

**REVISED and
RE-ISSUED 7-1-2013**
Please see the following
page for important notes.

Lightning Protection Equipment Catalog

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

Independent Protection Company, Inc.

**1607 S. Main St.
Goshen, IN 46526**

**800-860-8388
574-533-4116**



Independent Protection Co., Inc.

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Introduction Notes: Revised Catalog #211

This revised edition of IPC catalog #211 contains several minor corrections and some new or revised products.

Following this page are two special catalog pages. One page is for several additional ½" female threaded bases while the other page contains some revisions to one of our thru-roof connectors.

Changes deemed more critical, are noted throughout the catalog and are high-lighted with a yellow background. Corrections considered as minor or non-critical in nature as related to installation purposes, are corrected in the part descriptions with no additional notation.



PRODUCT UPDATES

Several additional bases have been added to our product line. These bases incorporate 1/2" female threads which eliminate the use of an adaptor. References to current catalog part numbers are indicated below. Check catalog #211 for complete product details. Save this supplement sheet until these parts are added into the next IPC printed catalog.

16SP

"New" IPC Part Number	Ref. Current IPC Part Number	Ref. Catalog 211 Page Number
60A 1/2" ID	60A	21
A60A 1/2" ID	A60A	21
60SS 1/2" ID	60SS	21
A60SS 1/2" ID	A60SS	21
266B 1/2" ID	266B	22
A266B 1/2" ID	A266B	22
M55 1/2" ID	M55	23
MA55 1/2" ID	MA55	23
M74Y 1/2" ID	M74Y	23
MA74Y 1/2" ID	MA74Y	23
243 1/2" ID	243	24
A243 1/2"	A243	24

16SP



Independent Protection Co., Inc.

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597C With 179A

Thru Roof Connector for 1-1/2" PVC

Cast bronze assembly consists of IP-597 cap, cable connector, IP-179A base plate, IP-M597 bottom cable connector with hex-head bolts and 1/2" x 8" threaded stainless steel rod. Wt. 1.60 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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A597C With 179A

Thru Roof Connector for 1-1/2" PVC

Cast aluminum. Wt. .78 lbs. each.

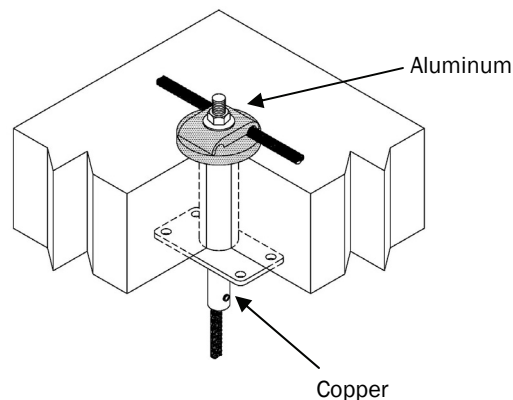
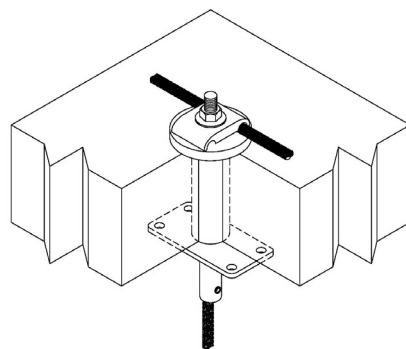
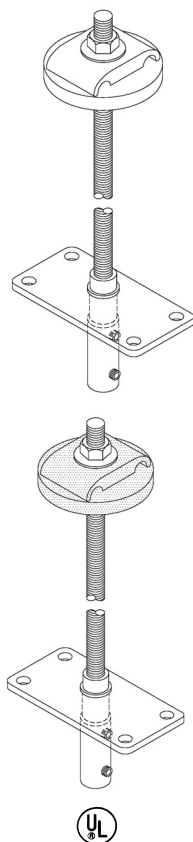
22	28S	32S	40	21	G3	A22	A28	A30
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597BM With 179A

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

Cast bronze and aluminum assembly consists of aluminum IP-A597 cap, cable connector on top, bronze IP-179A base plate and IP-M597 bottom cable connector with hex-head bolts and 1/2" x 8" threaded stainless steel rod. Wt. 1.30 lbs. each.

22	28S	32S	40	21	G3	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.

26SP

26SP



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www.ipclp.com

Welcome to Our Catalog!

As IPC unveils our latest catalog, some noticeable improvements have been made from previous editions. If this is your first glance at our catalog, IPC offers a comprehensive product line to cover your lightning protection system needs. This edition brings with it line drawings of IPC products and detail drawings that simulate the parts in an actual installation. Several new part numbers were added to our product line and product improvements were made on a few current part numbers.

As a recognized and industry leader for over 75 years, IPC manufactures products that are installed by contractors, electrical contractors and others familiar with installation methods. For design assistance, IPC will partner with architects, engineers, property owners and others who specify lightning protection systems. IPC is a recognized manufacturer by Underwriters Laboratories and a member of the Lightning Protection Institute. In addition, our design staff holds credentials and certifications through the Lightning Protection Institute. For system design and layout consideration, IPC utilizes nationally recognized standards known throughout our industry. These standards are the Lightning Protection Institute 175, National Fire Protection Association 780 and Underwriters Laboratories 96A.

IPC endeavors to be your final solution when it comes to consideration for lightning protection systems. Whether you need design assistance, have technical questions or need to place a parts order, IPC is your source. IPC is a company built on honesty and integrity and founded on the principles of the Golden Rule. Thank you for the opportunity to share our latest catalog with you.

The Staff of Independent Protection Company



Independent Protection Co., Inc.

Corporate Mission Statement

Our corporate mission is to provide manufactured products at a level to reward our team members with above normal living means and provide long-term job security to our employees while maintaining our position as a world class manufacturer and supplier of transit/specialty vehicles and lightning protection materials as defined by our customers in the areas of quality, delivery, technology and cost.

Our long-term objective is to instill in all our team members the belief that success, profit and job security can only be provided by satisfied customers.

Our goal is to develop customer service as our No. 1 priority in the belief that if we satisfy our customers beyond their expectations; satisfied customers will provide success, profit and job security to everyone within our organization.

Spiritual Mission Statement

Our spiritual mission is to provide a manufacturing work environment that will promote and strengthen a strong belief in God our Father, which will hopefully lead to a personal one on one relationship with Jesus Christ our Lord for everyone of our team members, customers and other contacts.

Our long-term objective is to support an attitude where family takes top priority and where involvement in church and local community service activities are encouraged.

Our goal is to tithe 10% of our annual corporate profits to the glory of God for the work of His Kingdom and the support of His will throughout the world.

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F.O.B. POINT – Freight costs are the responsibility of the purchaser as all freight is FOB Goshen, IN. IPC prepays the freight and charges are added to the invoice.

TERMS – With approved credit, our standard terms of sale is **2% discount 15 days/Net 30 days**. Open credit limits are available after satisfactory review of your bank and trade references. Request a credit application to initiate the process.

CREDIT APPROVAL FOR U.S. CUSTOMERS – IPC accepts payment by Visa, MasterCard and Discover. We do not accept American Express. COD and checks in advance are also acceptable methods.

CREDIT POLICY FOR FOREIGN CUSTOMERS – IPC accepts pre-payment direct to our bank by wire transfer. Orders are held and do not leave our plant until the transfer is made. Payment by Visa MasterCard or Discover is also acceptable.

MINIMUM \$ ORDER – IPC has a minimum charge per order of \$50, excluding shipping cost. This minimum fee covers the internal processing costs associated in our order entry and shipping departments.

FAX, EMAIL OR HARD-COPY ORDERS – To promote order accuracy in processing your order, IPC encourages you to fax or email your orders into our office. By using of these methods, IPC provides an additional **1% hard copy discount** as a credit against the invoice for the parts. Maximum credit allowed is \$100.

PACKAGING OF YOUR SHIPMENT – Most all product is packaged in corrugated cartons. For truck size shipments, cartons and/or spools are secured on pallets to prevent damage during transit

METHOD OF SHIPMENT – U.S. Unless there are specific routing instructions provided, IPC will select the most economical method of transportation. UPS ground is the preferred carrier for smaller parcels. For truck size shipments, we utilize a freight specialist who selects the most economical carrier to your destination.

METHOD OF SHIPMENT - FOREIGN - Shipments to foreign customers are made using your designated freight forwarder or IPC can assist you by using a local freight forwarder.

FREIGHT ESTIMATES – For instances where timing is critical, IPC is able to provide you with freight cost and delivery options prior to the shipment leaving our facility. You can then select the best option in terms of cost and delivery.

INVENTORY ITEMS – With few exceptions, most all products in the catalog are available for immediate shipment. For these items, you can expect your order will be shipped within 24 hours. IPC Customer Service will advise a preliminary shipping date on an item that is not in inventory.

SPECIAL ORDER ITEMS – As IPC continues to steam-line our product line, some products in earlier catalogs might still be available. These items are considered obsolete for various reasons. Delivery could be extended and special pricing applies due to additional setup and handling. Check with IPC prior to quoting older parts numbers to your customers to be sure the product can still be supplied. Orders placed for special order items are non-cancelable and non-refundable.

PRODUCT WARRANTY – IPC warrants its products to be free from defects and will replace defective items for up to a period **five years**. This warranty is based on proper installation techniques of the installing contractor.

RETURN MATERIAL AUTHORIZATION – For shortages or incorrect parts shipped, please call IPC Customer Service within 14 days after receipt of shipment. For product returns on defective parts, also contact IPC Customer Service within 14 days after receipt of shipment.

RE-STOCKING CHARGE – A re-stocking charge of 25% applies to returned products that are returned in 'like new' condition. This defrays our cost of handling and processing these parts in our plant. Items must be returned within 14 days from the original date of shipment. Call IPC Customer Service prior to returning parts.

DAMAGED SHIPMENTS – For shipments that are delivered and received as damaged, the commercial truck carrier is responsible for any claims. Be sure to note on the Bill of Lading that goods were received in a damaged condition to protect yourself and to avoid any issues when a claim is filed for damages. The time frame to file a claim against the carrier is normally within 5 days after receipt of shipment. Call IPC Customer Service for any assistance.

PRODUCT QUALITY – The goal for IPC production is to ship the best quality products to our customers. If for some reason, we do not fulfill this requirement, please contact IPC Customer Service. We will correct the situation and satisfy your expectations.



THIS CATALOG EDITION - This issue of our catalog is now the only active published edition provided to dealer contractors, prospective dealers, architects, engineers and others. Older editions should be used as only a reference editions. If you wish to procure part numbers from prior catalog editions, please call IPC to verify the part can still be manufactured.

UL LISTED PRODUCT - Products manufactured by IPC are listed and approved for use in lightning protection system installations by Underwriters Laboratories. Regular plant visits by UL are made to verify that IPC products meet or exceed the criteria established by UL96. UL approved parts carry the UL mark along with IPC identification. Part numbers approved by UL are shown throughout the catalog and are display the UL logo.

QUOTATIONS - IPC provides written quotations on selected materials and quantities and available upon request. IPC engineering provides material take offs to our dealer contractors as they prepare quotes, bids and estimates on projects they are working on.

Installation of a lightning protection system should be provided by qualified and trained personnel. On occasion, IPC will provide complete quotations to architects, engineers and contractors based on information that our office receives. IPC attempts to make every quote as complete as possible based on information supplied. In any case, we ask that you fully review each quote and adjust the material or part selection as required.

Please feel free to call our engineering staff for any design/installation questions **prior** to submitting the bid to your customer.

SUBMITTAL DRAWINGS - IPC supplies our dealer contractors with AutoCAD® submittal drawings in response to requests to customer requests. IPC develops drawings after a full review of the specifications and blueprints provided in addition to other verbal communications. Once submittals are finalized, plans are transmitted electronically in AutoCAD® or PDF file formats.

On occasion, a customer may make a direct contact with IPC in regards to necessary changes on a particular submittal. Because of potential cost implications, IPC refers the customer back to the contractor who is providing the system installation.

For assistance in the submittal process, feel free to contact IPC engineering.

DESIGN ASSISTANCE - IPC's Engineering/Design Department will provide design and installation assistance for those unique or difficult installations. Please feel free to call IPC for our perspective and input.

DESIGN CRITERIA - Nationally recognized standards are used as the basis for design of lightning protection systems. These standards are: National Fire Protection Association, 780; Underwriters Laboratories, 96A; and the Lightning Protection Institute, 175.

REVISIONS TO STANDARD PARTS - At times, there may be applications where an alteration is necessary for standard parts that we supply. I.e. longer length threaded stem, larger mounting hole diameter, etc. Let IPC know the situation to see if we can assist you with your special need.

PRODUCT REVISIONS/ADDITIONS - IPC welcomes your ideas for product improvement on existing parts or potential new parts. The IPC Team will evaluate and discuss the suggestions and then decide a plan of action. In addition, IPC might solicit our larger customers for their input and review. In any case, IPC will keep you informed of the status of the request.

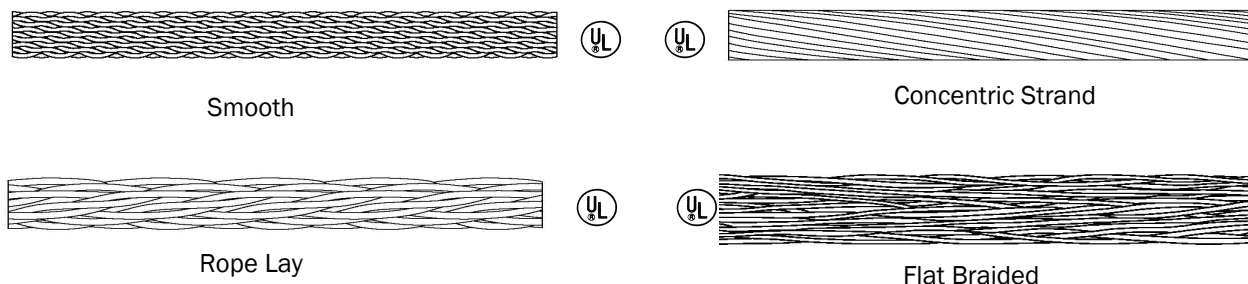
ADHESIVE REQUIREMENTS - IPC offers a limited selection of adhesives for your needs. We suggest for compatibility reasons that you contact the roofing manufacturer for their recommendation for the specific application in question.

FASTENING REQUIREMENTS - When purchasing IPC components don't forget about purchasing products for your fastening requirements. You can find these items in the Fastener Section.

TIN COATING - There will be occasions where tin (lead) coating is required or is specified. For products that require this enhancement, please advise Customer Service when placing your order. Additional charges apply for this service.

NICKEL PLATING - If nickel plating is required on strike termination devices, we can provide this for you. This will normally require additional processing of 10-14 Days. Special pricing applies based on the quantity.

ADDITIONAL CATALOGS - IPC has three other catalog editions available for the following equipment: Trees, Heavy Duty Stack and Ornamental. To request any of these catalog supplements, please contact Customer Service at IPC.



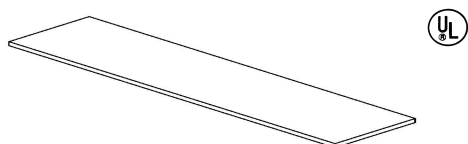
Above drawings are typical for cables below.

IPC #	Class	Type Weave	Number Strands	Wire Gauge	Circular Mils	Wt. per. 1,000'	Approx. Size	Cable Size	Std. Spool Size
Copper Cable									
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'

Aluminum Cable									
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'

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

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

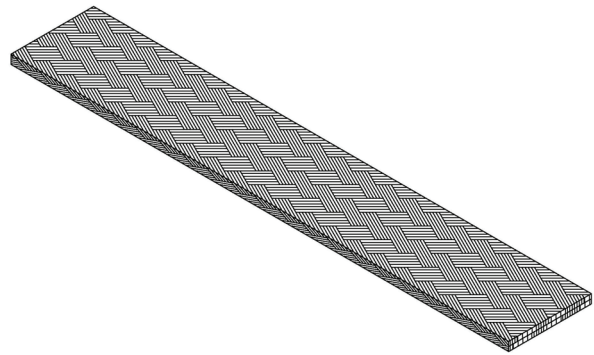


IPC #	Class	Type	Width	Thickness	Wt. Per 1,000'	Std. Coil Size
Copper Bonding Strap						
49	1	Strap	1"	0.051	193	25' & 50'
49X	1	Strap	Same as 49 description except material is tinned.			
49Y	1	Strap	1-3/4"	0.064	440	25' & 50'
Aluminum Secondary Bonding Strap						
A48	1	Strap	5/8"	0.064	48	25' & 50'
A49	1	Strap	1"	0.064	73	25' & 50'
Copper Secondary Bonding Strap						
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

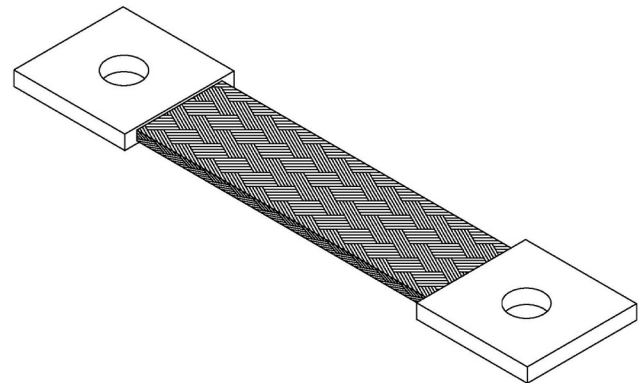
Aluminum. Wt. is 50 lbs. per. 1,000 ft.



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

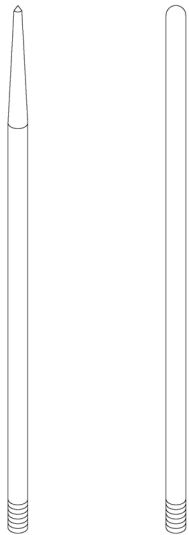
Aluminum. Wt. .06 lbs. each.



**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

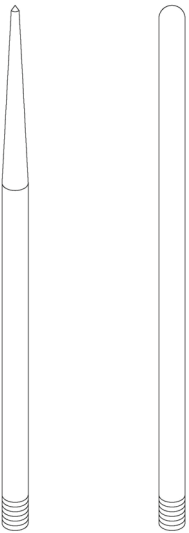
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**Class II Solid Copper
1/2" Diameter Air Terminals**

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

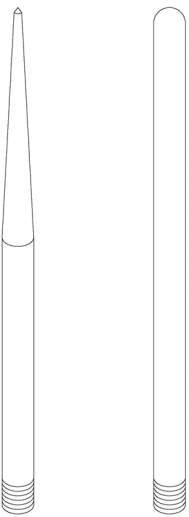
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**Class II Solid Copper
5/8" Diameter Air Terminals**

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**

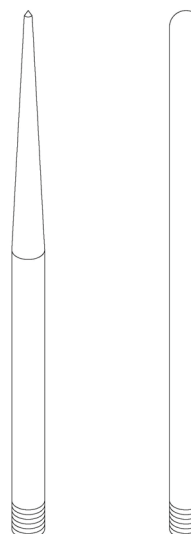
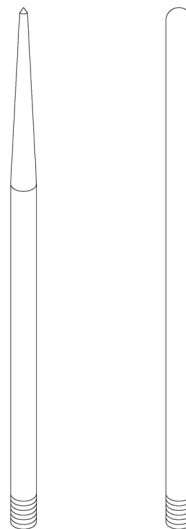
Length	Sharp Tip	Blunt Tip	Weight
12"	A331	A331-BT	.20
18"	A331A	A331A-BT	.30
24"	A331B	A331B-BT	.42
36"	A331C	A331C-BT	.66
48"	A331D	A331D-BT	.88
60"	A331E	A331E-BT	1.08 *
72"	A331F	A331F-BT	1.36 *

**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

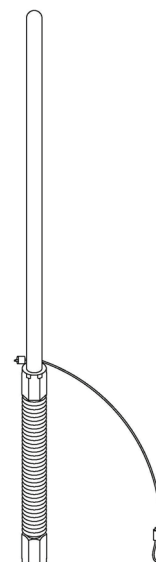
Spring Point Air Terminal

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

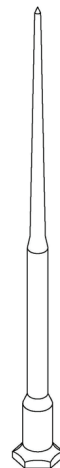
Decorative Strike Termination Device

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

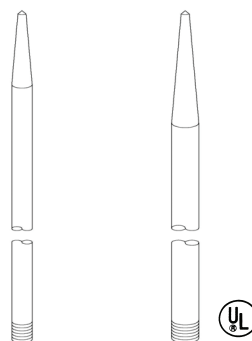
90 — 3/8" x 36" long. Wt. 1.24 lb. each.

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.

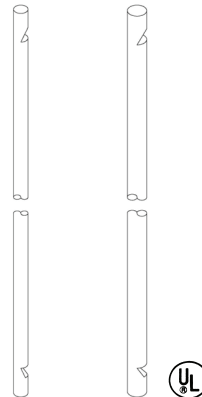
250B — 3/8" x 60" long. Wt. 2.16 lbs. each.

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

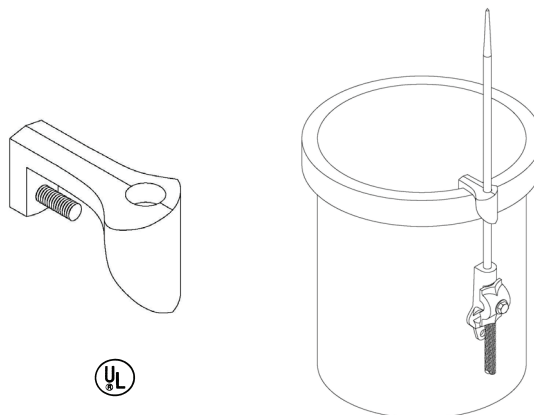
Large Tin Coated Copper Flue Tile Clamp

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

A256X

Aluminum Flue Tile Clamp

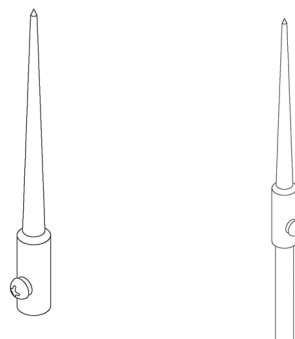
Aluminum. For use with 1/2" rod. Wt. .08 lbs. each.



255

Tin Coated Copper Chimney Air Terminal

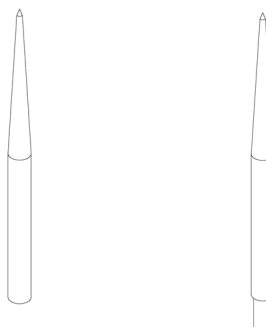
For use with 3/8" notched rod. Strike termination device has set screw and approximately 4-3/4" in length. Wt. .06 lbs. each.



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.

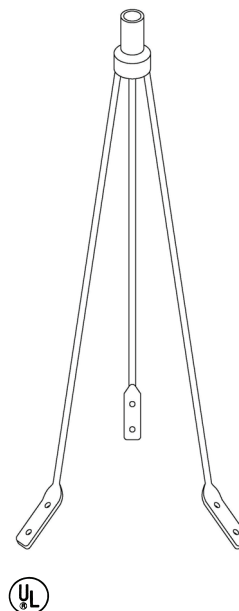


* Air terminals noted with "*" may require additional lead time.

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

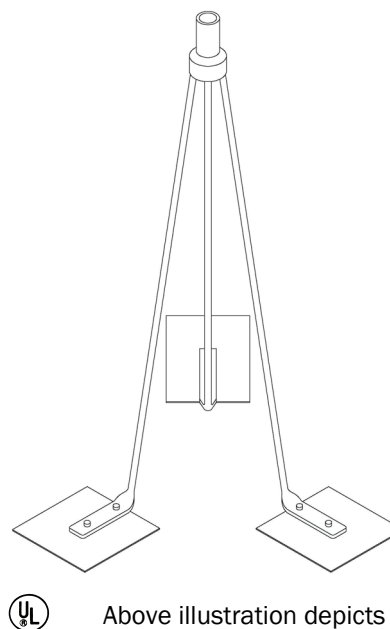
IPC PART #	DESCRIPTION	Weight
30A	14" length for 24" point	.88 lbs. each
30AF	Above description with feet	1.14 lbs each
30	18" length for 30" point	1.15 lbs. each
30F	Above description with feet	1.39 lbs. each
30B	24" length for 36" point	1.45 lbs. each
30BF	Above description with feet	1.75 lbs. Each
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



11

Aluminum Tripod Supports

IPC 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

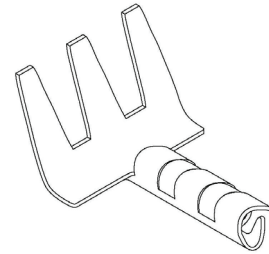


Above illustration depicts tripod with feet.

35

Tube Point Coupler

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



A35

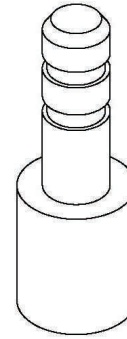
Tube Point Coupler

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

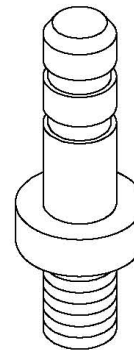
Tube Point Bushing

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

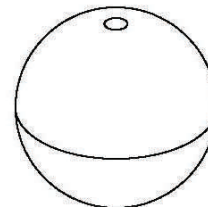
Tube Point Bushing

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

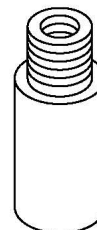
Machined brass bushing with 1/2" male and 3/8" female threads. Bushing installed in 1/2" female bases to allow use of 3/8" Strike Termination Devices.
Wt. .02 lbs. each.



****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

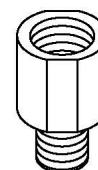
Female Top to Female Bottom Adaptors

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

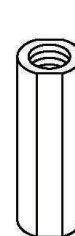
Part #	Description	Weight
M60UADP	Machined brass 5/8" female top and 1/2" male bottom.	.10
MA60UADP	Machined aluminum 5/8" female top and 1/2" male bottom.	.04



Fixed Couplers

Female Top — Female Bottom Couplers

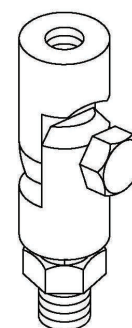
Part #	Description	Weight
M334C	Machined brass coupler with 3/8" female threads on each end, 1-1/4" length.	.04
M335C	Machined brass coupler with 1/2" female threads on each end, 2" length.	.16
MA335C	Machined aluminum coupler with 1/2" female threads on each end, 2" length.	.06



Adjustable Adaptor Series

Female Top-Male Bottom Adjustable Adaptors

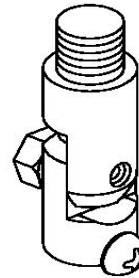
Part #	Description	WEIGHT
MADJ38FT38MB	Machined brass adjustable adaptor 3/8" female top and 3/8" male bottom	.36
MADJ38FT12MB	Machined brass adjustable adaptor 3/8" female top and 1/2" male bottom	.40
MADJ38FT58MB	Machined brass adjustable adaptor 3/8" female top and 5/8" male bottom	.40
MADJ12FT38MB	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

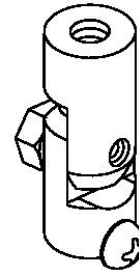
Part #	Description	WEIGHT
MADJ58MT12FB	Machined brass 5/8" male top and 1/2" female bottom.	.38
MAADJ58MT12FB	Machined aluminum 5/8" male top and 1/2" female bottom.	.16
MADJ58MT58FB	Machined brass 5/8" male top and 5/8" female bottom.	.42
MAADJ58MT58FB	Machined aluminum 5/8" male top and 5/8" female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



Adjustable Adaptor Series

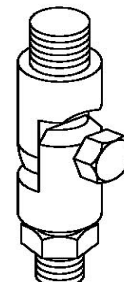
Female Top-Female Bottom Adjustable Adaptors

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.

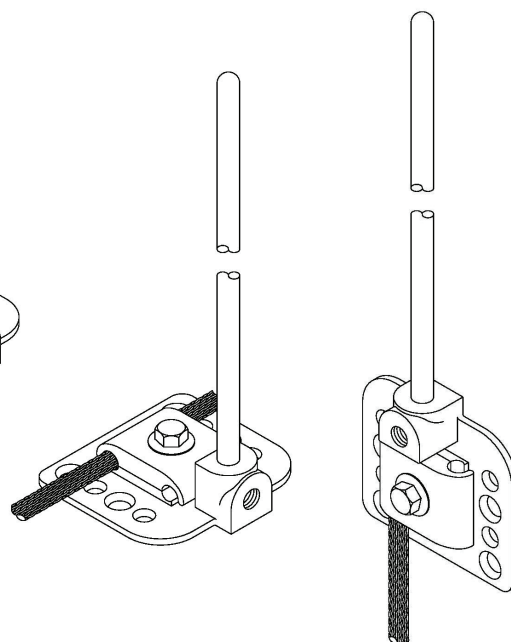
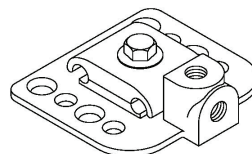
22	28S	32S	40	21	G3	A22	A28	A30
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A60UB

Universal Mounting Base

Cast aluminum. Wt. .28 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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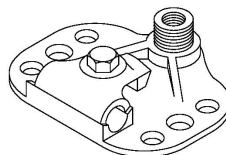


60

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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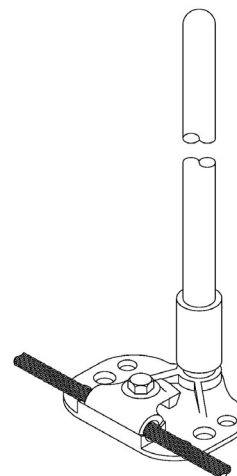
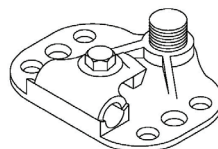


A60

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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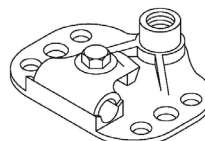


60B

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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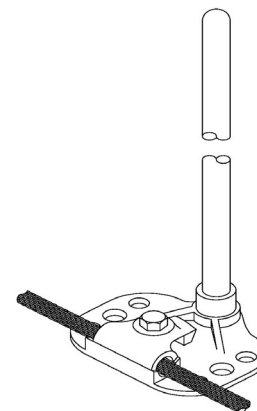


A60B

Horizontal Mounting Base

Cast aluminum. Wt. .22 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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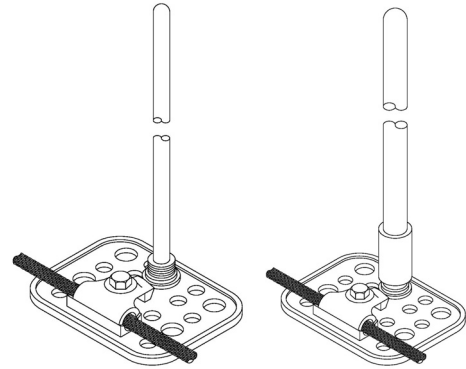
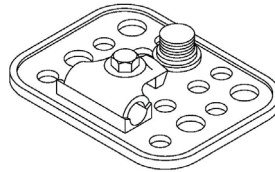
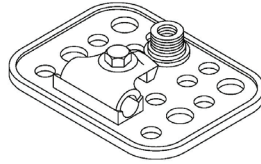


60X

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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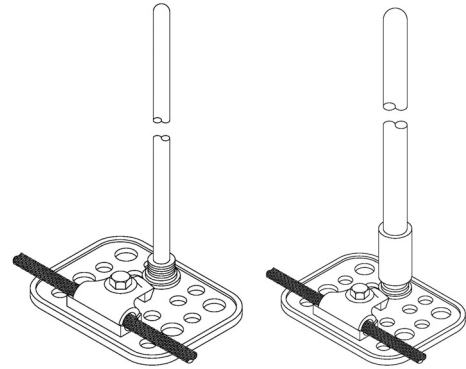
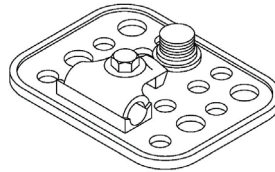


A60X

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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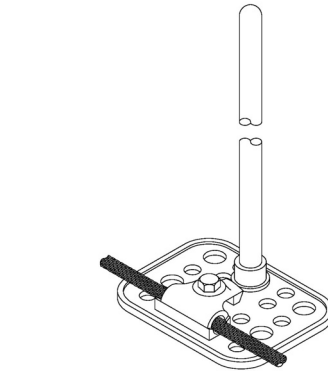
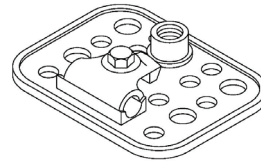


60XB

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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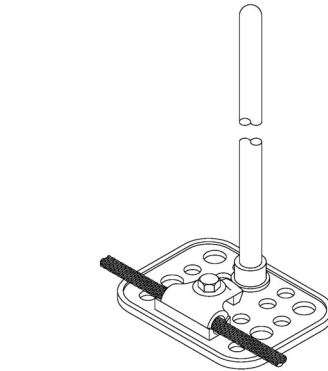
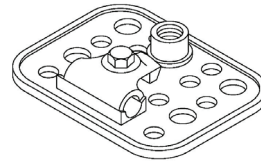


A60XB

Adhesive Style Horizontal Mounting Base

Cast aluminum. Wt. .26 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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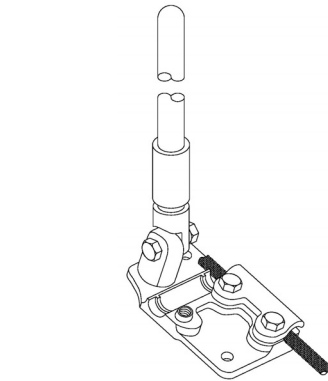
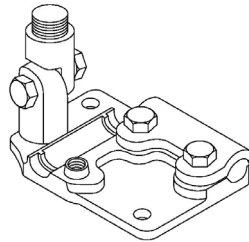


338

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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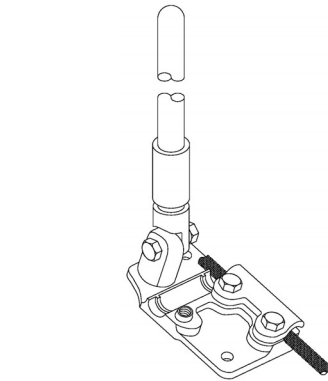
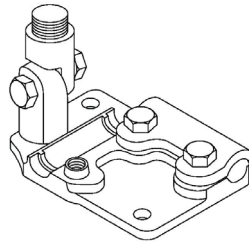


A338

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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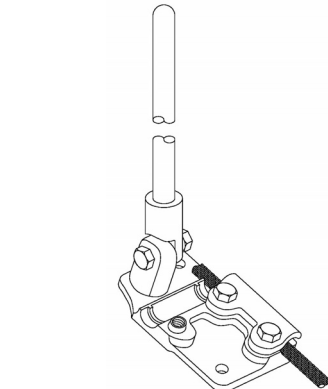
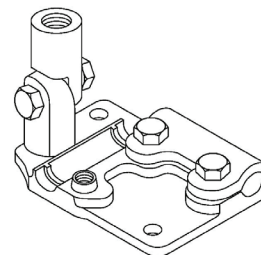


339

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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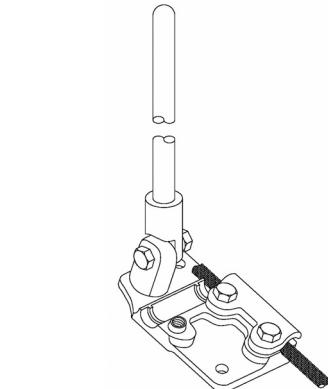
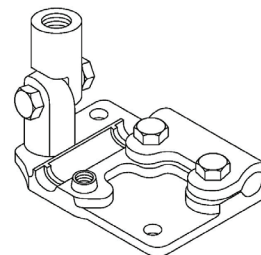


A339

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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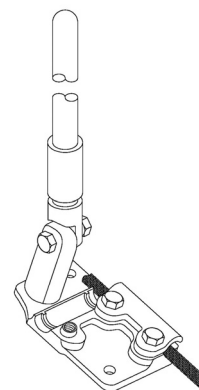
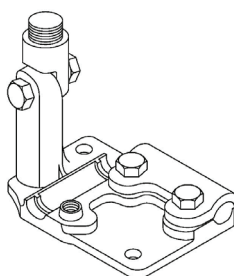


336

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.

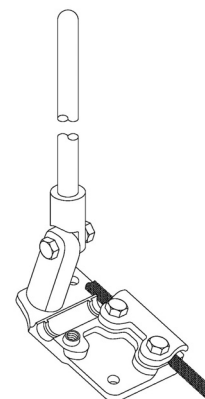
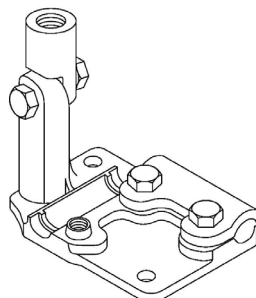
22	28S	32S	40	21	G3	A22	A28	A30
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337

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.

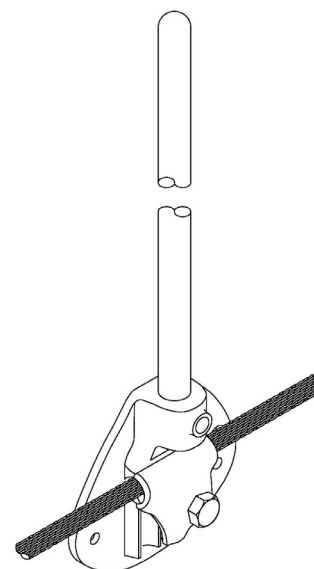
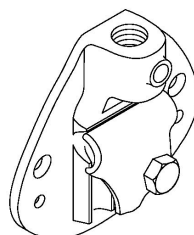
22	28S	32S	40	21	G3	A22	A28	A30
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A67B

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.

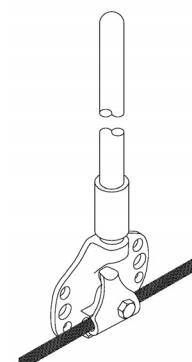
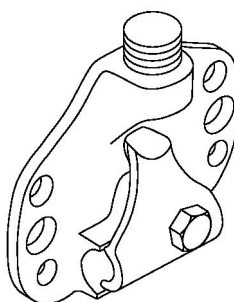
22	28S	32S	40	21	G3	A22	A28	A30
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A67X

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.

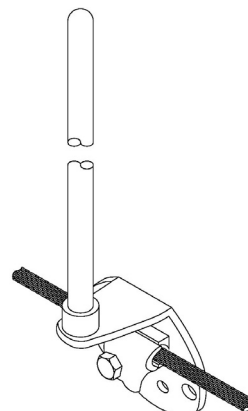
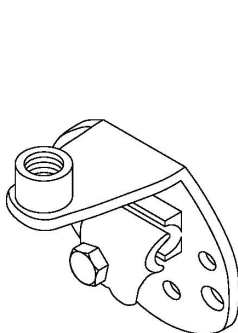
22	28S	32S	40	21	G3	A22	A28	A30
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A273

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.

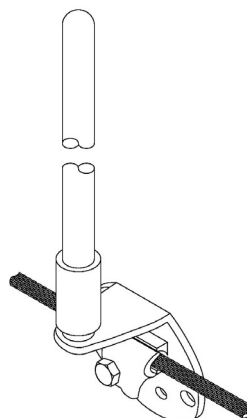
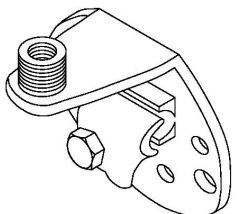
22	28S	32S	40	21	G3	A22	A28	A30
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A274

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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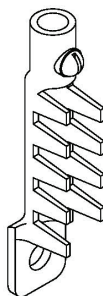


271

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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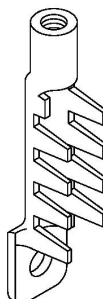


271A

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.

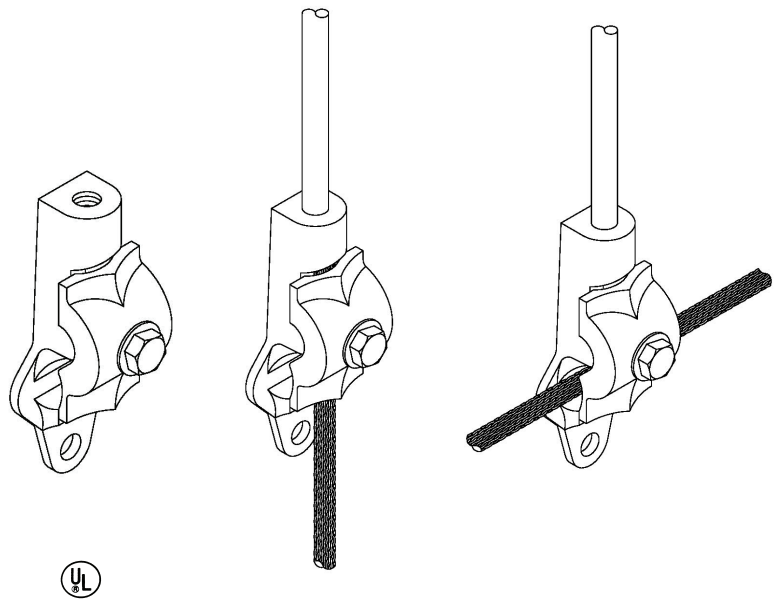
22	28S	32S	40	21	G3	A22	A28	A30
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C90Y

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.

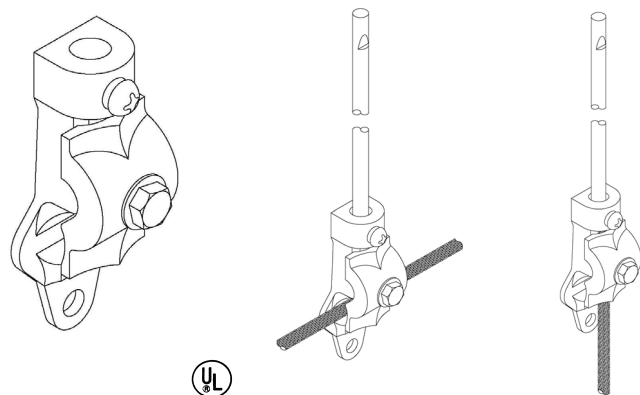
22	28S	32S	40	21	G3	A22	A28	A30
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A257

Vertical Mount Chimney Base

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

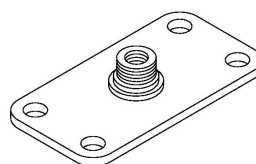
22	28S	32S	40	21	G3	A22	A28	A30
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179

Flat Surface Horizontal Base

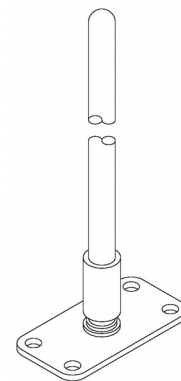
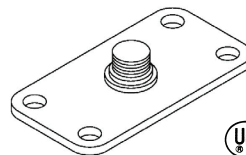
Cast bronze has 8 square inches of bonding surface. With 3/8" female and 5/8" male threads. Wt. .42 lbs. each.



A179

Flat Surface Horizontal Base

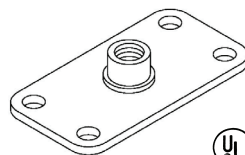
Cast aluminum with 5/8" male threads. Wt. .14 lbs. each.



179A

Flat Surface Horizontal Base

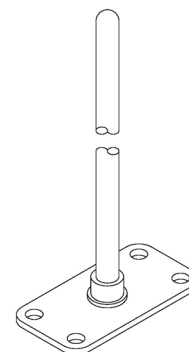
Cast bronze part has 8 square inches of bonding surface and has 1/2" female threads. Wt. .40 lbs. each.



A179A

Flat Surface Horizontal Base

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

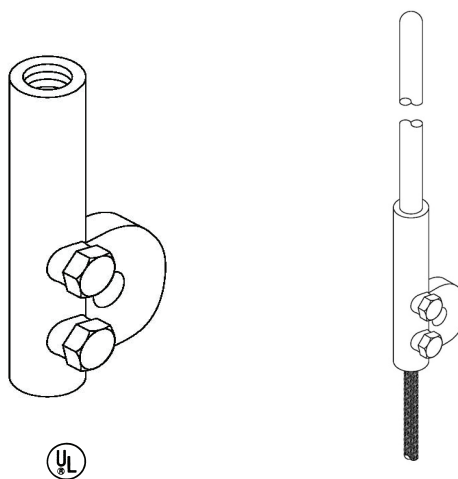


260

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

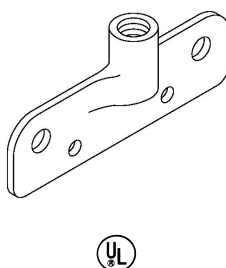
Cast aluminum part with 1/2" female threads. Wt. .22 lbs. each.

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

Flat Surface Vertical Base

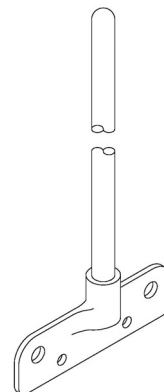
Cast bronze with 1/2" female threads and over 4 square inches of bonding surface. Wt. .30 lbs. each.



A178

Flat Surface Vertical Base

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

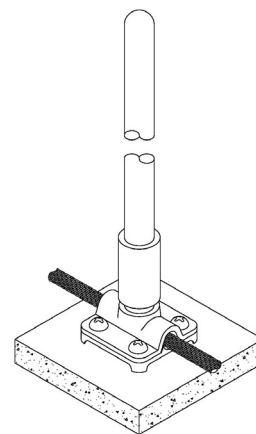
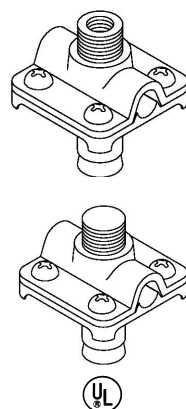


60A 60A 1/2" ID (1/2" female threads)

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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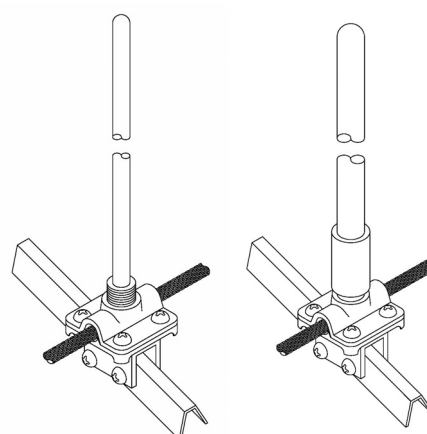
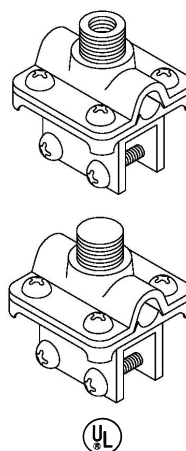


A60A A60A 1/2" ID (1/2" female threads)

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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Independent Protection Co., Inc.

Ph: 574-533-4116 or 800-860-8388

Fax: 574-534-3719

www.ipclp.com

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.

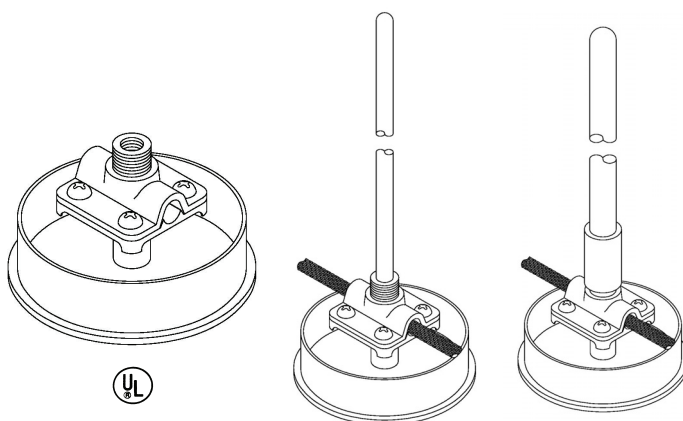
22	28S	32S	40	21	G3	A22	A28	A30
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A266B A266B 1/2" ID (1/2" female threads)**Pan Type Adhesive Air Terminal Base**

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

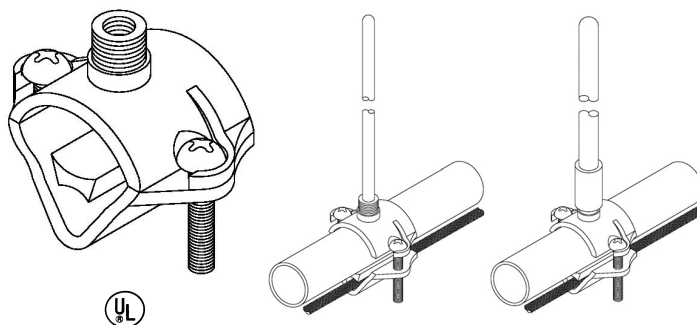
22	28S	32S	40	21	G3	A22	A28	A30
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Note: 266B/A266B may require an extended lead time.

**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**

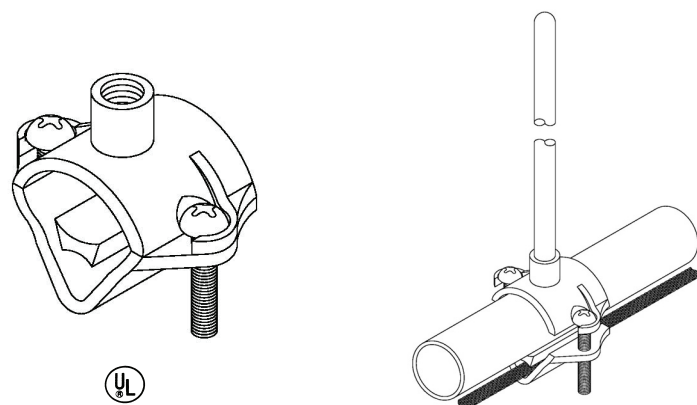
Cast aluminum with 5/8" male threads. Adaptor may be required. Wt. .28 lbs. each.

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**

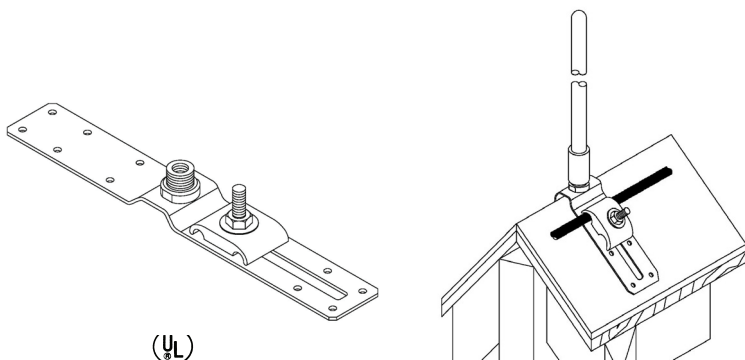
Cast aluminum. Wt. .28 lbs. each.

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.

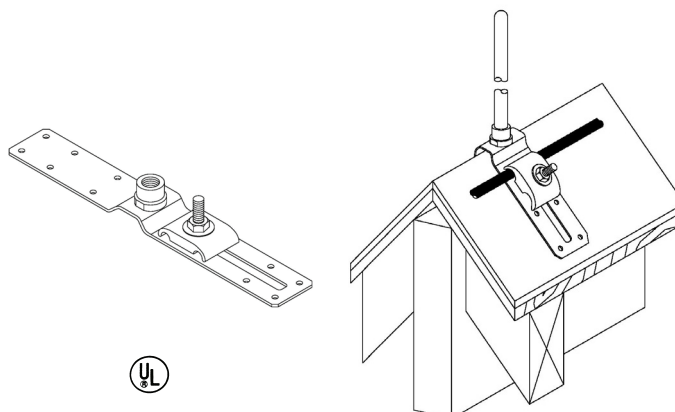
22	28S	32S	40	21	G3	A22	A28	A30
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M74 1/2" ID

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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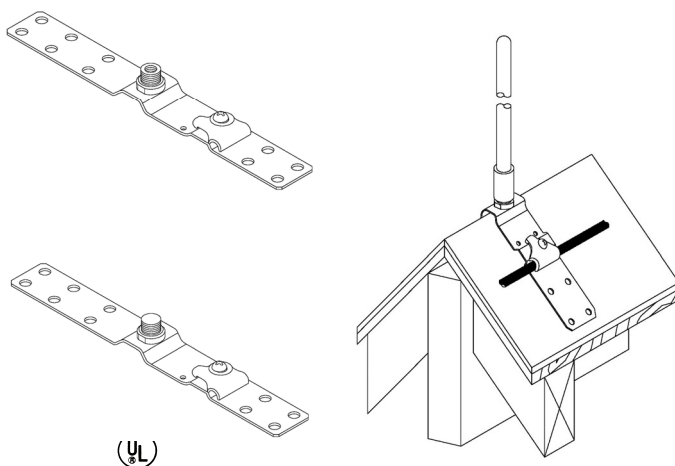
M74Y

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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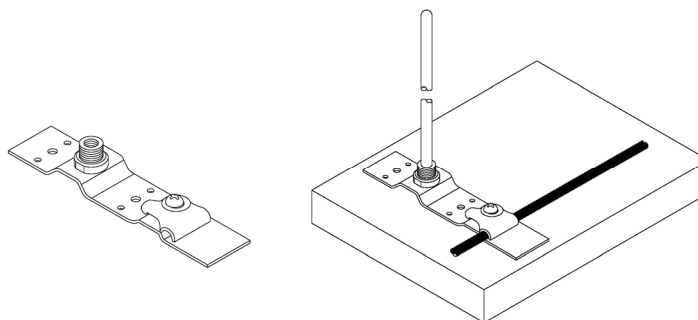
M55

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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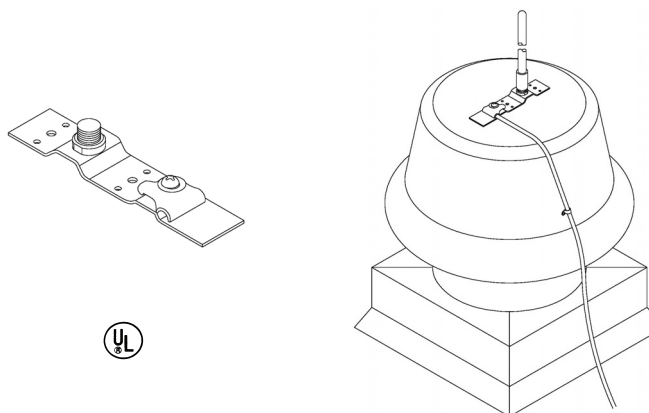
MA55

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**

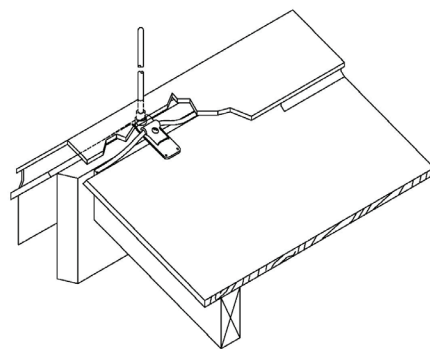
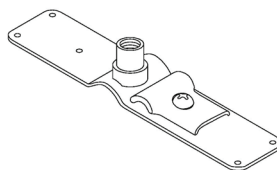
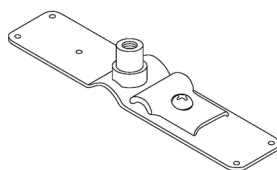
Cast bronze part with 1/2" female threads. Wt. .32 lbs. each

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

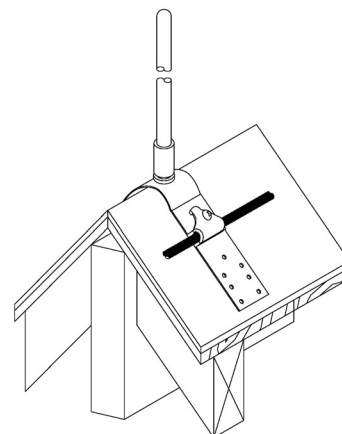
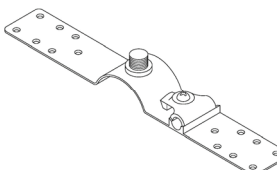
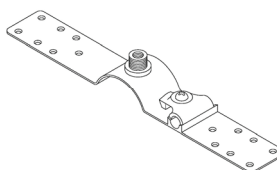
Cast aluminum with 1/2" female threads. Wt. .14 lbs. each.

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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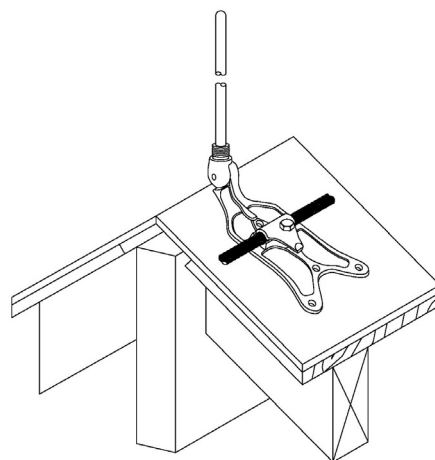
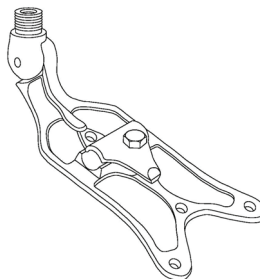
243

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	G3	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.

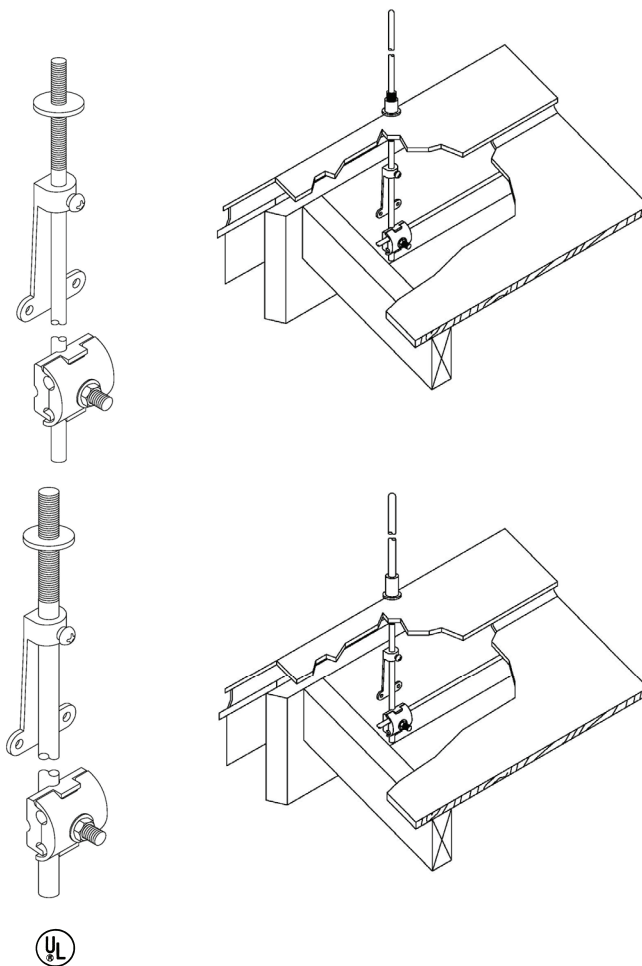
240-24" Assembly Copper, 3/8" x 24"
stem. Wt. 1.31 lbs. each.

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.



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

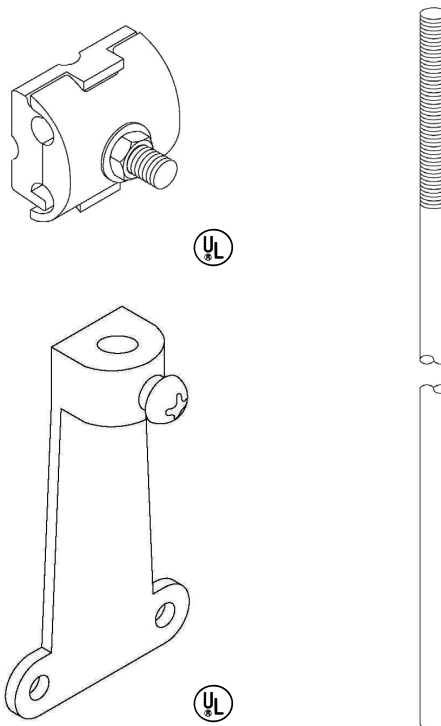
240B Stem

240-24" Stem

A240B Stem

240X

A240X

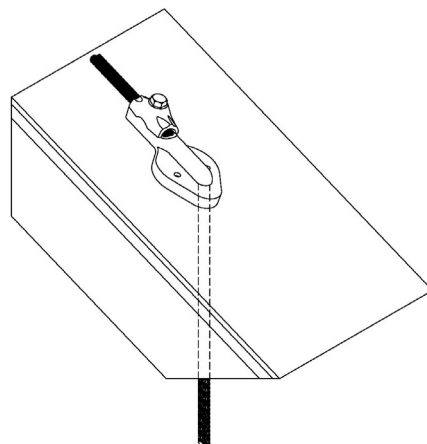
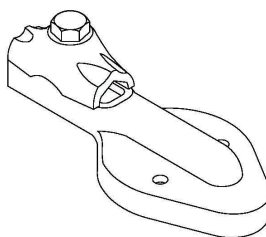


325

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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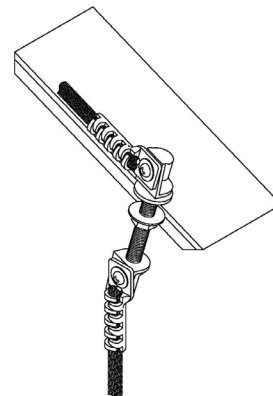
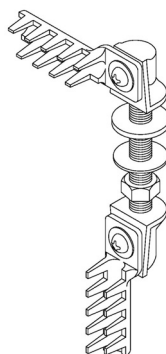


272A

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.

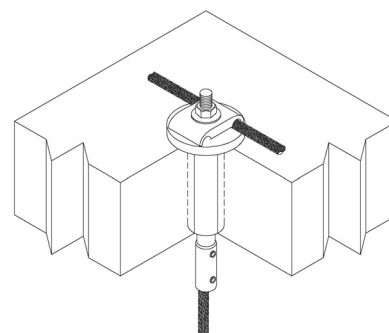
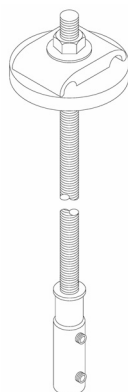
22	28S	32S	40	21	GS	A22	A28	A30
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597C **REVISED PART-Removed Base Plate**

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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A597C **REVISED PART-Removed Base Plate**

Thru Roof Connector for 1-1/2" PVC

Cast aluminum. Wt. .64 lbs. each.

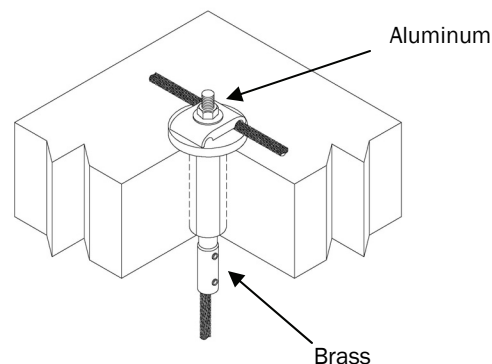
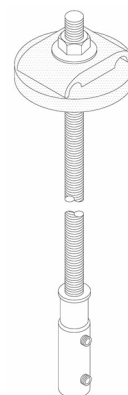
22	28S	32S	40	21	GS	A22	A28	A30
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597BM **REVISED PART-Removed Base Plate**

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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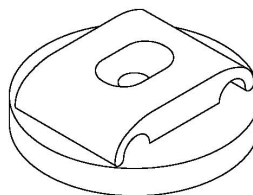
Note: The PVC shown is for illustrative purposes only and is not included as part of the assembly. Longer lengths of threaded rod available upon request. Set screws are available upon request.

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

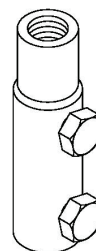
Item is longer available.



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

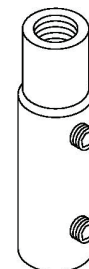
Machined aluminum. .08 lbs. each.

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.

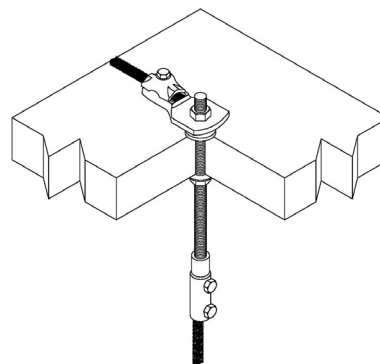
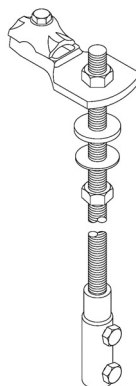
2	28S	32S	40	21	G3	A22	A28	A30
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A597R

Right Angle Thru Roof Connector

Cast aluminum. .74 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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Independent Protection Co., Inc.

Ph: 574-533-4116 or 800-860-8388

Fax: 574-534-3719

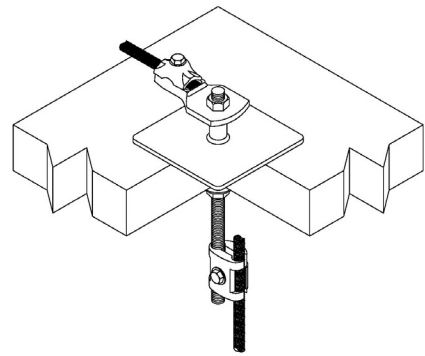
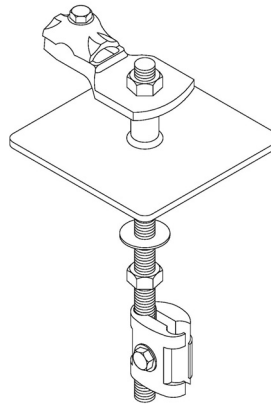
www.ipclp.com

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.

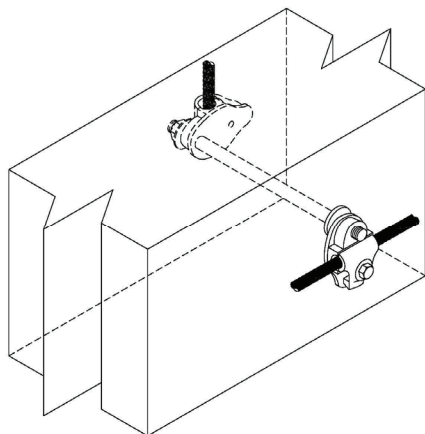
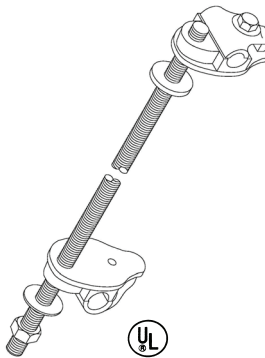
22	28S	32S	40	21	G3	A22	A28	A30
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272X

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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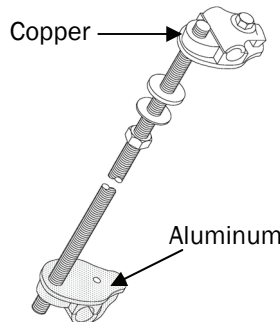


A272X

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.

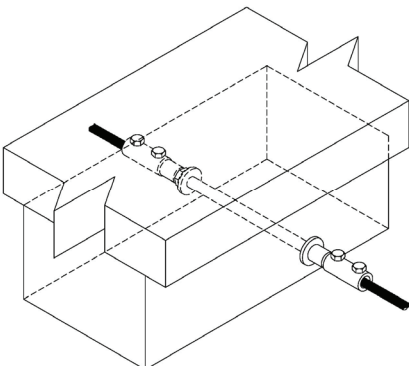
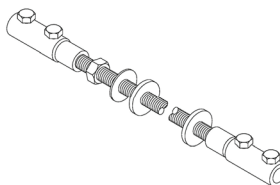
22	28S	32S	40	21	G3	A22	A28	A30
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597

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

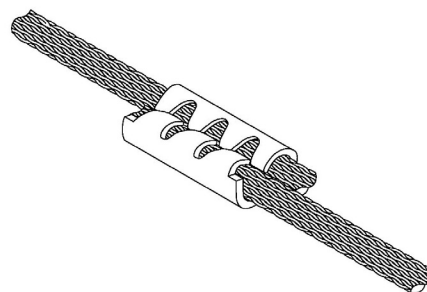
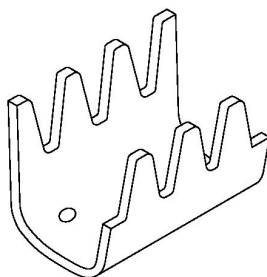
Machined aluminum. Wt. .68 lbs. each.

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**

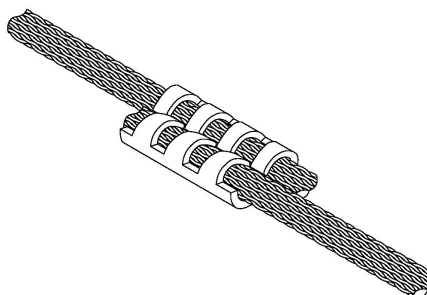
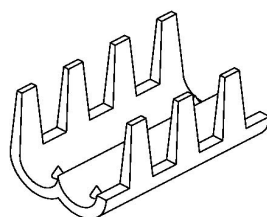
Pressed aluminum. Wt. .06 lbs. each.

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**

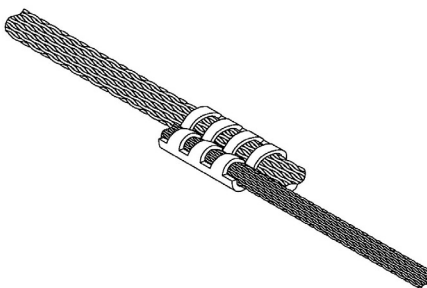
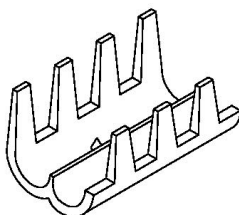
Cast aluminum. Wt. .06 lbs. each.

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**

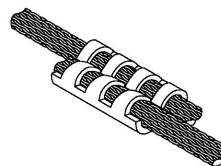
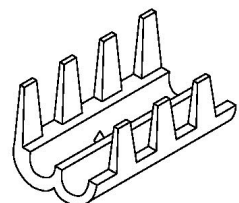
Cast aluminum. Wt. .06 lbs. each.

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.

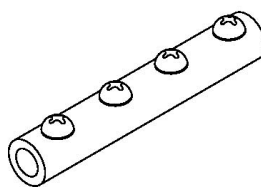
22	28S	32S	40	21	G3	A22	A28	A30
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M3X**Straight Splicer**

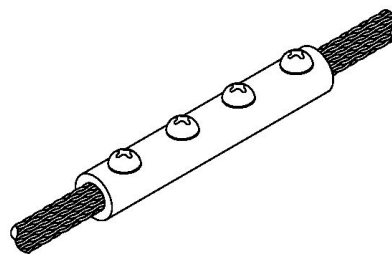
Machined brass compression splicer 2" length. Wt. .10 lbs. each.

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

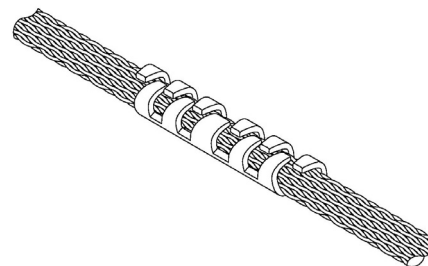
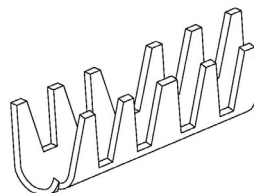
Machined aluminum. Wt. .04 lbs.

22	28S	32S	40	21	G3	A22	A28	A30
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**33L****Straight Splicer**

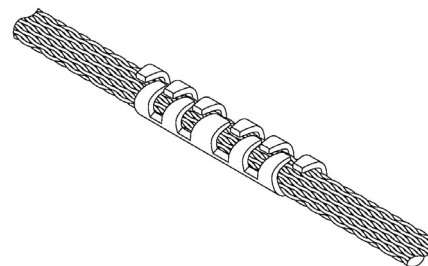
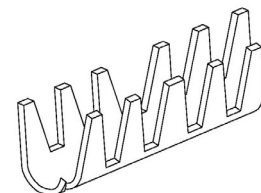
Pressed copper crimp splicer 3-3/4" length. Wt. .10 lbs. each.

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

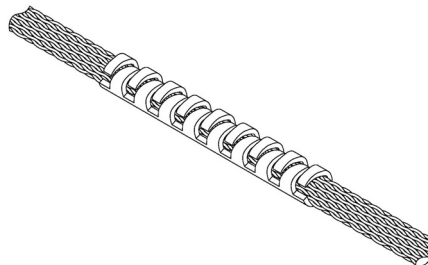
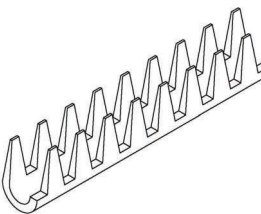
Pressed aluminum. Wt. .04 lbs. each.

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

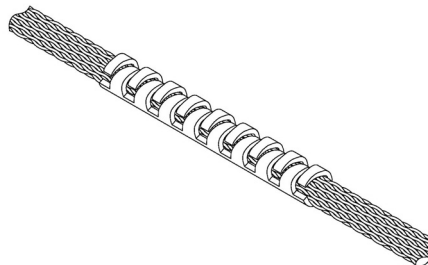
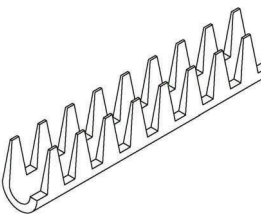
Cast bronze crimp splicer 4-1/2" length. Wt. .20 lbs. each.

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

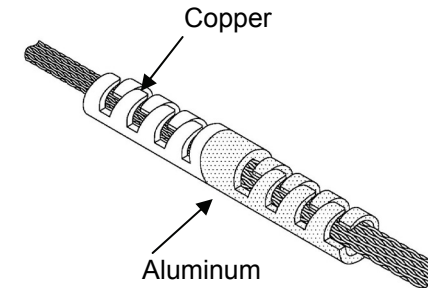
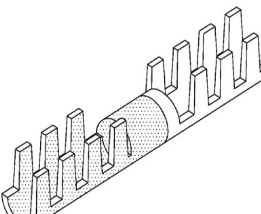
Cast aluminum. Wt. .08 lbs. each.

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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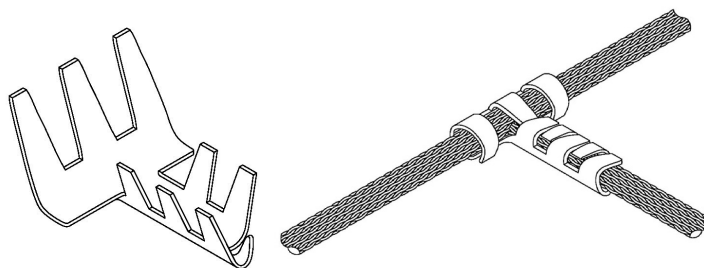


34L**"T" Splicer**

Pressed copper crimp splicer.

Wt. .12 lbs. each.

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

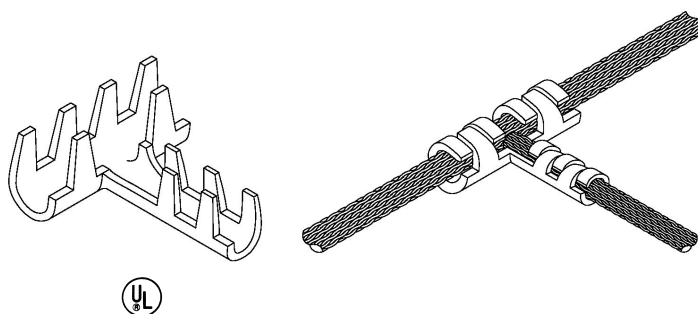
Pressed aluminum. Wt. .04 lbs. each.

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.

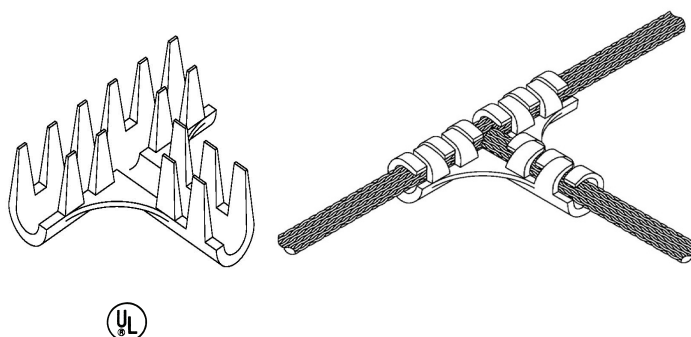
22	28S	32S	40	21	G3	A22	A28	A30
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262**"T" Splicer**

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.

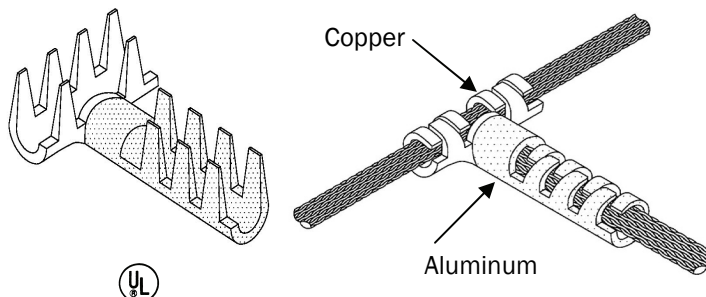
22	28S	32S	40	21	G3	A22	A28	A30
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A34B**Bimetal "T" Splicer**

Cast aluminum and bronze crimp splicer for use with copper and aluminum cable.

Wt. .30 lbs. each.

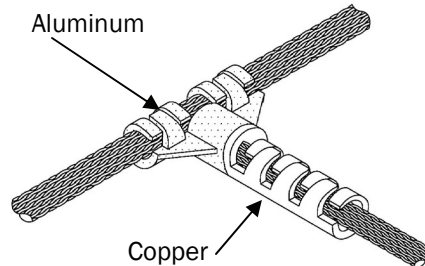
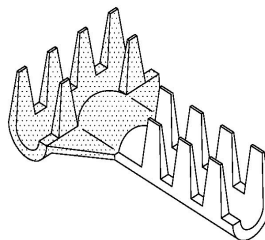
22	28S	32S	40	21	G3	A22	A28	A30
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A34A**Bimetal "T" Splicer**

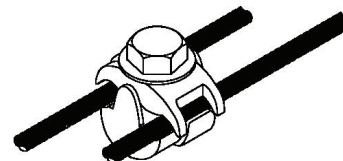
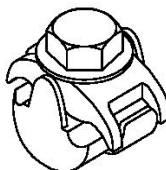
Cast aluminum and bronze crimp splicer for use with copper and aluminum cables. Wt. .34 lbs. each.

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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32

A297**Secondary Multi-Purpose Clamp**

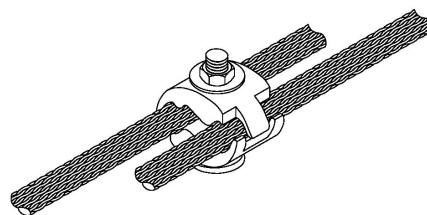
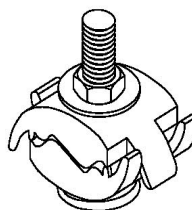
Cast aluminum. Wt. .08 lbs. each.

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**

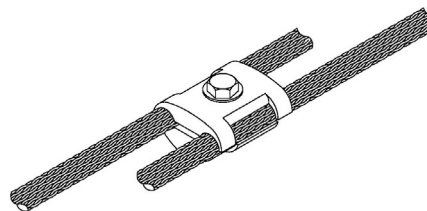
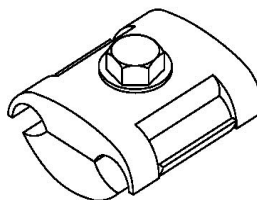
Cast aluminum. Wt. .14 lbs. each.

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**

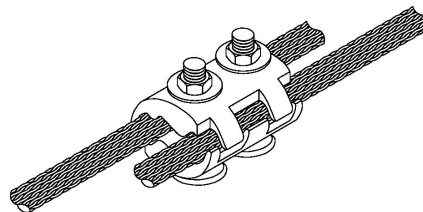
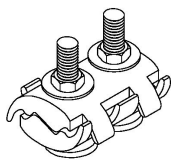
Cast aluminum. Wt. .14 lbs. each.

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**

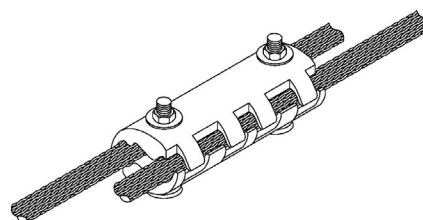
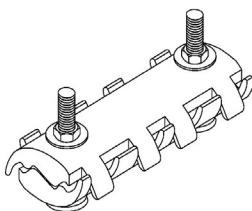
Cast aluminum. Wt. .28 lbs. each.

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**

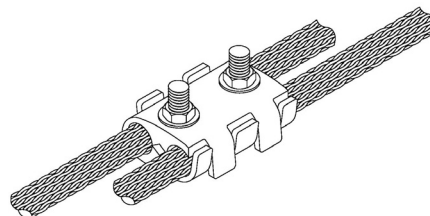
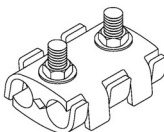
Cast aluminum. Wt. .34 lbs. each.

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**

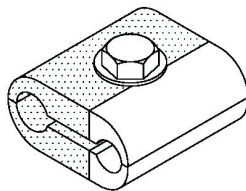
Cast aluminum. Wt. .38 lbs. each.

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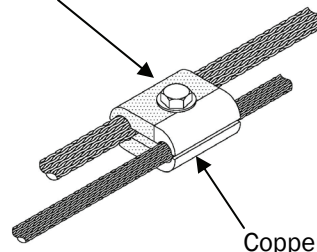
A41P**Parallel Bimetal Connector**

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

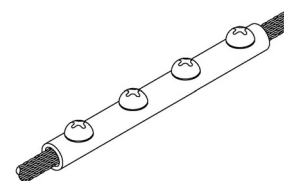
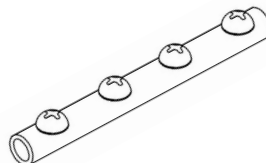


Copper

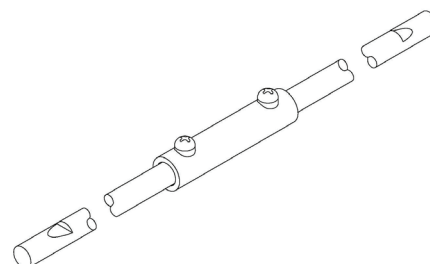
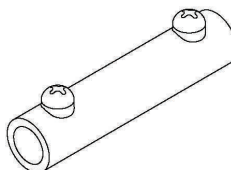
290**Small Straight Bimetal Connector**

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.

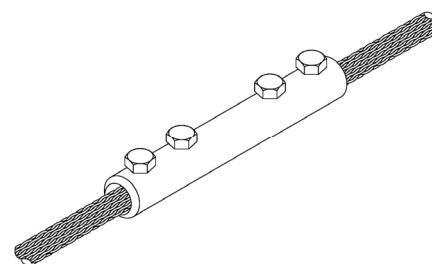
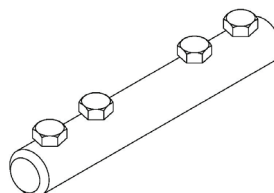
**A251****Notched Rod Connector**

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**

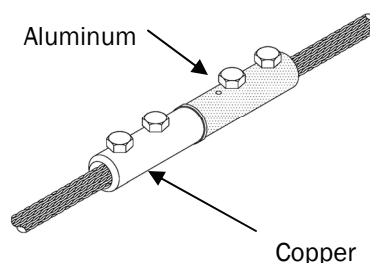
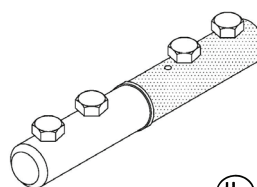
Machined aluminum. Wt. .24 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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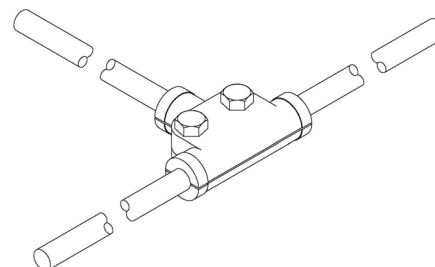
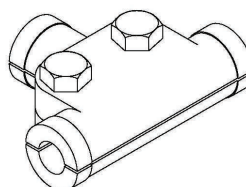
**MA175****Bimetal Connector-Disconnecter**

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.

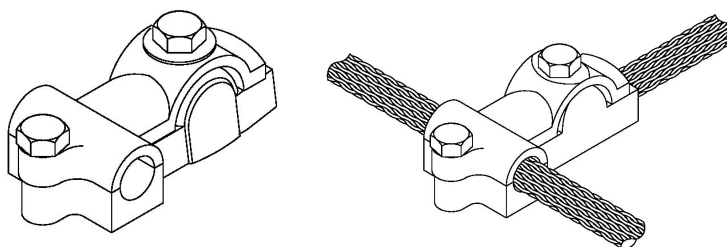
**A252****Notched Rod "T" Connector**

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**

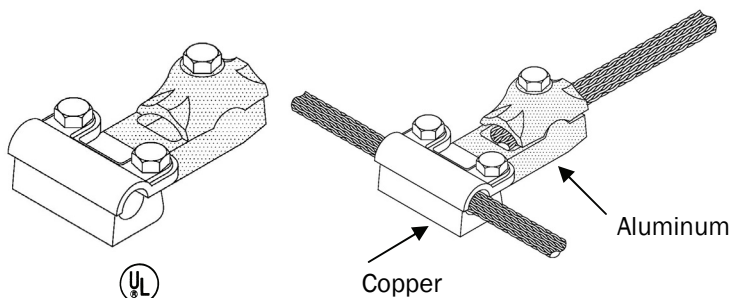
Cast aluminum. Wt. .18 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A304B****Bimetal "T" Connector**

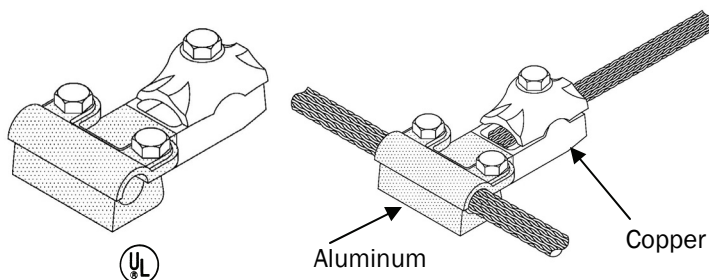
Cast bronze and aluminum pressure type
"T" connector. Wt. .64 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A304A****Bimetal "T" Connector**

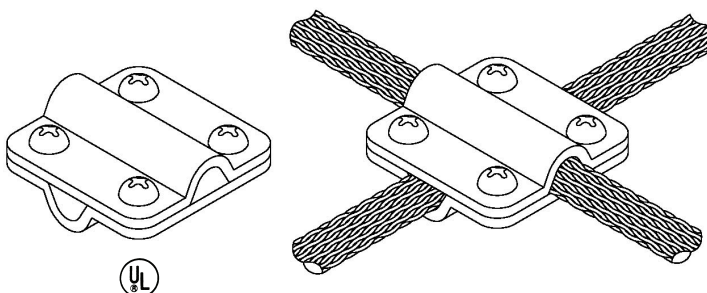
Cast bronze and aluminum pressure type
"T" Connector. Wt. .64 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**119****Cross Run Connector**

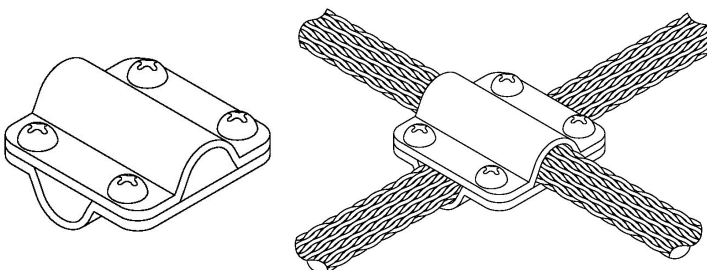
Cast bronze pressure type connector for
connecting two cables. Wt. .58 lbs. each.

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.

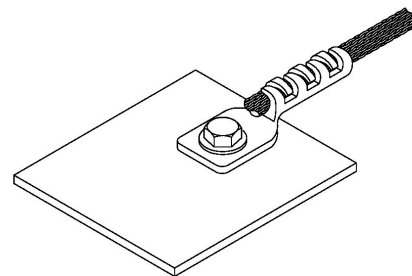
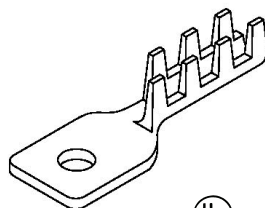
22	28S	32S	40	21	G3	A22	A28	A30
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A4

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.

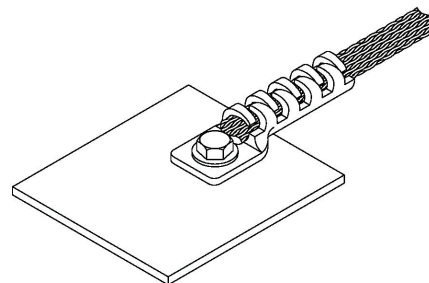
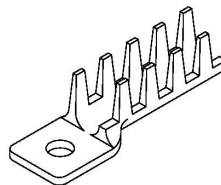
22	28S	32S	40	21	G3	A22	A28	A30
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A5

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.

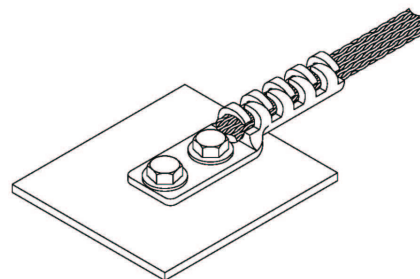
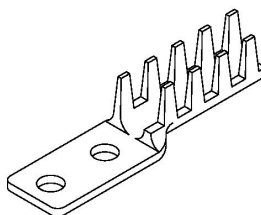
22	28S	32S	40	21	G3	A22	A28	A30
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A219

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.

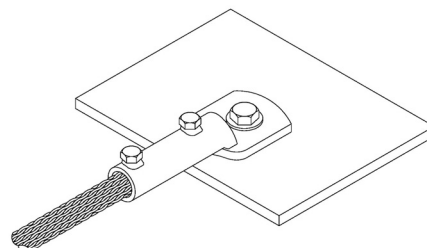
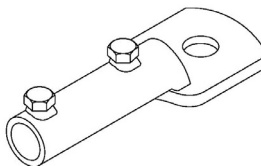
22	28S	32S	40	21	G3	A22	A28	A30
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A596A

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.

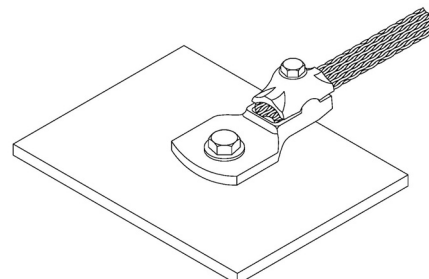
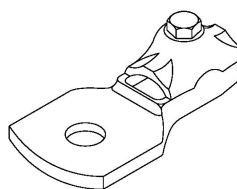
22	28S	32S	40	21	G3	A22	A28	A30
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A596

Bus Terminal

Cast aluminum. Wt. .18 lbs. each.

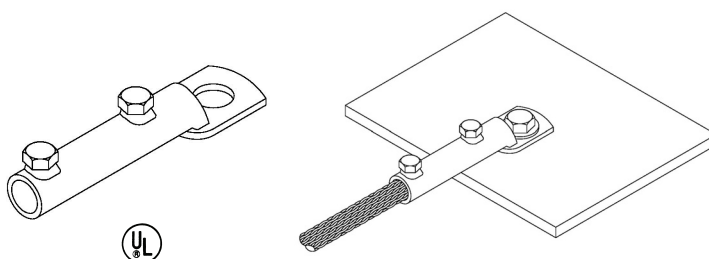
22	28S	32S	40	21	G3	A22	A28	A30
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G67**Bus Terminal**

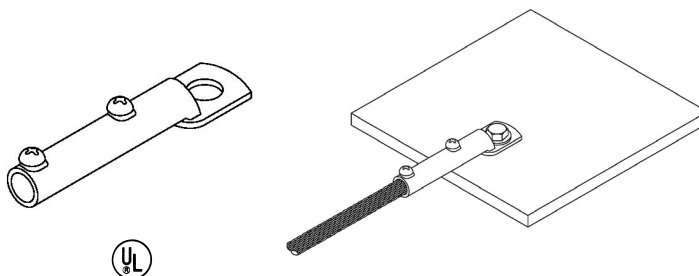
Cast bronze used for connecting standard cable. Mounting hole is 1/2" diameter. Wt. .28 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**AG67****Heavy Duty Bus Terminal**

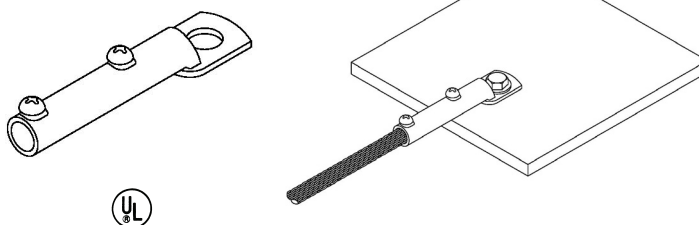
Cast aluminum. Wt. .12 lbs. each.

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**

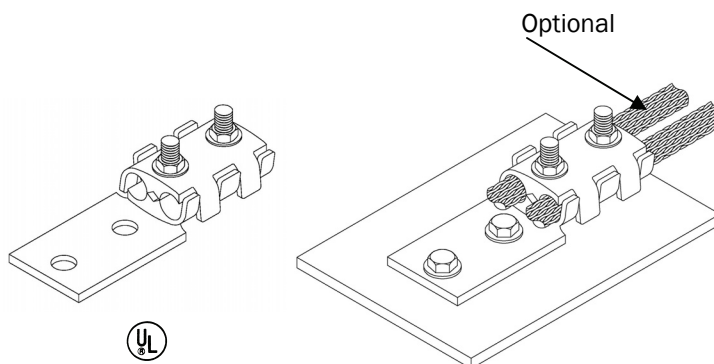
Cast aluminum. Wt. .06 lbs. each.

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**

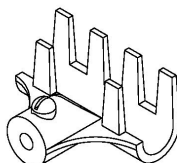
Cast aluminum. Wt. .46 lbs. each.

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

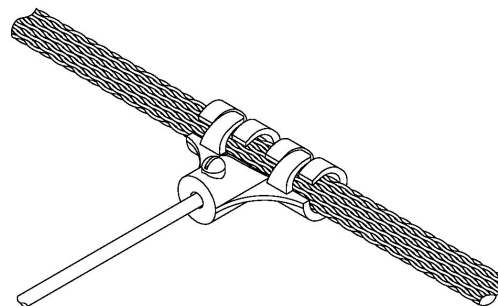
Cast crimp cable connector for use with solid number 6 electrical wire. Wt. .14 lbs. each.

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

Cast aluminum. Wt. .04 lbs. each.

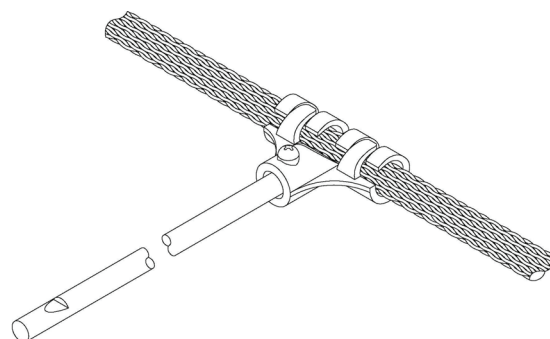
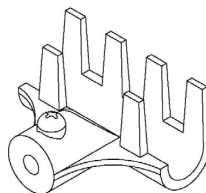
22	28S	32S	40	21	G3	A22	A28	A30
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270**"T" Connector**

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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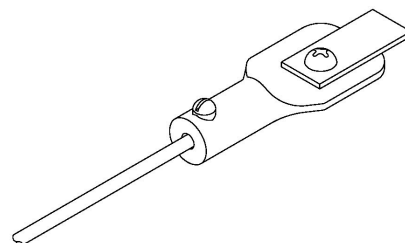
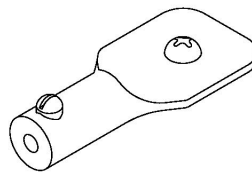
**270A****"T" Connector**

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**

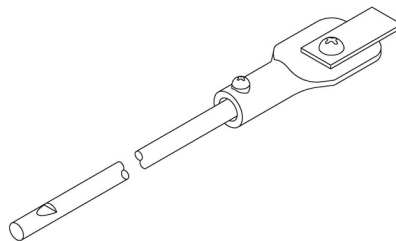
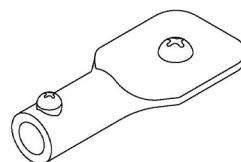
Cast bronze cable connector for solid number 6 electrical wire for bonding to flat metal surface. Wt. .14 lbs. each.

**A305X****Straight Bond Connector**

Cast aluminum. Wt. .04 lbs. each.

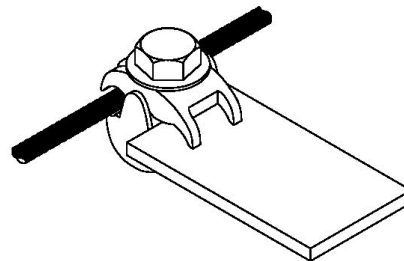
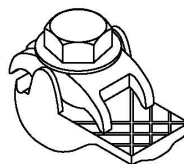
258**Chimney Connector**

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**

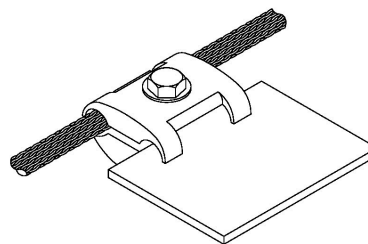
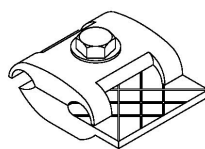
Cast aluminum. Wt. .08 lbs. each.

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**

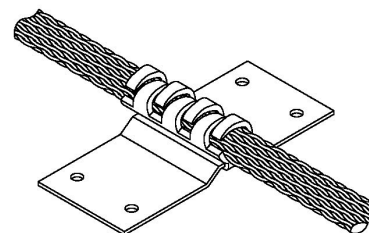
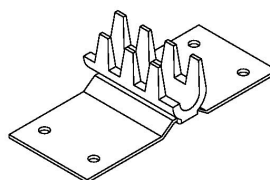
Cast aluminum. Wt. .16 lbs. each.

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**

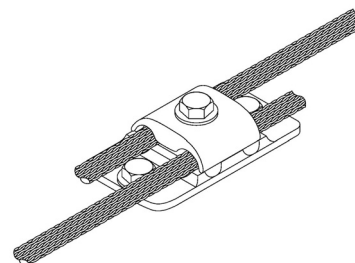
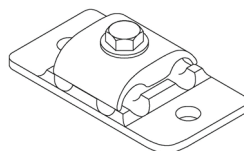
Cast and pressed aluminum. Wt. .10 lbs. each.

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

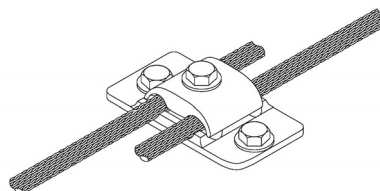
Cast bronze plate with pressure type universal style cable fastener. Bonding area is 8 square inches. Mounting holes are 5/16" diameter and are 3" center hole spacing. Wt. .66 lbs. each.

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

Aluminum. Wt. .22 lbs. each.

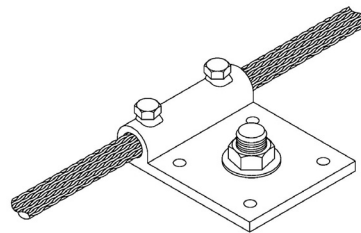
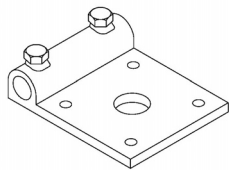
22	28S	32S	40	21	G3	A22	A28	A30
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238**Heavy Duty Bonding Plate**

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**

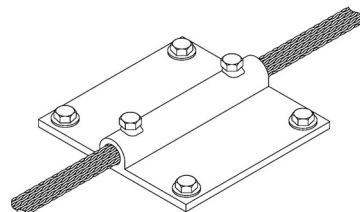
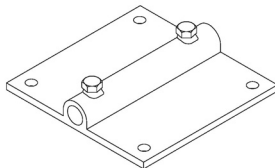
Cast aluminum. Wt. .26 lbs. each.

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**

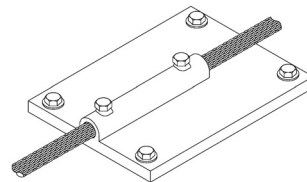
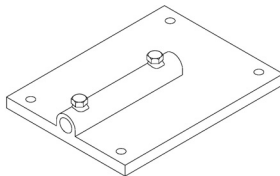
Cast aluminum. Wt. .40 lbs. each.

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.

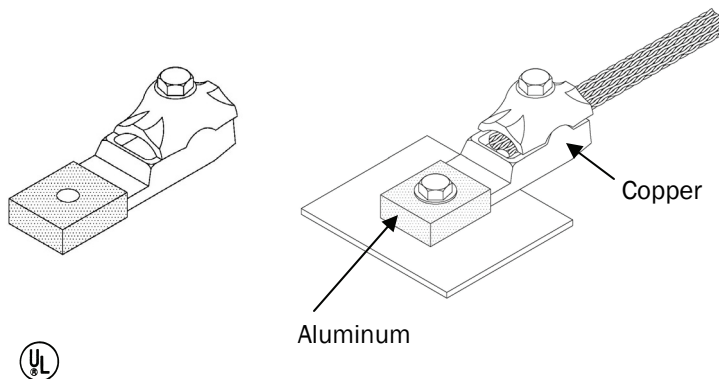
22	28S	32S	40	21	G3	A22	A28	A30
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A183X**Bimetal Connector**

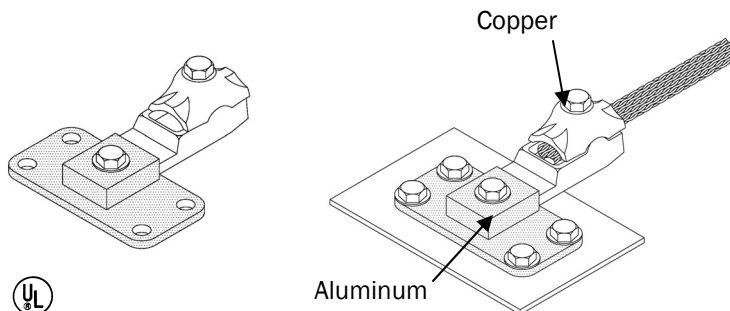
Cast bronze and aluminum. For connecting copper cable to aluminum surfaces. Mounting hole is 5/16" diameter. Wt. .48 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**A183****Bimetal Bonding Plate**

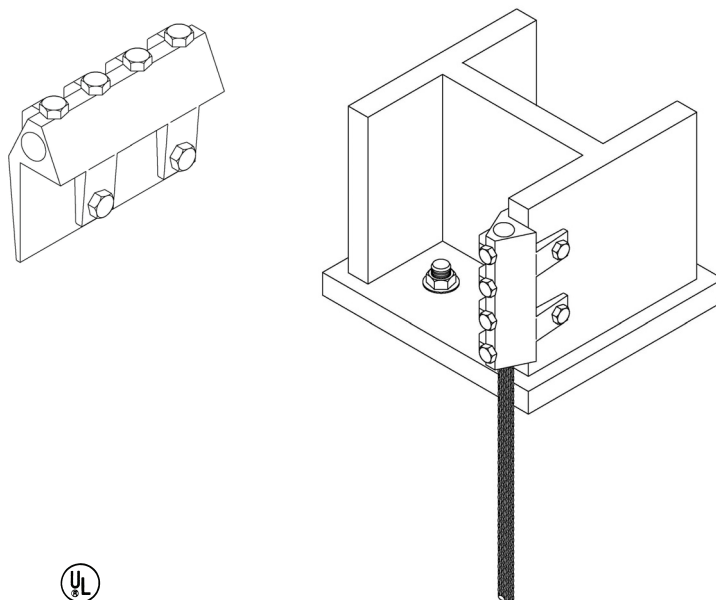
Cast aluminum and bronze for connecting copper cable to structural beams. Part provides 8 square inches of bonding area. Mounting holes are 5/16" diameter. Wt. .60 lbs. each.

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.

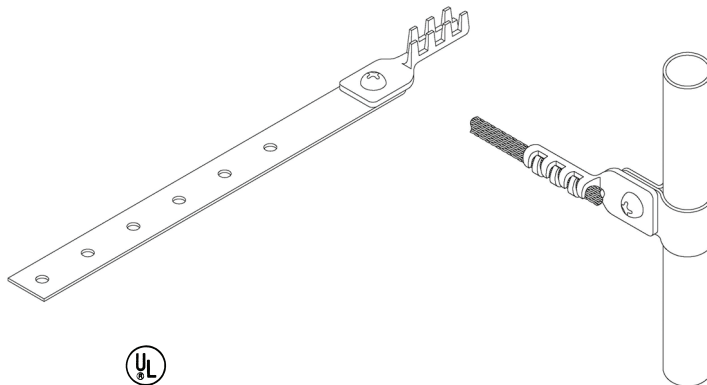
Wt. .22 lbs. each.

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.

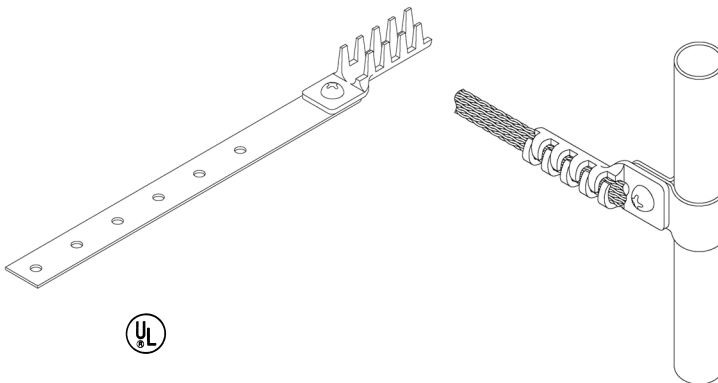
Wt. .28 lbs. each.

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.

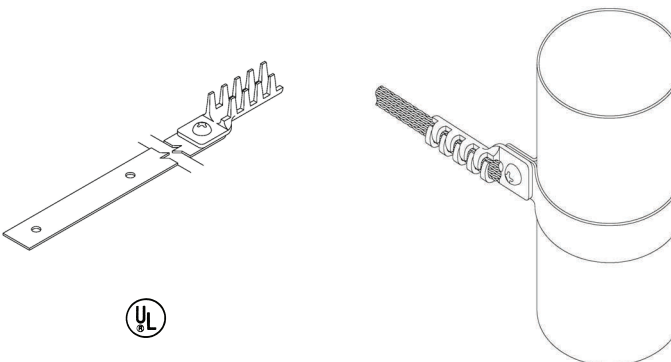
Wt. .42 lbs. each.

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**

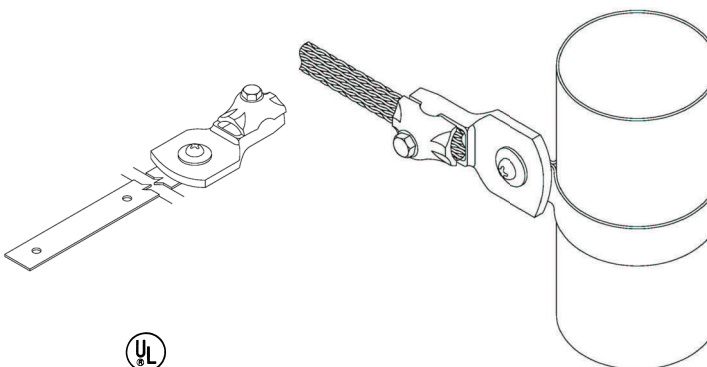
Cast pressure type fitting IP-596 with 15" of tinned IP-49X copper strip for bonding to metal bodies up to 4" diameter. Longer lengths available upon request. Wt. .80 lbs. each.

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.

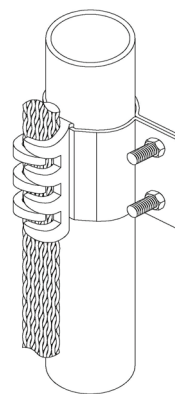
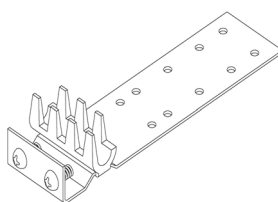
22	28S	32S	40	21	G3	A22	A28	A30
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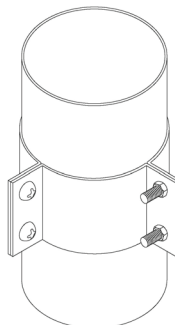
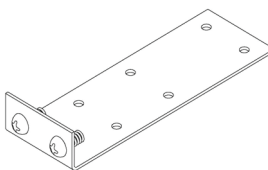
12**Bonding Strap Fastener**

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.

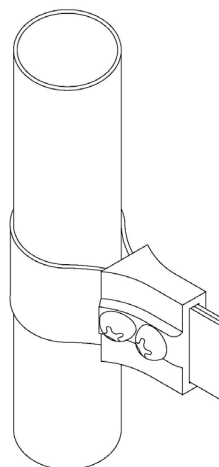
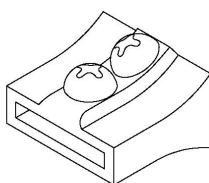
22	28S	32S	40	21	G3	A22	A28	A30
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**13****Bonding Strap Extension**

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**

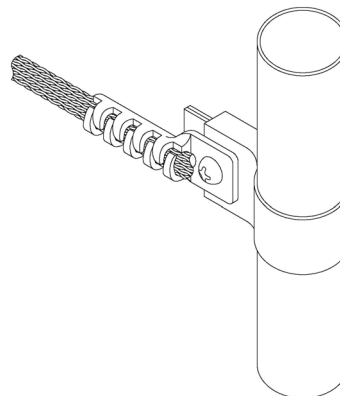
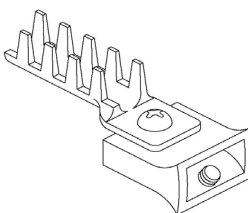
Cast bronze crimp connector for standard cables and used with IP-49, 1" wide copper strip. Wt. .28 lbs. each.

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.

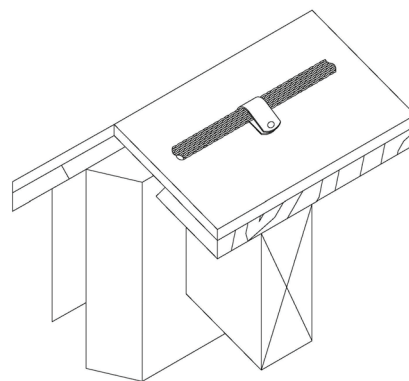
22	28S	32S	40	21	G3	A22	A28	A30
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83**One Nail Clip Fastener**

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**

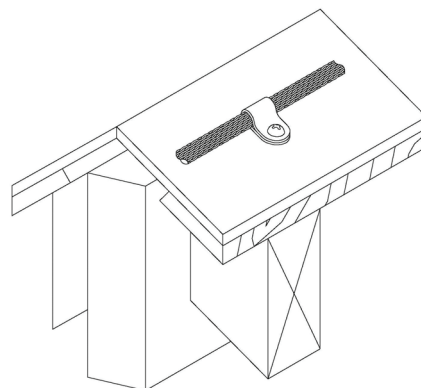
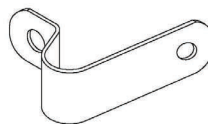
Pressed aluminum. Wt. .006 lbs. each.

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**

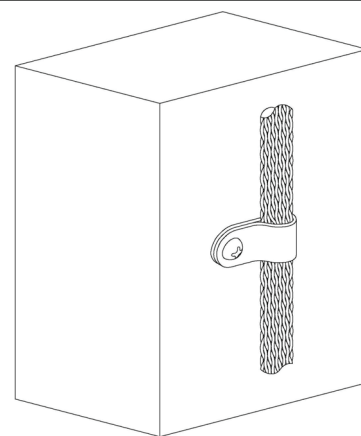
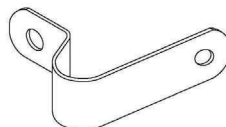
Pressed aluminum. Wt. .01 lbs. each.

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**

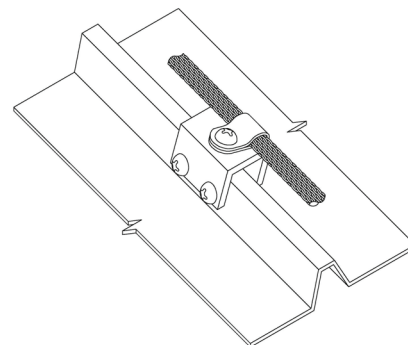
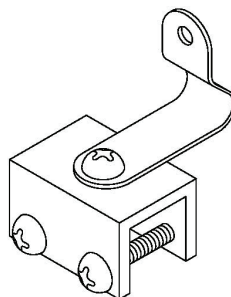
Pressed aluminum. Wt. .01 lbs. each.

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**

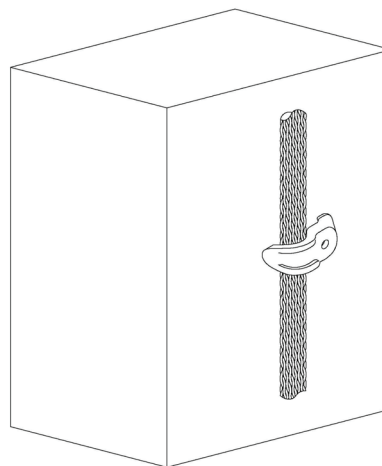
Machined aluminum for seams up to 7/8" wide. Wt. .14 lbs. each.

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**

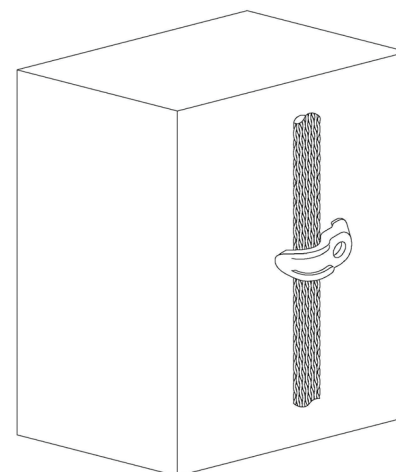
Cast aluminum. Wt. .01 lbs. each.

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**

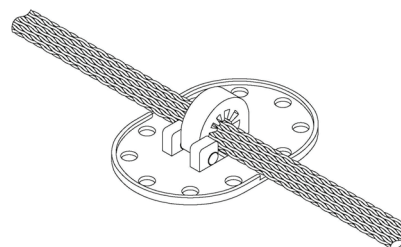
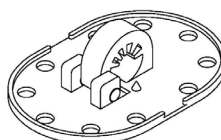
Cast aluminum. Wt. .01 lbs. each.

22	28S	32S	40	21	G3	A22	A28	A30
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**265P****Poly Adhesive Cable Fastener**

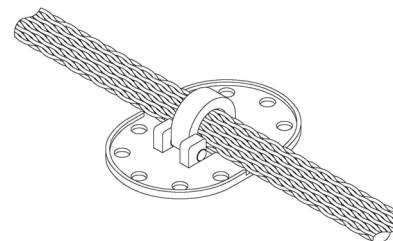
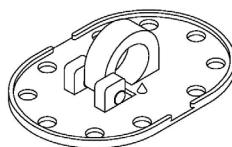
Superior polycarbonate plastic adhesive cable holder. Part is 2-3/8" wide x 3-1/4" long. Extremely durable, part is fully tested and approved by UL including temperature and impact tests. Wt. .04 lbs. each.

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.

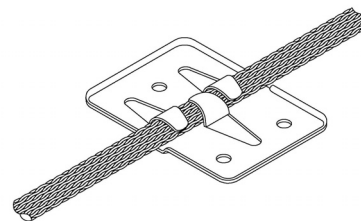
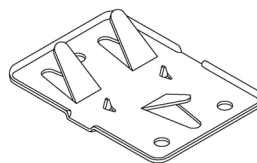
22	28S	32S	40	21	G3	A22	A28	A30
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265A**Adhesive Cable Holder**

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**

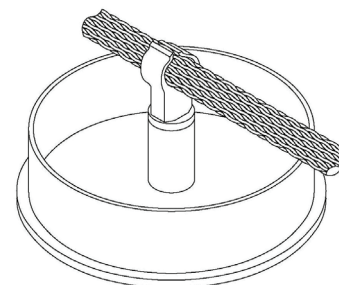
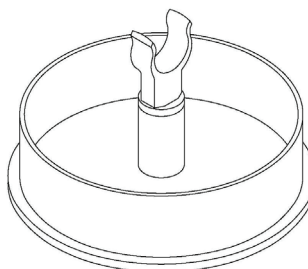
Aluminum. Wt. .016 lbs. each.

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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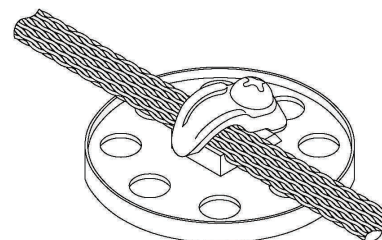
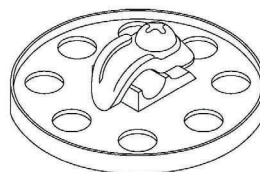


Note: 266/A266 may require an extended lead time.

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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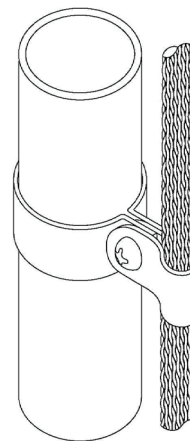
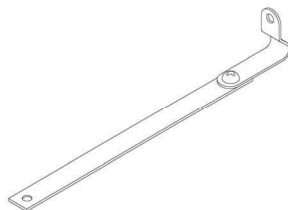
181C

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.

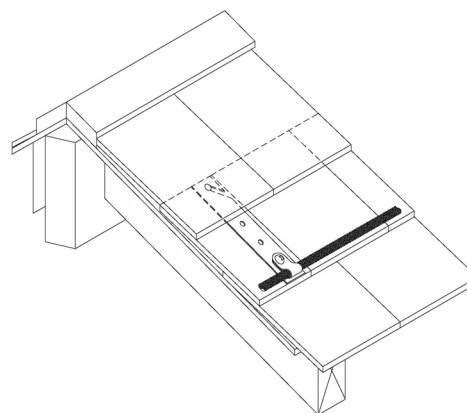
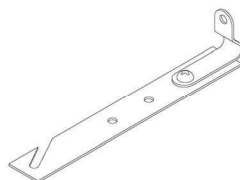
22	28S	32S	40	21	G3	A22	A28	A30
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268

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.

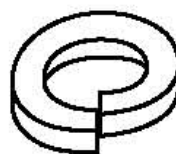
22	28S	32S	40	21	G3	A22	A28	A30
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Lock Washers

148L – 1/4" – Wt. .002 lbs. each.

148AL – 5/16" – Wt. .002 lbs. each.

148BL – 3/8" – Wt. .006 lbs. each.



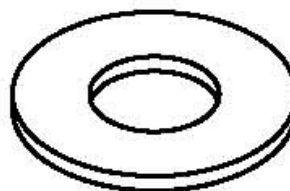
Flat Washers

249L – 1/4" – Wt. .002 lbs. each.

249AL – 5/16" – Wt. .004 lbs. each.

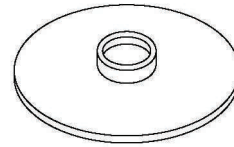
249BL – 3/8" – Wt. .006 lbs. each.

249CL – 1/2" – Wt. .016 lbs. each.

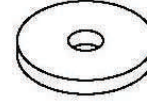


Lead Washers**301B - 1-1/4" OD Washer**

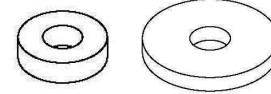
Washer for use with either 3/8" or 1/2" stems. Wt. .062 lbs. each.

**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.**

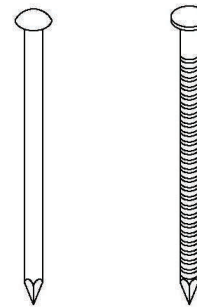
Wt. .006 lbs. each.

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.**

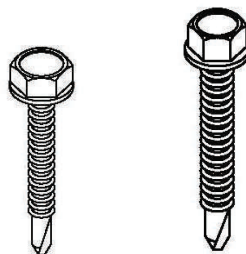
225 - #12 - 1-1/2" length - Wt. .012 lbs. each.



Tek Screws

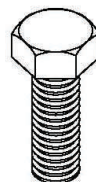
125T - #10-14 x 1" length - Self-tapping.
Wt. .008 lbs. each.

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**

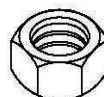
128L - 1/4"-20. Wt. .006 lbs. each.

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.

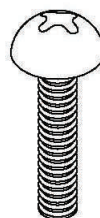
**Phillips Head Machine Screws**

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**

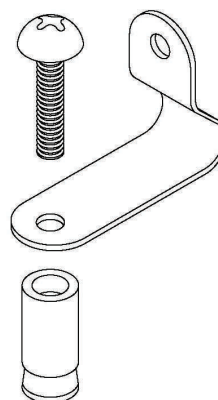
Assembly includes an IP-121A cooper loop
fastener and a 1/4" lead anchor.
Wt. .08 lbs. each.

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**

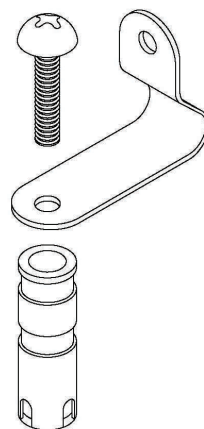
Assembly includes an IP-121A copper loop fastener and a 1/4" expansion anchor.
Wt. .08 lbs. each.

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**

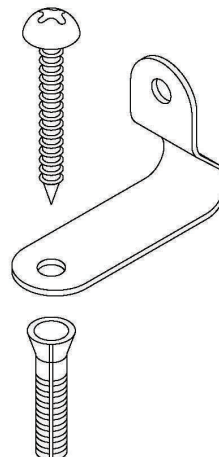
Assembly includes 1" SS wood screw, IP-121A copper loop fastener and lead anchor. Wt. .046 lbs. each.

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.

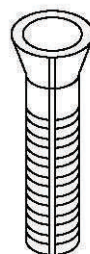
22	28S	32S	40	21	G3	A22	A28	A30
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Lead Anchor Screw-In**For Wood Applications**

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

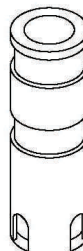
295C - For #12 Size Screw (IP-225), 1-1/2" length. Drill size 5/16". Wt. .02 lbs. each.

**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

IPC offers two adhesives for general purpose adhesives for metal, masonry and wood frame applications. IPC strongly recommends that contractors verify in advance with roofing contractor or manufacturer prior to installation of any components.



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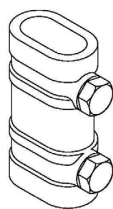
Ground Rods—Copperclad

IPC#	Specs	Wt.
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

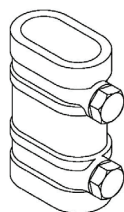
Ground Rods—Stainless Steel

IPC#	Specs	Wt.	
138L	1/2" x 10'	6.80	
577L	5/8" x 10'	10.50	*
579L	3/4" x 10'	15.30	*

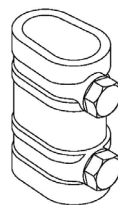
* Special Order Items—Extended Delivery



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

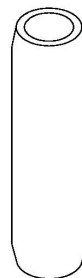
22	28S	32S	40	21	G3	A22	A28	A30
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Compression Ground Rod Couplers

IPC#	Specs	Wt.
141CC	1/2" Coupler	.32
141XC	5/8" Coupler	.32
141YC	3/4" Coupler	.32

IPC offers 3" length compression couplers for applications that require multiple ground rods.



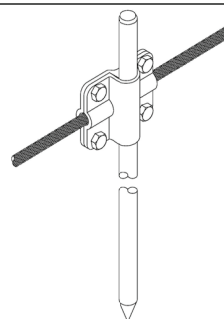
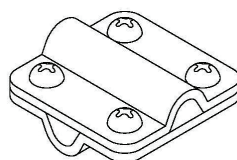
53

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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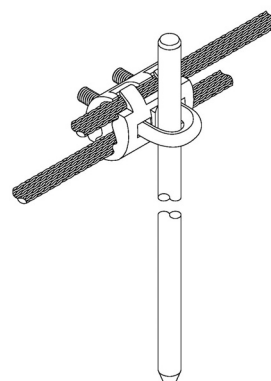
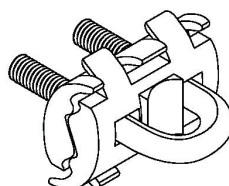


28U

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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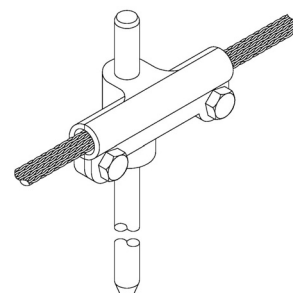
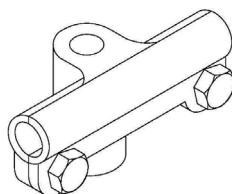


196

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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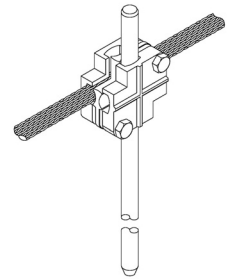
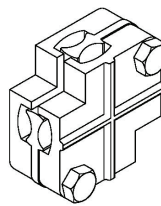
53

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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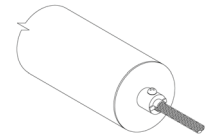
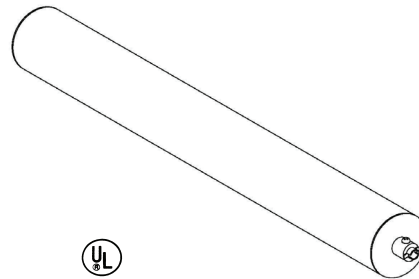


583

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	A22	A28	A30
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583X

Copper Charcoal Ground

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

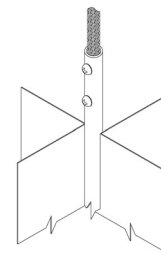
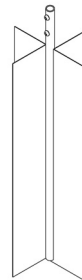
22	28S	32S	40	21	G3	A22	A28	A30
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584

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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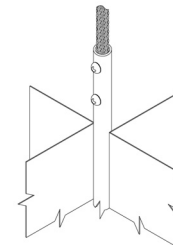
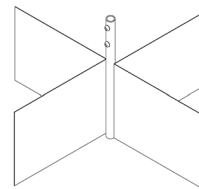


585

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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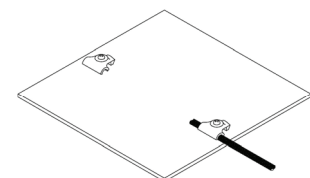
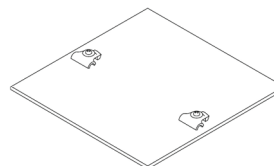


586

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.

22	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:

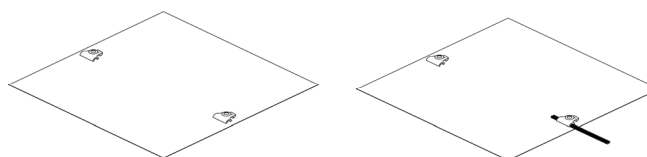
587 — 18" x 36" length.
Wt. 6.75 lbs. each.

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.

22	28S	32S	40	21	G3	A22	A28	A30
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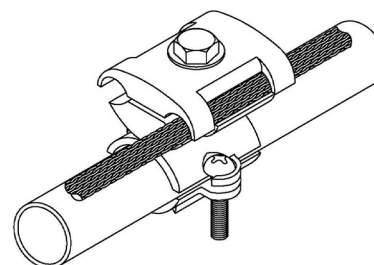
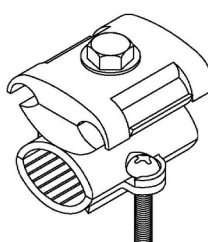
Note: Drawing is typical for all ground plate sizes and shown for illustrative purposes.

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.

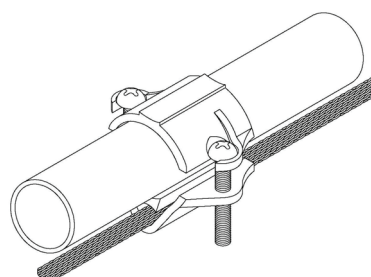
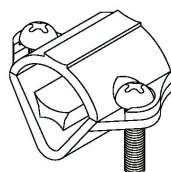
22	28S	32S	40	21	G3	A22	A28	A30
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306

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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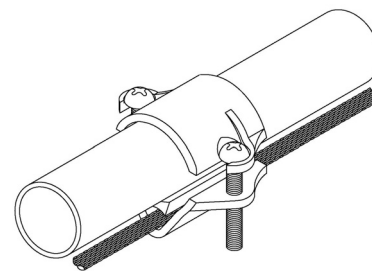
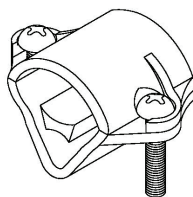
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306X

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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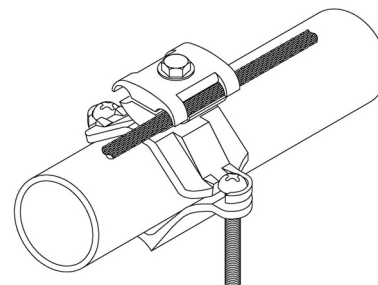
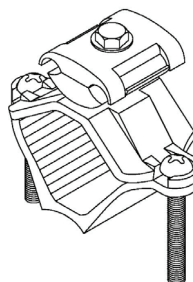
56

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.

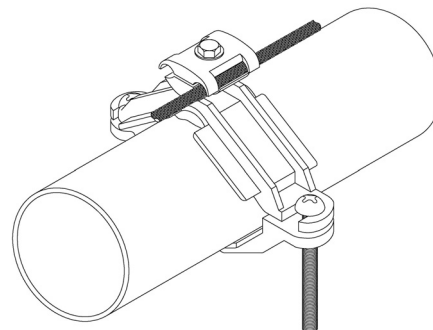
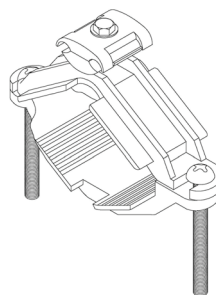
22	28S	32S	40	21	G3	A22	A28	A30
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306B

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

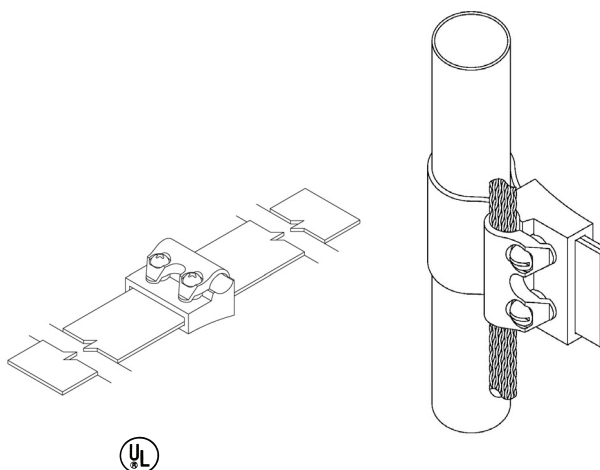
Tite-Grip Strap and Clamp

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. .102 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	G3	A22	A28	A30
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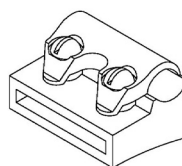
57

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	G3	A22	A28	A30
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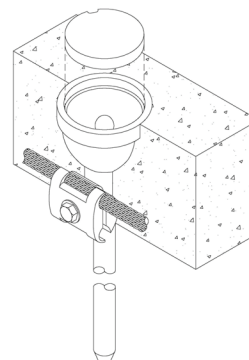


310

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.

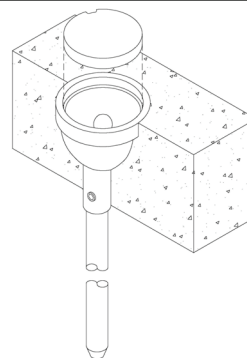
22	28S	32S	40	21	G3	A22	A28	A30
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311

Ground Receptacle

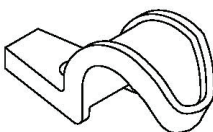
Cast bronze receptacle for use with ground rod. Lid is furnished with SS chain that secures top to receptacle. When ordering, specify ground rod diameter and threaded or plain. Wt. 2.22 lbs. each.



G81

Guard Fastener

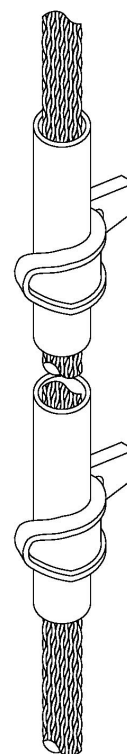
Cast bronze guard fastener for use with IP-591, 3/4" copper guard pipe. Bolt hole size is 5/16" diameter. Wt. .06 lbs. each.



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

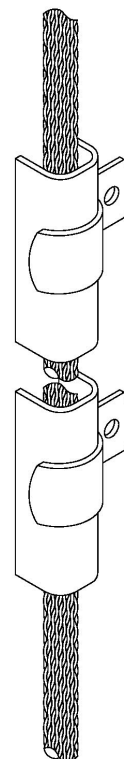
Galvanized steel fastener for use with IP-349 polyurethane "U" guard or 3/4" PVC. Not for use with copper guards. Wt. .08 lbs. each.



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.



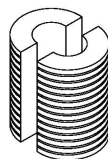
22	28S	32S	40	21	G3	A22	A28	A30
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177

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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IPC has access to other products and services in addition to the lightning protection products that we manufacture. For more information and pricing, please contact IPC Sales and we will assist you.

Chemical Ground Rods

IPC has 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

IPC has 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 IPC today with your specific application needs and we will assist you with the proper equipment.

Exothermic Welding Devices

IPC utilizes 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 the IPC 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 IPC 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 IPC cables:

IPC Cable	Cable Code
IPC-22	A
IPC-32S	C
IPC-40	E
IPC-21	G
IPC-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.

IPC offers our contractors a few specialized tools to assist in your installations. More common tools, such as Channel Locks®, hammers, screwdrivers, box wrenches, etc., are ones already in your tool box. If you require any of these, your local home supply store will have these items for your purchase. .

354

Collapsible Cable Stand

Stand is made entirely of steel but is lightweight, sturdy and durable. The stand is a big aid for small and large jobs as cable is unwound from the spool without getting tangled. Unit weight is approximately 9 lbs.



357

Cable Cutters

Can be used with both copper and aluminum cable for sizes up to IPC 21 and A30. cable. Cutters are approximately 9" in length.



358

Knipex® Alligator Pliers

Superior gripping angle and power over traditional Channel Locks®. The Knipex® Pliers are 10" in length with 3" maximum jaw opening.



365

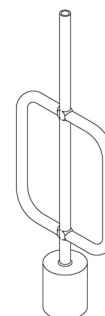
Ground Rod Driver

Driver is designed for driving ground rods into mother earth. The driver is much easier and safer to use as opposed to a sledge hammer. The handle is a hollow pipe and slides up and down the rod. IPC offers this product as a lower cost alternative rather than the more expensive electric drivers. Driver is approximately 25" in length and weighs about 19 lbs.



#365DH

Dual Handle Ground Rod Driver. This enhanced ground rod driver adds another element of safety and stability over the IPC basic 365 model. This driver is approximately 30" in length and weighs about 23# .



369

Point Level

Level is satisfactory for use with any of our strike termination devices. The level is lightweight and small enough to carry in your pocket.



Sperry 4102

Ground Resistance Tester

Tester is used for measuring the resistance of a grounding electrode or ground rod. The tester will provide the user with a three point fall of potential ground resistance field test for projects and installations where this is required. Unit is very compact, battery powered and comes in a convenient carrying case. Complete instructions are provided by the unit's manufacturer.



TGW - 910 - 10

Ground Test Well

Fabricated and molded from HDPE Plastic for non-traffic areas like golf courses and grassy areas. Size is 13" OD bottom lip x 10 1/2" height. Wt. 4.15 lbs each.



Other Ground Test Wells

IPC is able to provide additional test wells based on your specifications. IPC has access to other vendors that provide large units in addition to other heavy duty traffic rated test wells.



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Protect and Preserve Your Structure With a Lightning Protection System



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