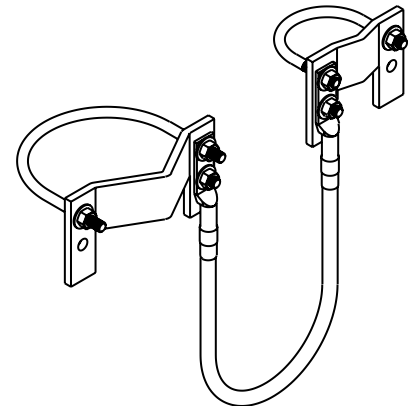
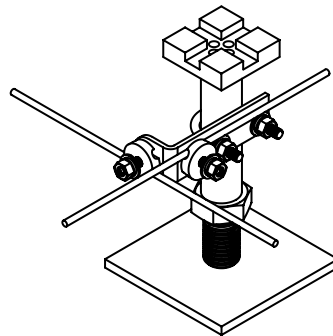
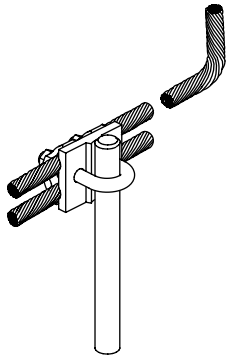
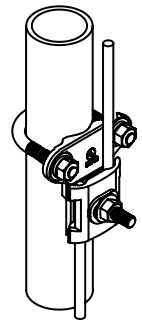
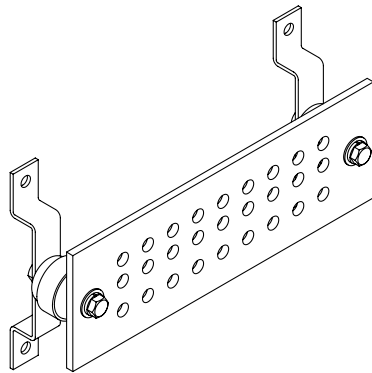
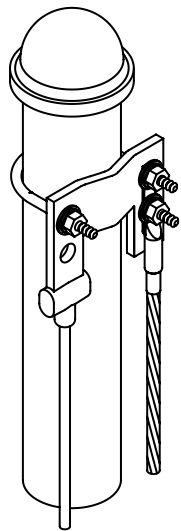




Grounding Products Catalog



thermOweld®
Phone (800) 558-1373
Fax (800) 788-1668



thermoweld® has been providing HighQuality Exothermic Products to the Electric, Utility, Telecom, Rail and Cathodic Industries for over 45 Years!

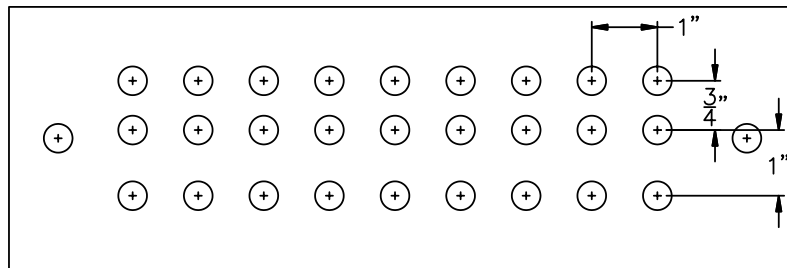


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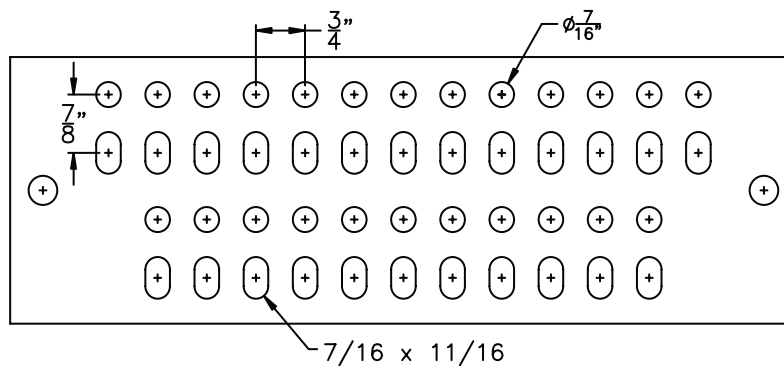
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Quality Products • Superior Service • Technical Expertise

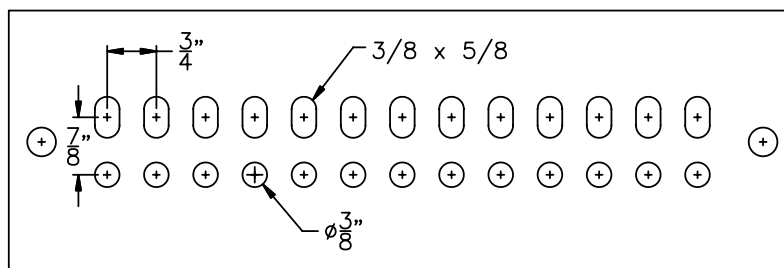
Ground Bar Hole Patterns



"J"



"M"



"P"

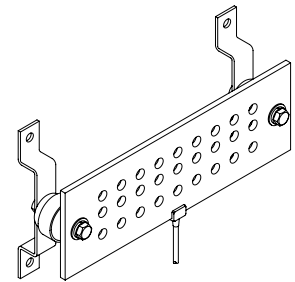
NOTES:

- All holes are 7/16" unless specified differently. To order threaded holes, specify hole size. The standard tapped hole size is 1/4-20 unless specified differently.
- Above bar patterns represent a 12" ground bar.
- All bars are available with electro-tin plating.

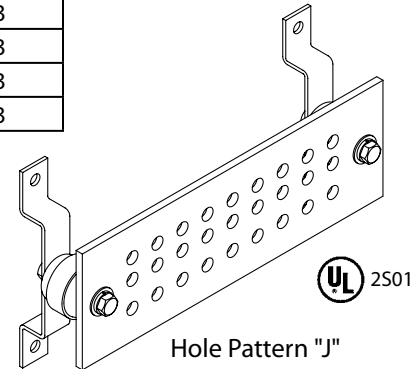
Ground Bars

Pattern "J"				
Catalog Number	Kit	Tinned	Bar Size	# of Holes
38-6323-01	Bar Only	No	1/4" X 4" X 12"	27
38-6323-02		Yes	1/4" X 4" X 12"	27
38-6323-03	Bar w/ Insulators & Brackets	No	1/4" X 4" X 12"	27
38-6323-04		Yes	1/4" X 4" X 12"	27
38-6324-01	Bar Only	No	1/4" X 4" X 20"	51
38-6324-02		Yes	1/4" X 4" X 20"	51
38-6324-03	Bar w/ Insulators & Brackets	No	1/4" X 4" X 20"	51
38-6324-04		Yes	1/4" X 4" X 20"	51
38-6325-01	Bar Only	No	1/4" X 4" X 24"	63
38-6325-02		Yes	1/4" X 4" X 24"	63
38-6325-03	Bar w/ Insulators & Brackets	No	1/4" X 4" X 24"	63
38-6325-04		Yes	1/4" X 4" X 24"	63

- Mounting holes not included in total.
- Accommodates two hole lugs spaced 3/4", 1" and 1-3/4" on center.
- 12" bar pictured. Holes are 7/16" diameter.
- Bars available electro-tin plated.
- Bars available with 25' #2 tinned solid pigtail.
- Tamper proof bolts available.
- Plexiglass cover available.
- Other sizes available. Contact factory for details.



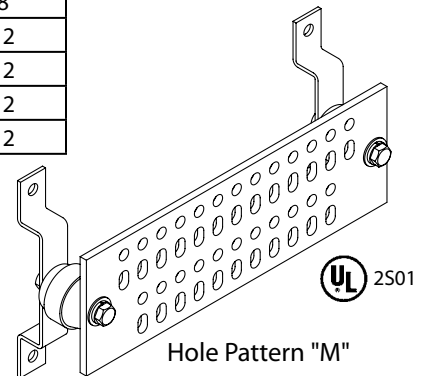
Ground Bar shown with optional pigtail.



Hole Pattern "J"

Pattern "M"				
Catalog Number	Kit	Tinned	Bar Size	# of Holes
38-6326-01	Bar Only	No	1/4" X 4" X 12"	48
38-6326-02		Yes	1/4" X 4" X 12"	48
38-6326-03	Bar w/ Insulators & Brackets	No	1/4" X 4" X 12"	48
38-6326-04		Yes	1/4" X 4" X 12"	48
38-6327-01	Bar Only	No	1/4" X 4" X 20"	88
38-6327-02		Yes	1/4" X 4" X 20"	88
38-6327-03	Bar w/ Insulators & Brackets	No	1/4" X 4" X 20"	88
38-6327-04		Yes	1/4" X 4" X 20"	88
38-6328-01	Bar Only	No	1/4" X 4" X 24"	112
38-6328-02		Yes	1/4" X 4" X 24"	112
38-6328-03	Bar w/ Insulators & Brackets	No	1/4" X 4" X 24"	112
38-6328-04		Yes	1/4" X 4" X 24"	112

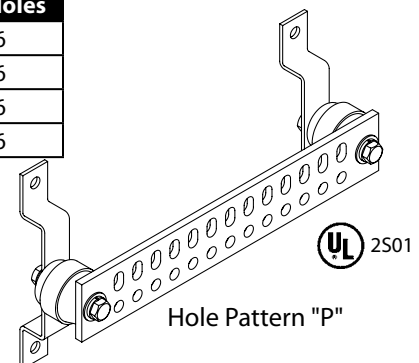
- Mounting holes not included in total.
- Accommodates two hole lugs spaced 3/4" and 1" on center.
- 12" bar pictured. Holes are 7/16" diameter and slots are 7/16" x 11/16".
- Bars available electro-tin plated.
- Tamper proof bolts available.
- Plexiglass cover available.
- Other sizes available. Contact factory for details.



Hole Pattern "M"

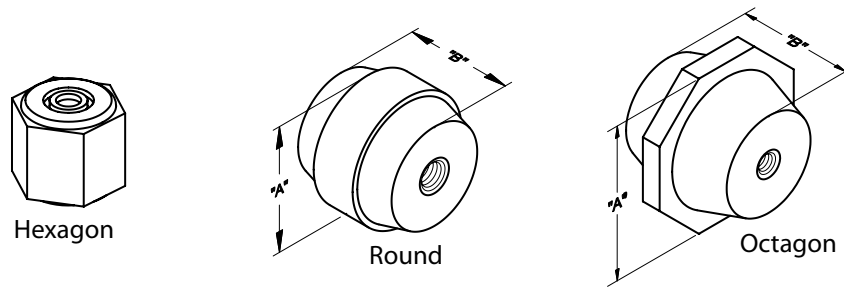
Pattern "P"				
Catalog Number	Kit	Tinned	Bar Size	# of Holes
38-6329-01	Bar Only	No	1/4" X 2" X 12"	26
38-6329-02		Yes	1/4" X 2" X 12"	26
38-6329-03	Bar w/ Insulators & Brackets	No	1/4" X 2" X 12"	26
38-6329-04		Yes	1/4" X 2" X 12"	26

- Mounting holes not included in total.
- Accommodates two hole lugs spaced 3/8" and 1" on center.
- 12" bar pictured. Holes are 7/16" diameter and slots are 3/8" x 5/8".
- Bars available electro-tin plated.
- Tamper proof bolts available.
- Plexiglass cover available.
- Other sizes available. Contact factory for details.



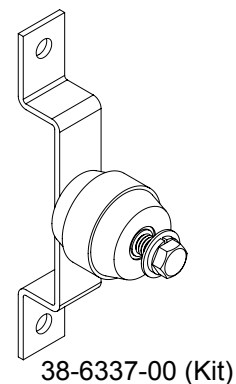
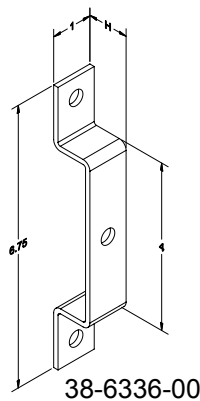
Hole Pattern "P"

Standoff Insulators - Red



Manufactured from glass reinforced thermoset polyester.

Catalog Number	"A"	"B"	Shape	Thread Size	Voltage Rating
38-6330-00	1"	1"	Hex	1/4" - 20 X 1/4" AL	600
38-6331-00	2"	1 1/2"	Octagon	1/4" - 20 X 1/2" STL	1500
38-6332-00	1 3/4"	1 1/2"	Round	3/8" - 16 X 3/8" AL	600
38-6333-00	1 3/4"	1 1/2"	Round	5/16" - 18 X 1/2" STL	600
38-6334-00	2"	2"	Octagon	1/2" - 13 X 5/8" STL	2300
38-6335-00	2 1/2"	2 5/8"	Octagon	5/8" - 11 X 3/4" AL	3400



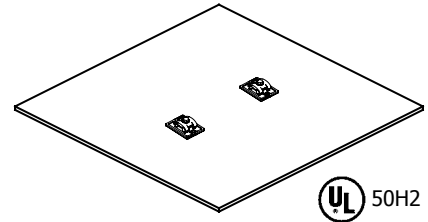
Catalog Number	Mounting Hole Size	"H"	Kit	Heavy Duty
38-6336-00	7/16"	1"	No	No
38-6337-00	7/16"	1"	Yes	No

- Manufactured from 304 series stainless steel.
- Kit includes two of the assembly (pictured) plus the 3/8" hardware required to mount to a ground bar.

Copper Ground Plates

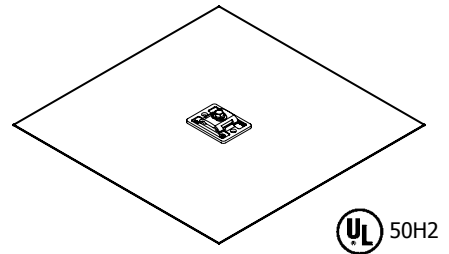
Catalog Number	Ground Plate Size	Thickness (Inches)
38-6338-00	18" X 18"	.032
38-6339-00	24" X 24"	.032

- Copper Ground Plate features two dual cable connectors for a secure electrical connection.



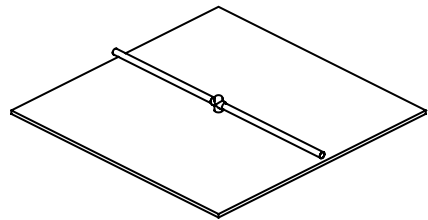
Catalog Number	Ground Plate Size	Thickness (Inches)
38-6338-01	18" X 18"	.032
38-6339-01	24" X 24"	.032

- Same as above except only has a single cable connector.



Catalog Number	Ground Plate Size	Thickness (Inches)
38-6340-"X"0	18" X 18"	.032
38-6341-"X"0	24" X 24"	.032

- Copper Ground Plate features an 18" or 24" (depending on the size of the plate) copper conductor exothermically welded to the plate.



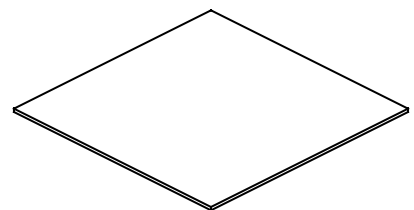
Note - "X" When ordering, please specify type of conductor to be used.

- | | | |
|------------|-------------|-------------|
| 1 = #4 STR | 4 = 1/0 STR | 7 = 250 MCM |
| 2 = #2 SOL | 5 = 2/0 STR | 8 = 350 MCM |
| 3 = #2 STR | 6 = 4/0 STR | 9 = 500 MCM |

(Example: 38-6340-20 = 18" x 18" Ground Plate w/ #2 STR conductor)

Catalog Number	Ground Plate Size	Thickness (Inches)
38-6342-18	18" X 18"	.25
38-6342-24	24" X 24"	.25

- 1/4" thick bare copper ground plate.
- Field connection required.

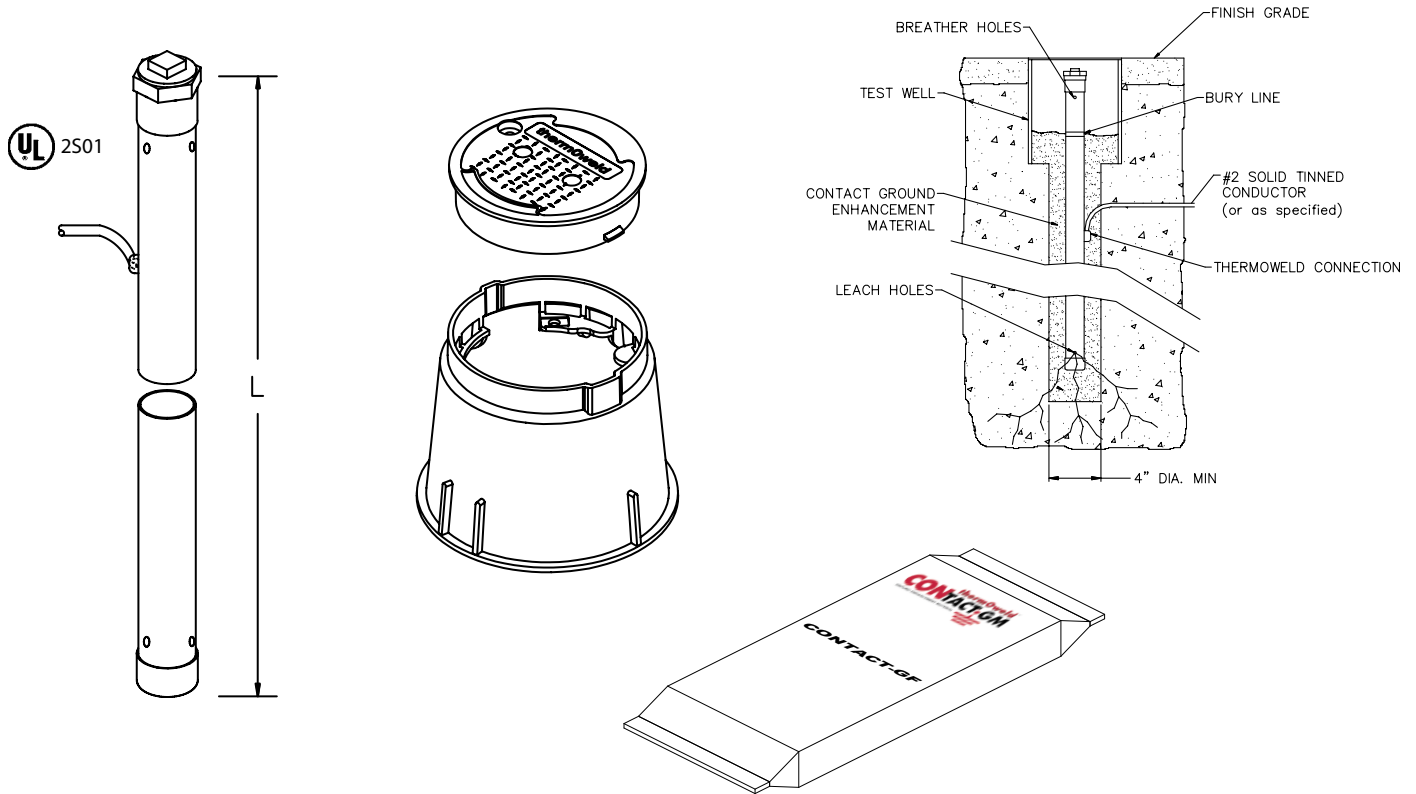


**Other sizes and thicknesses are available.
Please contact factory for details.**

APPLICATION NOTES:

- Copper Ground Plates are used in areas having little or no top soil.
- Can also be used to enhance ground grid systems.
- Can be used in conjunction with earth enhancement material such as Ultrafill.

Vertical Enhanced Ground Rod Kits



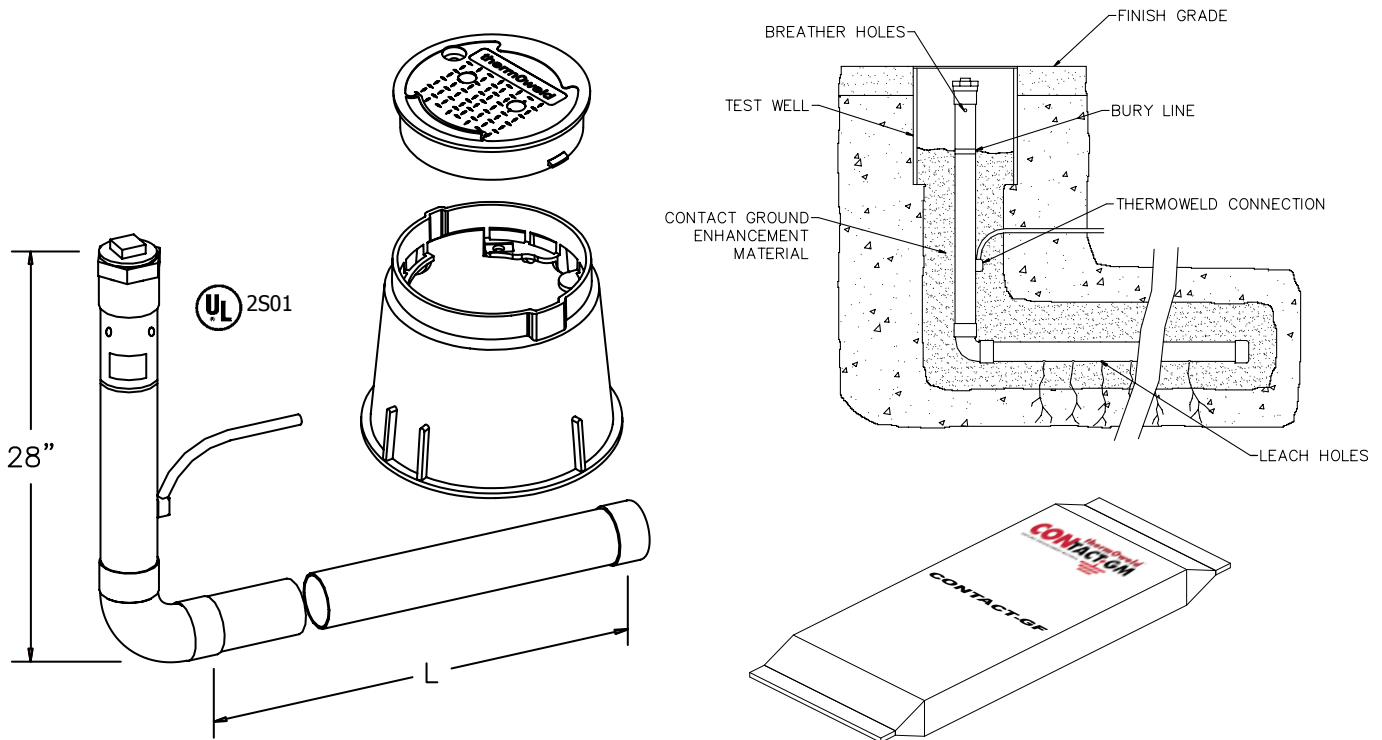
Catalog Number	Length	Inspection Well	Contact GF 25# Bag	Pigtail
38-6050-31	5'	Yes	2	5' - 4/0 STR
38-6050-32	10'	Yes	4	5' - #2 SOL (Tinned)
38-6050-33	10'	Yes	4	5' - 2/0 STR
38-6050-34	10'	Yes	4	5' - 4/0 STR
38-6050-35	20'	Yes	8	5' - #2 SOL (Tinned)
38-6050-36	20'	Yes	8	5' - 2/0 STR
38-6050-37	20'	Yes	8	5' - 4/0 STR

• Other sizes and conductor types available. Contact the factory for details.

APPLICATION NOTES:

- Enhanced grounds are used in high resistivity soil conditions and when low resistance ground electrode systems are critical.
- Conductor is welded 18" down from the top.
- Outside diameter of copper tube is 2-1/8".
- UL 467 listed.

Horizontal L-shaped Enhanced Ground Rod Kits



Catalog Number	Length	Inspection Well	Contact GF 25# Bag	Pigtail
38-6051-32	2' X 10'	Yes	4	5' - #2 SOL (Tinned)
38-6051-33	2' X 10'	Yes	4	5' - 2/0 STR
38-6051-34	2' X 10'	Yes	4	5' - 4/0 STR
38-6051-35	2' X 20'	Yes	8	5' - #2 SOL (Tinned)
38-6051-36	2' X 20'	Yes	8	5' - 2/0 STR
38-6051-37	2' X 20'	Yes	8	5' - 4/0 STR

• Other sizes and conductor types available. Contact the factory for details.

APPLICATION NOTES:

- Enhanced grounds are used in high resistivity soil conditions and when low resistance ground electrode systems are critical.
- L-shaped enhanced ground rods are used when proper depth cannot be achieved due to physical conditions such as bedrock.
- Conductor is welded 18" down from the top.
- Outside diameter of copper tube is 2-1/8".
- UL 467 listed.

thermOweld® CONTACT-GM

GROUND ENHANCEMENT MATERIAL



thermOweld® **CONTACT-GF** is a economical solution for areas with very difficult grounding issues.

CONTACT-GF is highly conductive in a wet or dry application and does not require moisture to lower the resistance of your grounding system.

CONTACT-GF contains a corrosion inhibitor which forms a film on copper creating a barrier against corrosion.

CONTACT-GF can be poured in dry or pumped in slurry form. No tamping required. It is very contractor friendly. No special tools required.

Certain applications require a permanent hardening grounding material. thermOweld® **CONTACT-GS** is the product of choice.

CONTACT-GS is compatible with all standard copper grounding systems. It is an economical solution to difficult grounding issues in hard to deal with areas.

CONTACT-GS manufactured from environmentally safe material and is extremely stable. When mixed with water or exposed with moisture,

CONTACT-GS attains the hardening characteristics of cement while retaining its highly conductive properties.

CONTACT-GS will remain highly conductive during a drought or when exposed to extremely low temperature.

Since **CONTACT-GS** does not have any shrinkage or expansion properties it will remain in constant **CONTACT** with the earth.

CONTACT-GS can be poured in dry or pumped in slurry form. No tamping required. It is very contractor friendly. No special tools required.

CONTACT-GF Advantages:

- EZ to install
- Electrically Conductive
- Environmentally Friendly
- Will not leech into the ground
- Positive low resistance, electrical connection to earth
- Does not contain any hazardous chemicals
- Compatible with all copper grounding systems
- Contains a corrosion inhibitor to protect copper
- Will not expand or shrink
- Not affected by freezing
- Excellent shelf life
- Typical resistivity <10 Ohm-cm



38-6501-25

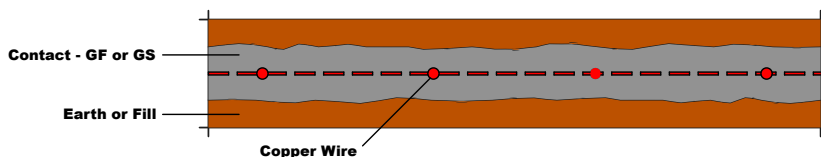
CONTACT-GS Advantages:

- EZ to install
- Will attain a hardened State
- Electrically Conductive
- Environmentally Friendly
- Will not leech into the ground
- Positive low resistance, electrical connection to earth
- Does not contain any hazardous chemicals
- Compatible with all copper grounding systems
- Will not expand or shrink
- Not affected by freezing
- Excellent shelf life
- Typical resistivity <10 Ohm-cm

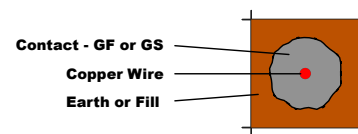


38-6502-25

HORIZONTAL CONSTRUCTION/GRID CONSTRUCTION



VERTICAL INSTALLATION



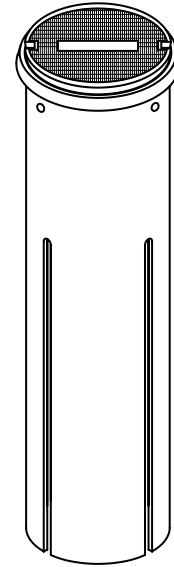
For Assistance Call 1-800-558-1373 or FAX 1-800-788-1668

Ground Access Wells - Heavy Duty

Heavy Duty Well with Cast Iron Cover

Catalog Number	Diameter	Length	Cover Type
38-6343-36	10"	36"	Cast Iron
38-6343-42	10"	42"	Cast Iron

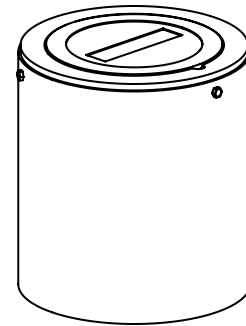
- 10" diameter Schedule 80 PVC well.
- Available in 36" and 42" lengths.
- Four 27" slots allow for ground electrode connections to be made before installation of test well.
- Cast iron cover fits into cast iron ring for extra support.
- For use in traffic areas.



Heavy Duty Well with Cast Iron Cover

Catalog Number	Diameter	Length	Cover Type
38-6344-12	12"	12"	Cast Iron
38-6344-30	12"	30"	Cast Iron

- 12" diameter Schedule 80 PVC well.
- Available in 12" and 30" lengths.
- Cast iron cover fits into cast iron ring for extra support.
- For use in traffic areas.

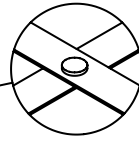
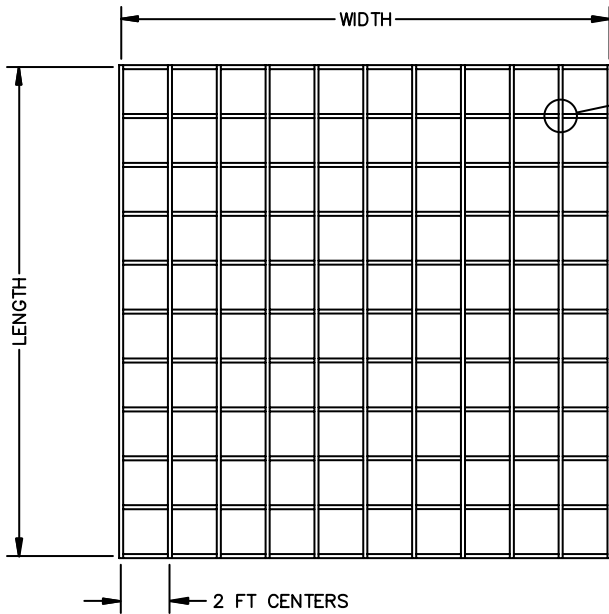


APPLICATION NOTES:

- Provides ready access to ground electrode for testing and inspection purposes.
- To prevent displacement by frost, the access well must be longer than the frost line is deep.

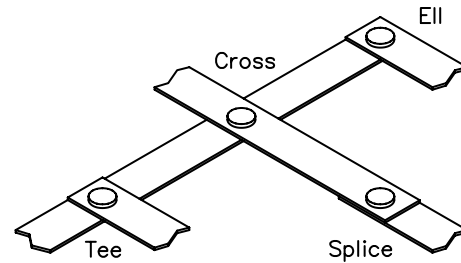
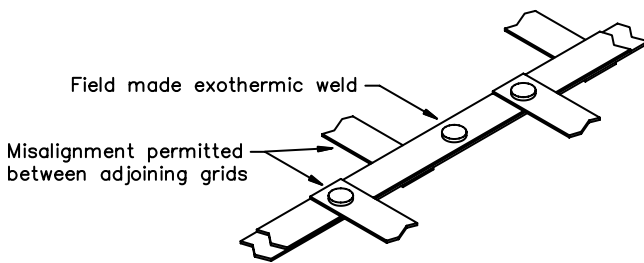
Signal Reference Grid (SRG)

ThermOweld can now supply your Signal Reference Grid (SRG) needs. ThermOweld can also supply you with the molds and accessories required for your computer room grounding.



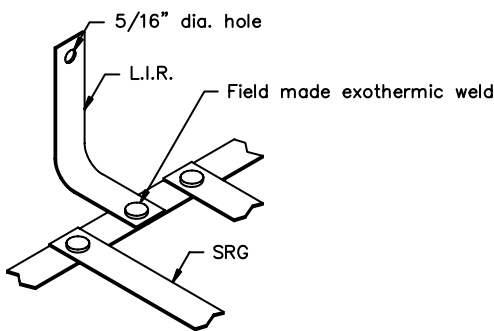
Signal Reference Grid Is:

- ✓ manufactured from 2" x 26 gage copper strips
- ✓ spaced on 2 ft centers
- ✓ factory welded at each crossover
- ✓ furnished in sections with widths from 4 ft to 18 ft (length limited by weight, approx. 200 lbs)
- ✓ shipped on tubes and protected for transporting
- ✓ interconnected in the field using ThermOweld molds and powder

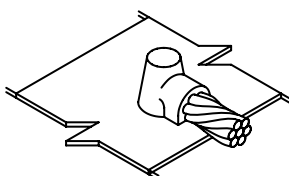


Adjoining sections of SRG are to be exothermically welded by installer using ThermOweld molds and powder

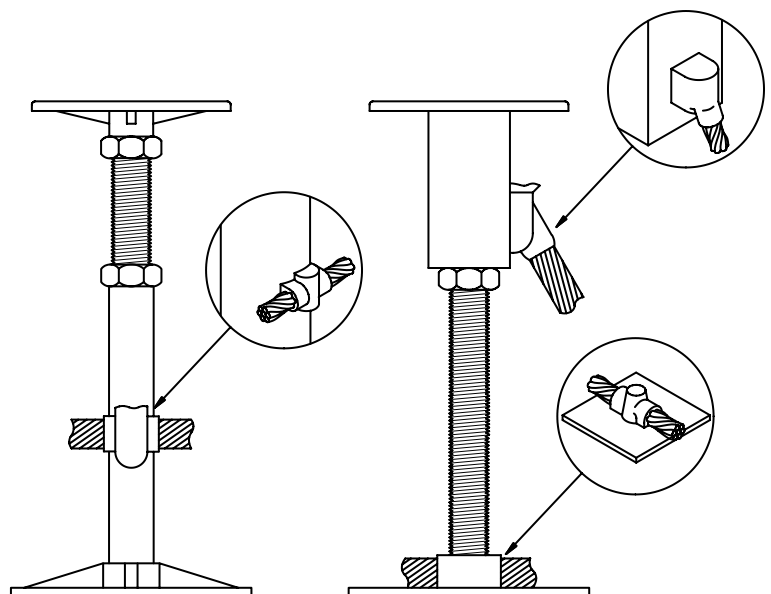
The same ThermOweld mold used to connect adjoining SRG's may be used to make splices, tees, ells or crosses



Low Impedance Riser (L.I.R.) exothermically welded to SRG

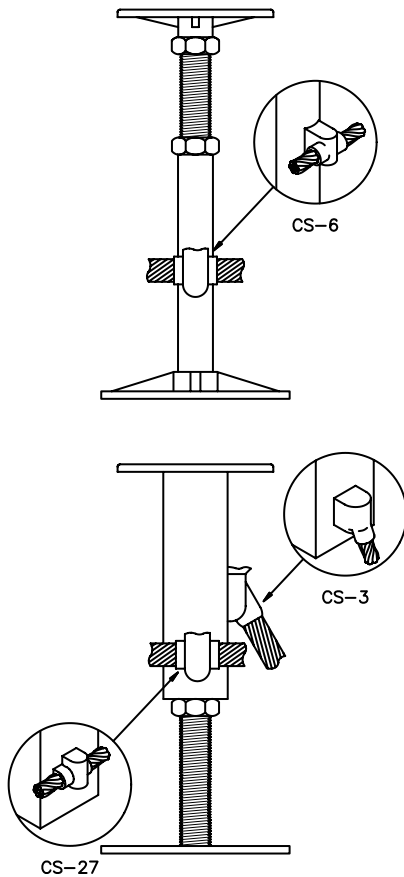


Bonding conductor exothermically welded to SRG



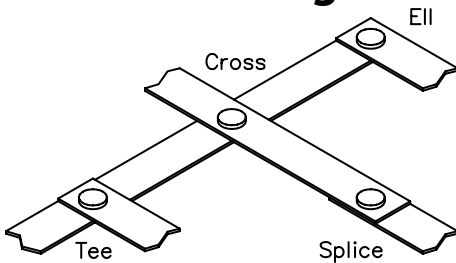
Bonding conductor exothermically welded to round and square floor pedestals

Cable To Floor Pedestals



CABLE SIZE	PEDESTAL TYPE	WELD TYPE	MOLD #	PRICE KEY	WELD METAL
#6 STR	1" ROUND	CS-6	M-6124	33	#15
#6 STR	1" ROUND	CS-6	LE-6124	33	LE#15
#6 STR	7/8" SQUARE	CS-27	M-6125	33	#15
#6 STR	7/8" SQUARE	CS-27	LE-6125	33	LE#15
#6 STR	1" ROUND	CS-3	M-6609	33	#15
#6 STR	1" ROUND	CS-3	LE-6609	33	LE#15
#6 STR	7/8" SQUARE	CS-3	M-6610	33	#15
#6 STR	7/8" SQUARE	CS-3	LE-6610	33	LE#15
#4 STR	1" ROUND	CS-6	M-6252	33	#15
#4 STR	1" ROUND	CS-6	LE-6252	33	LE#15
#4 STR	7/8" SQUARE	CS-27	M-8502	33	#15
#4 STR	7/8" SQUARE	CS-27	LE-8502	33	LE#15
#4 STR	1" ROUND	CS-3	M-6783	33	#15
#4 STR	1" ROUND	CS-3	LE-6783	33	LE#15
#4 STR	7/8" SQUARE	CS-3	M-6784	33	#15
#4 STR	7/8" SQUARE	CS-3	LE-6784	33	LE#15
#2 STR	1" ROUND	CS-6	M-8863	33	#15
#2 STR	1" ROUND	CS-6	LE-8863	33	LE#15
#2 STR	7/8" SQUARE	CS-27	M-8743	33	#15
#2 STR	7/8" SQUARE	CS-27	LE-8743	33	LE#15
#2 STR	1" ROUND	CS-3	M-6785	33	#15
#2 STR	1" ROUND	CS-3	LE-6785	33	LE#15
#2 STR	7/8" SQUARE	CS-3	M-6786	33	#15
#2 STR	7/8" SQUARE	CS-3	LE-6786	33	LE#15

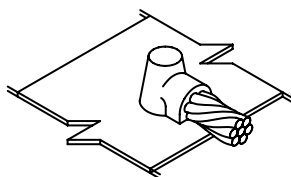
Signal Reference Grid (SRG) Connections



SRG SIZE	WELD TYPE	MOLD #	PRICE KEY	WELD METAL
26 GAGE X 2"	BB-46	M-6164	17	#32
26 GAGE X 2"	BB-46	LE-6164	17	LE#32

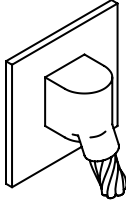
The molds listed can make any of the above connections

Cable To Signal Reference Grid (SRG) Connections



CABLE SIZE	WELD TYPE	MOLD #	PRICE KEY	WELD METAL
#6 STR	CB-34	M-2763	4	#25
#6 STR	CB-34	LE-2763	4	LE#25
#4 STR	CB-34	M-6253	4	#32
#4 STR	CB-34	LE-6253	4	LE#32
#2 STR	CB-34	M-6254	4	#32
#2 STR	CB-34	LE-6254	4	LE#32

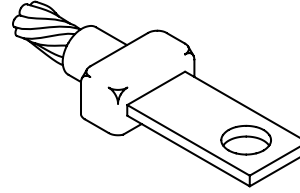
Cable To Vertical Steel Connections



CABLE SIZE	WELD TYPE	MOLD #	PRICE KEY	WELD METAL
#6 STR	CS-3	M-8848 †	18	#25
#6 STR	CS-3	LE-8848 †	19	LE#25
#4 STR	CS-3	M-586	4	#45
#4 STR	CS-3	LE-586	4	LE#45
#2 STR	CS-3	M-588	4	#45
#2 STR	CS-3	LE-588	4	LE#45

† Requires 38-0202-00 copper adapter sleeve

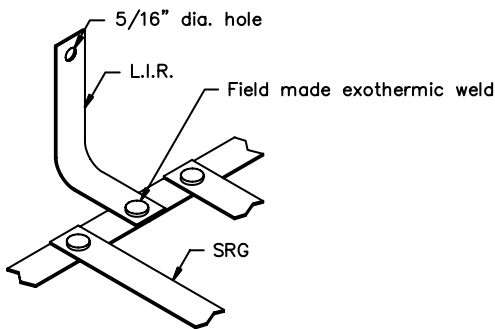
Cable to Lug Connections



CABLE SIZE	WELD TYPE	MOLD #	PRICE KEY	WELD METAL
#6 STR	CB-1	M-6255	18	#25
#6 STR	CB-1	LE-6255	19	LE#25
#4 STR	CB-1	M-6257	18	#25
#4 STR	CB-1	LE-6257	19	LE#25
#2 STR	CB-1	M-6258	18	#32
#2 STR	CB-1	LE-6258	19	LE#3

1/16" x 1/2" lug with 1/4" dia hole - Part #38-4709-00
Contact factory for other lug sizes.

Low Impedance Risers (L.I.R.)



PART #	DESCRIPTION
38-5101-†	Low Impedance Riser

† = Length of L.I.R. in inches (ex. 38-5101-36 is a 36" lg L.I.R.)
Low Impedance Risers are made from 2" wide x 26" gage copper strip with a 5/16" diameter hole at one end.

Accessories

PART #	DESCRIPTION
38-4709-00	1/16" X 1/2" LUG WITH 1/4" DIA. HOLE
38-0202-00	COPPER SLEEVE
40-4565-00	ECONOMOLD HANDLE CLAMP
38-5238-00	SRG SUPPORT CLIP
38-4395-00	BATTERY PACK

ThermOweld Low Emission System

ThermOweld's Low Emission System drastically reduces the emissions given off by our standard welding systems.

This system uses the same high quality ThermOweld weld powder less the standard starting powder. It is ignited using a rechargeable 6 volt battery and an electric fuse inserted into the crucible of the mold. With this system, the crucible is a semi closed system where the emissions from the reaction are made to pass through a graphite felt filter contained in the lid of the mold. This eliminates most of the visible smoke from the reacting weld powder.

This system is currently available in all of ThermOweld's standard configurations that use 200 gram or less cartridge. To order molds, replace the "M" in the mold number with "LE" (ex M-241 becomes LE-241). To order weld metal, place prefix "LE" in front of cartridge size (ex #115 becomes LE#115). For other sizes contact factory.

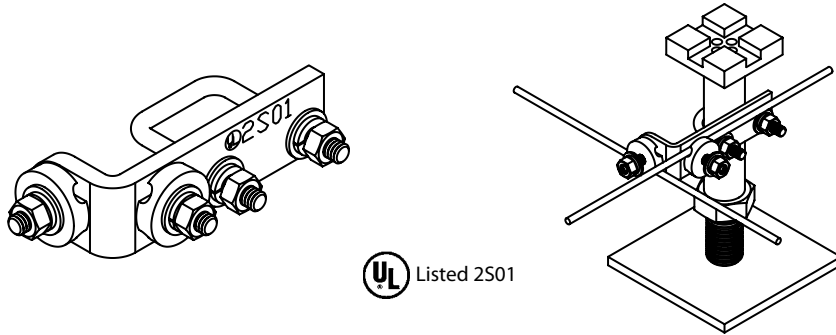
This system is an excellent choice when welding is to be done in areas where minimal smoke and sparks are a necessity such as clean rooms, vaults, tunnels, computer rooms, and telecommunication facilities.

Round-wire Signal Reference Grid

A Signal Reference Grid may also be economically fabricated from standard, bare round wire joined together via welding, brazing, compression or a suitable grounding clamp arrangement at each of the crossing points.* thermOweld® offers a variety of ground pedestal clamps and conductors to achieve these objectives.

* 1999 IEEE, Std. 1100

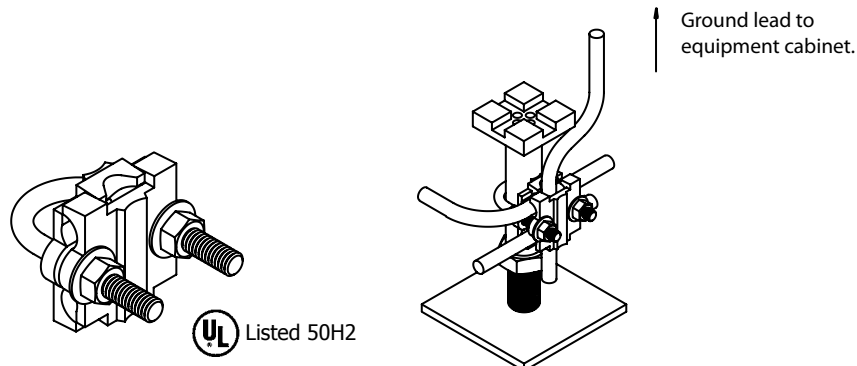
Ground Pedestal Clamps



Catalog Number	U-Bolt Type	Pedestal Size	Conductor Size	Box Qty
38-6345-00	Square	1"	#6 STR	10
38-6346-00	Round	1"	#6 STR	10
38-6345-01	Square	1"	#4 STR	10
38-6346-01	Round	1"	#4 STR	10
38-6345-02	Square	1"	#2 STR	10
38-6346-02	Round	1"	#2 STR	10

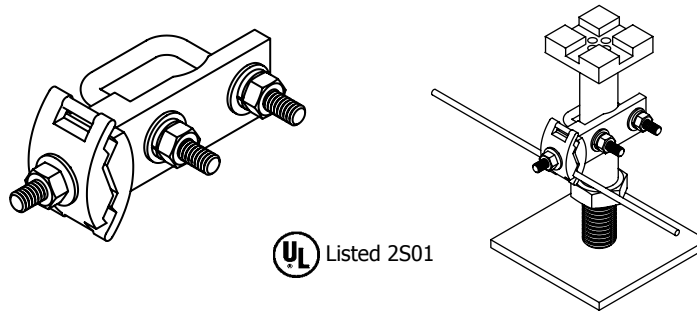
- Fits a 1" pedestal (1-1/8" OD).
- Accommodates cross runs without adding an additional connector.

38-6347-00 Ground Pedestal Clamp



- Electro plated tinned bronze includes stainless steel hardware.
- Accommodates 3 conductors up to 4/0.
- Fits both round and square pedestal legs up to 1-1/8" outside diameter.
- Packaged 10 per box.

Ground Pedestal Clamps

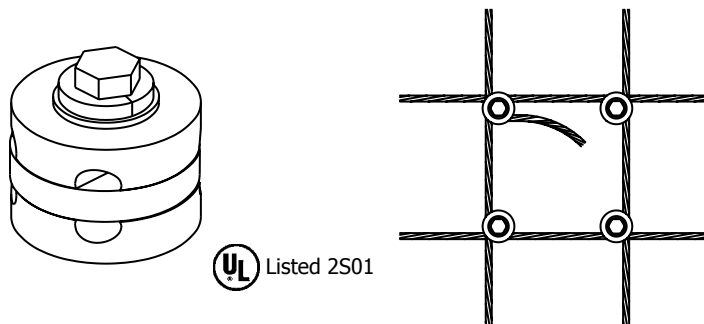


 Listed 2S01

Catalog Number	Tin Plated	Box Qty
38-6376-00	No	10
38-6376-01	Yes	10

- Heavy duty bronze clamp includes stainless steel hardware.
- Available electro-tin plated.
- Accepts conductors #6 solid thru 2/0 stranded.
- Fits both round and square pedestal legs up to 1-1/8" outside diameter.

Computer Room Ground Clamps



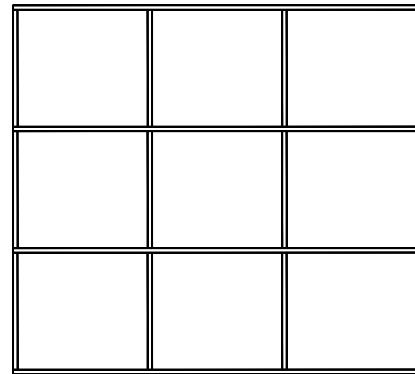
 Listed 2S01

Catalog Number	Conductor Size	Box Qty
38-6348-00	#6 STR	25
38-6348-01	#4 STR	10
38-6348-02	#2 STR	10

- Used when welded connections are not feasible.
- Unique design allows clamps to form connections at most any angle.
- Specific uses include fabrication under an existing computer room floor.

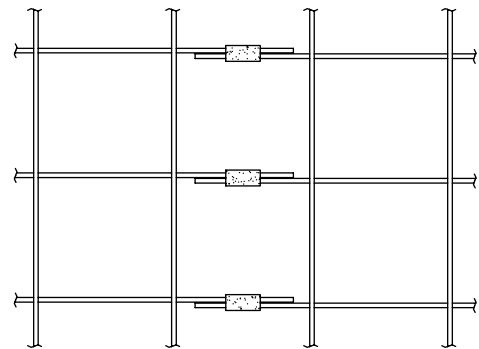
UL Listed Prefabricated Copper Ground Mesh

thermOweld® prefabricated wire mesh can be supplied with no overhang, overlapping ends and butt splice ends.



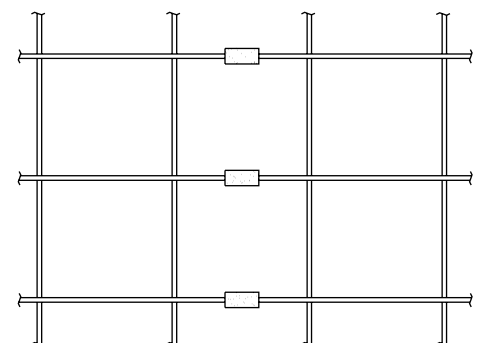
No Overhang

The overlapping end configuration is designed to allow for side by side connections of adjoining mats. This type of connection provides the easiest method of joining two mesh sections. Adding 2" to one half the conductor spacing provides the overlapping ends. For example, if the mesh size is 6" square, the overlapping end length is 5".



"Overlapping" ends

The butt splice end spacing is equal to half the conductor spacing. For example, if the mesh is 4" square the butt splice end length is 2". The butt splice end provides a more conservative use of conductor.



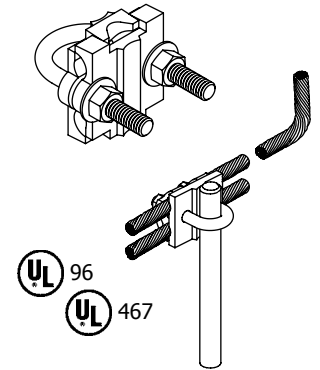
"Butt Splice" ends

Pipe Clamps

- Manufactured from electroplated tinned bronze or aluminum.
- Wider conductor range; #6 through 250 MCM.
- Features “quick connect”, bi-directional design.
- PEM® stud ensures a flush mounting surface.
- Dual UL listing (UL96 & UL467). Patent pending design.
- Suitable for Direct Burial.

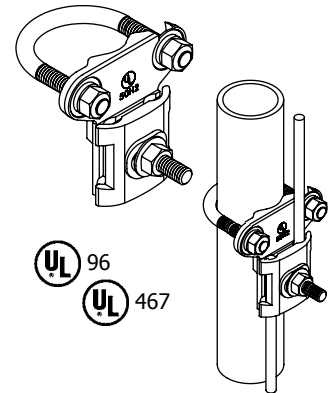
Pipe Range .5/.75

Catalog Number	Material	Nominal Pipe Size Range	Pipe Outside Diameter	Box Qty
38-6349-00	Tinned Bronze	.5" to .75"	.375" to 1"	5



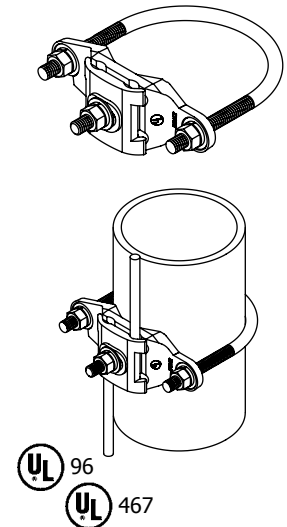
Pipe Range 1/1.25

Catalog Number	Material	Nominal Pipe Size Range	Pipe Outside Diameter	Box Qty
38-6350-00	Tinned Bronze	1" to 1.25"	.75" to 1.7"	5
38-6350-01	Aluminum	1" to 1.25"	.75" to 1.7"	5



Pipe Range 1.5/2 - 6

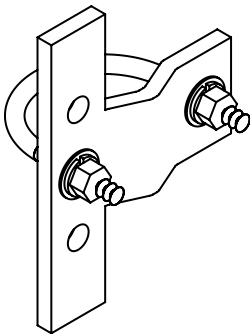
Catalog Number	Material	Nominal Pipe Size Range	Pipe Outside Diameter	Box Qty
38-6351-00	Tinned Bronze	1.5" to 2"	1" to 2.4"	5
38-6351-01	Aluminum	1.5" to 2"	1" to 2.4"	5
38-6351-02	Tinned Bronze	2.5" to 3"	2.25" to 3.5"	5
38-6351-03	Aluminum	2.5" to 3"	2.25" to 3.5"	5
38-6351-04	Tinned Bronze	3.5" to 4"	3.2" to 4.5"	5
38-6351-05	Aluminum	3.5" to 4"	3.2" to 4.5"	5
38-6351-06	Tinned Bronze	5" to 6"	5.63" to 6.63"	5
38-6351-07	Aluminum	5" to 6"	5.63" to 6.63"	5



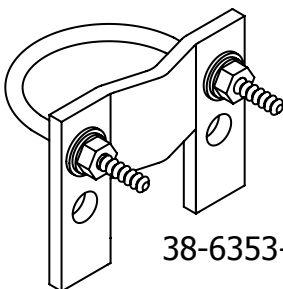
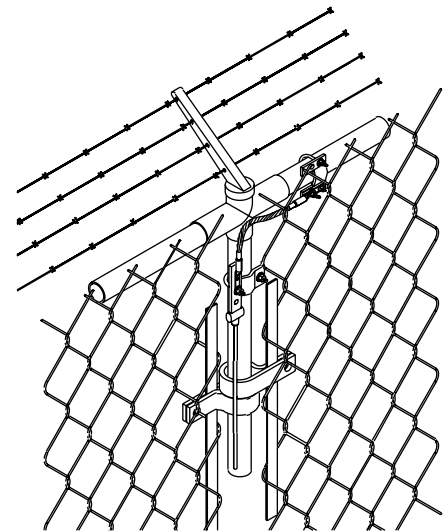
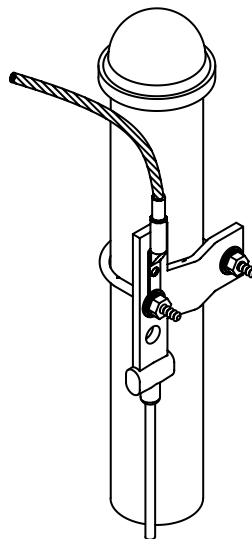
Universal Pipe Clamps

Catalog Number	Nominal Pipe Size	Box Qty
38-6352-00	.75" to 1.25"	10
38-6353-00	1.5" to 2"	10
38-6353-01	2.5" to 3"	5
38-6353-02	3.5" to 4"	5
38-6353-03	5" to 6"	10
38-6353-04	8"	5
38-6353-05	10"	5
38-6353-06	12"	5

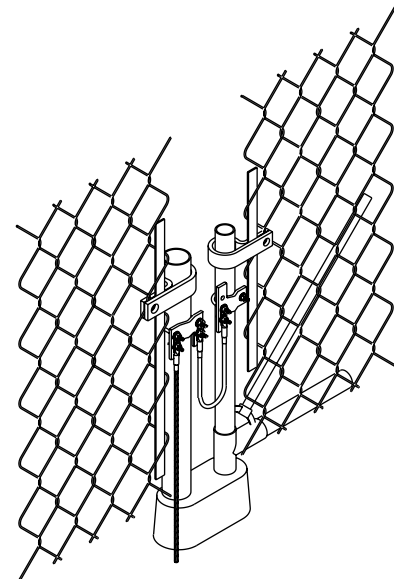
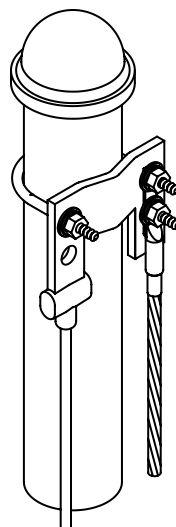
- All clamps provide 1-1/2" of contact area to ensure sufficient electrical contact for both ground fault and lightning current.
- These clamps can be connected to ground conductors via exothermic connections and/or standard compression lugs.
- Lug ends are 1/4" x 1" and have holes that are 3/8" diameter 1" on center spacing.
- The Universal Pipe Clamp 38-6352-00 provides bi-directional grounding capabilities making it the perfect connection for grounding fence rail to fence post applications.
- Sizes range from 3/4" up through 6" nominal pipe diameters.
- All clamps are manufactured from highly conductive tinned copper and feature stainless steel hardware.



38-6352-00



38-6353-XX



Fence Clamp Assemblies

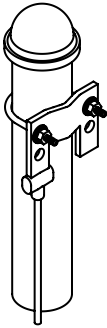


Figure 1
EXAMPLE
0000-38-6007-1D
3" Post
Left Ground Conductor is
#2 AWG Tinned Solid x 24" long
Right Ground Conductor is
No Right Ground Conductor

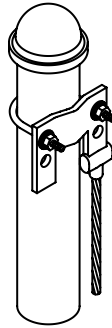


Figure 2
EXAMPLE
0000-38-6010-6L
4" Post
No Left Ground Conductor
Right Ground Conductor is
4/0 Concentric x 144" long

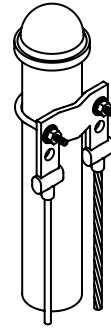


Figure 3
EXAMPLE
0000-38-6013-1D
1.5" Post
Left Ground Conductor is
#2 AWG Tinned Solid x 24" long
Right Ground Conductor is
#2 AWG Tinned Solid x 24" long

Catalog Number	Nominal Pipe Size	Figure
0000-38-6003-†‡	Fits 3/4" to 1 1/4" Post - Left Hand	1
0000-38-6004-†‡	Fits 3/4" to 1 1/4" Post - Right Hand	2
0000-38-6005-†‡	Fits 1 1/2" to 2" Post - Left Hand	1
0000-38-6006-†‡	Fits 1 1/2" to 2" Post - Right Hand	2
0000-38-6007-†‡	Fits 2 1/2" to 3" Post - Left Hand	1
0000-38-6008-†‡	Fits 2 1/2" to 3" Post - Right Hand	2
0000-38-6009-†‡	Fits 3 1/2" to 4" Post - Left Hand	1
0000-38-6010-†‡	Fits 3 1/2" to 4" Post - Right Hand	2
0000-38-6011-†‡	Fits 3/4" to 1 1/4" Post	3
0000-38-6013-†‡	Fits 1 1/2" to 2" Post	3
0000-38-6015-†‡	Fits 2 1/2" to 3" Post	3
0000-38-6017-†‡	Fits 3 1/2" to 4" Post	3

Replace † with the appropriate code from Chart A and ‡ from Chart B. See examples above. For sizes and combinations not listed, contact factory.

Chart A (†)

Ground Conductor Size Codes

- 1 = #2 AWG Tinned Solid
- 2 = #2 AWG Concentric
- 3 = #1 AWG Concentric
- 4 = 1/0 Concentric
- 5 = 2/0 Concentric
- 6 = 4/0 Concentric
- 7 = 250 MCM Concentric
- 8 = 300 MCM Concentric
- 9 = 350 MCM Concentric

Chart B(‡)

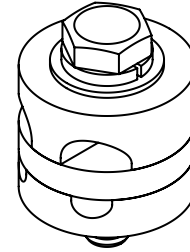
Conductor Length Codes

- | | |
|---------|----------|
| A = 6" | G = 10" |
| B = 12" | H = 96" |
| C = 18" | J = 60" |
| D = 24" | K = 72" |
| E = 36" | L = 144" |
| F = 48" | M = 30" |

Fence Fabric Ground Clamps

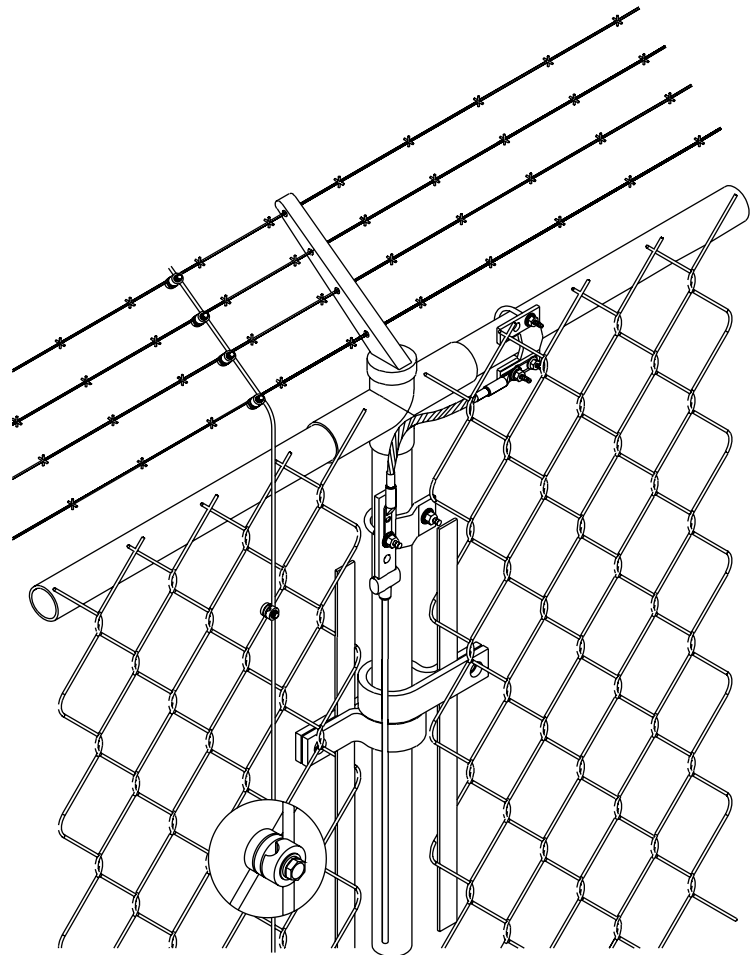
Catalog Number	Conductor Size	Box Qty
38-6354-00	#2	25
38-6354-01	#2 - 4/0	10

- Unique design allows clamp to form connections at most any angle.
- Specific uses include connection to both fence fabric and barbed wire.
- The conductor maintains a direct path to ground while connected to an object that is parallel, perpendicular or in any degree in between.
- Electroplated tinned brass clamp comes complete with stainless steel hardware.
- Allows for use with most metallic surfaces including galvanized.
- Other sizes available. Contact the factory for details.



Fence Ground System

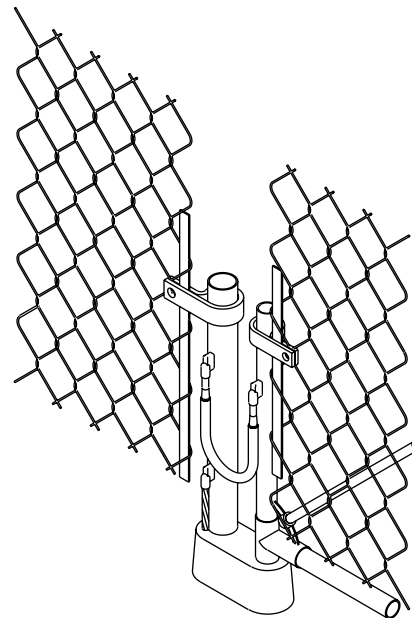
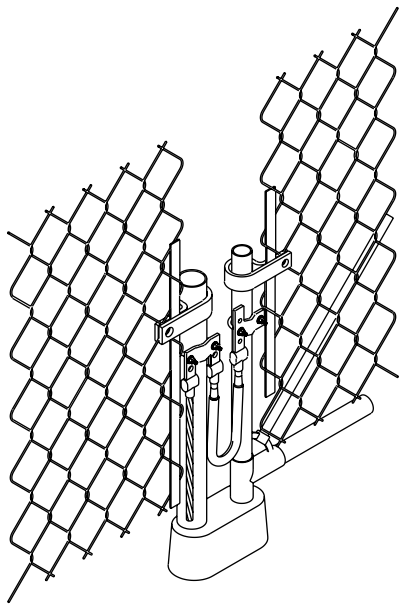
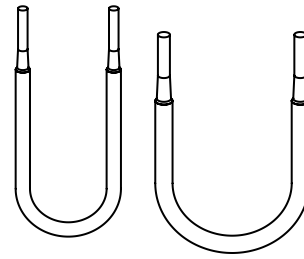
Fence grounding systems are designed to provide protection against dangerous "touch" potentials. The fence fabric ground clamp is an integral component of this personnel safety system.



Flexible Gate Jumpers

Catalog Number	Jumper Size	Mold Size	Box Qty
38-5532-24	#2 STR	#2 SOLID	10
38-5533-24	2/0 STR	2/0 STR	10
38-5534-24	4/0 STR	4/0 STR	10

- Can be used with the universal pipe clamps or can be exothermically welded to the fence/gate post themselves.
- Three sizes designed to fit either a #2 solid, 2/0 stranded or 4/0 stranded exothermic mold.
- Flex jumpers made from welding cable.
- Standard length is 24" long.
- Other lengths available. Contact the factory for details.



CB-01 Weld Type

Cable Size	Lug Size	Mold #	Weld Metal	Price Key
#2 SOL	1/4" X 1"	M-6667-S	#65	4
2/0 STR	1/4" X 1"	M-981	#65	4
4/0 STR	1/4" X 1"	M-985	#90	4

CS-23 Weld Type (Pipe Range)

Cable Size	Nominal Pipe Size	Mold #	Weld Metal	Price Key
#2 SOL	1 1/4" to 4"	M-6199-S	#65	4
2/0 STR	1 1/4" to 3 1/2" Pipe	M-5495	#90	4
	2" to 4" Pipe	M-7202	#90	4
4/0 STR	1 1/4" to 4" Pipe	M-5622	#150	4

CS-23 Weld Type

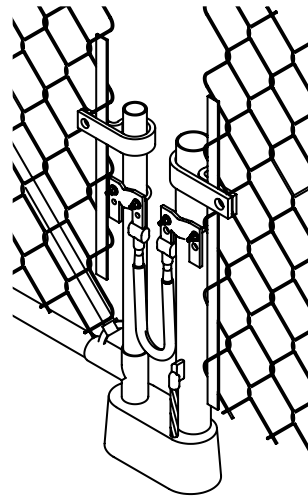
Cable Size	Mold #	Weld Metal	Price Key
#2 SOL	M-2781-SV(P.S.)	#65	4
2/0 STR	M-2540-V(P.S.)	#115	4
4/0 STR	M-8718-V(P.S.)	#150	4

(P.S.) = ADD PIPE SIZE

(EX. M-8718-V3 = 4/0 STR TO 3" VERTICAL PIPE)

Fence Gate Assemblies (Exothermically Welded)

0000-38-5990-C0
 4" Fence Post
 1.5" Gate Post
 Fence Post is on the **Right**
 4/0 Welding Cable Jumper x 18" long
 No Ground Conductor



Follow the steps outlined below to specify the Fence Clamp Assembly (Exothermically Welded) you need. Replace (†) with the appropriate code from Chart A to specify the length of the flexible jumper and replace (‡) with the appropriate code from Chart B to specify the flexible jumper size. Contact factory for sizes not listed.

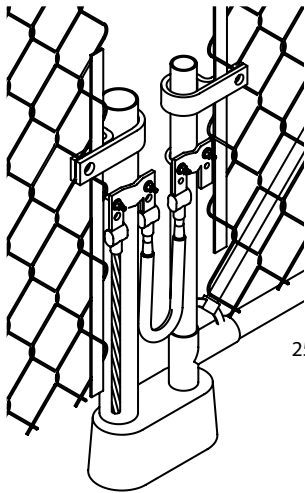
Catalog Number	Description
0000-38-5987-†‡	Fits 3 1/2" to 4" Gate Post X 3/4" to 1 1/4" Gate Frame - LH
0000-38-5988-†‡	Fits 3 1/2" to 4" Gate Post X 3/4" to 1 1/4" Gate Frame - RH
0000-38-5989-†‡	Fits 3 1/2" to 4" Gate Post X 1 1/2" to 2" Gate Frame - LH
0000-38-5990-†‡	Fits 3 1/2" to 4" Gate Post X 1 1/2" to 2" Gate Frame - RH
0000-38-5991-†‡	Fits 2 1/2" to 3" Gate Post X 3/4" to 1 1/4" Gate Frame - LH
0000-38-5992-†‡	Fits 2 1/2" to 3" Gate Post X 3/4" to 1 1/4" Gate Frame - RH
0000-38-5993-†‡	Fits 2 1/2" to 3" Gate Post X 1 1/2" to 2" Gate Frame - LH
0000-38-5994-†‡	Fits 2 1/2" to 3" Gate Post X 1 1/2" to 2" Gate Frame - RH
0000-38-5995-†‡	Fits 1 1/2" to 2" Gate Post X 3/4" to 1 1/4" Gate Frame - LH
0000-38-5996-†‡	Fits 1 1/2" to 2" Gate Post X 3/4" to 1 1/4" Gate Frame - RH

Chart A (†)

Flexible Jumper Length Codes
B = 12"
C = 18"
D = 24"
E = 36"
F = 48"

Chart B (‡)

Flexible Jumper Size Codes
2 = #2 AWG Welding Cable
1 = 2/0 AWG Welding Cable
0 = 4/0 AWG Welding Cable



Fence Gate Assemblies (Exothermically Welded)

38-6358-7F
 3" Fence Post
 1.5" Gate Post
 Fence Post is on the **Left**
 4/0 Jumper x 24" long
 250 MCM Ground Conductor x 48" long

Follow the steps outlined below to specify the Fence Clamp Assembly (Exothermically Welded) you need. Replace (†) with the appropriate code from Chart A to specify the size of the ground conductor and replace (‡) with the appropriate code from Chart B to specify the length of the ground conductor.

NOTE: All the listed Fence Gate Assemblies on this page come with a 24" long flexible jumper. For Fence Gate Assemblies with Jumpers other than 24" long, contact factory.

Catalog Number	Flexible Jumper	Description	Left/Right Hand
0000-38-6356-†‡	4/0 W/C	Fits 1 1/2" to 2" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
0000-38-7356-†‡			Right Hand
0000-38-6357-†‡		Fits 2 1/2" to 3" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
0000-38-7357-†‡			Right Hand
0000-38-6358-†‡		Fits 2 1/2" to 3" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
0000-38-7358-†‡			Right Hand
0000-38-6359-†‡		Fits 3 1/2" to 4" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
0000-38-7359-†‡			Right Hand
0000-38-6360-†‡		Fits 3 1/2" to 4" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
0000-38-7360-†‡			Right Hand
0000-38-6361-†‡	2/0 W/C	Fits 1 1/2" to 2" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
0000-38-7361-†‡			Right Hand
0000-38-6362-†‡		Fits 2 1/2" to 3" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
0000-38-7362-†‡			Right Hand
0000-38-6363-†‡		Fits 2 1/2" to 3" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
0000-38-7363-†‡			Right Hand
0000-38-6364-†‡		Fits 3 1/2" to 4" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
0000-38-7364-†‡			Right Hand
0000-38-6365-†‡		Fits 3 1/2" to 4" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
0000-38-7365-†‡			Right Hand
0000-38-6366-†‡	#2 W/C	Fits 1 1/2" to 2" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
0000-38-7366-†‡			Right Hand
0000-38-6367-†‡		Fits 2 1/2" to 3" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
0000-38-7367-†‡			Right Hand
0000-38-6368-†‡		Fits 2 1/2" to 3" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
0000-38-7368-†‡			Right Hand
0000-38-6369-†‡		Fits 3 1/2" to 4" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
0000-38-7369-†‡			Right Hand
0000-38-6370-†‡		Fits 3 1/2" to 4" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
0000-38-7370-†‡			Right Hand

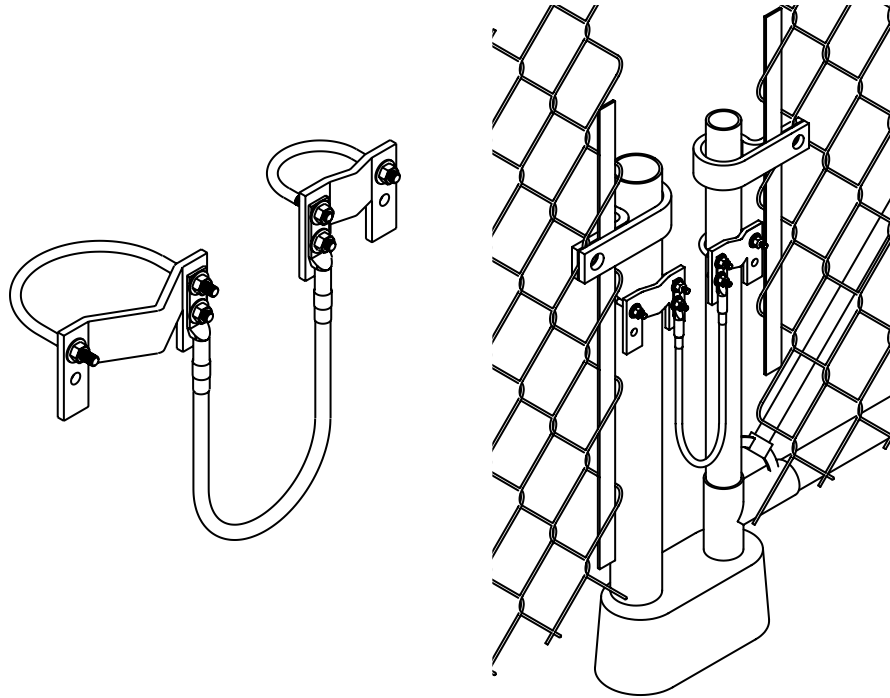
Chart A (†)

Ground Conductor Size Codes
1 = #2 Sol (Tinned)
2 = #2 Str
3 = #1 Str
4 = 1/0 Str
5 = 2/0 Str
6 = 4/0 Str
7 = 250 Mcm

Chart B (‡)

Ground Conductor Length Codes	
A = 6"	G = 10"
B = 12"	H = 96"
C = 18"	J = 60"
D = 24"	K = 72"
E = 36"	L = 144"
F = 48"	M = 30"

Fence Gate Assemblies (Compression Lugs)



Catalog Number	Nominal Gate Post Size Range	Nominal Fence Post Size Range	Jumper Size	Jumper Length	Box Qty
38-6355-00	1.5" to 2"	2.5" to 3"	#2 AWG	24"	1
38-6355-01	1.5" to 2"	3.5" to 4"	#2 AWG	24"	1
38-6355-02	1.5" to 2"	5" to 6"	#2 AWG	24"	1

- Integral component of a fence grounding system.
- Helps eliminate dangerous touch potential.
- Used when it is not feasible to exothermically bond to fence/gate posts.
- Flex jumper assemblies use #2 AWG welding cable.