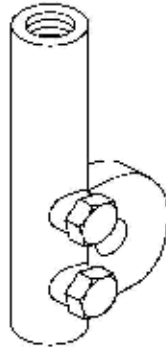


**260**

**Heavy Duty Straight Connector**

Cast bronze part provided with 1/2" female threads and two hex-head bolts for securing cable. May be furnished with 5/8" threads when specified. Wt. .54 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A260**

**Heavy Duty Straight Connector**

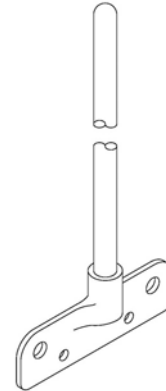
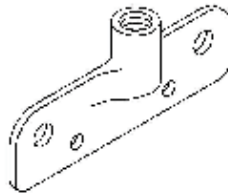
Cast aluminum part with 1/2" female threads. Wt. .22 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**178**

**Flat Surface Vertical Base**

Cast bronze with 1/2" female threads and over 4 square inches of bonding surface. Wt. .30 lbs. each.



**A178**

**Flat Surface Vertical Base**

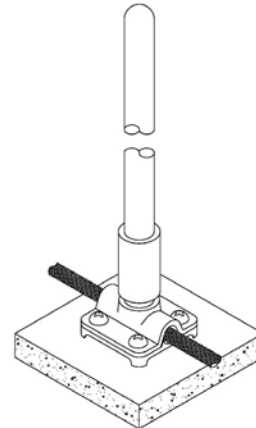
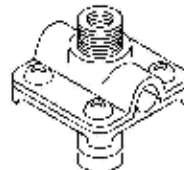
Cast aluminum with 1/2" female threads. Wt. .10 lbs. each.

**60A** 60A 1/2" ID (1/2" female threads)

**Flat Surface Air Terminal Base**

Cast bronze part is provided with 3/8" female and 5/8" male threads and furnished with 5/16" lead anchor and screw. Wt. .68 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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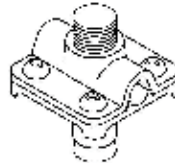


**A60A** A60A 1/2" ID (1/2" female threads)

**Flat Surface Air Terminal Base**

Cast aluminum with 5/8" female threads. Wt. .28 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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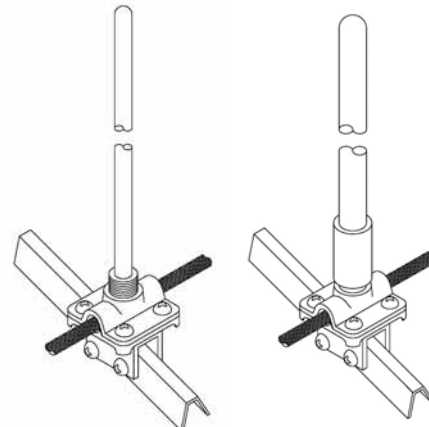
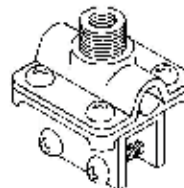


**60SS** 60SS 1/2" ID (1/2" female threads)

**Standing Seam Base Support**

Cast bronze base support with cable fastener. Cable can run parallel or perpendicular to standing seam. Part furnished with 3/8" female and 5/8" male threads for seams up to 13/16" wide. Wt. .93 lbs, Each..

22	28S	32S	40	21	G3	A22	A28	A30
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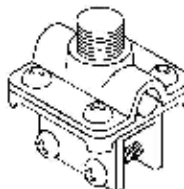


**A60SS** A60SS 1/2" ID (1/2" female threads)

**Standing Seam Base Support**

Machined/cast aluminum with 5/8" male threads for seams up to 7/8" wide. Wt. .28 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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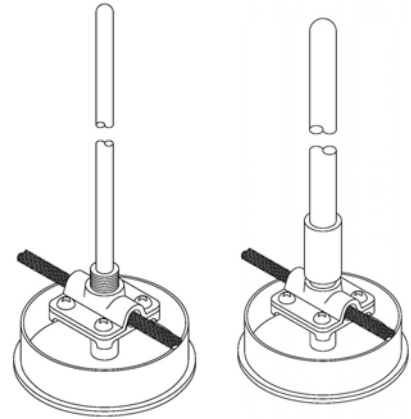
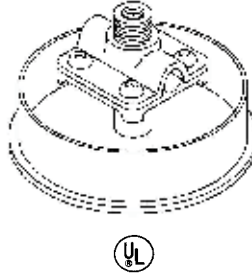


**266B** 266B 1/2" ID (1/2" female threads)

**Pan Type Adhesive Air Terminal Base**

Cast bronze base with 5/8" male threads and outer diameter of pan is 6" OD. Pan is fastened with adhesive and filled with stone chips or concrete. Wt. 2.90 lbs.

22	28S	32S	40	21	G3	A22	A28	A30
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**A266B** A266B 1/2" ID (1/2" female threads)

**Pan Type Adhesive Air Terminal Base**

Cast aluminum base with 5/8" male threads. Wt. .98 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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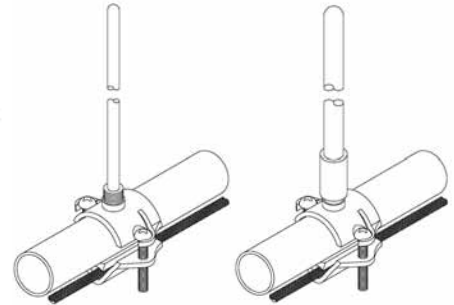
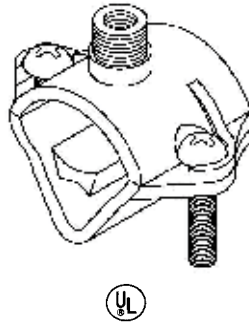
Note: 266B/A266B may require an extended lead time.

**181**

**Railing Bracket Air Terminal Base**

Cast bronze part is for use with railings up to 1-3/4" diameter. Part is threaded for 3/8" female and 5/8" male threads. Wt. .74 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A181**

**Railing Bracket Air Terminal Base**

Cast aluminum with 5/8" male threads. Adaptor may be required. Wt. .28 lbs. each.

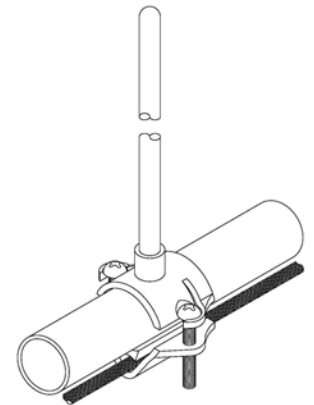
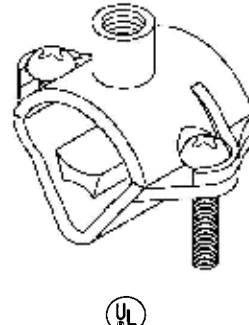
22	28S	32S	40	21	G3	A22	A28	A30
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**181A**

**Railing Bracket Air Terminal Base**

Cast bronze part is for use with railing up to 1-3/4" diameter. Part is threaded for 1/2" female threads. Wt. .74 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A181A**

**Railing Bracket Air Terminal Base**

Cast aluminum. Wt. .28 lbs. each.

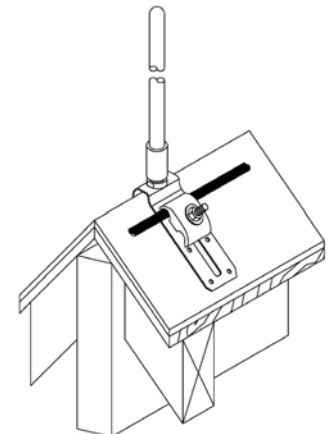
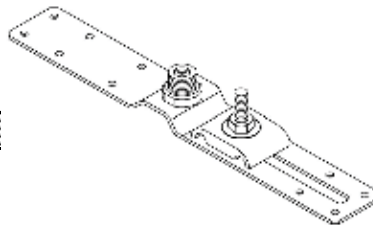
22	28S	32S	40	21	G3	A22	A28	A30
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**M74**

**Slider Saddle Base**

Pressed copper strap material 11" in length with adjustable slider cable support. Part is furnished with 3/8" female and 5/8" male threads. Wt. .77 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**MA74**

**Slider Saddle Base**

Cast aluminum with 5/8" male threads. Adaptor may be required. Wt. .36 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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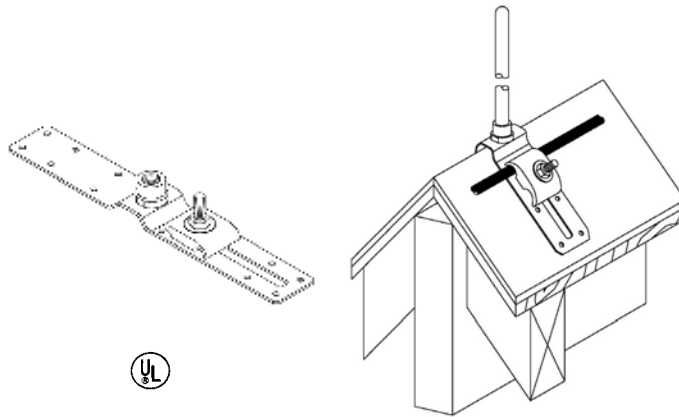


**M74 1/2" ID**

**Slider Saddle Base**

Copper strap material 11" in length with adjustable slider cable support. Part is furnished with 1/2" female threads. Wt. .77 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**MA74 1/2" ID**

**Slider Style Saddle Base**

Aluminum strap material with 1/2" female threads. Wt. .36 lbs. each.

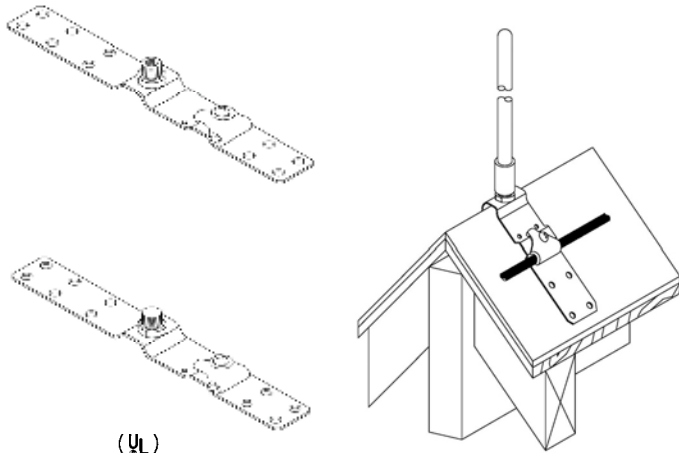
22	28S	32S	40	21	G3	A22	A28	A30
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**M74Y M74Y 1/2" ID (1/2" female)**

**Paste Down Saddle Base**

Copper strap 12" in length with clamp down cable connector. Part is furnished with 3/8" female and 5/8" male threads. Wt. .70 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**MA74Y MA74Y 1/2" ID (1/2" female)**

**Paste Down Saddle Base**

Aluminum strap material with 5/8" male threads. Wt. .28 lbs. each.

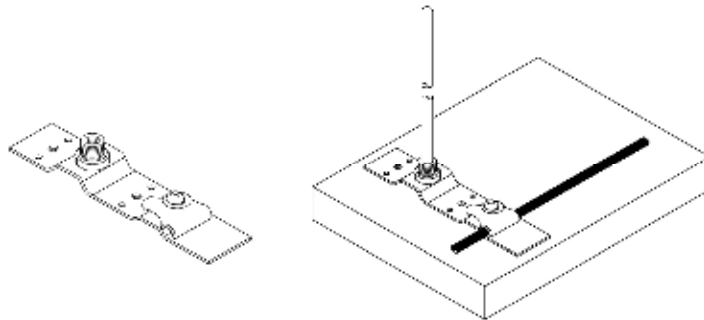
22	28S	32S	40	21	G3	A22	A28	A30
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**M55 M55 1/2" ID (1/2" female threads)**

**Shorter Saddle Style Air Terminal Base**

Copper strap material is 6" in length for applications where space is limited. Wt. .48 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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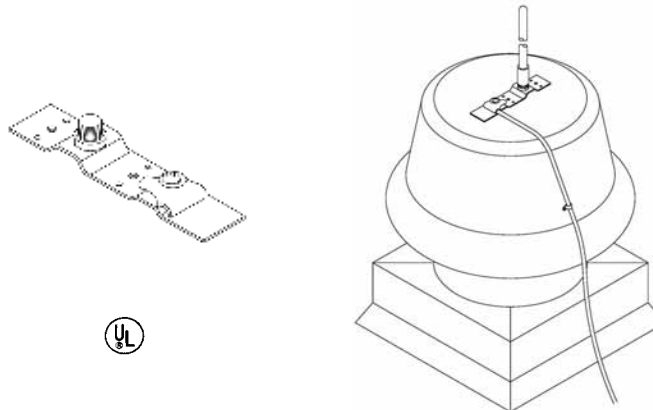


**MA55 MA55 1/2" ID (1/2" female)**

**Shorter Saddle Style Air Terminal Base**

Aluminum strap material. Wt. .20 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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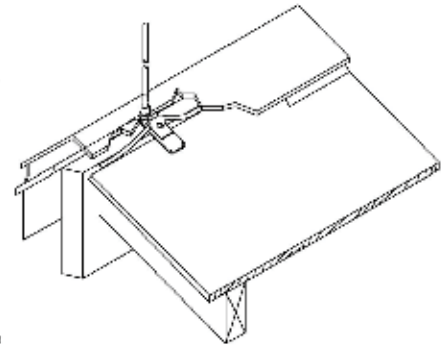
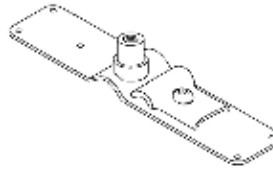


**F414**

**Concealed Saddle Base**

Cast bronze is 6-1/4" in length with 3/8" female threads that accommodates standard flat or round cable. Wt. .32 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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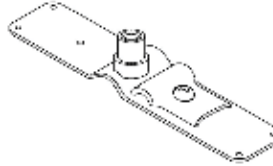


**F414H**

**Concealed Saddle Base**

Cast bronze part with 1/2" female threads. Wt. .32 lbs. each

22	28S	32S	40	21	G3	A22	A28	A30
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**AF414**

**Concealed Saddle Base**

Cast aluminum with 1/2" female threads. Wt. .14 lbs. each.

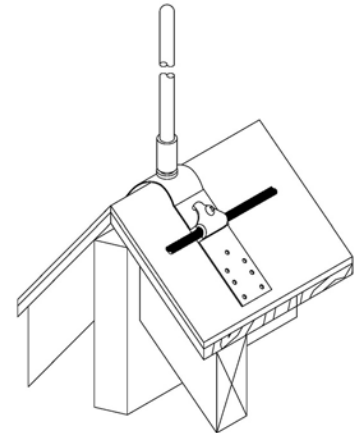
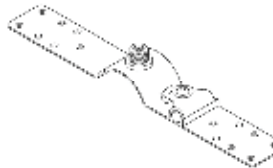
22	28S	32S	40	21	G3	A22	A28	A30
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**66**

**Anniversary Saddle**

Cast bronze base is 13" in length with 3/8" female and 5/8" male threads. Wt. 1.14 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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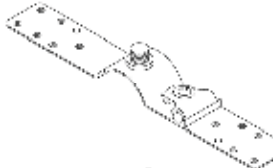


**A66**

**Anniversary Saddle**

Cast aluminum with 5/8" male threads. Wt. .36 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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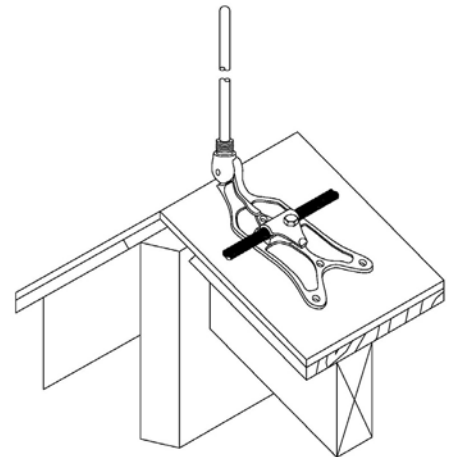
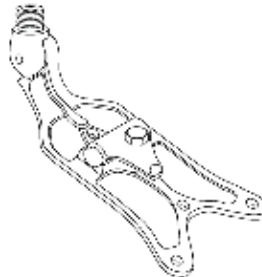
**243**

243 1/2" ID (1/2" female threads)

**Semi-Concealed Adjustable Base**

Cast bronze base with adjustable adaptor and is furnished with 3/8" female and 5/8" male threads. Wt. 1.08 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A243**

A243 1/2" ID (1/2" female threads)

**Semi-Concealed Adjustable Base**

Cast aluminum with 5/8" male threads. Wt. .36 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**240 Series**

**Concealed Base Assembly**

Assembly includes copper or aluminum stem threaded 2 inches, neoprene washer (247A), nailing bracket and cable connector.

22	28S	32S	40	21	G5	A22	A28	A30
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**240** Assembly Copper, 3/8" x 15" stem.  
Wt. 1.02 lbs. each.

**A240** Assembly Aluminum, 1/2" x 15" stem.  
Wt. .50 lbs. each.

**240B** Assembly Copper, 3/8" x 18" stem.  
Wt. 1.16 lbs. each.

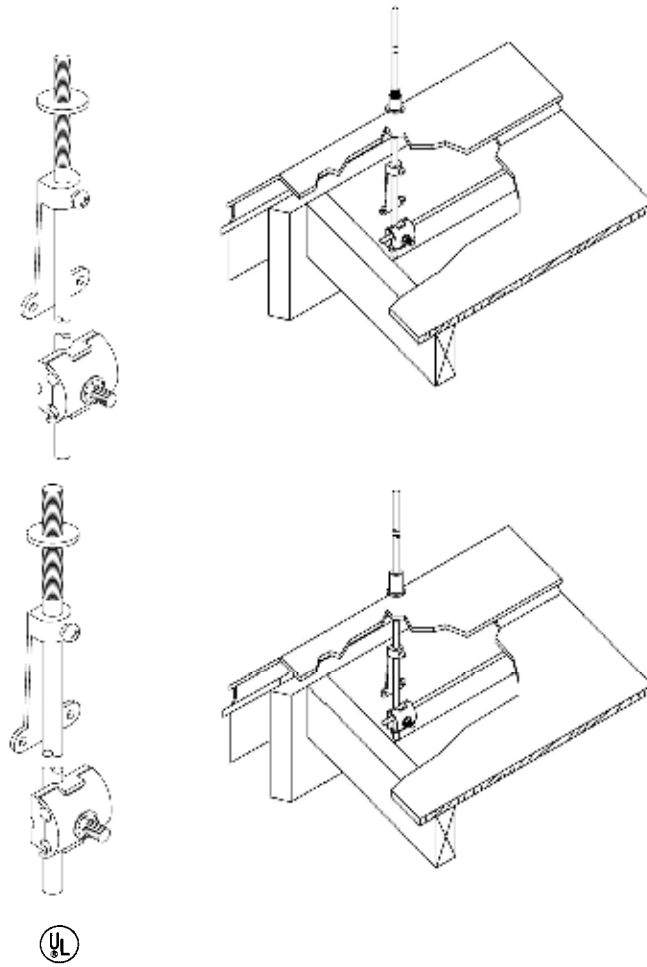
**240-24"** Assembly Copper, 3/8" x 24" stem.  
Wt. 1.31 lbs. each.

**A240B** Assembly Aluminum, 1/2" x 18" stem.  
Wt. .55 lbs. each.

**240X** Assembly Copper, 1/2" x 15" stem.  
Wt. 1.14 lbs. each.

**240D** Assembly Copper, 1/2" x 18" stem.  
Wt. 1.36 lbs. each.

\*\*Note: Longer length stems available upon request.



25

**240 Series Component Parts**

Descriptions are noted above and longer stem lengths available upon request.

**240 Connector**

**A240 Connector**

**240 Nail Bracket**

**A240 Nail Bracket**

**240 Stem**

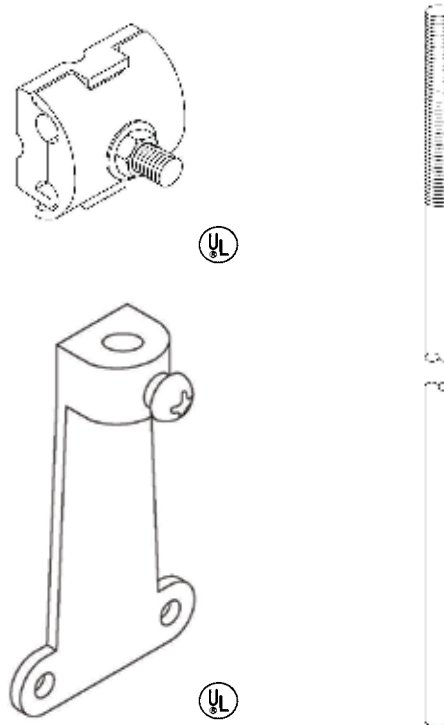
**240B Stem**

**240-24" Stem**

**A240B Stem**

**240X**

**A240X**



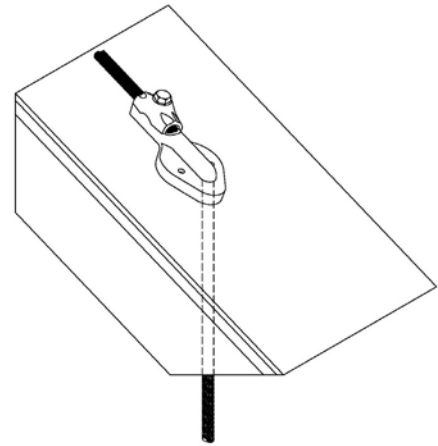
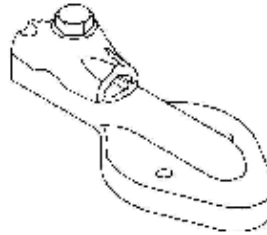


**325**

**Thru Roof Connector**

Cast bronze connector with pressure style cable fastener on top and crimp connector on bottom side. Bottom side of part is recessed to allow for sealant to assure a weather tight seal. Wt. .72 lbs. each.

22	28S	32S	40	21	GS	A22	A28	A30
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**A325**

**Thru Roof Connector**

Cast aluminum. Wt. .24 lbs. each.

22	28S	32S	40	21	GS	A22	A28	A30
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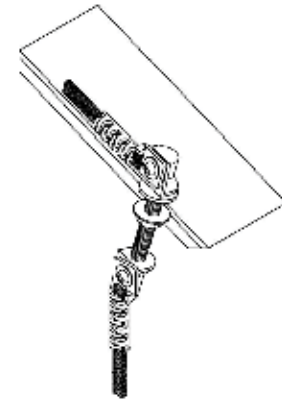
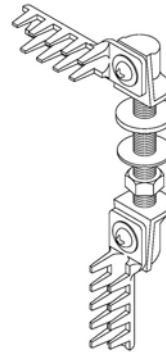


**272A**

**Thru Roof Connector**

Cast bronze with swivel crimp connector on each end with threaded stainless steel rod 3/8" x 4-3/4". Wt. .76 lb. each.

22	28S	32S	40	21	GS	A22	A28	A30
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**A272A**

**Thru Roof Connector**

Cast aluminum. Threaded stainless steel rod 1/2" x 4-3/4". Wt. .46 lbs. each.

22	28S	32S	40	21	GS	A22	A28	A30
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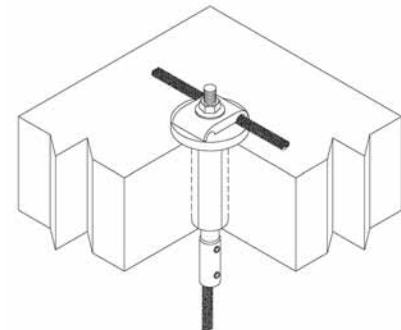


**597C** REVISED PART-Removed Base Plate

**Thru Roof Connector for 1-1/2" PVC**

Cast bronze assembly consists of IP-597 cap, cable connector and IP-M597 bottom cable connector with hex-head bolts and 1/2" x 8" threaded stainless steel rod. Wt. 1.18 lbs. each.

22	28S	32S	40	21	GS	A22	A28	A30
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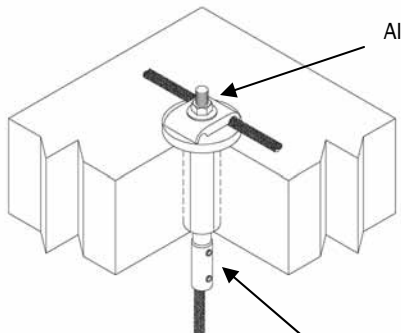
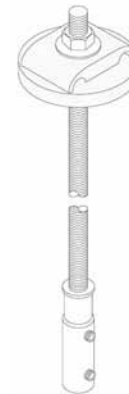
**26**

**A597C** REVISED PART-Removed Base Plate

**Thru Roof Connector for 1-1/2" PVC**

Cast aluminum. Wt. .64 lbs. each.

22	28S	32S	40	21	GS	A22	A28	A30
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**597BM** REVISED PART-Removed Base Plate

**Bimetallic Thru Roof Connector for 1-1/2" PVC**

Cast bronze and aluminum assembly consists of aluminum IP-A597 cap and, cable connector on top and brass IP-M597 bottom cable connector with hex-head bolts and 1/2" x 8" threaded stainless steel rod. Wt. .80 lbs. each.

22	28S	32S	40	21	GS	A22	A28	A30
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Note: The PVC shown is for illustrative purposes only and is not included as part of the assembly. Longer lengths of threaded rod available upon request. Set screws are available upon request.

**597 Cap**

**Thru Roof Connector and Cap**

Cast bronze includes both the IP-60U cable connector and cap and is drilled out for 1/2" rod. Nut and washer are not included. Wt. .60 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A597 Cap**

**Thru Roof Connector and Cap**

Aluminum. .18 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**#334T - 3/8" Threaded SS Rod**

Furnished in multiples of 1" or by the foot. Wt. .30 lb. per foot.

**#335T - 1/2" Threaded SS Rod**

Furnished in multiples of 1" or by the foot. Wt. .54 lb. per foot.

**A335—1/2" Threaded Alum. Rod**

Item is longer available.



**M597 Bottom Only**

Machined brass connector with hex-head bolts. Wt. .26 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**MA597 Bottom Only**

Machined aluminum. .08 lbs. each.

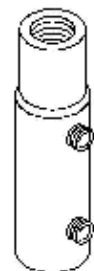
22	28S	32S	40	21	G3	A22	A28	A30
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**M597C Bottom Only**

Machined brass connector with set screws. Wt. .26 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**MA597C Bottom Only**

Machined aluminum. Wt. .08 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**597R**

**Right Angle Thru Roof Connector**

Cast thru roof connector consists of IP-596 bus connector, Neoprene® washer, hex nut, washer, M597 bottom cable connector and 1/2" x 8" threaded stainless steel rod. Longer lengths of threaded rod available upon request. Wt. 1.30 lbs. each.

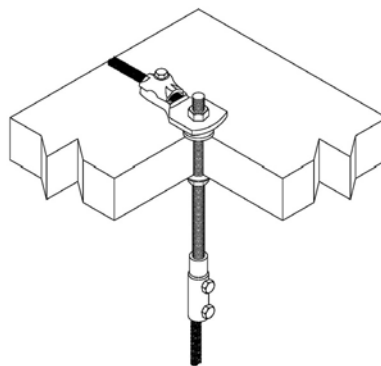
2	28S	32S	40	21	G3	A22	A28	A30
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**A597R**

**Right Angle Thru Roof Connector**

Cast aluminum. .74 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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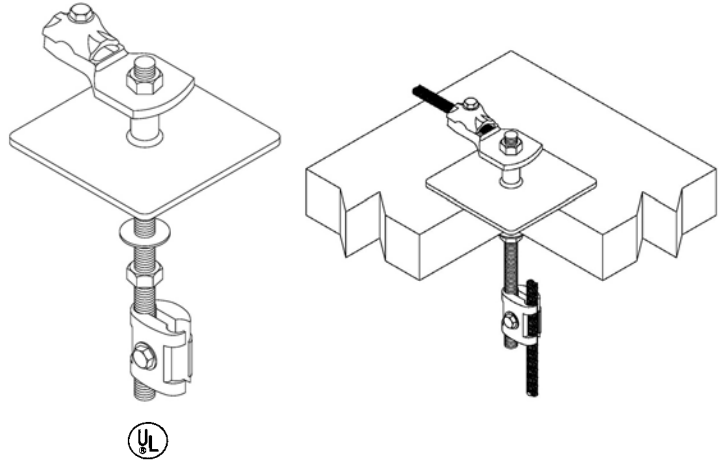


**597X**

**Right Angle Thru Roof Connector**

Cast bronze thru roof connector consists of IP-596 bus connector, IP-345X flashing plate, Neoprene® washer, hex nut, washer, 297A cable connector and 1/2" x 8" threaded stainless steel rod. Longer lengths of threaded rod available upon request. Wt. 2.04 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A597X**

**Right Angle Thru Roof Connector**

Aluminum. 1.10 lbs. each.

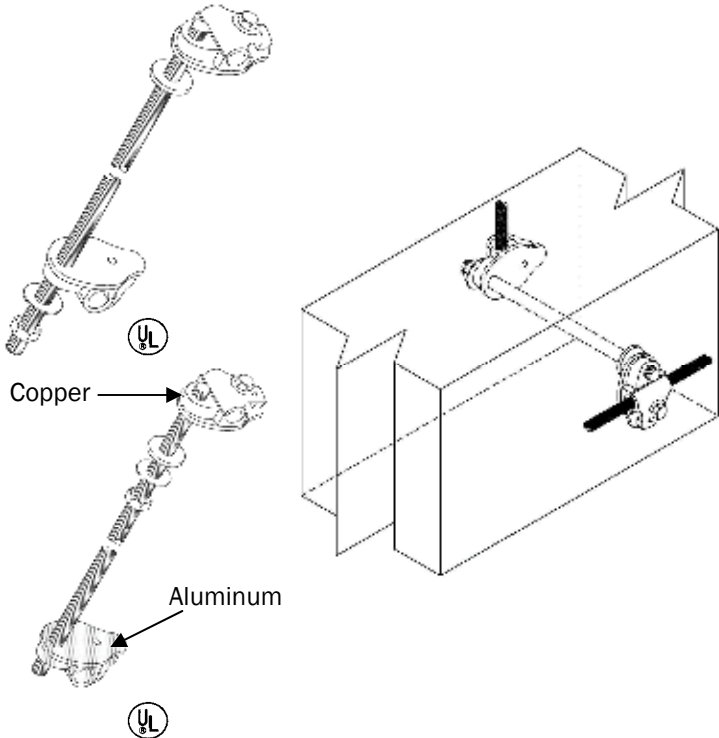
22	28S	32S	40	21	G3	A22	A28	A30
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**272X**

**Thru-Wall Connector**

Cast bronze assembly includes two bronze cable connectors, 1/2" x 12" threaded stainless steel rod, Neoprene® washer, hex nut and washer. Longer lengths of thread rod available upon request. Wt. 1.78 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A272X**

**Thru-Wall Connector**

Cast aluminum. Wt. .60 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**272X BM**

**Bi-Metal Thru-Wall Connector**

Assembly has cable connectors in bronze and aluminum. Wt. 1.20 lbs. each.

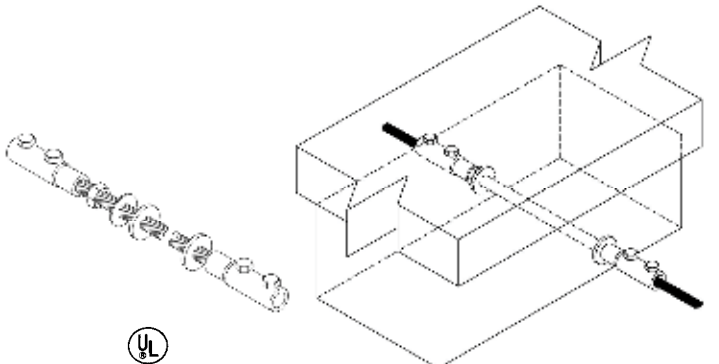
22	28S	32S	40	21	G3	A22	A28	A30
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**597**

**Straight Thru Wall Assembly**

Thru wall assembly consists of two Neoprene® washers, hex nut, washer, M597 cable connector on each end and 1/2" x 8" threaded stainless steel rod. Longer lengths of rod available upon request. Wt. 1.10 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A597**

**Straight Thru Wall Assembly**

Machined aluminum. Wt. .68 lbs. each.

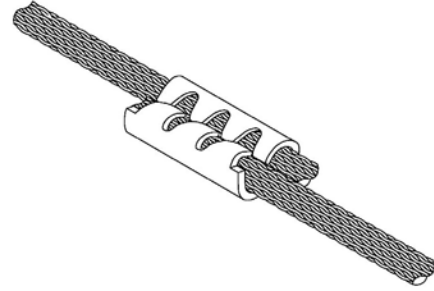
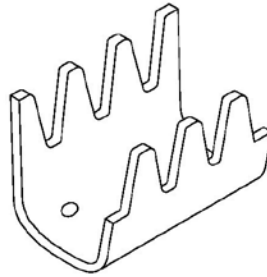
22	28S	32S	40	21	G3	A22	A28	A30
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**193S**

**Parallel Splicer**

Pressed copper crimp splicer 2" length.  
Wt. .12 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A193S**

**Parallel Splicer**

Pressed aluminum. Wt. .06 lbs. each.

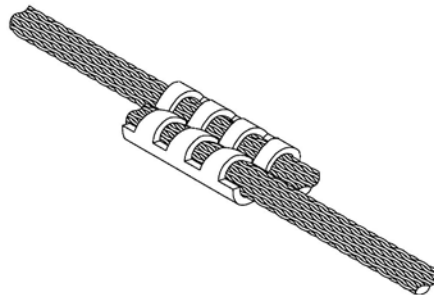
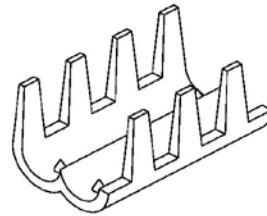
22	28S	32S	40	21	G3	A22	A28	A30
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**193A**

**Parallel Splicer**

Cast bronze crimp splicer 2" length.  
Wt. .16 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A193A**

**Parallel Splicer**

Cast aluminum. Wt. .06 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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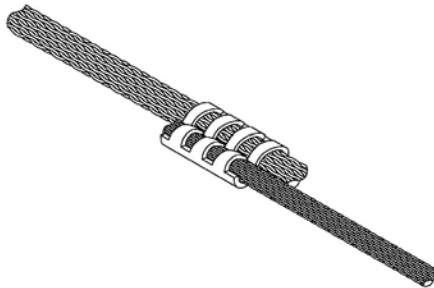
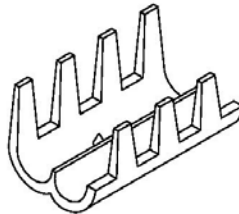


**193X**

**Parallel Splicer**

Cast bronze crimp splicer 2" length. For one main cable and one bonding cable.  
Wt. .08 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A193X**

**Parallel Splicer**

Cast aluminum. Wt. .06 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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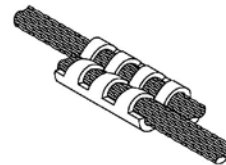
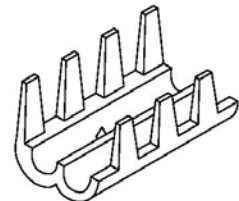


**193X22**

**Parallel Splicer**

Cast bronze crimp splicer 2" length. For use with two bonding cables. Wt. .10 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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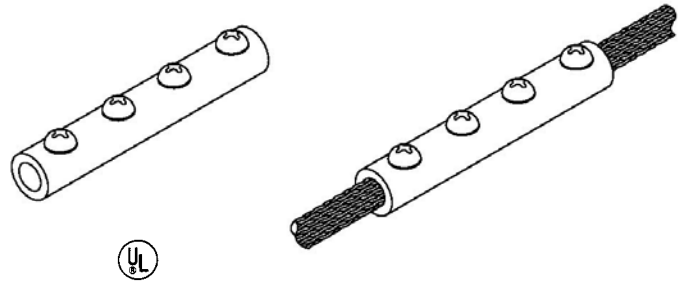


**M3X**

**Straight Splicer**

Machined brass compression splicer 2" length. Wt. .10 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**MA3X**

**Straight Splicer**

Machined aluminum. Wt. .04 lbs.

22	28S	32S	40	21	G3	A22	A28	A30
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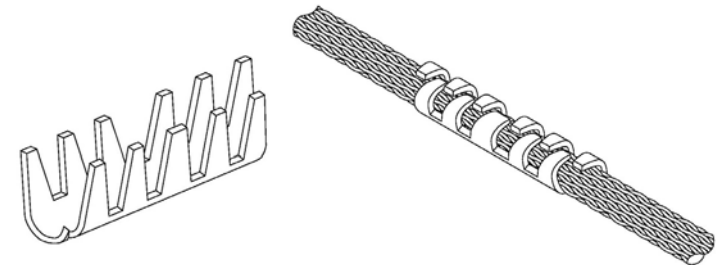


**33L**

**Straight Splicer**

Pressed copper crimp splicer 3-3/4" length. Wt. .10 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A33L**

**Straight Splicer**

Pressed aluminum. Wt. .04 lbs. each.

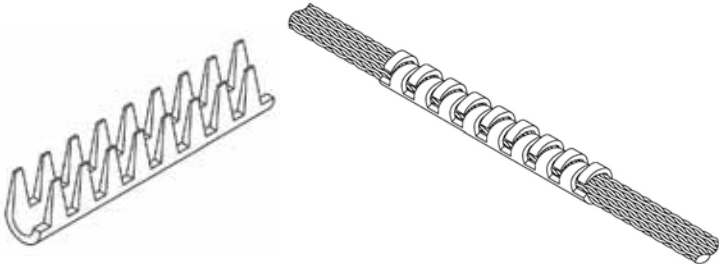
22	28S	32S	40	21	G3	A22	A28	A30
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**33X**

**Straight Splicer**

Cast bronze crimp splicer 4-1/2" length. Wt. .20 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A33X**

**Straight Splicer**

Cast aluminum. Wt. .08 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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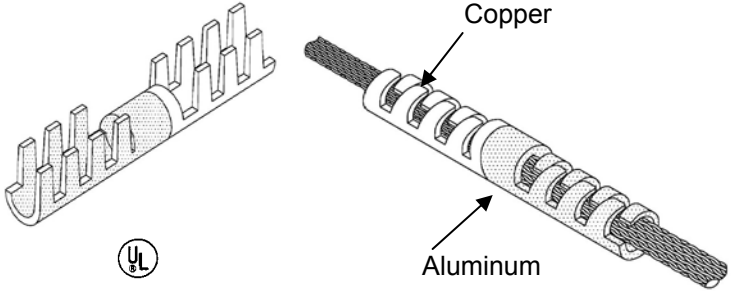


**A33D**

**Bimetal Straight Splicer**

Cast aluminum and bronze crimp splicer 5-1/2" length. Wt. .36 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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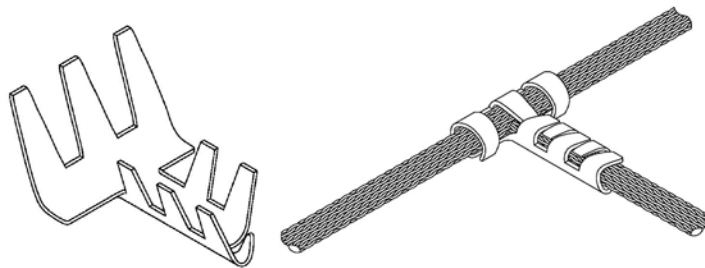


**34L**

**"T" Splicer**

Pressed copper crimp splicer.  
Wt. .12 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A34L**

**"T" Splicer**

Pressed aluminum. Wt. .04 lbs. each.

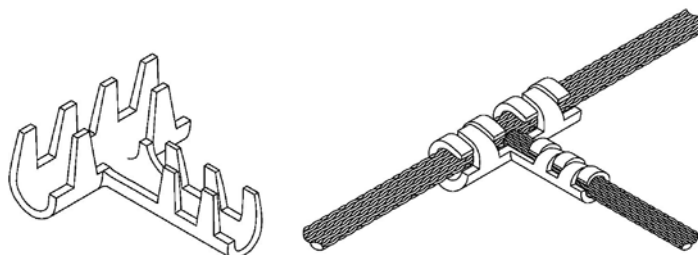
22	28S	32S	40	21	G3	A22	A28	A30
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**3**

**"T" Splicer**

Cast bronze crimp splicer. For one primary and secondary cable. Wt. .10 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A3**

**"T" Splicer**

Cast aluminum. Wt. .08 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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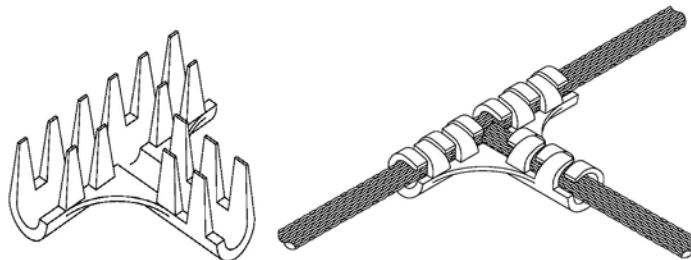


**262**

**"T" Splicer**

Cast bronze crimp splicer.  
Wt. .22 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A262**

**"T" Splicer**

Cast aluminum. Wt. .12 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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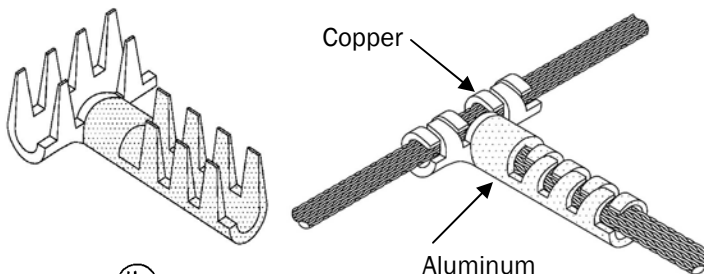


**A34B**

**Bimetal "T" Splicer**

Cast aluminum and bronze crimp splicer for use with copper and aluminum cable.  
Wt. .30 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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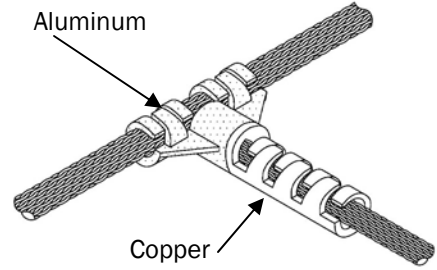
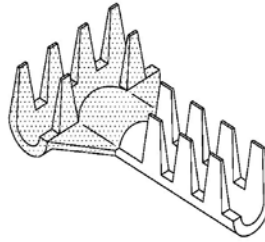


**A34A**

**Bimetal "T" Splicer**

Cast aluminum and bronze crimp splicer for use with copper and aluminum cables. Wt. .34 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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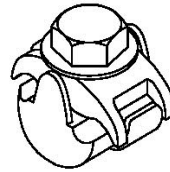


**297**

**Secondary Multi-Purpose Clamp**

Cast bronze crimp splicer. For one primary and one secondary cable. Wt. .22 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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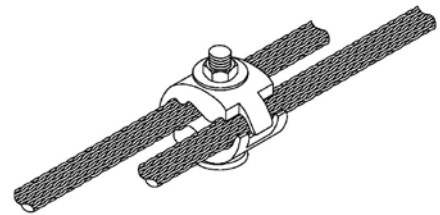
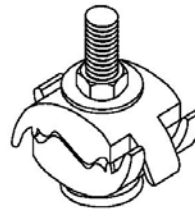


**A297**

**Secondary Multi-Purpose Clamp**

Cast aluminum. Wt. .08 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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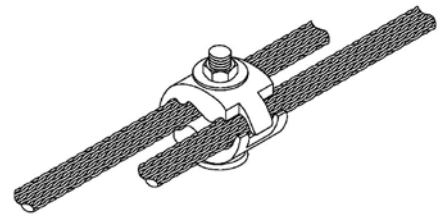
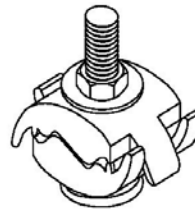


**25G**

**Secondary All Purpose Parallel Connector**

Cast bronze pressure style connector 1" length. For one primary and one secondary cable. Wt. .28 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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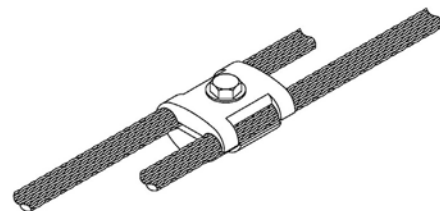
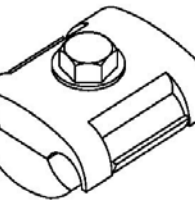


**A25G**

**Secondary All Purpose Parallel Connector**

Cast aluminum. Wt. .14 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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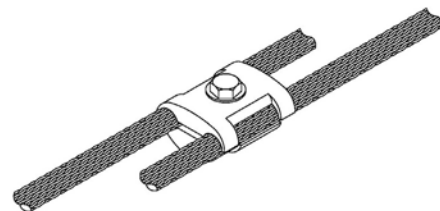
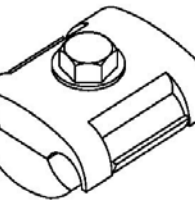


**297A**

**Large Parallel Multi-Purpose Clamp**

Cast bronze pressure style connector 2" length. Wt. is .38 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A297A**

**Large Parallel Multi-Purpose Clamp**

Cast aluminum. Wt. .14 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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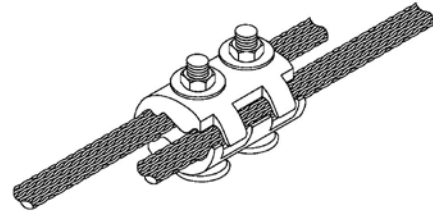
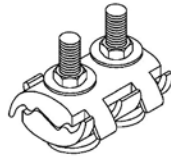


**G28**

**Parallel All Purpose Connector**

Cast bronze pressure style connector 2" in length. Wt. is .54 each.

22	28S	32S	40	21	G3	A22	A28	A30
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**AG28**

**Parallel All Purpose Connector**

Cast aluminum. Wt. .28 lbs. each.

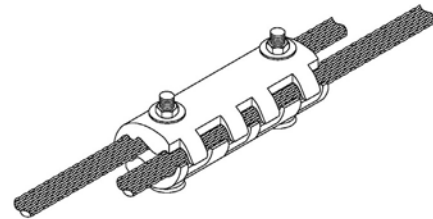
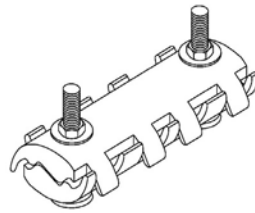
22	28S	32S	40	21	G3	A22	A28	A30
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**G27**

**Large Parallel All Purpose Connector**

Cast bronze pressure type connector 4" in length. Wt. .86 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**AG27**

**Large Parallel All Purpose Connector**

Cast aluminum. Wt. .34 lbs. each.

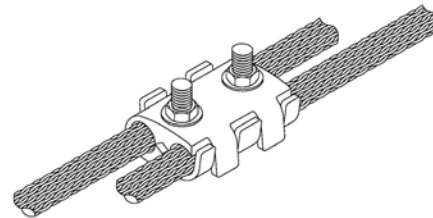
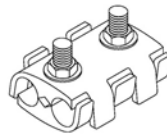
22	28S	32S	40	21	G3	A22	A28	A30
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**296**

**Heavy Duty Parallel All Purpose Connector**

Cast bronze pressure style connector 2-1/2" length. Wt. .80 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A296**

**Heavy Duty Parallel All Purpose Connector**

Cast aluminum. Wt. .38 lbs. each.

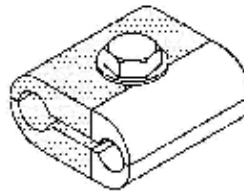
22	28S	32S	40	21	G3	A22	A28	A30
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**A41P**

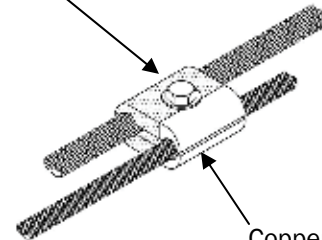
**Parallel Bimetal Connector**

Cast bronze and aluminum pressure style connector. Wt. .30 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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Aluminum



Copper



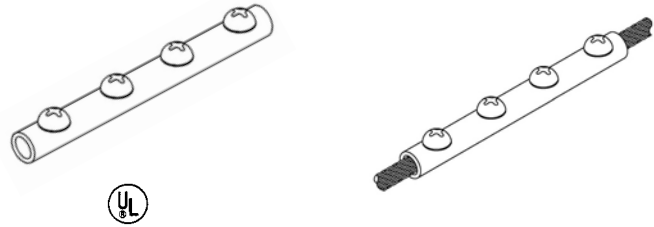


**290**

**Small Straight Bimetal Connector**

Machined stainless steel for use with secondary cable up to 11/32 (.343) diameter. Length is 4". Wt. .14 lbs. each.

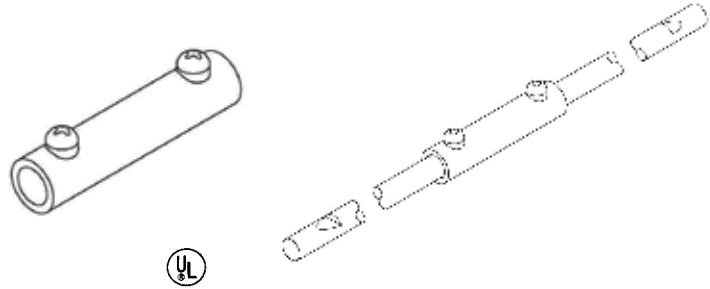
22	28S	32S	40	21	G3	A22	A28	A30
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**251**

**Notched Rod Connector**

Cast bronze for use with 3/8" notched rod. Part is tinned. Wt. .10 lbs. each.



**A251**

**Notched Rod Connector**

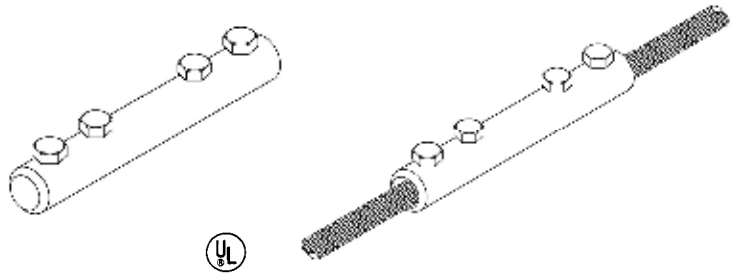
Cast aluminum. For 1/2" notched rod. Wt. .04 lbs. each.

**MG73**

**Heavy Duty Straight Cable Connector**

Machined brass bolt style part 4-7/8" length. Wt. .65 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**MAG73**

**Heavy Duty Straight Cable Connector**

Machined aluminum. Wt. .24 lbs. each.

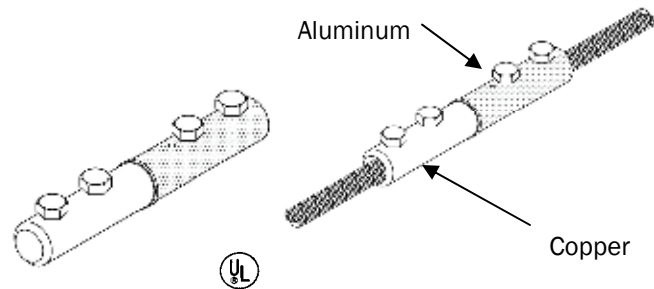
22	28S	32S	40	21	G3	A22	A28	A30
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**MA175**

**Bimetal Connector-Disconnecter**

Machined brass and aluminum part for use with copper and aluminum cables. Length is 5". Wt. .45 lbs. each.

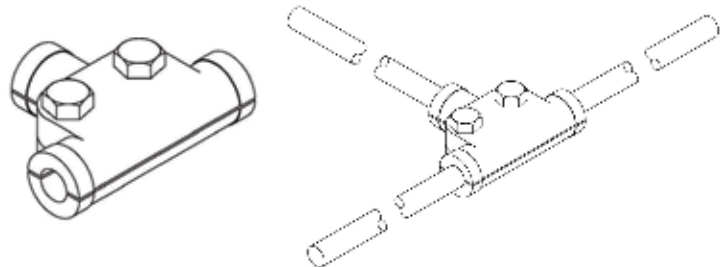
22	28S	32S	40	21	G3	A22	A28	A30
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**252**

**Notched Rod "T" Connector**

Cast bronze for use with 3/8" notched rod. Part is tinned. Wt. .34 lbs. each.



**A252**

**Notched Rod "T" Connector**

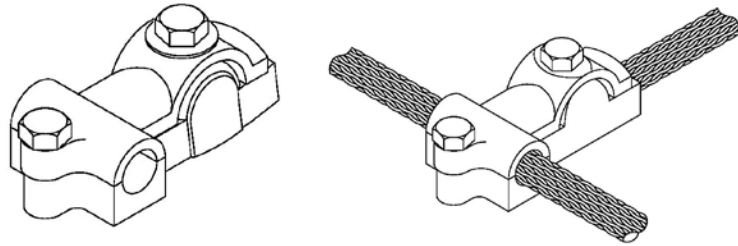
Cast aluminum for use with 1/2" notched rod. Wt. .18 lbs. each.

**304**

**"T" Connector**

Cast bronze pressure type "T" connector.  
Wt. .52 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A304**

**"T" Connector**

Cast aluminum. Wt. .18 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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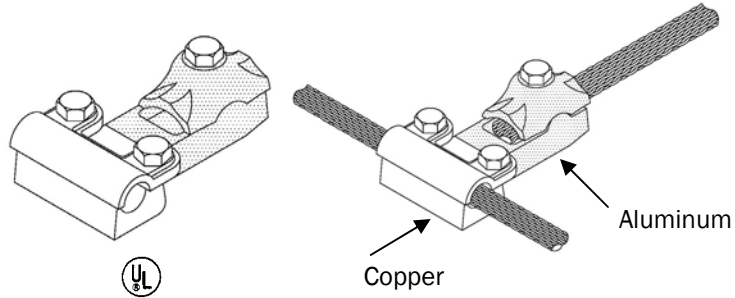


**A304B**

**Bimetal "T" Connector**

Cast bronze and aluminum pressure type "T" connector. Wt. .64 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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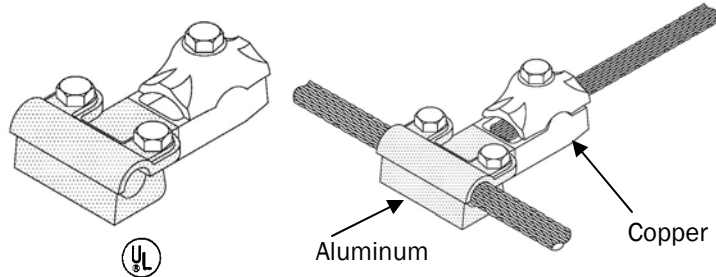


**A304A**

**Bimetal "T" Connector**

Cast bronze and aluminum pressure type "T" Connector. Wt. .64 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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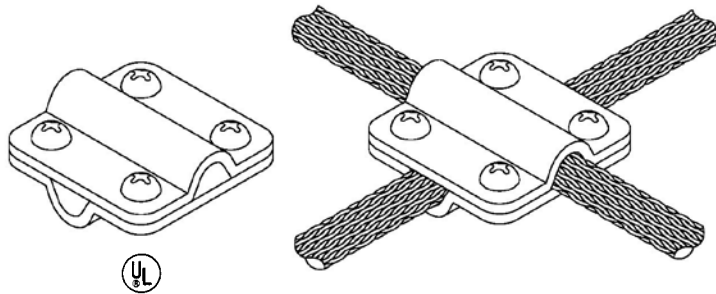


**119**

**Cross Run Connector**

Cast bronze pressure type connector for connecting two cables. Wt. .58 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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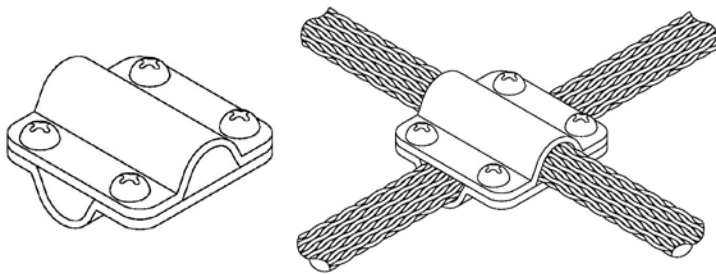


**119A**

**Cross Run Connector**

Cast bronze pressure type connector for connecting two larger cables up to 5/8" diameter. Wt. is .46 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A119A**

**Cross Run Connector**

Cast aluminum. Wt. .16 lbs. each.

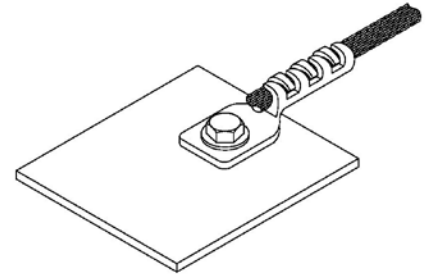
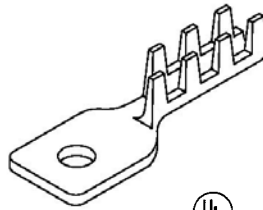
22	28S	32S	40	21	G3	A22	A28	A30
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**4**

**Small Metal Track Connector**

Cast bronze crimp splicer connector for smaller cable. Mounting hole is 5/16" diameter. Wt. .08 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A4**

**Small Metal Track Connector**

Cast aluminum. Wt. .04 lbs. each.

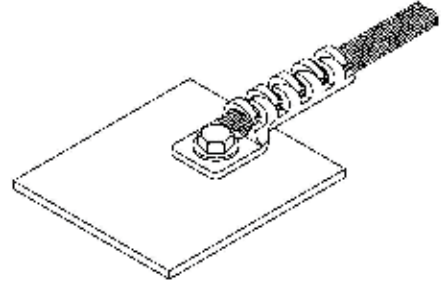
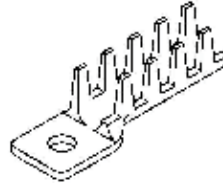
22	28S	32S	40	21	G3	A22	A28	A30
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**5**

**Large Metal Track Connector**

Cast bronze crimp splicer connector for standard cable. Mounting hole is 5/16" diameter. Wt. .14 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A5**

**Large Metal Track Connector**

Cast aluminum. Wt. .08 lbs. each.

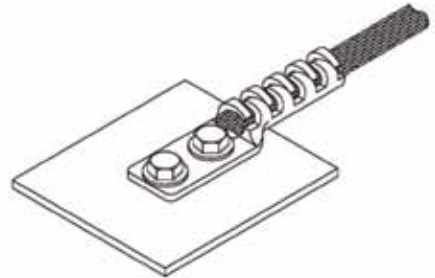
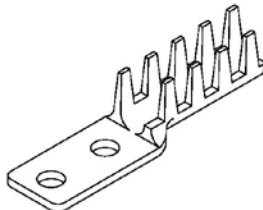
22	28S	32S	40	21	G3	A22	A28	A30
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**219**

**Two Hole Track Connector**

Cast bronze crimp splicer connector for standard size cable. Wt. .18 lb. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A219**

**Two Hole Track Connector**

Cast aluminum. Wt. .06 lbs. each.

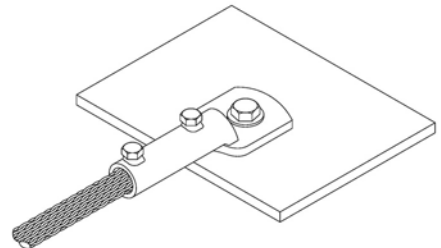
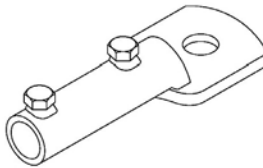
22	28S	32S	40	21	G3	A22	A28	A30
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**596A**

**Heavy Duty Bus Terminal**

Cast bronze has 3 square inches of surface contact for connecting larger cables to larger metal bodies. Mounting hole is 1/2" diameter. Wt. .68 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A596A**

**Heavy Duty Bus Terminal**

Cast aluminum. Wt. .24 lbs. each.

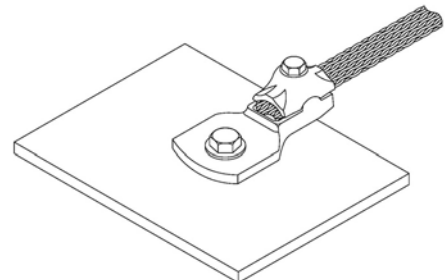
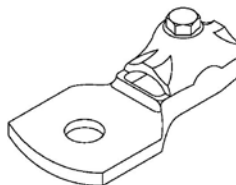
22	28S	32S	40	21	G3	A22	A28	A30
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**596**

**Bus Terminal**

Cast bronze with 4-1/2 square inches of contact for standard cable. Mounting hole is 1/2" diameter. Wt. .54 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A596**

**Bus Terminal**

Cast aluminum. Wt. .18 lbs. each.

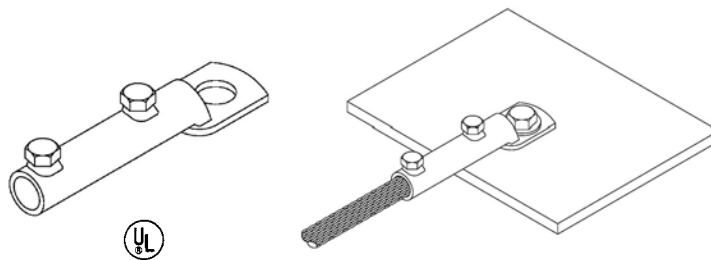
22	28S	32S	40	21	G3	A22	A28	A30
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**G67**

**Bus Terminal**

Cast bronze used for connecting standard cable. Mounting hole is 1/2" diameter. Wt. .28 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**AG67**

**Heavy Duty Bus Terminal**

Cast aluminum. Wt. .12 lbs. each.

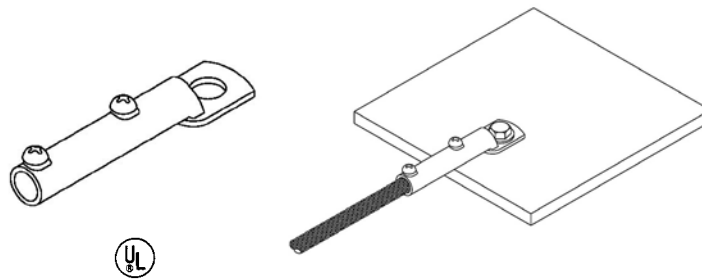
22	28S	32S	40	21	G3	A22	A28	A30
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**G68**

**Small Bus Terminal**

Cast bronze bonding lug for smaller bonding cable. Mounting hole is 5/16" diameter. Wt. .14 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**AG68**

**Small Bus Terminal**

Cast aluminum. Wt. .06 lbs. each.

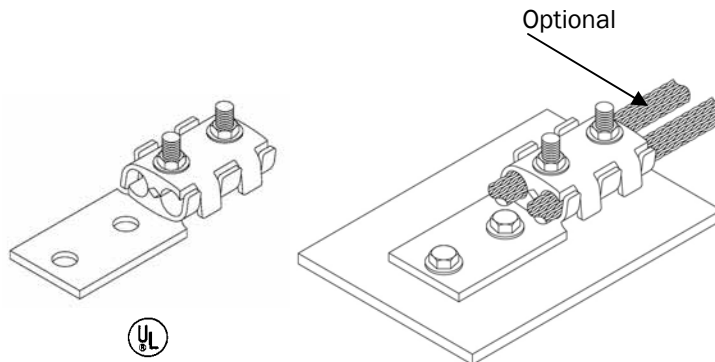
22	28S	32S	40	21	G3	A22	A28	A30
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**347**

**Heavy Duty Bus Terminal**

Cast bronze bus terminal with 6 square inches of surface contact for two cables up to 5/8" diameter. Mounting hole is 1/2" diameter. Wt. 1.12 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A347**

**Heavy Duty Bus Terminal**

Cast aluminum. Wt. .46 lbs. each.

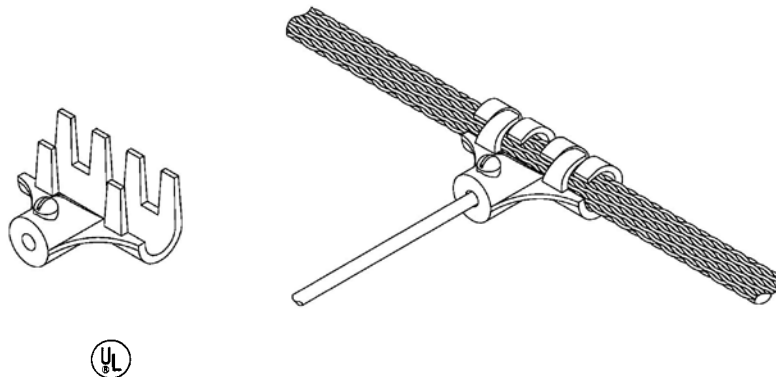
22	28S	32S	40	21	G3	A22	A28	A30
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**305**

**"T" Connector**

Cast crimp cable connector for use with solid number 6 electrical wire. Wt. .14 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A305**

**"T" Connector**

Cast aluminum. Wt. .04 lbs. each.

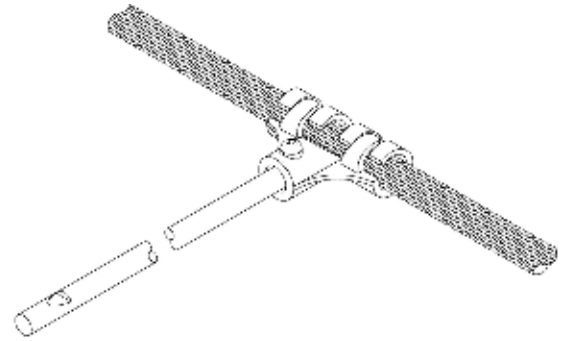
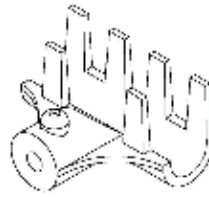
22	28S	32S	40	21	G3	A22	A28	A30
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**270**

**"T" Connector**

Cast bronze part for use with plain 3/8" rod and crimp type connector for standard cable. Wt. .12 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**270A**

**"T" Connector**

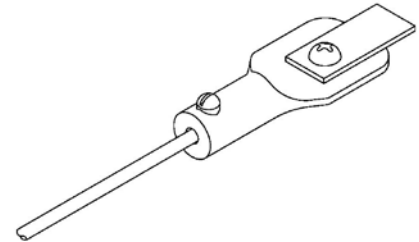
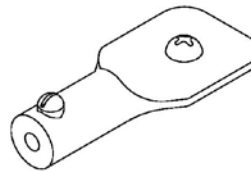
Same description as above except for 3/8" threaded rod. Wt. .12 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**305X**

**Straight Bond Connector**

Cast bronze cable connector for solid number 6 electrical wire for bonding to flat metal surface. Wt. .14 lbs. each.



**A305X**

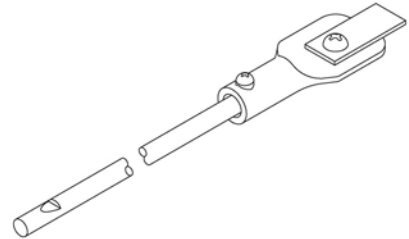
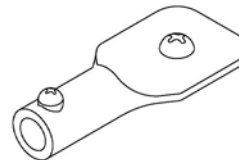
**Straight Bond Connector**

Cast aluminum. Wt. .04 lbs. each.

**258**

**Chimney Connector**

Cast bronze connector for use with 3/8" rod and 1" flat strip. Wt. .12 lbs. each.

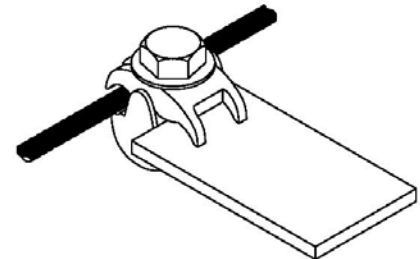


**298**

**Cable Connector to Flat Steel**

Cast bronze pressure type connector for bonding cables only. Wt. .18 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A298**

**Cable Connector to Flat Steel**

Cast aluminum. Wt. .08 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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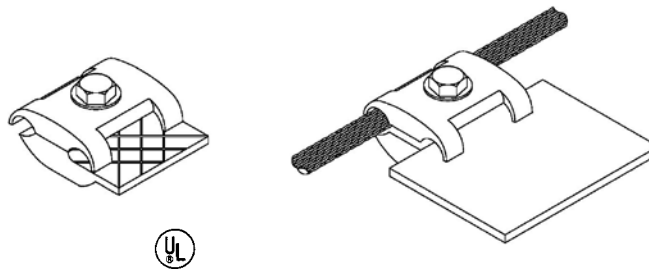


**298A**

**Large Cable Connector to Flat Steel**

Cast bronze pressure type connector for standard size cable. Wt. .40 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A298A**

**Large Cable Connector to Flat Steel**

Cast aluminum. Wt. .16 lbs. each.

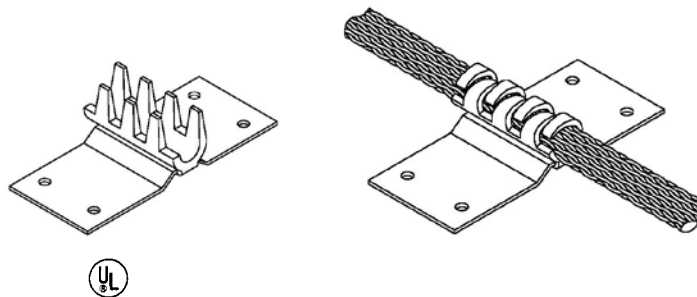
22	28S	32S	40	21	G3	A22	A28	A30
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**120**

**Bonding Connector**

Cast bronze crimp and pressed copper splicer for standard cable bonds to metallic surfaces. Part is tinned. Wt. .22 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A120**

**Bonding Connector**

Cast and pressed aluminum. Wt. .10 lbs. each.

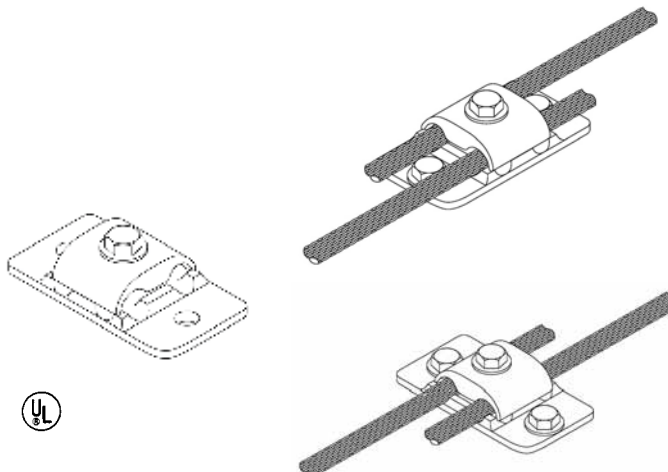
22	28S	32S	40	21	G3	A22	A28	A30
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**238B**

**Bonding Connector Plate**

Cast bronze plate with pressure type universal style cable fastener. Bonding area is 8 square inches. Mounting holes are 5/16" diameter and are 3" center hole spacing. Wt. .66 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A238B**

**Bonding Connector Plate**

Aluminum. Wt. .22 lbs. each.

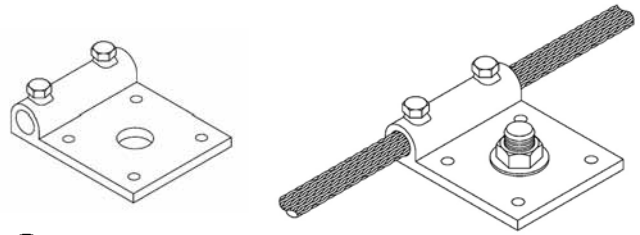
22	28S	32S	40	21	G3	A22	A28	A30
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**238**

**Heavy Duty Bonding Plate**

Cast bronze plate with 8 square inches of bonding area and mounting hole is 3/4" diameter. Wt. .78 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A238**

**Heavy Duty Bonding Plate**

Cast aluminum. Wt. .26 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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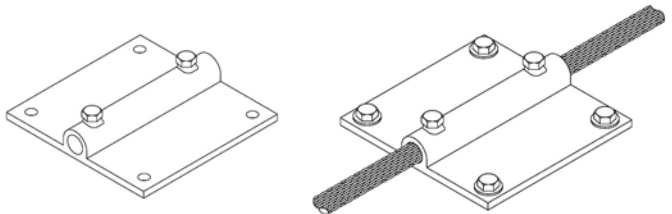
**40**

**G89**

**Heavy Duty Bonding Plate**

Cast bronze plate and size is 4" x 4" x 3/16" affording 16 square inches of bonding area. Wt. 1.20 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**AG89**

**Heavy Duty Bonding Plate**

Cast aluminum. Wt. .40 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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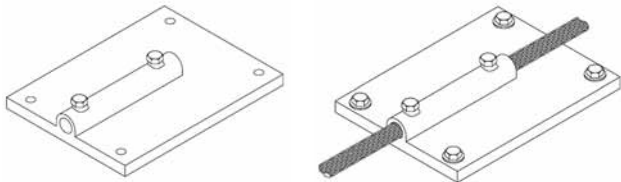


**G88**

**Extra Heavy Duty Bonding Plate**

Cast bronze plate and size is 6" x 4 - 7/16" x 3/16" with over 26 square inches of bonding area. Wt. 3.40 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**AG88**

**Extra Heavy Duty Bonding Plate**

Cast aluminum. Wt. 1.20 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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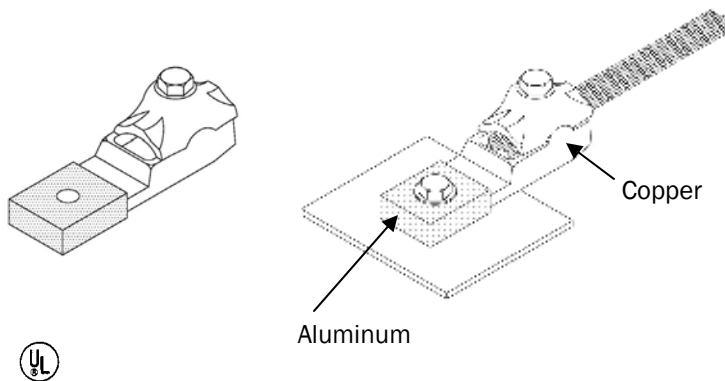


**A183X**

**Bimetal Connector**

Cast bronze and aluminum. For connecting copper cable to aluminum surfaces. Mounting hole is 5/16" diameter. Wt. .48 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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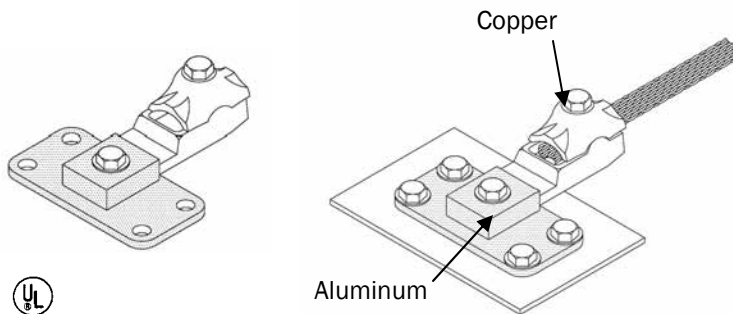
41

**A183**

**Bimetal Bonding Plate**

Cast aluminum and bronze for connecting copper cable to structural beams. Part provides 8 square inches of bonding area. Mounting holes are 5/16" diameter. Wt. .60 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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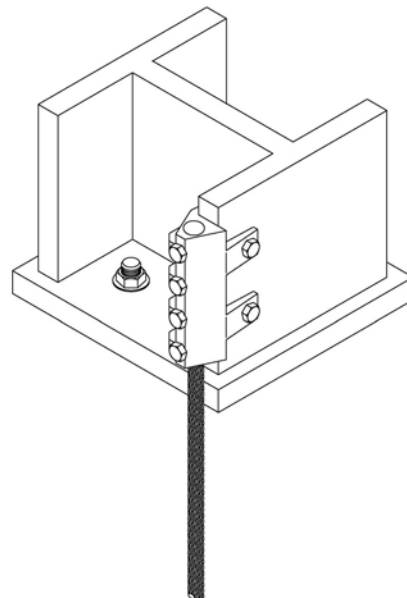
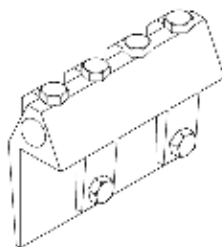


**235X**

**Heavy Duty Beam Connector**

Cast bronze part provides 8 square inches of bonding area. For cables as shown and for use with steel plates up to 3/4" thick. Wt. 1.58 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A235X**

**Heavy Duty Beam Connector**

Aluminum. Wt. .58 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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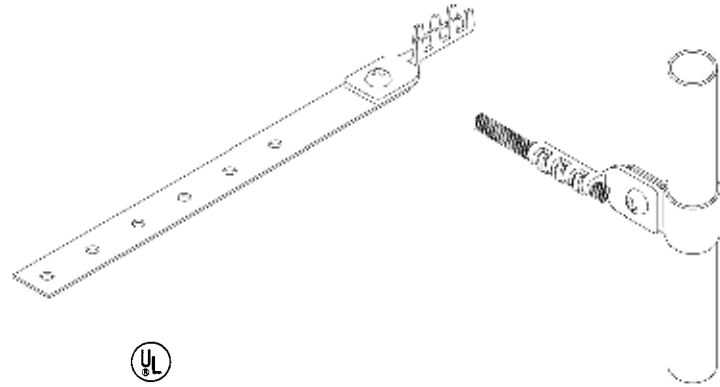


**214**

**Band Style Bonding Strap**

Cast bronze crimp style fitting (IP-4) with 8" of 1" wide copper strip (IP-49) for bonding to metal bodies up to 2" diameter. Longer lengths available upon request. Wt. .22 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A214**

**Band Style Bonding Strap**

Cast aluminum fitting with IP-A49 aluminum strip. Wt. .08 lbs. each.

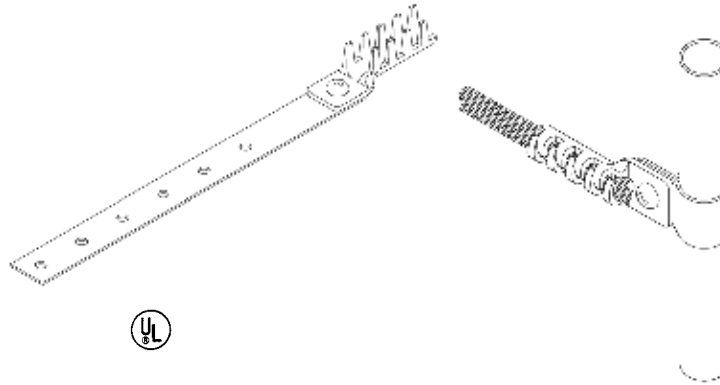
22	28S	32S	40	21	G3	A22	A28	A30
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**215**

**Band Style Bonding Strap**

Cast bronze crimp style fitting IP-5 with 8" of 1" wide copper strip (IP-49) for bonding to metal bodies up to 2" diameter. Longer lengths available upon request. Wt. .28 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A215**

**Band Style Bonding Strap**

Cast aluminum fitting with IP-A49 aluminum strip. Wt. .14 lbs. each.

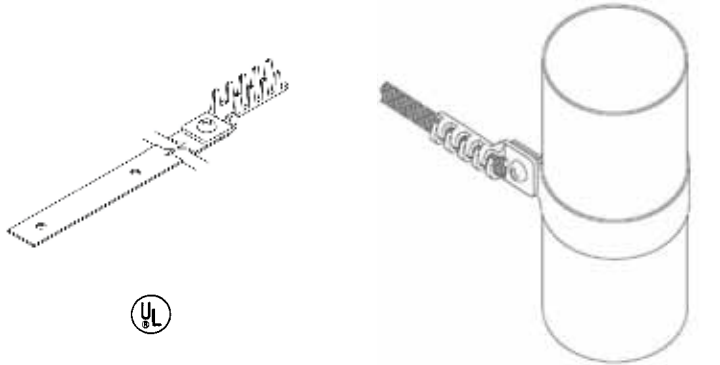
22	28S	32S	40	21	G3	A22	A28	A30
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**118**

**Vent Pipe Bonding Strap**

Cast bronze crimp style fitting IP-5 with 15" length of tinned IP-49X copper strip for bonding to metal bodies up to 4" diameter. Longer lengths available upon request. Wt. .42 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A118**

**Vent Pipe Bonding Strap**

Cast aluminum fitting with IP-A49 aluminum strip. Wt. .20 lbs. each.

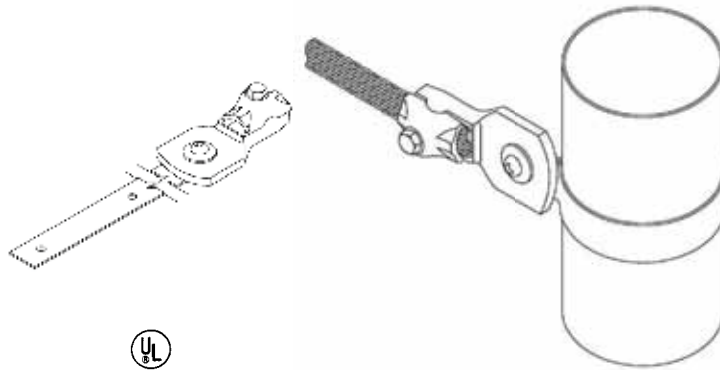
22	28S	32S	40	21	G3	A22	A28	A30
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**118X**

**Vent Pipe Bonding Strap**

Cast pressure type fitting IP-596 with 15" of tinned IP-49X copper strip for bonding to metal bodies up to 4" diameter. Longer lengths available upon request. Wt. .80 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A118X**

**Vent Pipe Bonding Strap**

Cast aluminum fitting with IP-A49 aluminum strip. Wt. .30 lbs. each.

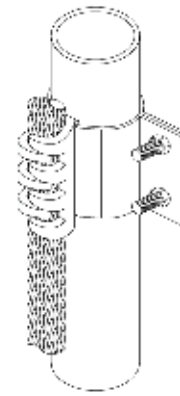
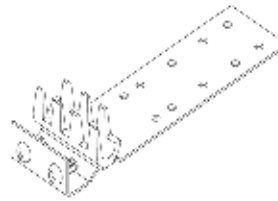
22	28S	32S	40	21	G3	A22	A28	A30
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**12**

**Bonding Strap Fastener**

Crimp fitting with IP-49Y bonding strap for bonding pipes up to 1-1/2" diameter. Fitting and strap are tinned. Wt. .42 lbs. each.

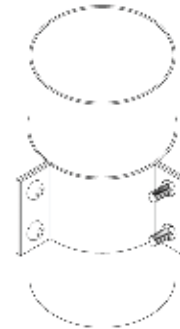
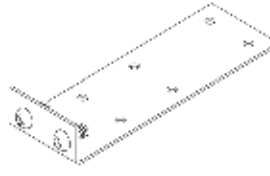
22	28S	32S	40	21	G3	A22	A28	A30
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**13**

**Bonding Strap Extension**

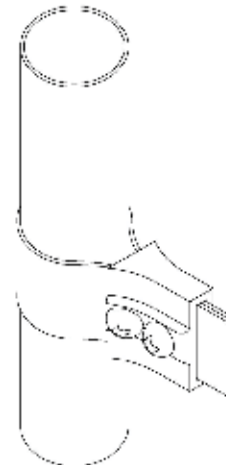
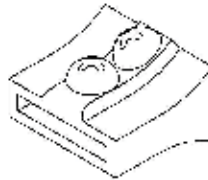
For use with IP-12, shown above, for pipes up to 3" diameter. Fitting and strap are tinned. Wt. .26 lbs. each.



**307X**

**Adjustable Strap Fastener**

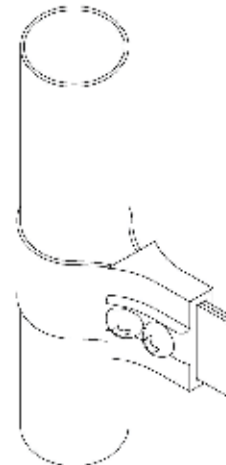
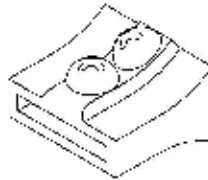
Cast bronze connector is used with IP-49, 1" wide copper strip. Wt. .14 lbs. each.



**A307X**

**Adjustable Strap Fastener**

Cast aluminum. For use with IP-A49, 1" wide aluminum strip. Wt. .06 lbs. each.

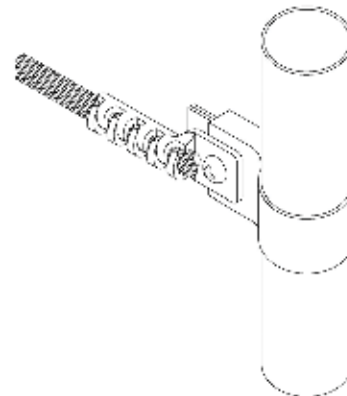
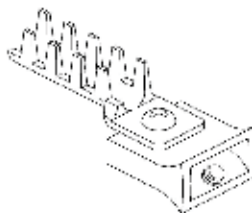


**308**

**Bonding Connector**

Cast bronze crimp connector for standard cables and used with IP-49, 1" wide copper strip. Wt. .28 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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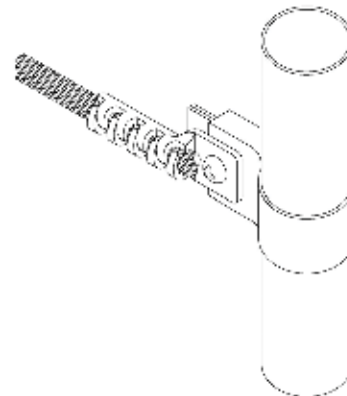
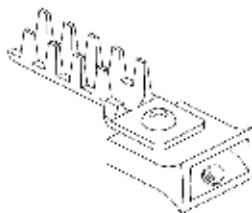


**A308**

**Bonding Connector**

Cast aluminum. For use with IP-A49, 1" wide aluminum strip. Wt. .14 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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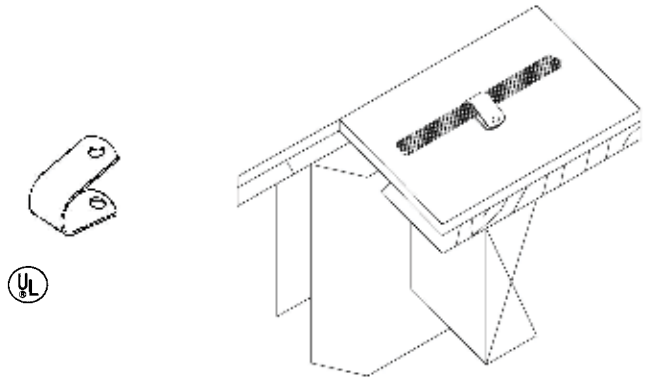


**83**

**One Nail Clip Fastener**

Pressed copper loop for standard size cables. Wt. .01 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A83**

**One Nail Clip Fastener**

Pressed aluminum. Wt. .006 lbs. each.

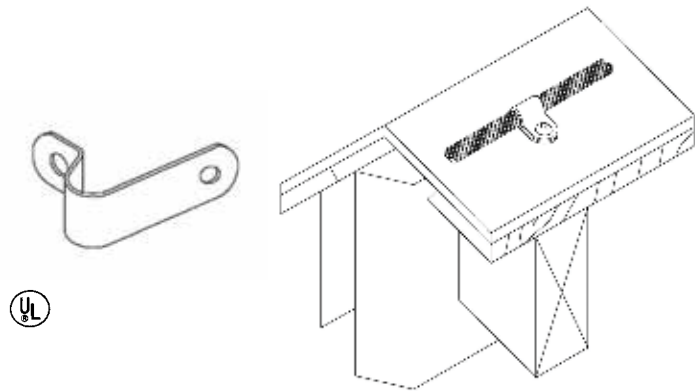
22	28S	32S	40	21	G3	A22	A28	A30
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**121A**

**Loop Fastener**

Pressed copper loop for standard size cables. Mounting hole is 1/4" diameter. Wt. .02 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A121A**

**Loop Fastener**

Pressed aluminum. Wt. .01 lbs. each.

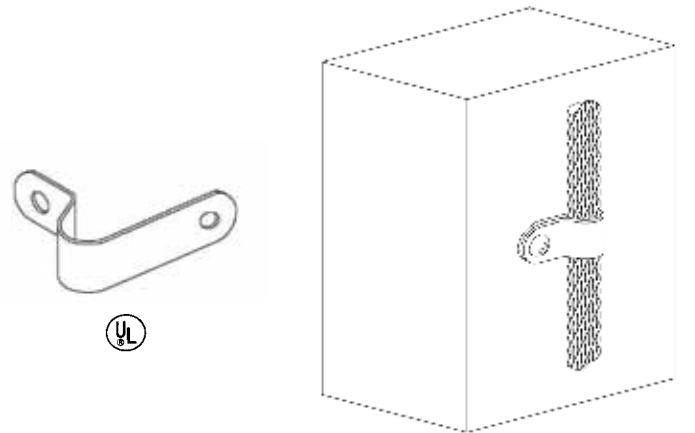
22	28S	32S	40	21	G3	A22	A28	A30
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**121C**

**Large Loop Fastener**

Pressed copper loop for 4/0 cable. Mounting hole is 1/4" diameter. Wt. .04 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A121C**

**Large Loop Fastener**

Pressed aluminum. Wt. .01 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**121SS**

**Standing Seam Loop Fastener**

Cast bronze base with loop style fastener. Cable runs can be run parallel or perpendicular to the seams. For seams up to 13/16" wide. Wt. .18 lbs each.

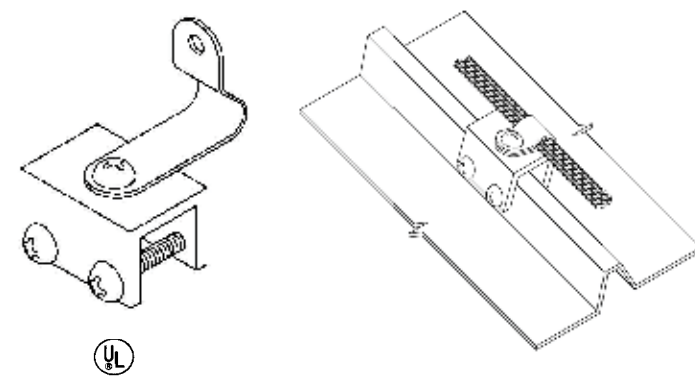
22	28S	32S	40	21	G3	A22	A28	A30
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**A121SS**

**Standing Seam Loop Fastener**

Machined aluminum for seams up to 7/8" wide. Wt. .14 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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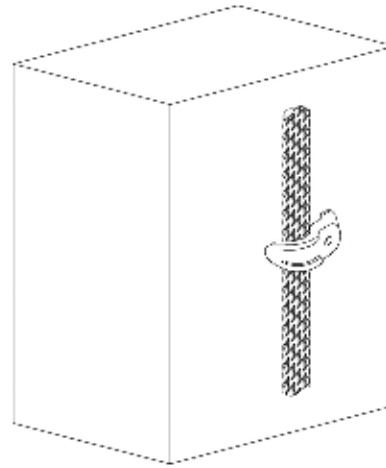


**84**

**One-Hole Fastener**

Cast bronze fastener for installation mounting with nail. Wt. .04 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A84**

**One-Hole Fastener**

Cast aluminum. Wt. .01 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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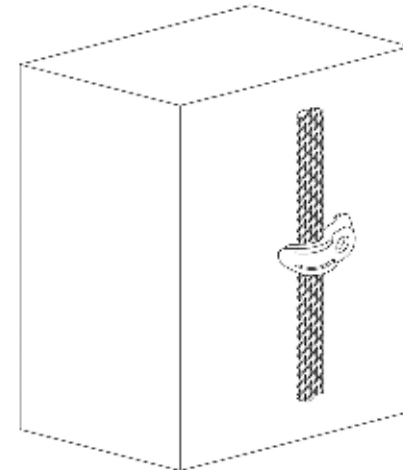


**84B**

**Large One-Hole Fastener**

Cast bronze fastener has 1/4" diameter hole for mounting with screw. Wt. .04 lbs.

22	28S	32S	40	21	G3	A22	A28	A30
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**A84B**

**Large One-Hole Fastener**

Cast aluminum. Wt. .01 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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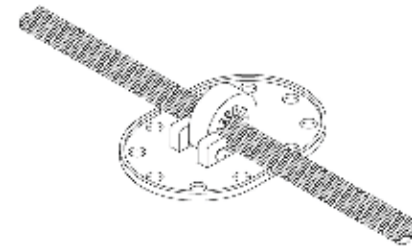


**265P**

**Poly Adhesive Cable Fastener**

Superior polycarbonate plastic adhesive cable holder. Part is 2-3/8" wide x 3-1/4" long. Extremely durable, part is fully tested and approved by UL including temperature and impact tests. Wt. .04 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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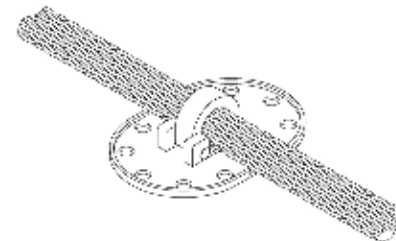


**A265P**

**Poly Adhesive Cable Fastener**

Superior polycarbonate plastic adhesive cable holder. Part is 2-3/8" wide x 3-1/4" long. Extremely durable, part is fully approved by UL including temperature and impact tests. Smooth ID for use with larger cables. Wt. .04 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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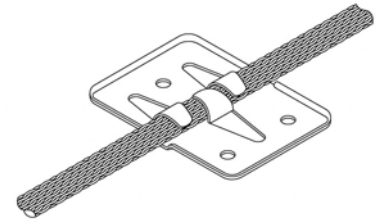


**265A**

**Adhesive Cable Holder**

Pressed copper adhesive cable holder is 2" in length. Wt. .04 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A265A**

**Adhesive Cable Holder**

Aluminum. Wt. .016 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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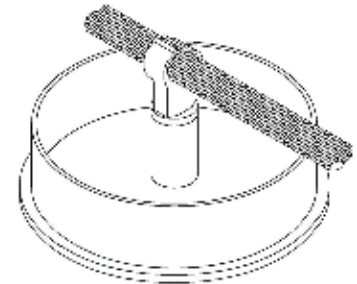
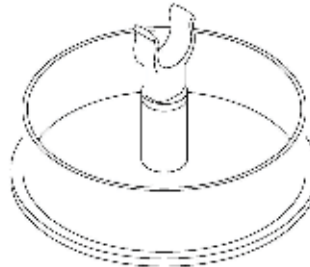


**266**

**No Nail Pan Style Cable Fastener**

Cast bronze fastener with crimp type connector is filled with stone or chips and adhered to roof with adhesive. Outer diameter is 4". Wt. .98 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A266**

**No Nail Pan Style Cable Fastener**

Cast aluminum. Wt. .30 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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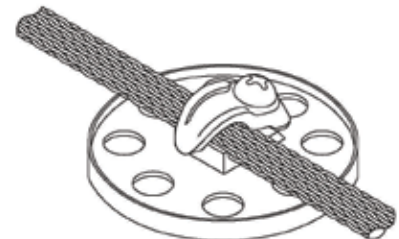
Note: 266/A266 may require an extended lead time.

**267**

**Paste Down Cable Fastener**

Cast bronze with clamp style fastener is 3" in diameter. Wt. .32 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A267**

**Paste Down Cable Fastener**

Cast aluminum. Wt. .10 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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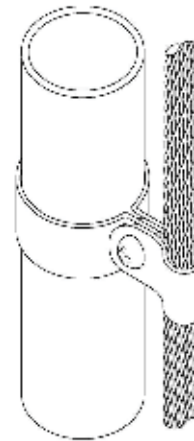


**181C**

**Railing Bracket Clamp**

Fastener clamp will fit railings up to 1-3/4" diameter. Fastener clamps for larger diameters available upon request. Wt. .12 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A181C**

**Railing Bracket Clamp**

Pressed aluminum. Wt. .06 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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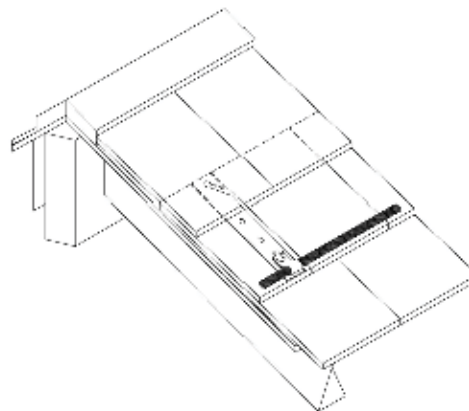


**268**

**Slate Roof Cable Fastener**

Fastener clamp is for installation onto slate roofs for cable that runs parallel or perpendicular. Overall 7" Length is adjustable, slips under shingle and hooks around nail. Wt. .15 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A268**

**Slate Roof Cable Fastener**

Pressed aluminum. Wt. .06 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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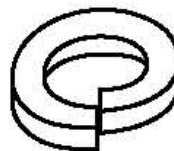


**Lock Washers**

148L - 1/4" - Wt. .002 lbs. each.

148AL - 5/16" - Wt. .002 lbs. each.

148BL - 3/8" - Wt. .006 lbs. each.



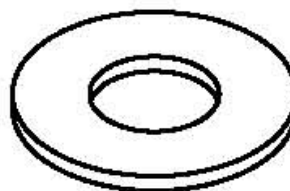
**Flat Washers**

249L - 1/4" - Wt. .002 lbs. each.

249AL - 5/16" - Wt. .004 lbs. each.

249BL - 3/8" - Wt. .006 lbs. each

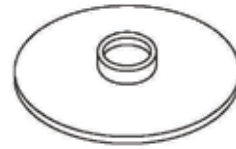
249CL - 1/2" - Wt. .016 lbs. each.



**Lead Washers**

**301B - 1-1/4" OD Washer**

Washer for use with either 3/8" or 1/2" stems. Wt. .062 lbs. each.



**188 - 5/8" OD Washer**

Washer for use with nails or screws. Wt. .014 lbs. each.



**Neoprene® Rubber Washers**

**247 - 1/4" ID x 9/16" OD**

Wt. .0013 lbs. each.



**247A - 3/8" ID x 1-1/4" OD**

Wt. .0075 lbs. each.

48

**Nails**

**143 - Copper 4 Penny nail, 1-1/2" length.**

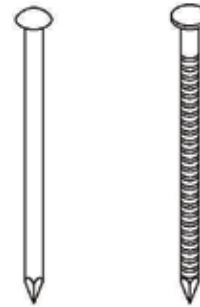
Wt. .006 lbs. each.

**144 - Copper 6 Penny nail, 2" length.**

Wt. .008 lbs. each.

**143L - Stainless Steel Ring Shank 4 Penny nail, 1-1/2" length. Wt. .004 lbs. each**

**144L - Stainless Steel Ring Shank 6 Penny nail, 2" length. Wt. .006 lbs. each.**



**Phillips Head Screw**

**125 - #12 - 3/4" length.**

Wt. .006 lbs. each.



**Phillips Head Screws**

**224 - #12 - 1" length - Wt. .01 lbs. each.**

**225 - #12 - 1-1/2" length - Wt. .012 lbs. each.**



**Tek Screws**

**125T** - #10-14 x 1" length – Self-tapping.  
Wt. .008 lbs. each.

**125T12** - #12-14 x 1-1/4" Length  
self-tapping. Wt. .011 lbs. each.



**Hex Head Bolts**

**302L** – 5/16"-18 x 3/4" length.  
Wt. .024 lbs. each.

**302AL** – 3/8"-16 x 1" length.  
Wt. .040 lbs. each.



**Nuts**

**128L** – 1/4"-20. Wt. .006 lbs. each.

**128AL** - 5/16"-18. Wt. .008 lbs. each.

**128BL** – 3/8"-16. Wt. .010 lbs. each.

**128CL** – 1/2"-13. Wt. .026 lbs. each.

**128DL** - 5/8" - 11. Wt. .07 lbs. each.



**Phillips Head Machine Screws**

**130L** – 1/4" -20 x 1/2" length.  
Wt. .010 lbs. each.

**131L** – 1/4"-20 x 3/4" length.  
Wt. .012 lbs. each.

**132L** – 1/2"-20 x 1" length.  
Wt. .016 lbs. each.

**133L** – 1/4"-20 x 1-1/2" length.  
Wt. .020 lbs. each.



**123**

**Loop Fastener With Lead Anchor**

Assembly includes an IP-121A cooper loop fastener and a 1/4" lead anchor.  
Wt. .08 lbs. each.

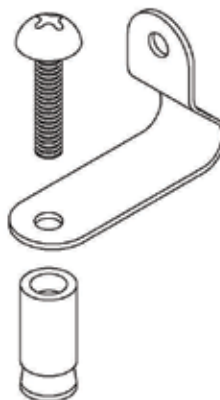
22	28S	32S	40	21	G3	A22	A28	A30
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**A123**

**Loop Fastener With Lead Anchor**

Aluminum. As above with IP-A121A aluminum loop fastener. Wt. .07 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**124**

**Loop Fastener With Expansion Anchor**

Assembly includes an IP-121A copper loop fastener and a 1/4" expansion anchor. Wt. .08 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A124**

**Loop Fastener With Expansion Anchor**

Aluminum. As above with IP-A121A aluminum loop fastener. Wt. .05 lbs. each.

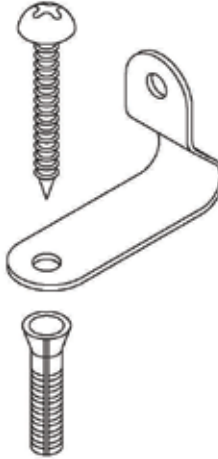
22	28S	32S	40	21	G3	A22	A28	A30
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**G64**

**Loop Fastener With Lead Anchor**

Assembly includes 1" SS wood screw, IP-121A copper loop fastener and lead anchor. Wt. .046 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**AG64**

**Loop Fastener With Lead Anchor**

Aluminum. As above with IP-A121A aluminum loop fastener. Wt. .036 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**292**

**Expansion Anchor and Screw**

Cast bronze clamp with anchor and screw. Wt. .08 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A292**

**Expansion Anchor and Screw**

Cast aluminum. Wt. .06 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**293**

**Lead Anchor and Screw**

Cast bronze with lead anchor and screw. Wt. .08 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A293**

**Lead Anchor and Screw**

Cast aluminum. Wt. .06 lbs. each.

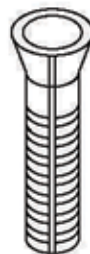
22	28S	32S	40	21	G3	A22	A28	A30
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**Lead Anchor Screw-In**

**For Wood Applications**

**295B** - For #12 Size Screw (IP-224), 1" length. Drill size 5/16". Wt. .02 lbs. each.

**295C** - For #12 Size Screw (IP-225), 1-1/2" length. Drill size 5/16". Wt. .02 lbs. each.



**Expansion Anchors**

**For Wood Applications**

**294** - 1/4"-20, 1-1/4" length. Drill size 1/2". Wt. .02 lbs. each.

**294A** - 5/16"-18, 1-1/2" length. Drill size 9/16". Wt. .04 lbs. each.

**561** - 3/8"-16, 2" length. Drill size 3/4". Wt. .04 lbs each.



**Lead Anchors**

**For Masonry Applications**

**295** - 1/4"-20, 3/4" length. Drill size 1/2". Wt. .04 lbs. each.

**295A** - 5/16"-18, 1" length. Drill size 5/8". Wt. .06 lbs. each.

**562** - 3/8"-16, 1-1/4" length. Drill size 3/4". Wt. .10 lbs. each.

**564** - 1/2"-13, 1-1/2" length. Drill size 7/8". Wt. .16 lbs. each.



**HD1412S**

**Hammer Drive Anchor**

Stainless steel drive nail anchor, 1/4" diameter x 1-1/4" length. Wt. .02 lbs. each.



**172XP-M1**

**M-1 Structural Adhesive**

Pint size cartridge. Color is gray. Wt. 10.5 Ounces



**172XQ**

**PL Premium Construction Adhesive**

Larger quart size cartridge. Color is tan. Wt. 28 Ounces

We have adhesives for general purpose, metal, masonry, and wood frame applications. We strongly recommend that contractors verify in advance with roofing contractor or manufacture prior to installation of any components.

**Ground Rods—Copperclad**

<b>Part#</b>	<b>Specs</b>	<b>Wt.</b>
137	1/2" x 8'	5.52
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**

<b>Part#</b>	<b>Specs</b>	<b>Wt.</b>
138L	1/2" x 10'	6.80
577L	5/8" x 10'	10.50
579L	3/4" x 10'	15.30

\*  
\*  
\*

\* Special Order Items—Extended Delivery



50A



51A



52A



**Ground Rod Clamps**

Cast bronze clamp with two stainless steel bolts.

**50A** - 1/2" Clamp. Wt. .36 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**51A** - 5/8" Clamp. Wt. .42 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**52A** - 3/4" Clamp. Wt. .52 lbs. each

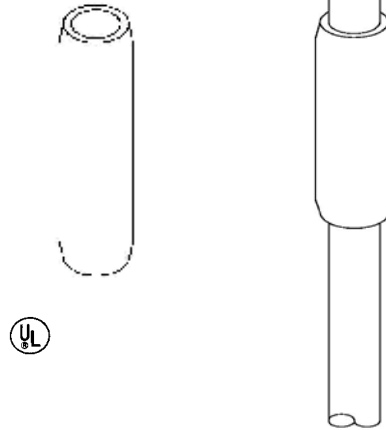
22	28S	32S	40	21	G3	A22	A28	A30
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**Compression Ground Rod Couplers**

<b>Part#</b>	<b>Specs</b>	<b>Wt.</b>
141CC	1/2" Coupler	.32
141XC	5/8" Coupler	.32
141YC	3/4" Coupler	.32

We offer 3" length compression couplers for applications that require multiple ground rods.



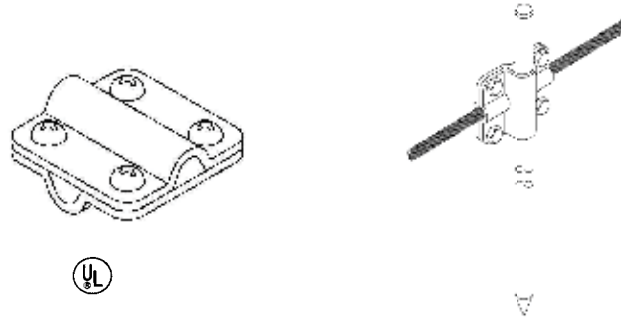
53

**119B**

**Heavy Duty Cross Run Clamp**

Cast bronze part has four hex screws and is used for cross-connecting 1/2" diameter cable to either 5/8" or 3/4" diameter ground rods. Wt. .64 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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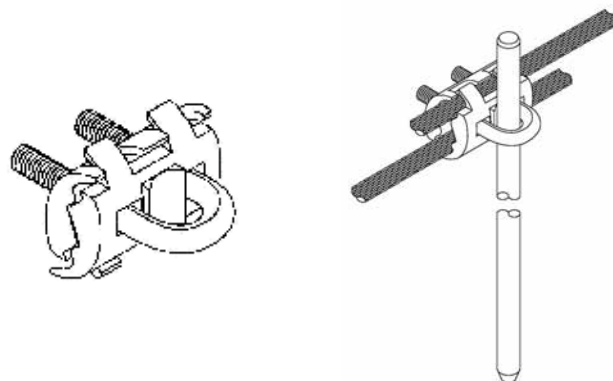


**28U**

**All Purpose U-Bolt Clamp**

Cast bronze connector used in addition to ground rod clamp where a connection is needed to tap into a counterpoise or ground loop. One or two horizontal cables can be utilized and ground rod up to 3/4" diameter. The 28U U-bolt clamp is not used as a primary ground connection but used as a secondary connection to a supplemental grounding system. Wt. .62 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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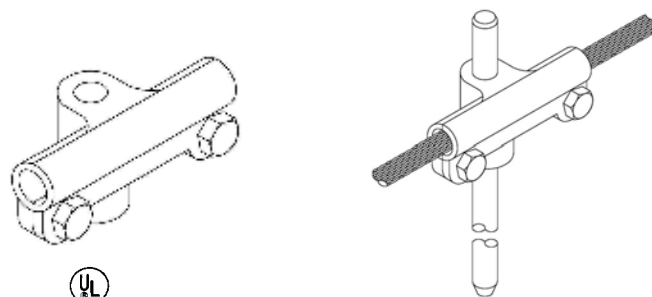


**196**

**Heavy Duty Ground Rod and Cross Run Clamp**

Cast bronze part with 4" length cable connector for connection to 5/8" diameter ground rod. Part also available for 3/4" diameter ground rod upon request. Wt. .86 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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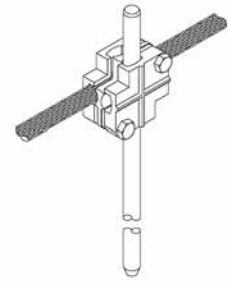
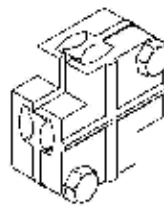


**197**

**All Purpose Ground Rod and Cable Clamp**

Cast bronze connector for ground rods up through 3/4" diameter and for connection to one cable in either a vertical or horizontal position. Wt. .60 lbs. each.

28	28S	32S	40	21	G3	A22	A28	A30
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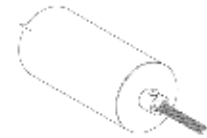
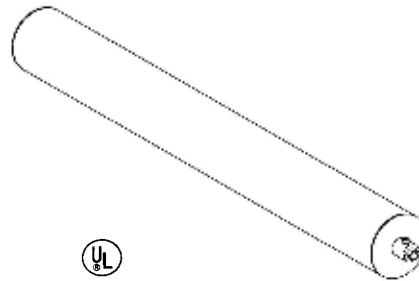


**583**

**Copper Charcoal Ground**

Made from 20 gauge copper sheet, canister is a 4" diameter that is 24" in length and filled with charcoal. Wt. 6.8 lbs. each.

22	28S	32S	40	21	G3	A28	A28	A30
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**583X**

**Copper Charcoal Ground**

Like 583 except canister is perforated. Wt. 6.8 lbs. each.

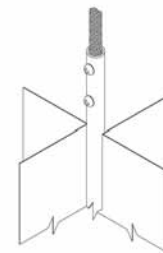
22	28S	32S	40	21	G3	A22	A28	A30
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**584**

**Large Four Wing Ground Plate**

Made from 20 gauge copper sheet with each wing 3-1/2" wide x 18" length. Wt. 3.46 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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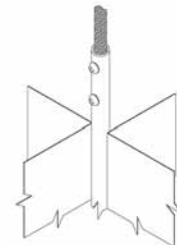
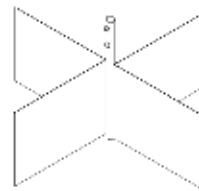


**585**

**Small Four Wing Ground Plate**

Made from 20 gauge copper sheet with each wing 6" wide x 9" length. Wt. 2.66 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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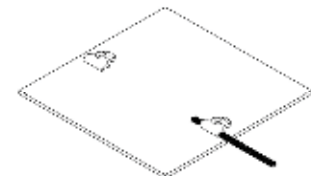
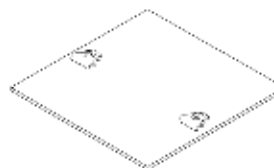


**586**

**Solid Cast Ground Plate**

Ground plate is cast from bronze and is 12" x 12" x 1/4" thick with two mechanical cable clamps to secure the cable. Wt. 13.28 lbs. each.

28	28S	32S	40	21	G3	A22	A28	A30
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**586X**

**Solid Cast Ground Plate**

Same description as above except 1/2" thick. Wt. 20.68 lbs. each.

28	28S	32S	40	21	G3	A22	A28	A30
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**Copper Sheet Ground Plates**

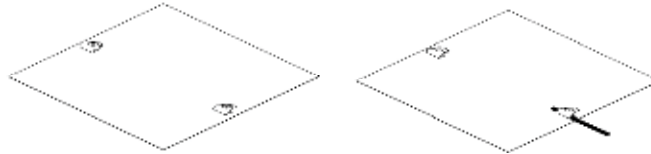
Ground plates are made from 20 gauge copper sheets with two mechanical cable clamps to secure cable. Part number and specifications are as follows:

**587** – 18" x 36" length.  
Wt. 6.75 lbs. each.

**587A** – 36" x 36" length.  
Wt. 13.48 lbs. each.

**588** – 18" x 24" length.  
Wt. 4.60 lbs. each.

**589** – 18" x 18" length.  
Wt. 3.13 lbs. each.



Note: Drawing is typical for all ground plate sizes and shown for illustrative purposes.

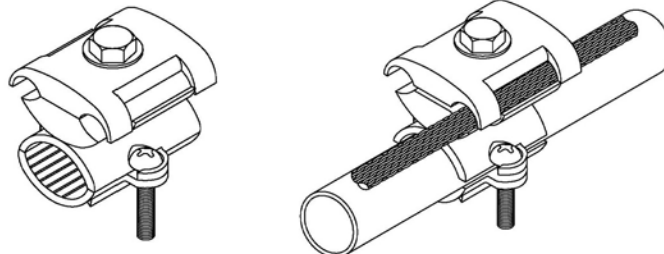
22	28S	32S	40	21	G3	A22	A28	A30
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**306CX**

**Small Pipe Clamp for Copper Pipes**

Cast bronze pipe clamp for cables through 2/0 providing 1-1/2" contact. Fits maximum 3/4" copper pipe and by inverting bottom casting allows for smaller 1/4" – 5/8" copper pipe. Lower casting is tinned to prevent corrosion. Wt. .62 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A306CX**

**Small Bimetal Pipe Clamp**

Same description as above except cable clamp is aluminum. Wt. .40 lbs. each.

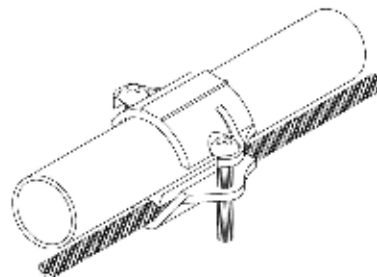
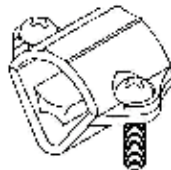
22	28S	32S	40	21	G3	A22	A28	A30
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**306**

**Small Perfection Pipe Clamp**

Cast bronze pipe clamp for cables through 2/0 providing 1-1/2" contact. Fits 1/2" - 1" iron pipes and 1/4" - 1" copper pipes. Maximum 1-1/2" outer diameter. Part is tinned to prevent corrosion. Wt. .48 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A306**

**Small Perfection Pipe Clamp**

Cast aluminum as above description. Wt. .18 lbs. each.

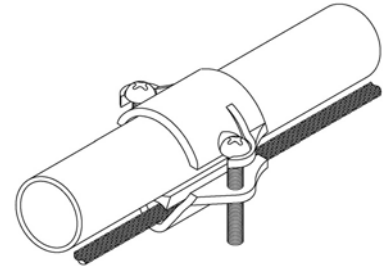
22	28S	32S	40	21	G3	A22	A28	A30
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**306X**

**Medium Perfection Pipe Clamp**

Cast bronze pipe clamp for cables through 2/0 providing 1-1/2" contact. Fits 1-1/4" and 1-1/2" iron pipes. Maximum 2" outer diameter. Part is tinned to prevent corrosion. Wt. .48 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A306X**

**Medium Perfection Pipe Clamp**

Cast aluminum as above description. Wt. .26 lbs. each.

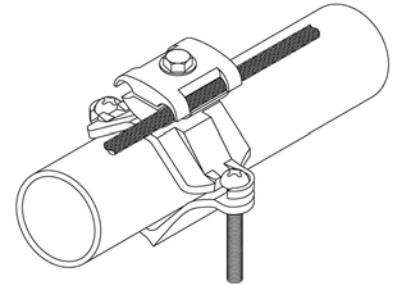
22	28S	32S	40	21	G3	A22	A28	A30
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**306A**

**Large Perfection Pipe Clamp**

Cast bronze pipe clamp for cables through 2/0 providing 1-1/2" contact. Fits 1-1/2" – 2" iron pipes. **Maximum 2-1/4"** outer diameter. Lower casting may be inverted to fit smaller diameter pipes. Lower casting is tinned to prevent corrosion. Wt. 1.04 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A306A**

**Bi-Metallic Large Perfection Pipe Clamp**

Cast aluminum cable clamp is provided on top of tinned bronze casting as per above description. Wt. .80 lbs. each.

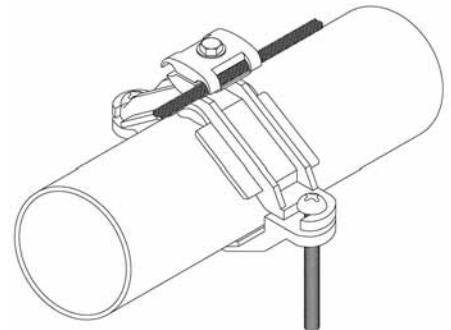
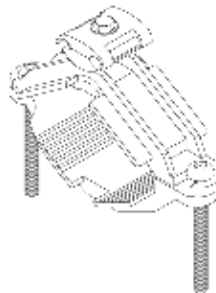
22	28S	32S	40	21	G3	A22	A28	A30
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**306B**

**Extra-Large Perfection Pipe Clamp**

Cast bronze pipe clamp for cables through 2/0 providing 1-1/2" contact. Fits 2-1/2" – 4" iron pipes. Maximum 4-1/2" outer diameter. Lower casting is tinned to prevent corrosion. Wt. 1.04 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A306B**

**Bi-Metallic Extra-Large Perfection Pipe Clamp**

Cast aluminum cable clamp is provided on top of tinned bronze casting as per above description. Wt. 1.30 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**117, 117A, 117B**

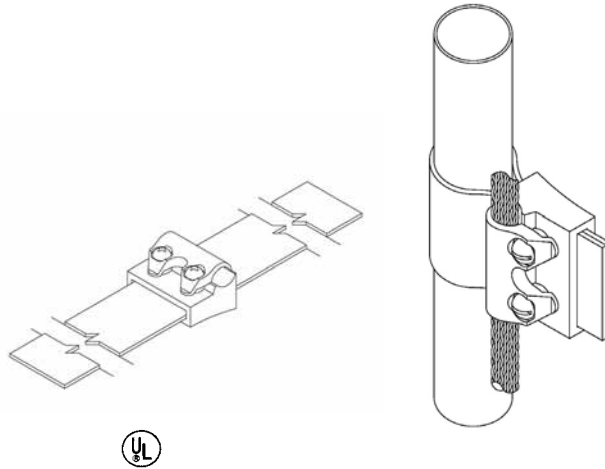
**Tite-Grip Strap and Clamp**

Cast bronze clamp and copper strap for bonding to pipes. Strap (IP-49Y) is shaped around pipe. Casting is positioned within 1/8" of pipe and screw is tightened on flat part of casting. Screws on beveled edge are tightened to draw strap tight. Other length straps available upon request.

**117** – 12" Tite-Grip for pipes up to 2" diameter. Wt. .1.02 lbs each.

**117A** – 18" Tite-Grip Strap for pipes up to 4" diameter. Wt. 1.21 lbs. each.

**117B** – 32" Tite-Grip Strap for pipes up to 8" diameter. Wt. 1.70 lbs. each.



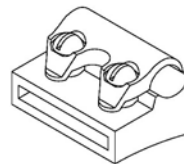
22	28S	32S	40	21	GS	A22	A28	A30
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**117C**

**Tite-Grip Clamp**

Cast bronze clamp only for use with IP-49Y, 1-3/4" wide strap. Wt. .58 lbs. each.

22	28S	32S	40	21	GS	A22	A28	A30
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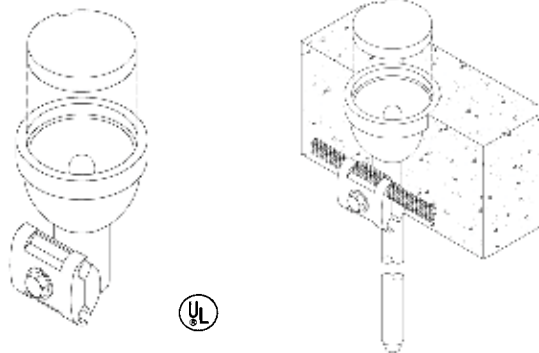


**310**

**Ground Receptacle**

Cast bronze receptacle with cable clamp and fastener for connecting one or two cables to ground rod. Lid is furnished with SS chain that secures top to receptacle. When ordering, specify ground rod diameter and threaded or plain. Wt. 2.72 lbs.

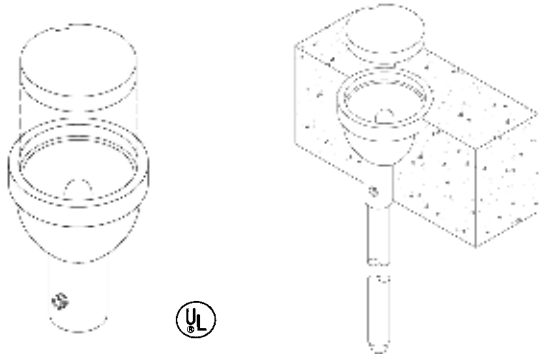
22	28S	32S	40	21	GS	A22	A28	A30
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**311**

**Ground Receptacle**

Cast bronze receptacle for use with ground rod. Lid is furnished with SS chain that secures top to receptacle. When ordering, specify ground rod diameter and threaded or plain. Wt. 2.22 lbs. each.





**G81**

**Guard Fastener**

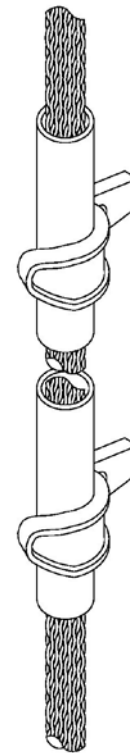
Cast bronze guard fastener for use with IP-591, 3/4" copper guard pipe. Bolt hole size is 5/16" diameter. Wt. .06 lbs. each.



**591**

**Guard Pipe**

Copper guard pipe is 8' in length and 3/4" diameter. Fits standard cables through 2/0. Wt. 4.26 lbs. each.



22	28S	32S	40	21	G3	A22	A28	A30
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**135A**

**"U" Guard Fastener**

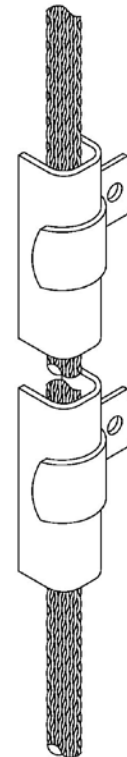
Galvanized steel fastener for use with IP-349 polyurethane "U" guard or 3/4" PVC. Not for use with copper guards. Wt. .08 lbs. each.



**349P**

**"U" Guard Channel**

Preformed polyurethane "U" guard is 8' in length and may be painted to desired color. For cables through 2/0 size. Wt. .68 lbs. each.



22	28S	32S	40	21	G3	A22	A28	A30
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**177**

**Bonding Wedge – 1” Conduit**

Cast bronze wedge is used when coursing cable through 1” diameter copper conduit. Wedges must be used to bond cable on each end of conduit. Wt. .26 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A177**

**Bonding Wedge**

Cast aluminum. Wt. .08 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**177X**

**Bonding Wedge – 3/4” Conduit**

Cast bronze wedge is used when coursing cable through 3/4” diameter copper conduit. Wedges must be used to bond cable on each end of conduit. Wt. .04 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**Chemical Ground Rods**

We have access to provide electrolytic grounding systems as an alternative product to conventional grounding systems. Chemical ground rods are installed where low-resistance grounding is critical in protection of machinery, electronics, and personnel. Industries for consideration include: power plants, utility substations, cell towers, communication centers, computer sites, and other general commercial and industrial sites.

There are various standard vertical and horizontal models and larger custom sizes are also available. Units come complete with vented covers for easy inspection, a pigtail of copper cable, ground test well and replacements of the specially formulated ground enhancing materials. Call for your specific application.

**Surge Protection Devices**

We have several key manufacturing sources to turn to when it comes to surge protection devices needs. Whether your need is electrical, telephone, computer or CA/TV, our suppliers can provide the technical advice and recommendations that you need. As of September 29, 2009, UL revised their standard UL 1449 and the requirements for lightning protection systems. All surge protection devices must meet the requirements of UL 1449 Third Edition in order to secure a UL Master Label.

Not all specifying or consulting engineers may be aware of this latest revision to UL 1449. If surge protection is this is not in your scope of supply, be sure that the party responsible for installation of surge protection devices is aware of these changes when a UL Master Label is required. A full list of compliant surge protection devices is available on the UL website. Call us today with your specific application needs and we will assist you with the proper equipment.

**Exothermic Welding Devices**

We use the thermOweld line of exothermic equipment when connections of this type are required or specified. The thermOweld process creates a permanent homogenous and molecular bond that cannot loosen or corrode. Compared to compression connectors, split bolts, crimp connectors, brazing and other connections, the thermOweld connection is clearly superior. In fact, a thermOweld connection will also withstand more current than the conductor itself.

When mold, welds and other related equipment are needed, contact our sales department and we will assist you in the selection process. We will email you mold configuration sheets for selecting the proper mold and welds and then we will order direct from thermOweld. One important thing to remember is that lightning protection cable is sized differently than electrical cables which effects mold construction. Following is a thermOweld designed chart showing the code assigned for our cables:

Cable	Cable Code
22	A
32S	C
40	E
21	G
G3	K

Orders for thermOweld molds and related equipment are special orders and are dropped shipped direct to your designated location. Mold orders will normally ship within 1-3 days except special design molds which are 4 days after thermOweld receives the order.

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40L	5	130L	49	249CL	47
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# LIGHTNING FACTS

-  A lightning protection system does not attract lightning, but provides a canopy of protection, which intercepts a lightning strike, providing the charge a safe path to the ground.
-  Lightning Protection systems can be surprisingly inexpensive. We provide Free Estimates.
-  Today's Lightning Protection Systems, when properly installed are very unnoticeable.
-  Lightning Protection Systems can be concealed during the construction phase. The short neutral colored lightning rods are the only visible evidence of the installation.
-  A Lightning Protection System consists of these components:
  - Air Terminals (lightning rods)
  - Conductor Cable
  - Utility Bonds (Gas, Water, etc.)
  - Ground Rods
  - Surge Equipment (Incoming electric, phone, cable/satellite)
-  Insurance cannot protect your family from electrocution or fire due to lightning.
-  Insurance cannot protect your personal belongings, historical records or irreplaceable items with sentimental value.
-  Lightning protection can prevent the hassles & hidden expenses of a major insurance claim.
-  Insurance does not provide complete financial protection. Standard deductibles for insurance represent a portion of the repair or replacement cost.

## Myths and Untruths

-  Lightning will always strike the highest object. **FALSE.** While this is generally true, in many instances, lower objects are often hit first.
-  Lightning will never strike the same spot twice. **FALSE.** A good example is the CN Tower or Empire State Building which are struck an average of 100 times a year. Both structures have had lightning protection systems in place for many years.
-  A lightning protection system will attract lightning. **FALSE.** A lightning protection system will not attract lightning but offers a safe path for it to follow, which allows the strike to travel safely to ground.
-  Lightning protection was used only on farms and farmhouses in the 40's and 50's. **FALSE.** Today, lightning protection systems are specified by architects, owners and engineers for family dwellings, public buildings and commercial applications.

# ISLAND LIGHTNING ROD

PROTECTING PEI | NS | NB SINCE 1975

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**Protect and Preserve Your Structure  
With a Lightning Protection System**



**Toll Free:** 1.855.368.1710

**Local:** 902.368.1710

**Fax:** 902.566.5536

Email: [info@islandlightningrod.com](mailto:info@islandlightningrod.com)

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