

The Contractors Choice



thermOweld®

Exothermics / Grounding / Lightning Protection

The Contractors Choice

Founded in 1958, with locations in Tulsa and Broken Arrow, Oklahoma.
thermOweld® is part of the Quality Brands of Continental Industries.

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The thermOweld® Process

The thermOweld® connection process is a simple, efficient method of welding copper to copper or copper to steel. One advantage is that NO outside power is required when using the thermOweld® exothermic process. The thermOweld® process uses high temperature reaction of powdered copper oxide and aluminum. The reaction takes place in a semi-permanent graphite mold. These molds should last for approximately fifty or more welds if proper care is given. The reaction takes place very rapidly, therefore the total amount of heat applied to the conductors or surfaces is considerably less than that of brazing or soldering. This is important to remember when welding to insulated cable or thin wall pipe.

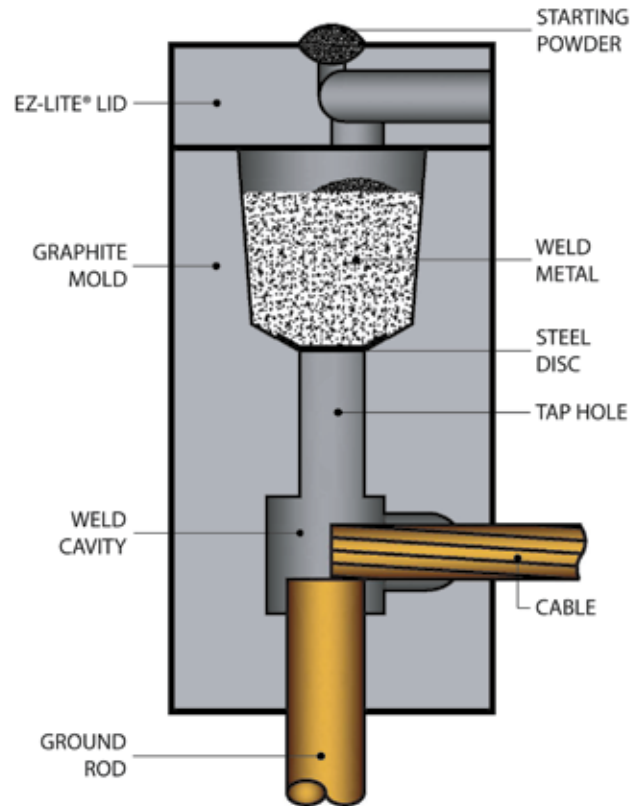
This system is very field friendly, since it is light and portable and requires no outside power source. It requires very little time or skill to obtain an efficient, maintenance free connection when using the thermOweld® process.

For more information visit our website @ www.thermOweld.com

The thermOweld® process has been used to weld materials other than copper for electrical purposes. Materials welded include:

Stainless Steel	Columbium	Brass
Copperweld®	Plain Steel	Bronze
Nichrome V	Everdur®	Niobium
Galvanized Steel	Kama	Chromax
Silicon Bronze	Steel Rail	Cast Iron
Copper Clad Steel	Cor-Ten®	Monel

When welding to galvanized steel it is recommended to resurface exposed bare steel.



The thermOweld® connection is a molecular weld. The weld has the same melting point as copper. This factor along with the increased cross sectional area of the connection and the following insure:

1. thermOweld® connections are not affected by a high current surge. Tests have shown that the electrical conductor will melt before the thermOweld® connection, when subjected to high short circuit current. Consult IEEE Standard 837.
2. thermOweld® connections will not loosen or corrode at the point of weld. There are no contact surfaces or mechanical pressures involved.
3. thermOweld® connections have a current-carrying capacity equal to or greater than that of the conductors.

Making a **thermOweld®** Connection



1

Position cleaned conductors in mold after making sure mold is dry, by pre-heating or making a test joint.



2

Place metal disc in bottom of mold crucible.



3

Dump powder into crucible, being careful not to loosen all the starting powder.



4

Close lid and place a small amount of starting powder in the ignition pocket.



5

Ignite the starting powder with the Flint Ignitor.



6

Remove weld and clean mold before making next connection.

Grounding

Why We Ground?

Grounding systems have three main purposes:

- Safety
 - To provide a safe path for the dissipation of surge currents due to lightning or accidental contact with higher voltage system.
- Lightning Protection
 - To provide a path for the dissipation of electrostatic discharge currents.
- Zero Volt Reference
 - To provide zero-volt reference for the supplied power source to the premises wiring system.

What is a Ground?

From the NEC-

- A conducting connection, whether intentional or accidental, between an electrical circuit or equipment and the earth, or to some conducting body that serves in place of earth.

(Note:) It is used for establishing and maintaining the potential of the earth (or of the conducting body) or approximately that potential, on conductors connected to it, and for conducting ground currents to and from earth (or the conducting body).

Why We Bond?

Definition: NEC Article 100 and Section 250-70 define bonding as the permanent joining of metallic parts to form an electrically conductive path which will assure electrical continuity and the capacity to conduct safely any current that is likely to be imposed.

Soil Resistivity and Ground Resistance

What affects soil conductivity?

- Basic Soil Material
- Soil Moisture
- Ion-Producing Material (Soluble electrolytic material)
- Temperature

Some of the Approved Methods of Grounding

- Metallic Water Pipe
- Metal Frame of Building
- Ground Ring
- Concrete Encased Electrode
- Ground Rod and Pipe Electrodes



Why Use thermOweld®

The **thermOweld®** Ultimate Connection creates a permanent, homogeneous, and molecular bond that cannot loosen or corrode, and will carry more current than the conductor.

The **thermOweld®** connections are solid molecular bonds; they do not loosen or corrode over the lifetime of the connection. The same cannot be said about other methods; such as brazing, crimp, split bolt, or compression type connections.

Technical Information

CONDUCTOR IDENTIFICATION

Bare Class A, B, and C, Concentric Conductor
Based on A.S.T.M. Standard Specifications

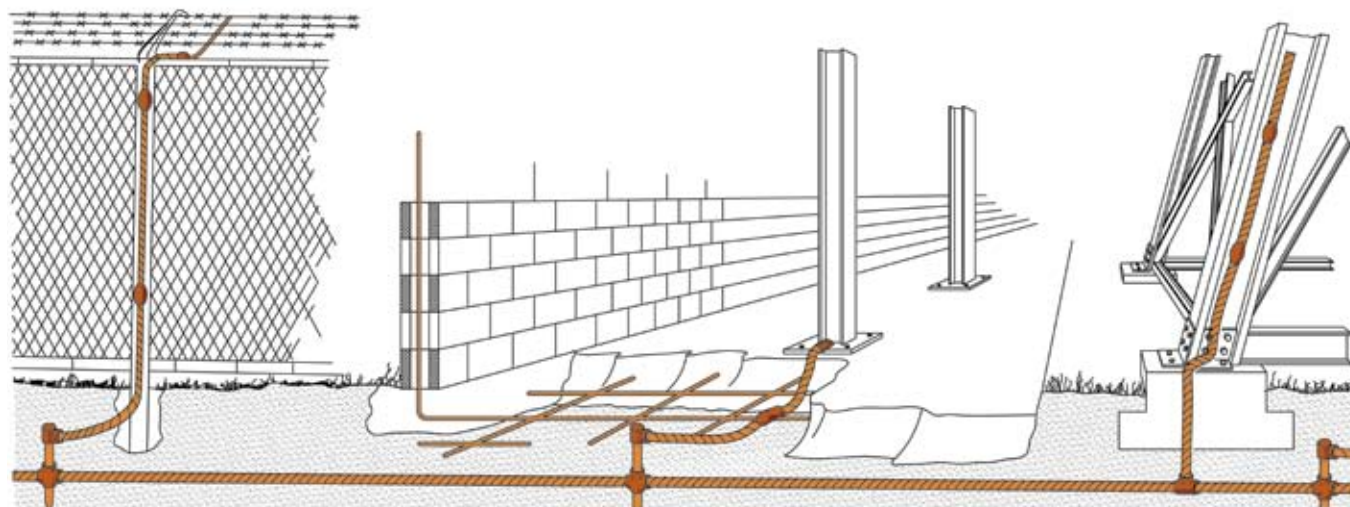
Size A.W.G.	Size in Circular Mils	Conductor Diameter	Number of wires				
			7	19	37	61	91
1000	1,000,000	1.152"			.1644*	.1280	.1048
800	800,000	1.031"		.1470*	.1145	.0938	
750	750,000	.998"		.1424*	.1109	.0908	
700	700,000	.964"		.1375*	.1071	.0877	
600	600,000	.893"		.1273	.0992	.0812	
500	500,000	.813"		.1622*	.1162	.0905	
400	400,000	.728"		.1451	.1040	.0810	
350	350,000	.681"		.1357	.0973	.0757	
300	300,000	.630"		.1257	.0900	.0701	
250	250,000	.575"		.1147	.0822	.0640	
4/0	211,600	.528"	.1739	.1055	.0756		
3/0	167,800	.470"	.1548	.0940	.0763		
2/0	133,100	.419"	.1379	.0837	.0600		
1/0	105,500	.373"	.1228	.0745	.0534		
1	83,690	.332"	.1093	.0664	.0467		
2	66,370	.292"	.0974	.0591			
3	52,630	.260"	.0867	.0526			
4	41,740	.232"	.0772	.0469			
6	26,240	.184"	.0612	.0372			
8	16,510	.146"	.0486	.0295			
10	10,380	.116"	.0385	.0234			
12	6,530	.0915"	.0305	.0185			
14	4,110	.0726"	.0242	.0147			

*Class AA

Bare Solid Copper Wire

Based on A.S.T.M. Standard Specifications

Size A.W.G.	Size in Circular Mils	Conductor Diameter
4/0	211,600	.4600"
3/0	167,800	.4096"
2/0	133,100	.3648"
1/0	105,500	.3249"
1	83,690	.2893"
2	66,370	.2576"
3	52,630	.2294"
4	41,740	.2043"
6	26,240	.1620"
8	16,510	.1285"
10	10,380	.1019"
12	6,530	.0808"
14	4,110	.0641"



Some typical applications of thermOweld® connections in use.

Technical Information

GROUND RODS

SIZE	MATERIAL	TYPE	BODY DIAMETER	THREAD SIZE
1/2"	Copperclad	Sectional	.505"	9/16"
	Copperclad	Plain	.475"	
	Steel*	Plain	.500"	
5/8"	Copperclad	Sectional	.563"	5/8"
	Copperclad	Plain	.563"	
	Steel*	Plain	.625"	
3/4"	Copperclad	Sectional	.682"	3/4"
	Copperclad	Plain	.682"	
	Steel*	Plain	.750"	
1"	Copperclad	Sectional	.914"	1"
	Copperclad	Plain	.914"	
	Steel*	Plain	1.00"	

* Plain Steel, Stainless Steel, Stainless Clad Rods or Galvanized Steel

STEEL PIPE SIZES

Standard Weight
(Schedule 40)

ASTM A53-92-B
ANSI/ASME
B36.10M-1985

Nominal Size Inches	O.D. Inches	Wall Thickness Inches
1"	1.315	.133
1 1/4"	1.660	.140
1 1/2"	1.900	.145
2"	2.375	.154
2 1/2"	2.875	.203
3"	3.500	.216
3 1/2"	4.000	.226
4"	4.500	.237
5"	5.563	.258
6"	6.625	.280
8"	8.625	.322
10"	10.750	.365

RECTANGULAR COPPER BUSBAR

Thickness Inches	Width Inches	Circular Mil Size	Weight Lbs. Per Foot
1/8"	1"	159,200	.484
	1 1/2"	238,700	.726
	2"	318,300	.969
3/16"	1"	238,700	.727
	2"	477,500	1.45
1/4"	1"	318,300	.969
	1 1/2"	477,500	1.45
	2"	636,600	1.94
	3"	954,900	2.91
	4"	1,273,000	3.88
3/8"	1"	477,500	1.45
	1 1/2"	716,200	2.18
	2"	954,900	2.91
	3"	1,432,000	4.36
	4"	1,910,000	5.81
1/2"	2"	1,273,000	3.88
	3"	1,910,000	5.81
	4"	2,546,000	7.75

REINFORCING BARS

Nominal Dimensions

Rebar Sizes	Dia. Inches	Area - Sq. Inches	Equivalent Copper Sizes
3	.375	.11	9AWG
4	.500	.20	7
5	.625	.31	5
6	.750	.44	3
7	.875	.60	2
8	1.000	.79	1
9	1.128	1.00	1/0
10	1.270	1.27	2/0
11	1.410	1.56	3/0
14	1.693	2.25	250 MCM
18	2.257	4.00	450

USEFUL CONVERSIONS

AREA

Sq.Inches x 1273 = kcmil
Sq.Millimeteres x 1.974 = kcmil
kcmil x .5067 = Square Millimeters

DENSITY

Copper:
.323 lb/in³
Steel:
.283 lb/in³

How to Order thermOweld® Molds

The most common **exothermic connections** for concentric and solid copper conductors are listed in this thermOweld® catalog. Save Time and Money by using molds listed in this catalog. If you cannot find the necessary connection please contact thermOweld® at 1-800-558-1373 or visit our web site at www.thermoweld.com and go to the **Mold Selection Wizard** for assistance.



1. Determine the Weld Type required:

- Know the application to determine what materials are to be welded.
- Refer to Selector Chart for correct weld type on pages 10 & 11.
- Find the appropriate Weld Type.
- Go to the page or pages listed to determine the correct mold #.

There are pictures of each weld type in the upper corners of the catalog pages for easy reference

2. Determine the Correct Mold #:

- Determine the Conductor Size or Sizes, Ground Rod Size or surface to be welded.
- Locate each of the above to find the correct Mold #.

The thermOweld® catalog lists molds that are designed for stranded AWG concentric and solid cable, as well as ground rods, bus bar, lugs, steel, rebar, and other special grounding accessories. For sizes not listed please contact thermOweld® at 1-800-558-1373.

3. After Determining the Correct Mold # Verify the Following:

- Price Key - Find the price of the mold by crossing it on the thermOweld® price lists.
- Weld Metal (size) needed to make weld.
- Handle Clamps required for the mold.
- Packing Materials (if needed).
- See Notes - for other accessories needed or suggested to make this connection.

Please Check to make sure you have the following to make a proper weld:

- 1) Mold that fits your application.
- 2) Weld Metal required by the mold.
- 3) Handle Clamps or frame.
- 4) Flint Igniter - (Low emission molds require a battery pack in place of the flint igniter).
- 5) Sleeves, packing or other accessories required or suggested.

Mold Availability:

The mold availability is listed under the lead-time column in the catalog.

- SDS – Same Day Service (*Orders placed by 5:00 pm Central time can ship Same Day*)
- 2 - Can ship the following day (*Orders placed by 12:00 (Noon) Central time will ship the next day.*)



Call Today Ship Today!

Selector Chart

If you cannot find the necessary connection please contact thermOweld® at 1-800-558-1373 for assistance or visit our web site at www.thermOweld.com.

CC-1 PG 13	CC-2 PG 14	CC-3 See Note	CC-4 PG 15	CC-5 See Note	CC-6 PG 16	CC-7 PG 17	CC-11 PG 18
CC-13 See Note	CC-14 PG 16	CC-21 See Note	CC-23 See Note	CC-24 See Note	CC-25 See Note	CC-26 See Note	CC-27 See Note
CC-28 See Note	CC-29 See Note	CC-30 See Note	CC-31 See Note	CC-33 See Note	CC-34 See Note	CC-35 See Note	CC-36 See Note
CR-1 PG 19	CR-2 PG 20	CR-3 PG 21	CR-4 See Note	CR-5 See Note	CR-6 See Note	CR-7 See Note	CR-9 See Note
CR-12 See Note	CR-13 See Note	CR-14 See Note	CR-15 See Note	CR-16 See Note	CR-17 PG 22	CR-18 See Note	CR-19 See Note
CR-20 See Note	CR-22 See Note	CR-24 PG 23	CR-25 See Note	CR-27 PG 53	CR-30 PG 53	CR-31 PG 53	CR-32 PG 53
CR-35 See Note	CR-36 See Note	RR-1 PG 25	RR-2 See Note	RS-1 (STL SURFACE) PG 25	RS-2 (STL SURFACE) PG 25	CS-1 (STL SURFACE) PG 26	CS-2 (STL SURFACE) PG 27
CS-3 (STL SURFACE) PG 28	CS-4 (STL SURFACE) PG 30	CS-5 (CI SURFACE) PG 29	CS-6 (STL SURFACE) PG 30	CS-7 (STL SURFACE) PG 31	CS-8 (STL SURFACE) PG 26	CS-9 (STL SURFACE) PG 27	CS-11 (CI SURFACE) See Note
CS-12 (STL SURFACE) See Note	CS-13 (STL SURFACE) See Note	CS-14 (STL SURFACE) See Note	CS-15 (STL SURFACE) See Note	CS-18 (STL SURFACE) PG 31	CS-22 (STL SURFACE) See Note	CS-23 (STL SURFACE) PG 29	CS-27 (STL SURFACE) See Note
CS-28 (CI SURFACE) See Note	CS-43 (CI SURFACE) See Note	CS-46 (CI SURFACE) See Note	RS-3 (STL SURFACE) PG 52	CRS-1 (STL SURFACE) PG 52	CRS-2 (STL SURFACE) PG 52	RE-1 See Note	RE-2 See Note

Note: Contact thermoweld® for information about these and other weld types not listed.

Selector Chart

If you cannot find the necessary connection please contact thermOweld® at 1-800-558-1373 for assistance or visit our web site at www.thermOweld.com.

CB-1 PG 32 	CB-2 PG 34 	CB-3 PG 36 	CB-4 PG 33 	CB-5 PG 38 	CB-6 PG 35 	CB-7 PG 37 	CB-8 See Note
CB-9 See Note 	CB-11 See Note 	CB-12 See Note 	CB-15 See Note 	CB-16 See Note 	CB-17 See Note 	CB-18 See Note 	CB-19 See Note
CB-20 See Note 	CB-21 See Note 	CB-22 See Note 	CB-25 See Note 	CB-26 See Note 	CB-27 See Note 	CB-29 See Note 	CB-38 See Note
BB-1 PG 39 	BB-2 PG 40 	BB-3 PG 41 	BB-4 See Note 	BB-5 See Note 	BB-6 See Note 	BB-7 See Note 	BB-12 See Note
BB-14 See Note 	BB-17 See Note 	BB-20 See Note 	BB-21 See Note 	BB-22 See Note 	BB-27 See Note 	BB-41 See Note 	BS-1 (STL SURFACE) PG 42
BS-2 (STL SURFACE) PG 42 	BS-3 (STL SURFACE) PG 43 	BS-4 (STL SURFACE) PG 43 	BS-5 (STL SURFACE) PG 43 	BS-6 (STL SURFACE) See Note 	BS-7 (STL SURFACE) See Note 	BS-8 (STL SURFACE) See Note 	BS-13 (STL SURFACE) See Note
BS-14 See Note 	BS-15 (STL SURFACE) See Note 	BS-16 (STL SURFACE) See Note 	BS-17 (STL SURFACE) See Note 	BS-18 (STL SURFACE) See Note 	BS-19 (STL SURFACE) See Note 	BS-20 (STL SURFACE) See Note 	CRE-1 PG 44
CRE-2 PG 45 	CRE-3 PG 46 	CRE-4 PG 47 	CRE-5 See Note 	CRE-6 PG 48 	CRE-7 See Note 	CRE-8 See Note 	CRE-9 See Note
CRE-11 See Note 	CRE-12 See Note 	CRE-13 See Note 	CRE-14 See Note 	CRE-15 See Note 	CRE-16 See Note 	CRE-17 See Note 	CRE-18 See Note
CRE-19 See Note 	CRE-20 See Note 	CRE-21 See Note 	AC-1 PG 54 	AC-2 PG 54 	AR-1 PG 55 	ACR-1 PG 55 	ACR-2 PG 55

Note: Contact thermoweld® for information about these and other weld types not listed.

WELD METAL

thermOweld® Weld Metal is packaged in moisture-resistant plastic cartridges that have tight fitting caps. These cartridges and the necessary steel discs are then packaged in boxes that are shrink-wrapped. This insures the weld metal will arrive in good condition, always dry, and ready for a positive ignition every time.

thermOweld® Weld Metal comes in four types; one for welding copper to copper or copper to steel, copper to rail, copper to cast iron and one for welding copper to steel for cathodic protection. The size and weight (in grams) of the cartridge are marked on each individual cartridge. thermOweld® Weld Metal is available to be shipped via ground, air or ocean freight.

All sizes of weld metal are eligible for thermOweld's SDS (Same Day Service) shipment.



STANDARD CARTRIDGE SIZE	CAST IRON CARTRIDGE SIZE	CATHODIC PROTECTION CARTRIDGE SIZE	RAIL CARTRIDGE SIZE	PACKED PER BOX
#15	#15CI	#15CP	#15R	20
#25	#25CI	#25CP	#25R	20
#32	#32CI	#32CP	#32R	10
#45	#45CI	#45CP	#45R	20
#65	#65CI	#65CP	#65R	20
#90	#90CI	~	#90R	10
#115	#115CI	~	#115R	10
#150	~	~	#150R	10
#200	~	~	#200R	10
#250	~	~	#250R	10
#500	~	~	#500R	10
thermOweld® Weld Metal is sold in box quantities only				

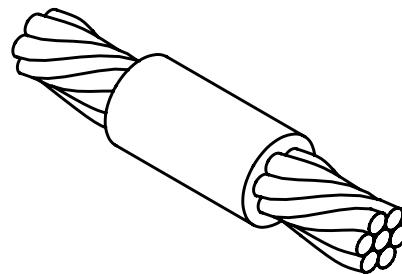
CC-1 TYPE MOLDS

Horizontal End to End

CC-1

CC-1 Type Molds are used for horizontal butt splice cable connections.

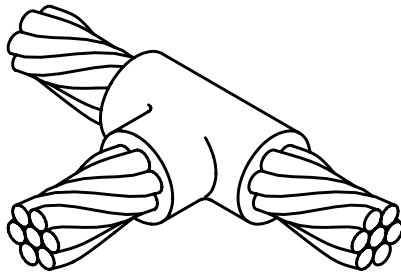
Size range is #6 through 1000 MCM solid or concentric stranded copper conductors.



CABLE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#8	M-6021	4	15	B-106	2
#6	M-200	4	25	B-106	2
#4	M-201	4	25	B-106	2
#2	M-203	4	32	B-106	SDS
#1	M-204	4	32	B-106	4
1/0	M-205	4	45	B-106	2
2/0	M-206	4	65	B-106	SDS
3/0	M-207	4	90	B-106	2
4/0	M-208	4	90	B-106	SDS
250 MCM	M-209	4	115	B-106	2
300 MCM	M-210	4	115	B-106	2
350 MCM	M-211	4	150	B-106	2
500 MCM	M-213	4	200	B-107	2
750 MCM	M-214	5	2-150	B-107	2
1000 MCM	M-215	5	2-200	B-107	2

- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0330-00 ~ Cable Clamp (pg 58)

CC-2



CC-2 TYPE MOLDS

Horizontal Cable Tap to Horizontal Cable Run

CC-2 Type Molds are used to join horizontal cable tap to a horizontal run cable.

Size range is #6 through 750 MCM solid or concentric stranded copper conductors.

CABLE		MOLD #	Price Key	Weld Metal	Handle Clamps	Lead Time
RUN	TAP					
#6	#6	M-5072	4	32	B-106	2
#4	#4	M-221	4	32	B-106	SDS
#2	#2	M-223	4	45	B-106	SDS
	#4	M-224	4	45	B-106	2
#1	#1	M-225	4	45	B-106	2
	#2	M-226	4	45	B-106	2
	#4	M-227	4	45	B-106	2
1/0	1/0	M-228	4	90	B-106	SDS
	#1	M-229	4	45	B-106	2
	#2	M-230	4	45	B-106	2
	#4	M-231	4	45	B-106	2
2/0	2/0	M-232	4	90	B-106	SDS
	1/0	M-233	4	90	B-106	2
	#1	M-234	4	45	B-106	2
	#2	M-235	4	45	B-106	SDS
	#4	M-5475	4	45	B-106	2
3/0	3/0	M-236	4	115	B-106	SDS
	2/0	M-237	4	90	B-106	2
	1/0	M-238	4	90	B-106	2
	#1	M-239	4	45	B-106	2
	#2	M-240	4	45	B-106	2
4/0	#4	M-5574	4	45	B-106	2
	4/0	M-241	4	150	B-106	SDS
	3/0	M-242	4	115	B-106	2
	2/0	M-243	4	90	B-106	SDS
	1/0	M-244	4	90	B-106	SDS
	#1	M-245	4	90	B-106	2
250 MCM	#2	M-246	4	90	B-106	SDS
	#4	M-5021	4	90	B-106	SDS
	250 MCM	M-247	4	150	B-106	SDS
	4/0	M-248	4	150	B-106	2
	3/0	M-249	4	150	B-106	2
	2/0	M-250	4	90	B-106	2
	1/0	M-251	4	90	B-106	2
	#1	M-252	4	90	B-106	2
	#2	M-253	4	90	B-106	2

• For sizes not listed, contact thermOweld®.

- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.

CABLE		MOLD #	Price Key	Weld Metal	Handle Clamps	Lead Time
RUN	TAP					
300 MCM	300 MCM	M-254	4	200	B-106	2
	250 MCM	M-255	4	150	B-106	2
	4/0	M-256	4	150	B-106	2
	3/0	M-257	4	150	B-106	2
	2/0	M-258	4	90	B-106	2
	1/0	M-259	4	90	B-106	4
	#1	M-260	4	90	B-106	4
	#2	M-261	4	90	B-106	2
350 MCM	350 MCM	M-262	4	200	B-106	2
	300 MCM	M-263	4	200	B-106	2
	250 MCM	M-264	4	200	B-106	2
	4/0	M-265	4	150	B-106	2
	3/0	M-266	4	150	B-106	2
	2/0	M-267	4	90	B-106	2
	1/0	M-268	4	90	B-106	2
	#1	M-269	4	90	B-106	2
500 MCM	#2	M-270	4	90	B-106	2
	500 MCM	M-280	4	2-150	B-106	SDS
	350 MCM	M-282	4	200	B-106	2
	300 MCM	M-283	4	200	B-106	2
	250 MCM	M-284	4	200	B-106	2
	4/0	M-285	4	150	B-106	SDS
	2/0	M-286	4	90	B-106	2
	1/0	M-287	4	90	B-106	2
750 MCM	#1	M-288	4	90	B-106	2
	#2	M-289	4	90	B-106	2
	750 MCM	M-290	5	500	B-107	2
	500 MCM	M-291	5	2-200	B-107	2
	350 MCM	M-293	4	250	B-106	2
	300 MCM	M-294	4	200	B-106	4
	250 MCM	M-295	4	200	B-106	2
	4/0	M-296	4	150	B-106	2
	2/0	M-297	4	150	B-106	2
	1/0	M-298	4	150	B-106	2

• Required Tools;

Handle Clamps w/ Flint Ignitor(see chart above for correct handles)
38-0309-00 ~ Flint Ignitor

• Other recommended accessories;

40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (pg 58)
40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500 (pg 58)
38-3922-00 ~ Mold Cleaning Brush (pg 58)
38-0135-00 ~ Cable Cleaning Brush (pg 58)
38-0330-00 ~ Cable Clamp (pg 58)

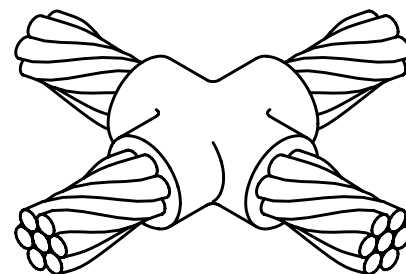
CC-4 TYPE MOLDS

Horizontal to Horizontal Cable Cross

CC-4

CC-4 Type Molds are used to join two horizontal cables at right angles. One cable is cut and the other is a through run.

Size range is #6 through 500 MCM solid or concentric stranded copper conductors.



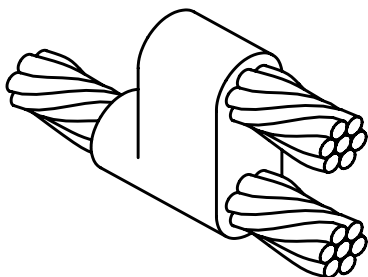
CABLE		MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
RUN	TAP					
#6	#6	M-5001	4	32	B-106	2
#4	#4	M-423	4	45	B-106	2
#2	#2	M-425	4	65	B-106	2
	#4	M-426	4	65	B-106	2
#1	#1	M-427	4	65	B-106	4
	#2	M-428	4	65	B-106	4
	#4	M-429	4	65	B-106	4
1/0	1/0	M-430	4	90	B-106	2
	#1	M-431	4	90	B-106	4
	#2	M-432	4	90	B-106	2
	#4	M-433	4	90	B-106	4
2/0	2/0	M-434	4	115	B-106	SDS
	1/0	M-435	4	115	B-106	4
	#1	M-436	4	115	B-106	4
	#2	M-437	4	115	B-106	2
3/0	3/0	M-438	4	150	B-106	2
	2/0	M-439	4	150	B-106	2
	1/0	M-440	4	115	B-106	2
	#1	M-441	4	115	B-106	4
	#2	M-442	4	115	B-106	2
4/0	4/0	M-443	4	200	B-106	SDS
	3/0	M-444	4	200	B-106	2
	2/0	M-445	4	150	B-106	2
	1/0	M-446	4	150	B-106	2
	#1	M-447	4	115	B-106	2
	#2	M-448	4	115	B-106	2
250 MCM	250 MCM	M-449	4	200	B-106	2
	4/0	M-450	4	200	B-106	2
	3/0	M-451	4	200	B-106	4
	2/0	M-452	4	150	B-106	2
	1/0	M-453	4	150	B-106	2
	#1	M-454	4	115	B-106	4
	#2	M-455	4	115	B-106	2

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.

CABLE		MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
RUN	TAP					
300 MCM	300 MCM	M-456	4	250	B-106	2
	250 MCM	M-457	4	250	B-106	4
	4/0	M-458	4	200	B-106	4
	3/0	M-459	4	200	B-106	4
	2/0	M-460	4	150	B-106	4
	1/0	M-461	4	150	B-106	4
	#1	M-462	4	115	B-106	4
	#2	M-463	4	115	B-106	4
350 MCM	350 MCM	M-464	4	250	B-106	2
	300 MCM	M-465	4	250	B-106	4
	250 MCM	M-466	4	250	B-106	4
	4/0	M-467	4	200	B-106	2
	3/0	M-468	4	200	B-106	4
	2/0	M-469	4	200	B-106	2
	1/0	M-470	4	200	B-106	4
	#1	M-471	4	150	B-106	4
	#2	M-472	4	150	B-106	4
500 MCM	500 MCM	M-483	5	500	B-107	2
	350 MCM	M-485	5	2-200	B-107	4
	300 MCM	M-486	5	2-200	B-107	2
	250 MCM	M-487	5	2-150	B-107	4
	4/0	M-488	5	2-150	B-107	2
	3/0	M-489	5	2-150	B-107	4
	2/0	M-490	4	250	B-106	2
	1/0	M-491	4	250	B-106	4
	#1	M-492	4	200	B-106	4
	#2	M-493	4	200	B-106	2

- Required Tools;
Handle Clamps w/ Flint Ignitor(see chart above for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (pg 58)
40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500 (pg 58)
38-3922-00 ~ Mold Cleaning Brush (pg 58)
38-0135-00 ~ Cable Cleaning Brush (pg 58)
38-0330-00 ~ Cable Clamp (pg 58)

CC-6

CC-6 TYPE MOLDS
Horizontal Parallel Tap

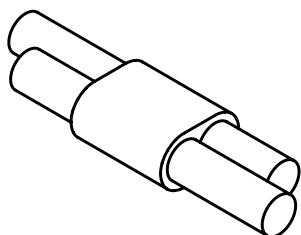
CC-6 Type Molds are used to join horizontal parallel tap to run connections. The tap cable is over the run cable. Size range is #6 through 4/0 solid or concentric stranded copper conductors.

CABLE		MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
RUN	TAP					
#6 Sol	#6 Sol	M-1270	4	25	B-106	2
#6	#6	M-1271	4	25	B-106	2
#4	#4	M-1272	4	32	B-106	2
	#6	M-1273	4	32	B-106	2
	#6 Sol	M-1274	4	32	B-106	4
	#8 Sol	M-1275	4	32	B-106	2
#2	#2	M-1276	4	65	B-106	SDS
	#4	M-1277	4	45	B-106	4
	#6	M-1278	4	32	B-106	2
	#6 Sol	M-1279	4	32	B-106	2
#1	#8 Sol	M-1280	4	32	B-106	2
	#1	M-1281	4	65	B-106	2
	#2	M-1282	4	65	B-106	2
	#4	M-1283	4	45	B-106	4
	#6	M-1284	4	45	B-106	4
	#6 Sol	M-1285	4	45	B-106	4
	#8 Sol	M-1286	4	46	B-106	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0330-00 ~ Cable Clamp (pg 58)

CABLE		MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
RUN	TAP					
1/0	1/0	M-1287	4	90	B-106	2
	#1	M-1288	4	90	B-106	4
	#2	M-1289	4	65	B-106	2
	#4	M-1290	4	65	B-106	2
	#6	M-1291	4	45	B-106	2
	#6 Sol	M-1292	4	45	B-106	2
2/0	#8 Sol	M-1293	4	45	B-106	4
	2/0	M-1294	4	115	B-106	2
	1/0	M-1295	4	115	B-106	2
	#1	M-1296	4	90	B-106	4
	#2	M-1297	4	90	B-106	2
	#4	M-1298	4	65	B-106	2
	#6	M-1299	4	65	B-106	2
	#6 Sol	M-1300	4	65	B-106	2
4/0	#8 Sol	M-1301	4	65	B-106	2
	4/0	M-1302	4	150	B-106	2
	2/0	M-1303	4	115	B-106	2
	1/0	M-1304	4	115	B-106	2
	#1	M-1305	4	115	B-106	2
	#2	M-1306	4	115	B-106	2
	#4	M-1307	4	90	B-106	2
	#6	M-1308	4	90	B-106	2
	#6 Sol	M-1309	4	90	B-106	2
	#8 Sol	M-1310	4	90	B-106	2

CC-14

CC-14 TYPE MOLDS
Horizontal Parallel through Cables

CC-14 Type Molds are used to join horizontal parallel through run cables. Cables run side by side in the mold. Size range is #8 through #6 solid or concentric stranded copper conductors.

CABLE		MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
RUN	TAP					
#8	#8	M-5709	18†	15	40-4565-00	2
#6	#6	M-5618	18†	25	40-4565-00	2

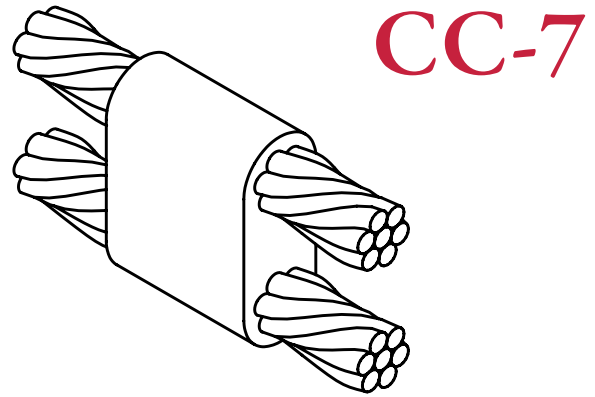
† ~ Sold complete with handles

CC-7 TYPE MOLDS

Horizontal Parallel through Cables

CC-7 Type Molds are used to join horizontal parallel through run cables. One cable runs above the other cable in the mold.

Size range is #6 through 4/0 solid or concentric stranded copper conductors.

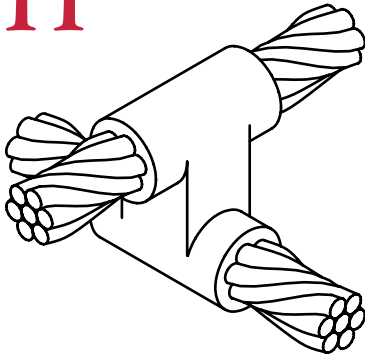


CABLE		MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
RUN	TAP					
#6	#6	M-5965	4	25	B-106	2
#4	#4	M-1311	4	32	B-106	2
	#6	M-5627	4	32	B-106	4
	#6 Sol	M-8882	4	32	B-106	4
	#8	M-5629	4	32	B-106	4
	#8 Sol	M-5630	4	32	B-106	4
#2	#2	M-1313	4	65	B-106	SDS
	#4	M-1314	4	65	B-106	2
	#6	M-5631	4	45	B-106	2
	#6 Sol	M-5632	4	45	B-106	4
	#8	M-5634	4	45	B-106	2
#1	#8 Sol	M-5635	4	45	B-106	4
	#1	M-1315	4	65	B-106	2
	#2	M-1316	4	65	B-106	2
	#4	M-1317	4	65	B-106	4
	#6	M-5636	4	65	B-106	4
1/0	#6 Sol	M-5637	4	65	B-106	4
	#8	M-5638	4	45	B-106	4
	#8 Sol	M-5639	4	45	B-106	4
	1/0	M-1318	4	90	B-106	2
	#1	M-1319	4	65	B-106	4

CABLE		MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
RUN	TAP					
2/0	2/0	M-1322	4	115	B-106	SDS
	1/0	M-1323	4	115	B-106	2
	#1	M-1324	4	90	B-106	4
	#2	M-1325	4	90	B-106	2
	#4	M-5659	4	90	B-106	2
	#6	M-5342	4	90	B-106	2
	#6 Sol	M-5652	4	90	B-106	2
	#8	M-5668	4	65	B-106	4
	#8 Sol	M-5943	4	65	B-106	4
3/0	3/0	M-1326	4	150	B-106	2
	2/0	M-1327	4	150	B-106	2
	1/0	M-1328	4	115	B-106	2
	#1	M-1329	4	115	B-106	4
	#2	M-1330	4	115	B-106	2
	#4	M-6046	4	115	B-106	2
	#6	M-5676	4	90	B-106	4
	#6 Sol	M-5679	4	90	B-106	4
	#8	M-5680	4	90	B-106	4
4/0	#8 Sol	M-5682	4	90	B-106	4
	4/0	M-1331	4	200	B-106	SDS
	3/0	M-1332	4	200	B-106	2
	2/0	M-1333	4	150	B-106	2
	1/0	M-1334	4	150	B-106	2
	#1	M-1335	4	150	B-106	4
	#2	M-1336	4	150	B-106	2
	#4	M-5340	4	150	B-106	2
	#6	M-5684	4	90	B-106	2
	#6 Sol	M-6552	4	90	B-106	2
	#8	M-5686	4	90	B-106	4
	#8 Sol	M-5688	4	90	B-106	2

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0330-00 ~ Cable Clamp (pg 58)

CC-11



CC-11 TYPE MOLDS

Horizontal to Horizontal Cable Cross

CC-11 Type Molds are used to join uncut horizontal cables at right angles to each other.

Size range is #6 through 500 MCM solid or concentric stranded copper conductors.

CABLE		MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
RUN	TAP					
#6	#6	M-6057	4	45	B-106	2
#4	#4	M-2687	4	65	B-106	2
#2	#2	M-2689	4	90	B-106	2
	#4	M-2690	4	65	B-106	4
#1	#1	M-2691	4	115	B-106	2
	#2	M-2692	4	90	B-106	4
	#4	M-2693	4	90	B-106	4
1/0	1/0	M-2694	22	150	B-106	2
	#1	M-2695	22	150	B-106	4
	#2	M-2696	22	115	B-106	2
	#4	M-2697	22	115	B-106	4
2/0	2/0	M-2698	22	200	B-106	2
	1/0	M-2699	22	200	B-106	4
	#1	M-2700	22	150	B-106	4
	#2	M-2701	22	150	B-106	4
3/0	3/0	M-2702	22	250	B-106	2
	2/0	M-2703	22	200	B-106	4
	1/0	M-2704	22	200	B-106	4
	#1	M-2705	22	150	B-106	4
	#2	M-2706	22	150	B-106	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.

CABLE		MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
RUN	TAP					
4/0	4/0	M-2707	22	250	B-106	SDS
	3/0	M-2708	22	250	B-106	2
	2/0	M-2709	22	200	B-106	2
	1/0	M-2710	22	200	B-106	2
	#1	M-2711	22	150	B-106	4
	#2	M-2712	22	150	B-106	2
250 MCM	250 MCM	M-2713	22	2-150	B-106	2
	4/0	M-2714	22	2-150	B-106	2
	3/0	M-2715	22	2-150	B-106	4
	2/0	M-2716	22	250	B-106	4
	1/0	M-2717	22	150	B-106	4
	#1	M-2718	22	200	B-106	4
500 MCM	#2	M-2719	22	150	B-106	4
	500 MCM	M-2747	23	3-250	B-107	2
	250 MCM	M-2751	23	500	B-107	4
	4/0	M-2752	23	500	B-107	2
	3/0	M-2753	23	500	B-107	4
	2/0	M-2754	23	2-200	B-107	4
	1/0	M-2755	22	2-150	B-106	4
	#1	M-2756	22	250	B-106	4
	#2	M-2757	22	250	B-106	4

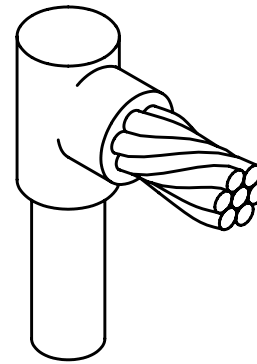
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles) 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (pg 58)
 - 40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500 (pg 58)
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0330-00 ~ Cable Clamp (pg 58)

CR-1 TYPE MOLDS

Horizontal Cable Terminal to Ground Rod

CR-1 Type Molds are used to terminate horizontal copper cable at the top of a vertical ground rod.

Size range is #6 through 1000 MCM solid or concentric stranded copper conductors; 1/2" through 1" for the ground rod.



CR-1

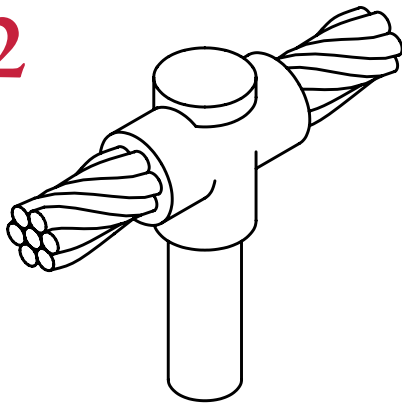
GROUND ROD SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/2"	#6	M-5858	4	45	B-106	4
	#4	M-6448	4	65	B-106	4
	#2	M-495	4	65	B-106	2
	#1	M-496	4	65	B-106	4
	1/0	M-497	4	90	B-106	2
	2/0	M-498	4	90	B-106	2
	3/0	M-499	4	90	B-106	2
	4/0	M-500	4	90	B-106	2
5/8"	250 MCM	M-501	4	90	B-106	2
	300 MCM	M-502	4	90	B-106	4
	#6	M-5799	4	45	B-106	2
	#4	M-5197	4	65	B-106	2
	#2	M-503	4	65	B-106	2
	#1	M-504	4	65	B-106	2
	1/0	M-505	4	90	B-106	2
	2/0	M-506	4	90	B-106	SDS
	3/0	M-507	4	90	B-106	2
	4/0	M-508	4	90	B-106	SDS
	250 MCM	M-509	4	90	B-106	2
	300 MCM	M-510	4	115	B-106	2
	350 MCM	M-511	4	115	B-106	2
	500 MCM	M-513	4	150	B-106	2

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add suffix "-N" to mold number.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.

GROUND ROD SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
3/4"	#6	M-5878	4	45	B-106	2
	#4	M-5593	4	90	B-106	2
	#2	M-5781	4	90	B-106	2
	#1	M-514	4	90	B-106	2
	1/0	M-515	4	90	B-106	2
	2/0	M-516	4	90	B-106	2
	3/0	M-517	4	90	B-106	2
	4/0	M-518	4	90	B-106	SDS
	250 MCM	M-519	4	90	B-106	2
	300 MCM	M-520	4	115	B-106	2
	350 MCM	M-521	4	115	B-106	2
	500 MCM	M-523	4	150	B-106	2
1"	750 MCM	M-524	4	250	B-106	2
	1/0	M-525	4	150	B-106	2
	2/0	M-526	4	150	B-106	2
	3/0	M-527	4	150	B-106	2
	4/0	M-528	4	150	B-106	2
	250 MCM	M-529	4	150	B-106	2
	300 MCM	M-530	4	200	B-106	4
	350 MCM	M-531	4	200	B-106	4
	500 MCM	M-533	4	200	B-106	2
	750 MCM	M-534	4	250	B-106	4
	1000 MCM	M-535	5	2-150	B-107	4

- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold Cleaning Brush (pg 58)
38-0135-00 ~ Cable Cleaning Brush (pg 58)
38-0304-00 ~ File (pg 59)
38-0330-00 ~ Cable Clamp (pg 58)

CR-2



CR-2 TYPE MOLDS

Horizontal Cable to Ground Rod

CR-2 Type Molds are used to join horizontal through copper cable to the top of a vertical ground rod.

Size range is #6 through 1000 MCM solid or concentric stranded copper conductors; 1/2" through 1" for the ground rod.

GROUND ROD SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/2"	#6	M-5786	4	65	B-106	4
	#4	M-5388	4	90	B-106	4
	#2	M-537	4	90	B-106	2
	#1	M-538	4	90	B-106	2
	1/0	M-539	4	90	B-106	2
	2/0	M-540	4	90	B-106	2
	3/0	M-541	4	115	B-106	4
	4/0	M-542	4	115	B-106	2
	250 MCM	M-543	4	150	B-106	2
5/8"	300 MCM	M-544	4	200	B-106	4
	#6	M-5815	4	65	B-106	2
	#4	M-5915	4	90	B-106	2
	#2	M-545	4	90	B-106	SDS
	#1	M-546	4	90	B-106	2
	1/0	M-547	4	90	B-106	SDS
	2/0	M-548	4	115	B-106	SDS
	3/0	M-549	4	115	B-106	SDS
	4/0	M-550	4	115	B-106	SDS
	250 MCM	M-551	4	150	B-106	2
	300 MCM	M-552	4	200	B-106	2
	350 MCM	M-553	4	200	B-106	2
	500 MCM	M-555	4	250	B-106	2

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add suffix "-N" to mold number.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.

GROUND ROD SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
3/4"	#6	M-5787	4	65	B-106	2
	#4	M-6201	4	90	B-106	2
	#2	M-556	4	90	B-106	2
	#1	M-557	4	90	B-106	2
	1/0	M-558	4	115	B-106	SDS
	2/0	M-559	4	115	B-106	SDS
	3/0	M-560	4	115	B-106	SDS
	4/0	M-561	4	115	B-106	SDS
	250 MCM	M-562	4	150	B-106	2
	300 MCM	M-563	4	200	B-106	2
	350 MCM	M-564	4	200	B-106	2
	500 MCM	M-566	4	250	B-106	2
	750 MCM	M-567	5	2-200	B-107	2
1"	1/0	M-569	4	150	B-106	2
	2/0	M-570	4	150	B-106	2
	3/0	M-571	4	150	B-106	2
	4/0	M-572	4	150	B-106	2
	250 MCM	M-573	4	200	B-106	2
	300 MCM	M-574	4	200	B-106	4
	350 MCM	M-575	4	200	B-106	2
	500 MCM	M-577	4	250	B-106	2
	750 MCM	M-578	5	2-200	B-107	4
	1000 MCM	M-579	5	500	B-107	4

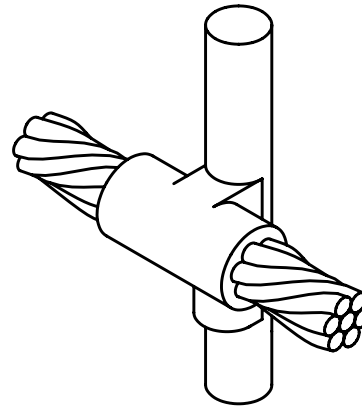
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold Cleaning Brush (pg 58)
38-0135-00 ~ Cable Cleaning Brush (pg 58)
38-0304-00 ~ File (pg 59)
38-0330-00 ~ Cable Clamp (pg 58)

CR-3 TYPE MOLDS

Horizontal Thru Cable to Ground Rod

CR-3 Type Molds are used to join horizontal through run cable to the side of a vertical ground rod.

Size range is #6 through 1000 MCM solid or concentric stranded copper conductors; 1/2" through 1" for the ground rod.



CR-3

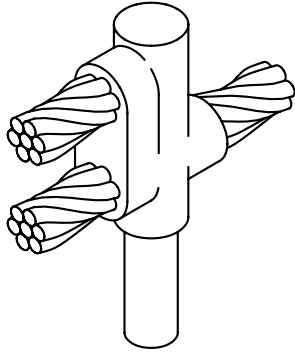
GROUND ROD SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/2"	#6	M-5321	24	65	B-106	4
	#4	M-2154	24	90	B-106	4
	#2	M-2155	24	90	B-106	2
	#1	M-2156	24	115	B-106	4
	1/0	M-1581	24	115	B-106	4
	2/0	M-1582	24	115	B-106	2
	4/0	M-1583	24	150	B-106	2
5/8"	250 MCM	M-1584	24	150	B-106	4
	#6	M-5660	24	65	B-106	4
	#4	M-2157	24	90	B-106	2
	#2	M-2158	24	90	B-106	2
	#1	M-2159	24	115	B-106	2
	1/0	M-1586	24	115	B-106	2
	2/0	M-1587	24	115	B-106	SDS
	4/0	M-1588	24	150	B-106	SDS
	250 MCM	M-1589	24	150	B-106	2
	500 MCM	M-1593	13	2-200	B-107	2

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add suffix "-N" to mold number.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.

GROUND ROD SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
3/4"	#6	M-6630	24	65	B-106	2
	#4	M-2160	24	90	B-106	2
	#2	M-2161	24	90	B-106	2
	#1	M-2162	24	115	B-106	4
	1/0	M-1594	24	115	B-106	2
	2/0	M-1595	24	115	B-106	2
	4/0	M-1596	24	150	B-106	SDS
	250 MCM	M-1597	24	200	B-106	2
	500 MCM	M-1601	13	500	B-107	2
1"	750 MCM	M-1602	13	3-250	B-107	4
	#6	M-6906	24	90	B-106	4
	#4	M-2163	24	90	B-106	2
	#2	M-2164	24	90	B-106	4
	#1	M-2165	24	115	B-106	4
	1/0	M-1603	24	115	B-106	4
	2/0	M-1604	24	115	B-106	2
	4/0	M-1605	24	150	B-106	2
	250 MCM	M-1606	24	200	B-106	4
	500 MCM	M-1610	13	500	B-107	2
	750 MCM	M-1611	13	3-250	B-107	4

- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0304-00 ~ File (pg 59)
 - 38-0330-00 ~ Cable Clamp (pg 58)

CR-17



CR-17 TYPE MOLDS

Horizontal Run and Tap Cables to Ground Rod

CR-17 Type Molds are used to join horizontal run and tap cables to the top of a vertical ground rod.

Size range is #4 through 750 MCM solid or concentric stranded copper conductors; 1/2" through 1" for the ground rod.

GROUND ROD SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/2"	#4	M-5416	4	90	B-106	4
	#2	M-6165	4	90	B-106	4
	#1	M-5830	4	90	B-106	4
	1/0	M-5940	4	115	B-106	4
	2/0	M-5850	4	150	B-106	2
	3/0	M-5833	4	200	B-106	2
	4/0	M-5380	4	200	B-106	2
5/8"	#4	M-5972	4	90	B-106	2
	#2	M-5935	4	115	B-106	2
	#1	M-5699	4	115	B-106	4
	1/0	M-5746	4	150	B-106	2
	2/0	M-5963	4	200	B-106	2
	3/0	M-5734	4	250	B-106	2
	4/0	M-5732	4	250	B-106	2
	250 MCM	M-5722	5	2-150	B-107	2

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add suffix "-N" to mold number.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.

GROUND ROD SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
3/4"	#4	M-5698	4	90	B-106	2
	#2	M-5294	4	115	B-106	2
	#1	M-5390	4	115	B-106	4
	1/0	M-6025	4	150	B-106	2
	2/0	M-5738	4	200	B-106	2
	3/0	M-6003	4	250	B-106	2
	4/0	M-2566	4	250	B-106	2
	250 MCM	M-5904	5	2-150	B-107	2
	300 MCM	M-5857	5	2-200	B-107	4
	350 MCM	M-5777	5	2-200	B-107	2
	500 MCM	M-5961	5	3-200	B-107	2
1"	#4	M-5556	4	115	B-106	4
	#2	M-5555	4	150	B-106	4
	#1	M-6048	4	150	B-106	4
	1/0	M-5992	4	200	B-106	4
	2/0	M-5877	4	250	B-106	4
	3/0	M-5821	5	2-150	B-107	4
	4/0	M-5820	5	2-150	B-107	2
	250 MCM	M-5807	5	2-200	B-107	4
	300 MCM	M-5803	5	500	B-107	4
	350 MCM	M-5561	5	500	B-107	4
	500 MCM	M-5515	6	3-250	B-107	4
	750 MCM	M-5513	6	2-500	B-107	4

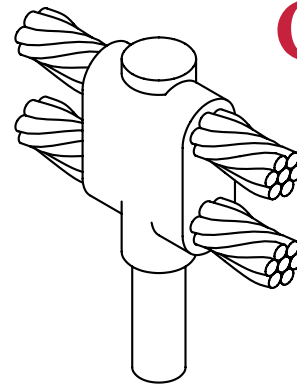
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold Cleaning Brush (pg 58)
38-0135-00 ~ Cable Cleaning Brush (pg 58)
38-0304-00 ~ File (pg 59)
38-0330-00 ~ Cable Clamp (pg 58)

CR-24 TYPE MOLDS

Horizontal Parallel Run Cables to Ground Rod

CR-24 Type Molds are used to join horizontal parallel cables to the top of a vertical ground rod.

Size range is #4 through 750 MCM solid or concentric stranded copper conductors; 1/2" through 1" for the ground rod.



CR-24

GROUND ROD SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/2"	#4	M-5640	4	115	B-106	4
	#2	M-5667	4	115	B-106	4
	#1	M-6002	4	115	B-106	4
	1/0	M-5767	4	150	B-106	4
	2/0	M-5604	4	200	B-106	2
	3/0	M-5560	4	250	B-106	4
5/8"	4/0	M-6766	4	250	B-106	2
	#4	M-6208	4	115	B-106	2
	#2	M-5702	4	150	B-106	2
	#1	M-5517	4	150	B-106	4
	1/0	M-5573	4	200	B-106	2
	2/0	M-8451	4	250	B-106	2
	3/0	M-2510	5	2-150	B-107	4
	4/0	M-5428	5	2-150	B-107	2
	250 MCM	M-1212	5	2-200	B-107	4
	300 MCM	M-2084	5	500	B-107	2
1"	350 MCM	M-2558	5	500	B-107	4
	500 MCM	M-2450	5	3-250	B-107	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add suffix "-N" to mold number.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.

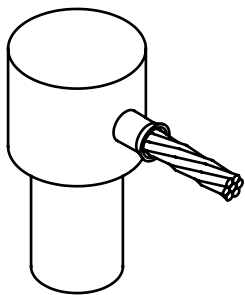
GROUND ROD SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
3/4"	#4	M-8011	4	115	B-106	2
	#2	M-2320	4	150	B-106	2
	#1	M-2235	4	150	B-106	2
	1/0	M-6051	4	200	B-106	2
	2/0	M-8802	4	250	B-106	2
	3/0	M-8726	5	2-150	B-107	2
	4/0	M-5677	5	2-150	B-107	2
	250 MCM	M-8461	5	2-200	B-107	4
	300 MCM	M-8428	5	500	B-107	4
	350 MCM	M-8294	5	500	B-107	4
1"	500 MCM	M-8214	5	3-250	B-107	4
	750 MCM	M-8027	6	2-500	B-107	2
	#4	M-5330	4	150	B-106	4
	#2	M-5332	4	200	B-106	4
	#1	M-5333	4	200	B-106	4
	1/0	M-5334	4	250	B-106	4
	2/0	M-5335	5	2-150	B-107	4
	3/0	M-5336	5	2-200	B-107	4
	4/0	M-5337	5	2-200	B-107	4
	250 MCM	M-5338	5	500	B-107	4
	300 MCM	M-5341	5	3-200	B-107	4
	350 MCM	M-5351	5	3-200	B-107	4
	500 MCM	M-5352	6	2-500	B-107	4

- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold Cleaning Brush (pg 58)
38-0135-00 ~ Cable Cleaning Brush (pg 58)
38-0304-00 ~ File (pg 59)
38-0330-00 ~ Cable Clamp (pg 58)

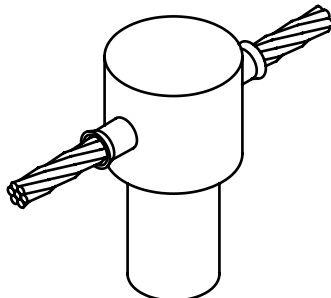
Single Shot Molds

SINGLE SHOT MOLDS

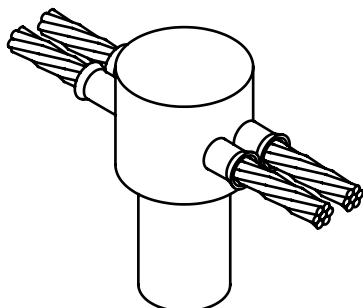
thermOweld® Single Shot Molds are an economical way to make cable connections onto the top of a ground rod. The Single Shot is a disposable single use ceramic mold that includes the weld metal and disc. Flint ignitor must be purchased separately.



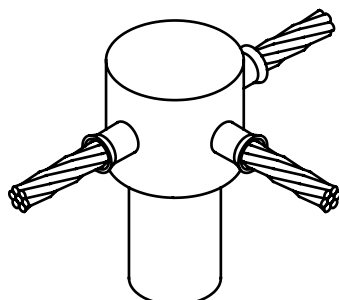
CR-1



CR-2



CR-24



CR-25

Grd Rod Size	Cable Size		Type	Mold #
	Solid	Stranded		
1/2"	#6, #8	#8	CR-1	M-2009
	#3, #4	#4, #6	CR-1	M-2010
	#1, #2	#2, #3	CR-1	M-2011
	#6, #8	#8	CR-2	M-2024
	#3, #4	#4, #6	CR-2	M-2025
	#1, #2	#2, #3	CR-2	M-2026

Grd Rod Size	Cable Size		Type	Mold #
	Solid	Stranded		
5/8"	#6, #8	#8	CR-1	M-2012
	#3, #4	#4, #6	CR-1	M-2013
	#1, #2	#2, #3	CR-1	M-2014
	2/0, 1/0	1/0, #1	CR-1	M-2015
		2/0	CR-1	M-2016
	#6, #8	#8	CR-2	M-2027
	#3, #4	#4, #6	CR-2	M-2028
	#1, #2	#2, #3	CR-2	M-2029
	2/0, 1/0	1/0, #1	CR-2	M-2030
	#6, #8	#8	CR-24	M-2105
	#3, #4	#4, #6	CR-24	M-2106
	#1, #2	#2, #3	CR-24	M-2107
	#6, #8	#8	CR-25	M-2006
	#3, #4	#4, #6	CR-25	M-2007
	#1, #2	#2, #3	CR-25	M-2008

Grd Rod Size	Cable Size		Type	Mold #
	Solid	Stranded		
3/4"	#6, #8	#8	CR-1	M-2017
	#3, #4	#4, #6	CR-1	M-2018
	#1, #2	#2, #3	CR-1	M-2019
	2/1, 1/0	1/0, #1	CR-1	M-2020
		2/0	CR-1	M-2021
	#6, #8	#8	CR-2	M-2031
	#3, #4	#4, #6	CR-2	M-2032
	#1, #2	#2, #3	CR-2	M-2033
	2/1, 1/0	1/0, #1	CR-2	M-2034
	#6, #8	#8	CR-24	M-2108
	#3, #4	#4, #6	CR-24	M-2109
	#1, #2	#2, #3	CR-24	M-2110
	#6, #8	#8	CR-25	M-2068
	#3, #4	#4, #6	CR-25	M-2069
	#1, #2	#2, #3	CR-25	M-2070

RR-1 TYPE MOLDS

Ground Rod to Ground Rod

RR-1 Type Molds are used to join vertical ground rods end to end.

Size range is 1/2" through 1" ground rods.



RR-1

GROUND ROD SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/2"	M-581-H	4	250	B-106	2
5/8"	M-582-H	5	2-150	B-107	2
3/4"	M-583-H	5	2-200	B-107	2
1"	M-584-H	6	3-250	B-107	2

- **For sizes not listed, contact thermOweld®.**
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add suffix "-N" to mold number.
- For heavy duty molds or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-0304-00 ~ File (pg 59)
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)

RS-1 & RS-2 TYPE MOLDS

Horizontal and Vertical Stud to Steel

RS-1 Type Molds are used to join a smooth or threaded stud to a vertical steel surface.

RS-2 Type Molds are used to join a smooth or threaded stud to a horizontal steel surface.

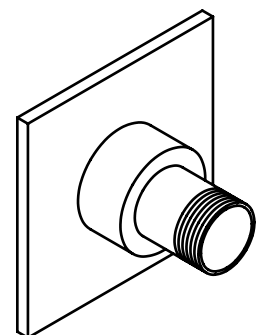
Stud size range is 1/4" through 1".

RS-1

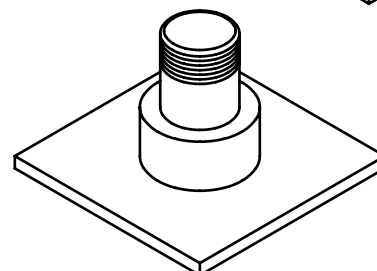
RS-2

STUD SIZE	TYPE RS-1	TYPE RS-2	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/4"	M-1880	M-1886	4	25	B-106	2
5/16"	M-1881	M-1887	4	25	B-106	4
3/8"	M-1882	M-1888	4	45	B-106	2
1/2"	M-1883	M-1889	4	65	B-106	2
3/4"	M-1884	M-1890	4	150	B-106	4
1"	M-1885	M-1891	4	250	B-106	4

- **For sizes not listed, contact thermOweld®.**
- For heavy duty molds or molds with wear plates, contact thermOweld®.
- Molds for copper studs available, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)

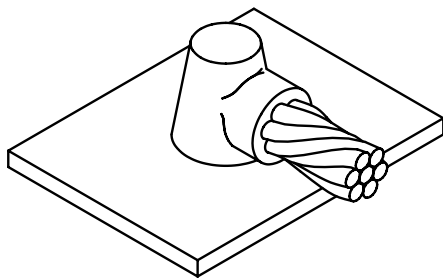


RS-1



RS-2

CS-1



CS-1 TYPE MOLDS

Horizontal Cable to Horizontal Steel Surface

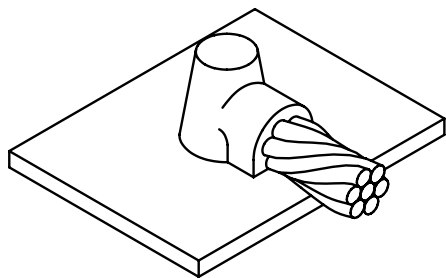
CS-1 Type Molds are used to terminate a horizontal copper cable to any horizontal steel surface. Note that the cable is **OFF** the surface.

Size range is 1/0 through 1000 MCM solid or concentric stranded copper conductors.

CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/0	M-644	4	90	B-106	2
2/0	M-645	4	90	B-106	2
3/0	M-646	4	115	B-106	2
4/0	M-647	4	115	B-106	SDS
250 MCM	M-648	4	115	B-106	2
300 MCM	M-649	4	150	B-106	2
350 MCM	M-650	4	200	B-106	2
500 MCM	M-652	4	200	B-106	2
750 MCM	M-653	5	2-150	B-107	2
1000 MCM	M-654	5	2-200	B-107	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)

CS-8



CS-8 TYPE MOLDS

Horizontal Cable to Horizontal Steel Surface

CS-8 Type Molds are used to terminate a horizontal copper cable to any horizontal steel surface. Note that the cable is **ON** the surface.

Size range is #6 through 1000 MCM solid or concentric stranded copper conductors.

CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#6	M-628	3†	45	Not Req'd	2
#4	M-629	3†	45	Not Req'd	2
#2	M-630	3†	45	Not Req'd	2
#1	M-631	3†	65	Not Req'd	2
1/0	M-7146	4	90	B-106	2
2/0	M-7075	4	90	B-106	2
3/0	M-2199	4	115	B-106	2
4/0	M-6114	4	115	B-106	2
250 MCM	M-2200	4	115	B-106	2
300 MCM	M-2506	4	150	B-106	2
350 MCM	M-2507	4	200	B-106	4
500 MCM	M-2509	4	200	B-106	2
750 MCM	M-2542	5	2-150	B-107	2
1000 MCM	M-2511	5	2-200	B-107	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - † ~ Sold complete with frame
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)
 - 38-4129-00 ~ Packing Material for 1/0 & Larger Molds (pg 59)

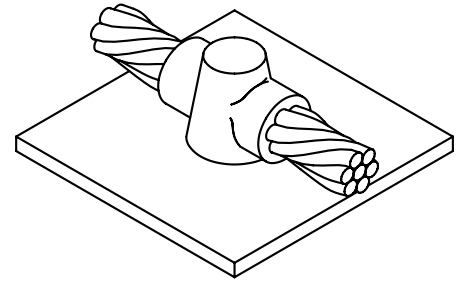
CS-2 TYPE MOLDS

Horizontal Thru Cable to Horizontal Steel Surface

CS-2 Type Molds are used to join horizontal through copper cable to any horizontal steel surface. Note the cable is **OFF** the surface.

Size range is 1/0 through 1000 MCM solid or concentric stranded copper conductors.

CS-2



CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/0	M-616	4	90	B-106	4
2/0	M-617	4	115	B-106	2
3/0	M-618	4	115	B-106	4
4/0	M-619	4	150	B-106	2
250 MCM	M-620	4	150	B-106	2
300 MCM	M-621	4	200	B-106	4
350 MCM	M-622	4	250	B-106	4
500 MCM	M-624	5	2-150	B-107	2
750 MCM	M-625-H	5	3-250	B-107	4
1000 MCM	M-626-H	5	2-500	B-107	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)

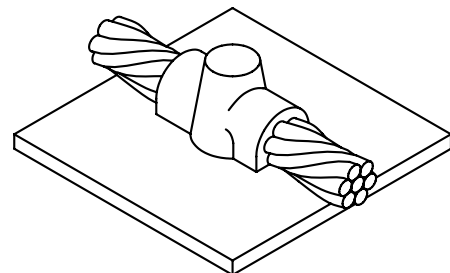
CS-9 TYPE MOLDS

Horizontal Thru Cable to Horizontal Steel Surface

CS-9 Type Molds are used to join horizontal through copper cable to any horizontal steel surface. Note the cable is **ON** the surface.

Size range is #6 through 500 MCM solid or concentric stranded copper conductors.

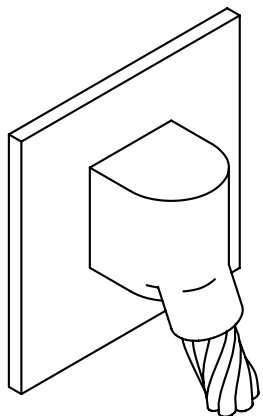
CS-9



CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#6	M-602	3†	45	Not Req'd	2
#4	M-603	3†	45	Not Req'd	2
#2	M-604	3†	45	Not Req'd	2
#1	M-605	3†	65	Not Req'd	4
1/0	M-8379	4	90	B-106	2
2/0	M-5331	4	115	B-106	2
3/0	M-8381	4	115	B-106	4
4/0	M-7192	4	150	B-106	2
250 MCM	M-8413	4	150	B-106	4
300 MCM	M-8423	4	200	B-106	4
350 MCM	M-8410	4	250	B-106	4
500 MCM	M-5065	5	2-150	B-107	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - † ~ Sold complete with frame
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)
 - 38-4129-00 ~ Packing Material for 1/0 & Larger Molds (pg 59)

CS-3



CS-3 TYPE MOLDS

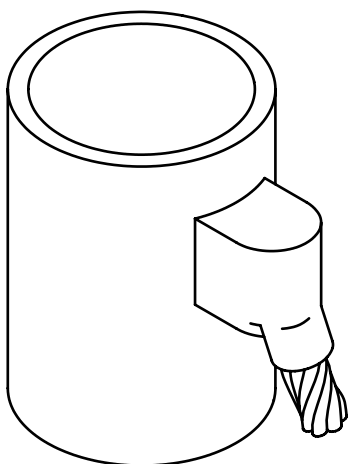
Angular Cable Drop to Vertical Steel Surface

CS-3 Type Molds are used to join the end of a copper cable at a 45° angle to a vertical steel surface.

Size range is #6 through 1000 MCM solid or concentric stranded copper conductors.

CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#6	M-585	4	45	B-106	2
#4	M-586	4	45	B-106	2
#2	M-588	4	45	B-106	SDS
#1	M-589	4	65	B-106	2
1/0	M-590	4	90	B-106	2
2/0	M-591	4	90	B-106	SDS
3/0	M-592	4	115	B-106	2
4/0	M-593	4	115	B-106	SDS
250 MCM	M-594	4	115	B-106	2
300 MCM	M-595	4	150	B-106	2
350 MCM	M-596	4	200	B-106	2
500 MCM	M-598	4	200	B-106	2
750 MCM	M-599	5	2-150	B-107	2
1000 MCM	M-600	5	2-200	B-107	2

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0106-32 ~ Vertical Chain Clamp w/ B-106 Handles (pg 57)
 - 40-0107-32 ~ Vertical Chain Clamp w/ B-107 Handles (pg 57)
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)



CABLE SIZE	PIPE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#4	1 1/4" to 4"	M-2476	4	45	B-106	2
	4" to 6"	M-2477	4	45	B-106	2
	6" to 10"	M-2478	4	45	B-106	2
	12" & up	M-586 ‡	4	45	B-106	2
#2 Sol	1 1/4" to 4"	M-9233-S	4	45	B-106	SDS
	4" to 6"	M-2480-S	4	45	B-106	2
	6" to 10"	M-2583-S	4	45	B-106	2
	12" & up	M-588-S ‡	4	45	B-106	SDS
#2	1 1/4" to 4"	M-9233	4	45	B-106	2
	4" to 6"	M-2480	4	45	B-106	2
	6" to 10"	M-2583	4	45	B-106	2
	12" & up	M-588 ‡	4	45	B-106	SDS
#1	1 1/4" to 4"	M-2482	4	65	B-106	4
	4" to 6"	M-2483	4	65	B-106	4
	6" to 10"	M-2484	4	65	B-106	4
	12" & up	M-589 ‡	4	65	B-106	2
1/0	1 1/4" to 4"	M-2486	4	90	B-106	2
	4" to 6"	M-2487	4	90	B-106	2
	6" to 10"	M-2488	4	90	B-106	2
	12" & up	M-590 ‡	4	90	B-106	2
2/0	1 1/4" to 4"	M-8833	4	90	B-106	2
	4" to 6"	M-2490	4	90	B-106	2
	6" to 10"	M-2491	4	90	B-106	2
	12" & up	M-591 ‡	4	90	B-106	SDS
3/0	1 1/4" to 4"	M-2493	4	115	B-106	2
	4" to 6"	M-2494	4	115	B-106	2
	6" to 10"	M-2495	4	115	B-106	2
	12" & up	M-592 ‡	4	115	B-106	2
4/0	1 1/4" to 4"	M-9021	4	115	B-106	2
	4" to 6"	M-2497	4	115	B-106	2
	6" to 10"	M-2498	4	115	B-106	2
	12" & up	M-593 ‡	4	115	B-106	SDS

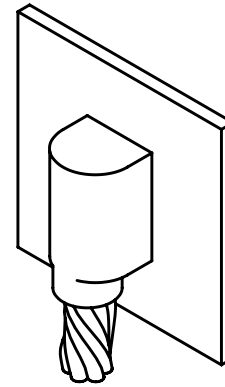
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0106-32 ~ Vertical Chain Clamp w/ B-106 Handles for 4" Pipe & smaller (pg 57)
 - 40-0106-27 ~ 20" Chain Extension for 4" to 10" Pipe (pg 57)
 - Use (2) 20" Chain Extensions for pipe sizes between 10" and 16"
 - 40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles (pg 57)
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)

‡ Flat Surface Mold

CS-23 TYPE MOLDS

Vertical Cable Drop to Vertical Steel Surface

CS-23 Type Molds are used to join vertical cable down to a vertical steel surface. Note that the cable is **OFF** the surface. Size range is #6 through 500 MCM solid or concentric stranded copper conductors.



CS-23

CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#6	M-5389	4	45	B-106	2
#4	M-5359	4	65	B-106	2
#2	M-2781	4	65	B-106	2
#1	M-5361	4	90	B-106	2
1/0	M-2189	4	115	B-106	2
2/0	M-2540	4	115	B-106	SDS
3/0	M-5362	4	150	B-106	2
4/0	M-8718	4	150	B-106	SDS
250 MCM	M-8165	4	200	B-106	2
300 MCM	M-5363	4	200	B-106	2
350 MCM	M-9029	4	250	B-106	2
500 MCM	M-8512	17	2-150	B-106	2

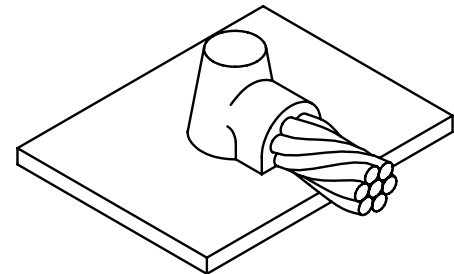
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles (pg 57)
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)

CS-5 TYPE MOLDS

Horizontal Cable Tap to Horizontal Cast Iron Surface

CS-5 Type Molds are used to join horizontal cable taps to horizontal cast iron surfaces. Note that the cable is **ON** the surface.

Size range is #6 through #1 solid or concentric stranded copper conductors.



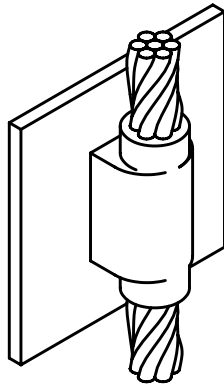
CS-5

CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#6 Sol	M-1613	3†	25Cl	Not Req'd	2
#6	M-1614	3†	25Cl	Not Req'd	2
#4 Sol	M-1615	3†	45Cl	Not Req'd	4
#4	M-1616	3†	45Cl	Not Req'd	2
#2 Sol	M-1617	3†	45Cl	Not Req'd	2
#2	M-1618	3†	45Cl	Not Req'd	2
#1 Sol	M-1619	3†	65Cl	Not Req'd	4
#1	M-1620	3†	65Cl	Not Req'd	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - † ~ Sold complete with frame
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)
 - 38-4129-00 ~ Packing Material for 1/0 & Larger Molds (pg 59)

DO NOT use Type CS-5 molds on Soil Pipe (ASTM A74-82). A test weld should be made on a section of the pipe being used to determine the possibility of detrimental metallurgical effects.

CS-4



CS-4 TYPE MOLDS

Vertical Thru Cable to Vertical Steel Surface

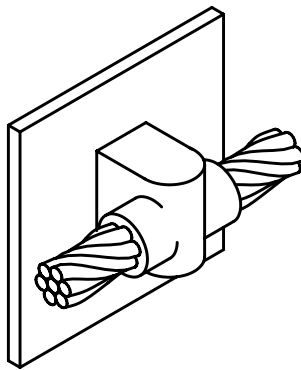
CS-4 Type Molds are used to join a vertical through copper cable to a vertical steel surface. Note that the cable is **OFF** the surface. For molds with the cable on the surface, contact thermOweld®.

Size range is #6 through 500 MCM solid or concentric stranded copper conductors.

CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#6	M-1215	4	90	B-106	2
#4	M-1216	4	90	B-106	2
#2	M-1218	4	115	B-106	2
#1	M-1219	4	115	B-106	4
1/0	M-1220	17	200	B-106	2
2/0	M-1221	17	200	B-106	2
3/0	M-1222	17	250	B-106	2
4/0	M-1223	17	250	B-106	2
250 MCM	M-1224	17	250	B-106	2
300 MCM	M-1225-H	6	500	B-107	4
350 MCM	M-1226-H	6	3-200	B-107	4
500 MCM	M-1228-H	6	3-250	B-107	2

- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles (pg 57)
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)

CS-6



CS-6 TYPE MOLDS

Horizontal Thru Cable to Vertical Steel Surface

CS-6 Type Molds are used to join horizontal through copper cable to a vertical steel surface. Note that the cable is **OFF** the surface.

Size range is #6 through 250 MCM solid or concentric stranded copper conductors.

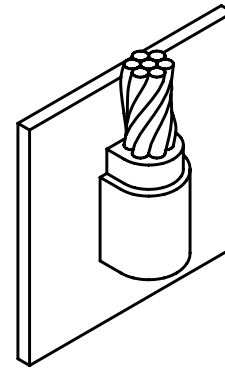
CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#6	M-1626	4	65	B-106	2
#4	M-1627	4	65	B-106	2
#2	M-1628	4	65	B-106	2
#1	M-1629	4	90	B-106	4
1/0	M-1630	4	115	B-106	2
2/0	M-1631	4	115	B-106	2
3/0	M-1632	4	150	B-106	2
4/0	M-1633	4	150	B-106	2
250 MCM	M-1634	4	150	B-106	2

- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (pg 58)
 - 40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500 (pg 58)
 - 38-3922-00 ~ Mold Cleaning Brush (pg 57)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 57)
 - 38-0101-00 ~ Rasp (pg 59)

CS-7 TYPE MOLDS

Overhead Vertical Tap Cable to Vertical Steel Surface

CS-7 Type Molds are used to join an overhead vertical copper conductor drop tap to a vertical steel surface. Size range is #6 through 1000 MCM solid or concentric stranded copper conductors.



CS-7

CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#6	M-1635	4	65	B-106	2
#4	M-1636	4	65	B-106	2
#2	M-1638	4	65	B-106	2
#1	M-1639	4	90	B-106	2
1/0	M-1640	4	150	B-106	2
2/0	M-1641	4	150	B-106	2
3/0	M-1642	17	200	B-106	2
4/0	M-1643	17	200	B-106	2
250 MCM	M-1644	17	200	B-106	2
300 MCM	M-1645	17	250	B-106	2
350 MCM	M-1646	6	2-150	B-107	4
500 MCM	M-1648	6	2-200	B-107	2
750 MCM	M-1649	6	500	B-107	2
1000 MCM	M-1650	6	3-200	B-107	4

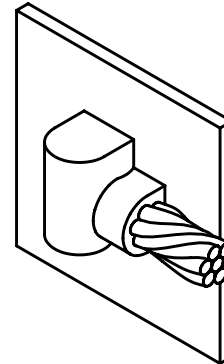
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles (pg 57)
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)

CS-18 TYPE MOLDS

Horizontal Tap Cable to Vertical Steel Surface

CS-18 Type Molds are used to connect a horizontal conductor to a vertical steel surface. Note that the cable is **ON** the surface.

Size range is #6 through 500 MCM solid or concentric stranded copper conductors.



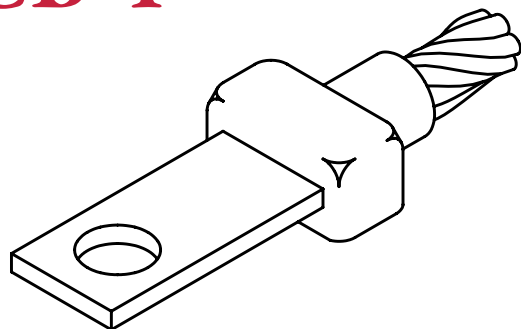
CS-18

CABLE SIZE	MOLD # See Note Below	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#6	M-5910	4	45	B-106	2
#4	M-2761	4	45	B-106	2
#2	M-2569	4	45	B-106	2
#1	M-6060	4	65	B-106	4
1/0	M-5419	4	90	B-106	2
2/0	M-2567	4	90	B-106	2
3/0	M-6072	4	115	B-106	2
4/0	M-9253	4	115	B-106	2
250 MCM	M-2568	4	115	B-106	2
300 MCM	M-6061	4	150	B-106	4
350 MCM	M-6067	4	200	B-106	4
500 MCM	M-8359	4	200	B-106	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)
 - 38-4129-00 ~ Packing Material for 1/0 & Larger Molds (pg 59)

NOTE: Add (-R) to mold number for right hand mold or (-L) for left hand mold. Right hand (-R) mold will be furnished if not specified.

CB-1



CB-1 TYPE MOLDS

Horizontal Cable Tap to Horizontal Lug or Bus

CB-1 Type Molds are used to connect a copper conductor to a copper lug or bus bar.

Size range is #8 through 1000 MCM solid or concentric stranded copper conductors. See page 49 for lug part numbers.

CABLE SIZE	LUG SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#8	1/16 X 1/2	M-966	4	15	B-106	4
	1/8 X 1	M-967	4	45	B-106	2
#6	1/16 X 1/2	M-968	4	15	B-106	4
	1/8 X 1	M-969	4	45	B-106	2
#4	1/8 X 9/16	M-970	4	25	B-106	2
	1/8 X 1	M-971	4	45	B-106	2
#2	1/8 X 5/8	M-974	4	32	B-106	2
	1/8 X 1	M-975	4	45	B-106	2
#1	1/8 X 5/8	M-976	4	32	B-106	4
	1/8 X 1	M-977	4	45	B-106	2
1/0	1/8 X 1	M-978	4	45	B-106	2
	1/4 X 1	M-979	4	65	B-106	2
2/0	1/8 X 1	M-980	4	65	B-106	2
	1/4 X 1	M-981	4	65	B-106	2
3/0	3/16 X 1	M-982	4	90	B-106	2
	1/4 X 1	M-983	4	90	B-106	2
4/0	3/16 X 1	M-984	4	90	B-106	2
	1/4 X 1	M-985	4	90	B-106	2
	1/4 X 1-1/4	M-986	4	90	B-106	2
	1/4 X 1-1/2	M-987	4	90	B-106	2
	1/4 X 3	M-1915	4	90	B-106	2

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.

CABLE SIZE	LUG SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
250 MCM	1/4 X 1	M-988	4	90	B-106	2
	1/4 X 1-1/4	M-989	4	90	B-106	4
	1/4 X 1-1/2	M-990	4	90	B-106	2
	1/4 X 3	M-1916	4	90	B-106	2
300 MCM	1/4 X 1	M-991	4	90	B-106	2
	1/4 X 1-1/4	M-992	4	90	B-106	4
	1/4 X 1-1/2	M-993	4	90	B-106	4
	1/4 X 3	M-1917	4	90	B-106	4
350 MCM	1/4 X 1	M-994	4	115	B-106	2
	1/4 X 1-1/4	M-995	4	115	B-106	4
	1/4 X 3	M-1918	4	115	B-106	4
500 MCM	1/4 X 1-1/2	M-1001	4	200	B-106	2
	1/4 X 2	M-1002	4	200	B-106	2
	1/4 X 3	M-1920	4	200	B-106	4
	3/8 X 1	M-1003	4	200	B-106	4
	3/8 X 1-1/2	M-1004	4	200	B-106	2
	3/8 X 2	M-1005	5	2-150	B-107	4
750 MCM	1/4 X 2	M-1006	5	2-150	B-107	4
	3/8 X 1-1/2	M-1007	5	2-150	B-107	4
	3/8 X 2	M-1008	5	2-150	B-107	4
	3/8 X 3	M-1921	5	2-150	B-107	4
1000 MCM	3/8 X 2	M-1009	5	2-200	B-107	4
	3/8 X 3	M-1922	5	2-200	B-107	4
	7/16 X 2	M-1010	5	2-200	B-107	4
	1/2 X 2	M-1011	5	500	B-107	2

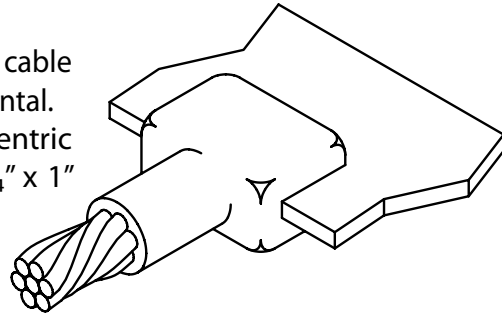
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold Cleaning Brush (pg 58)
38-0135-00 ~ Cable Cleaning Brush (pg 58)

CB-4 TYPE MOLDS

Horizontal Cable Tap to Horizontal Bus

CB-4

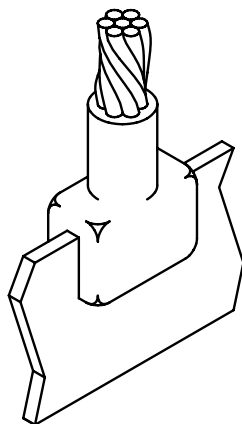
CB-4 Type Molds are used to connect horizontal copper cable tap to a horizontal copper bus bar with the flat side horizontal. Size range is 1/0 through 1000 MCM solid or concentric stranded copper conductors. Bus size range is from 1/4" x 1" through 1/2" x 1 1/2" & wider.



BUS BAR SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/4 X 1-1/2 & WIDER	#2	M-5415	4	65	B-106	2
	1/0	M-1651	4	90	B-106	2
	2/0	M-1652	4	90	B-106	2
	3/0	M-1653	4	90	B-106	2
	4/0	M-1654	4	90	B-106	2
	250 MCM	M-1655	4	115	B-106	2
	300 MCM	M-1656	4	115	B-106	2
	350 MCM	M-1657	4	150	B-106	2
3/8 X 1-1/2 & WIDER	500 MCM	M-1659	4	200	B-106	2
	1/0	M-1660	4	90	B-106	2
	2/0	M-1661	4	90	B-106	2
	3/0	M-1662	4	115	B-106	4
	4/0	M-1663	4	115	B-106	2
	250 MCM	M-1664	4	150	B-106	4
	300 MCM	M-1665	4	150	B-106	4
	350 MCM	M-1666	4	200	B-106	4
1/2 X 1-1/2 & WIDER	500 MCM	M-1668	4	250	B-106	4
	750 MCM	M-1669	5	2-150	B-107	2
	1000 MCM	M-1670	5	2-200	B-107	4
	1/0	M-1671	4	115	B-106	2
	2/0	M-1672	4	115	B-106	2
	3/0	M-1673	4	150	B-106	2
	4/0	M-1674	4	150	B-106	2
	250 MCM	M-1675	4	200	B-106	4
	300 MCM	M-1676	4	200	B-106	4
	350 MCM	M-1677	4	250	B-106	2
	500 MCM	M-1679	5	2-150	B-107	2
	750 MCM	M-1680	5	2-200	B-107	4
	1000 MCM	M-1681	5	500	B-107	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (pg 58)
 - 40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500 (pg 58)
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)

CB-2



CB-2 TYPE MOLDS

Vertical Overhead Tap to Horizontal Bus

CB-2 Type Molds are used to connect an overhead vertical cable tap to horizontal copper bus bar with the flat side vertical. Size range is 1/0 through 1000 MCM solid or concentric stranded copper conductors. Bus size range is from 1/8" x 1" through 1/2" x 1 1/2" & wider.

BUS BAR SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/8 X 1	1/0	M-830	4	115	B-106	4
	2/0	M-831	4	115	B-106	4
	4/0	M-832	4	115	B-106	2
1/8 X 1-1/2 & WIDER	#2	M-7365	17	65	B-106	2
	1/0	M-833	4	115	B-106	2
	2/0	M-834	4	115	B-106	4
	4/0	M-835	4	115	B-106	2
	250 MCM	M-836	4	115	B-106	4
	300 MCM	M-837	4	150	B-106	4
	350 MCM	M-838	4	150	B-106	1
1/4 X 1	#2	M-7167	17	90	B-106	4
	1/0	M-839	4	150	B-106	2
	2/0	M-840	4	150	B-106	2
	4/0	M-841	4	150	B-106	2
	250 MCM	M-842	4	150	B-106	2
	300 MCM	M-843	4	200	B-106	4
	350 MCM	M-844	4	200	B-106	4
1/4 X 1-1/2 & WIDER	500 MCM	M-846	4	2-150	B-106	4
	#2	M-6366	17	90	B-106	2
	1/0	M-847	4	150	B-106	2
	2/0	M-848	4	150	B-106	2
	4/0	M-849	4	150	B-106	2
	250 MCM	M-850	4	150	B-106	2
	300 MCM	M-851	4	200	B-106	4
3/8 X 1	350 MCM	M-852	4	200	B-106	4
	500 MCM	M-854	4	2-150	B-106	2
	750 MCM	M-855	5	2-200	B-107	2
	1/0	M-857	4	150	B-106	2
	2/0	M-858	4	150	B-106	2
	4/0	M-859	4	150	B-106	4
	250 MCM	M-860	4	150	B-106	4
	300 MCM	M-861	4	200	B-106	4
	350 MCM	M-862	4	200	B-106	4
	500 MCM	M-864	4	250	B-106	4
	750 MCM	M-865	5	2-200	B-107	4

BUS BAR SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
3/8 X 1-1/2 & WIDER	1/0	M-867	4	150	B-106	4
	2/0	M-868	4	150	B-106	2
	4/0	M-869	4	150	B-106	2
	250 MCM	M-870	4	150	B-106	4
	300 MCM	M-871	4	200	B-106	4
	350 MCM	M-872	4	200	B-106	4
	500 MCM	M-874	4	250	B-106	4
1/2 X 1	750 MCM	M-875	5	2-200	B-107	4
	1/0	M-877	4	200	B-106	4
	2/0	M-878	4	200	B-106	4
	4/0	M-879	4	200	B-106	4
	250 MCM	M-880	4	200	B-106	4
	300 MCM	M-881	4	250	B-106	4
	350 MCM	M-882	4	250	B-106	4
1/2 X 1-1/2 & WIDER	500 MCM	M-884	5	2-150	B-107	4
	750 MCM	M-885	5	500	B-107	4
	1/0	M-887	4	200	B-106	2
	2/0	M-888	4	200	B-106	2
	4/0	M-889	4	200	B-106	2
	250 MCM	M-890	4	200	B-106	4
	300 MCM	M-891	4	250	B-106	4
	350 MCM	M-892	4	250	B-106	4
	500 MCM	M-894	5	2-150	B-107	2
	750 MCM	M-895	5	500	B-107	4

- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold Cleaning Brush (pg 58)
38-0135-00 ~ Cable Cleaning Brush (pg 58)

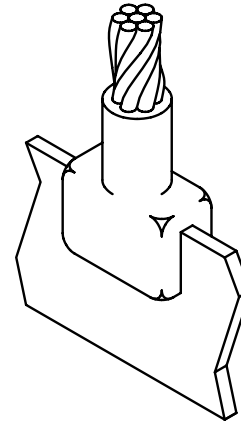
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.

CB-6 TYPE MOLDS

Vertical Overhead Tap to Horizontal Bus

CB-6 Type Molds are used to connect an overhead vertical cable tap to horizontal copper bus bar with the flat side vertical where there are **space restrictions** such as another surface $\frac{3}{4}$ " to 5" from the bus bar.

Size range is 1/0 through 1000 MCM solid or concentric stranded copper conductors. Bus size range is from $\frac{1}{8}$ " x 1" through $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " & wider.



CB-6

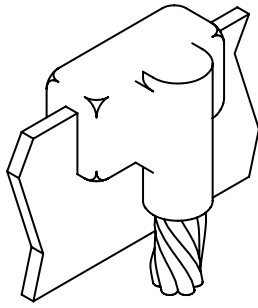
BUS BAR SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/8 X 1	1/0	M-898	7†	115	B-106	4
	2/0	M-899	7†	115	B-106	4
	4/0	M-900	7†	115	B-106	4
1/8 X 1-1/2 & WIDER	#2	M-5198	7†	65	B-106	4
	1/0	M-901	7†	115	B-106	4
	2/0	M-902	7†	115	B-106	4
	4/0	M-903	7†	115	B-106	4
	250 MCM	M-904	7†	115	B-106	4
	300 MCM	M-905	7†	150	B-106	4
	350 MCM	M-906	7†	150	B-106	4
1/4" X 1	1/0	M-907	7†	150	B-106	4
	2/0	M-908	7†	150	B-106	4
	4/0	M-909	7†	150	B-106	4
	250 MCM	M-910	7†	150	B-106	4
	300 MCM	M-911	7†	200	B-106	4
	350 MCM	M-912	7†	200	B-106	4
	500 MCM	M-914	7†	2-150	B-106	4
1/4 X 1-1/2 & WIDER	#2	M-6967	7†	90	B-106	2
	1/0	M-915	7†	150	B-106	4
	2/0	M-916	7†	150	B-106	4
	4/0	M-917	7†	150	B-106	2
	250 MCM	M-918	7†	150	B-106	2
	300 MCM	M-919	7†	200	B-106	4
	350 MCM	M-920	7†	200	B-106	4
	500 MCM	M-922	7†	2-150	B-106	4
	750 MCM	M-923	8†	2-200	B-107	4
3/8 X 1	1/0	M-925	7†	150	B-106	4
	2/0	M-926	7†	150	B-106	4
	4/0	M-927	7†	150	B-106	4
	250 MCM	M-928	7†	150	B-106	4
	300 MCM	M-929	7†	200	B-106	4
	350 MCM	M-930	7†	200	B-106	4
	500 MCM	M-932	7†	250	B-106	4
	750 MCM	M-933	8†	2-200	B-107	4

BUS BAR SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
3/8 X 1-1/2 & WIDER	1/0	M-935	7†	150	B-106	4
	2/0	M-936	7†	150	B-106	4
	4/0	M-937	7†	150	B-106	4
	250 MCM	M-938	7†	150	B-106	4
	300 MCM	M-939	7†	200	B-106	4
	350 MCM	M-940	7†	200	B-106	4
	500 MCM	M-942	7†	250	B-106	4
1/2 X 1	750 MCM	M-943	8†	2-200	B-107	4
	1/0	M-945	7†	200	B-106	4
	2/0	M-946	7†	200	B-106	4
	4/0	M-947	7†	200	B-106	4
	250 MCM	M-948	7†	200	B-106	4
	300 MCM	M-949	7†	250	B-106	4
	350 MCM	M-950	7†	250	B-106	4
1/2 X 1-1/2 & WIDER	500 MCM	M-952	8†	2-150	B-107	4
	750 MCM	M-953	8†	500	B-107	4
	1/0	M-955	7†	200	B-106	4
	2/0	M-956	7†	200	B-106	4
	4/0	M-957	7†	200	B-106	4
	250 MCM	M-958	7†	200	B-106	4
	300 MCM	M-959	7†	250	B-106	4
	350 MCM	M-960	7†	250	B-106	4
	500 MCM	M-962	8†	2-150	B-107	4
	750 MCM	M-963	8†	500	B-107	4

- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
† ~ Sold complete with frame
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold Cleaning Brush (pg 58)
38-0135-00 ~ Cable Cleaning Brush (pg 58)

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.

CB-3



CB-3 TYPE MOLDS

Vertical Drop Tap to Horizontal Bus

CB-3 Type Molds are used to connect a vertical cable tap to a horizontal copper bus bar on its edge.

Size range is 1/0 through 1000 MCM solid or concentric stranded copper conductors. Bus size range is from 1/8" x 1" through 1/2" x 3" & wider.

BUS BAR SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/8 X 1	1/0	M-656	4	90	B-106	4
	2/0	M-657	4	90	B-106	4
	4/0	M-658	4	115	B-106	4
1/8 X 2	1/0	M-659	4	90	B-106	4
	2/0	M-660	4	90	B-106	4
	4/0	M-661	4	115	B-106	2
	250 MCM	M-662	4	115	B-106	4
	300 MCM	M-663	4	150	B-106	4
	350 MCM	M-664	4	150	B-106	4
1/4 X 1	#2	M-6694	4	90	B-106	4
	1/0	M-665	4	115	B-106	2
	2/0	M-666	4	115	B-106	4
	4/0	M-667	4	150	B-106	2
	250 MCM	M-668	4	150	B-106	4
	300 MCM	M-669	4	200	B-106	4
	350 MCM	M-670	4	200	B-106	4
1/4 X 1-1/2	500 MCM	M-672	4	250	B-106	2
	#2	M-6658	4	90	B-106	2
	1/0	M-673	4	115	B-106	4
	2/0	M-674	4	115	B-106	2
	4/0	M-675	4	150	B-106	2
	250 MCM	M-676	4	150	B-106	4
	300 MCM	M-677	4	200	B-106	4
	350 MCM	M-678	4	200	B-106	4
1/4 X 2	500 MCM	M-680	4	250	B-106	4
	750 MCM	M-681	5	2-200	B-107	2
	#2	M-5567	4	90	B-106	4
	1/0	M-682	4	115	B-106	2
	2/0	M-683	4	115	B-106	2
	4/0	M-684	4	150	B-106	2
	250 MCM	M-685	4	150	B-106	4
	300 MCM	M-686	4	200	B-106	4
	350 MCM	M-687	4	200	B-106	4
1/4 X 3 & WIDER	500 MCM	M-689	4	250	B-106	4
	750 MCM	M-690	5	2-200	B-107	4
	1000 MCM	M-691	5	500	B-107	4
	#2	M-5944	4	90	B-106	2
	1/0	M-692	4	115	B-106	4
	2/0	M-693	4	115	B-106	2
	4/0	M-694	4	150	B-106	2
	250 MCM	M-695	4	150	B-106	2
	300 MCM	M-696	4	200	B-106	4
	350 MCM	M-697	4	200	B-106	2
	500 MCM	M-699	4	250	B-106	2
	750 MCM	M-700	5	2-200	B-107	2
	1000 MCM	M-701	5	500	B-107	4

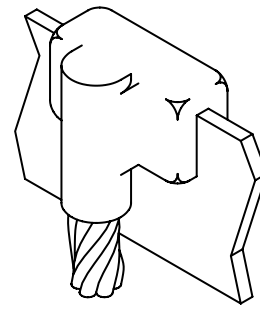
BUS BAR SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
3/8 X 2	1/0	M-702	4	115	B-106	4
	2/0	M-703	4	115	B-106	4
	4/0	M-704	4	150	B-106	4
	250 MCM	M-705	4	150	B-106	4
	300 MCM	M-706	4	200	B-106	4
	350 MCM	M-707	4	200	B-106	4
	500 MCM	M-709	4	250	B-106	4
	750 MCM	M-710	5	2-200	B-107	4
3/8 X 2 & WIDER	1000 MCM	M-711	5	500	B-107	4
	1/0	M-712	4	115	B-106	4
	2/0	M-713	4	115	B-106	4
	4/0	M-714	4	150	B-106	4
	250 MCM	M-715	4	150	B-106	4
	300 MCM	M-716	4	200	B-106	4
	350 MCM	M-717	4	200	B-106	4
	500 MCM	M-719	4	250	B-106	4
1/2 X 2	750 MCM	M-720	5	2-200	B-107	4
	1000 MCM	M-721	5	500	B-107	4
	1/0	M-722	4	150	B-106	4
	2/0	M-723	4	150	B-106	4
	4/0	M-724	4	200	B-106	4
	250 MCM	M-725	4	200	B-106	4
	300 MCM	M-726	4	250	B-106	4
	350 MCM	M-727	4	250	B-106	4
1/2 X 3 & WIDER	500 MCM	M-729	4	2-150	B-106	4
	750 MCM	M-730	5	500	B-107	4
	1000 MCM	M-731	5	3-200	B-107	4
	1/0	M-732	4	150	B-106	4
	2/0	M-733	4	150	B-106	4
	4/0	M-734	4	200	B-106	2
	250 MCM	M-735	4	200	B-106	4
	300 MCM	M-736	4	250	B-106	4
	350 MCM	M-737	4	250	B-106	4
	500 MCM	M-739	5	2-150	B-107	2
	750 MCM	M-740	5	500	B-107	4
	1000 MCM	M-741	5	3-200	B-107	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles) 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)

CB-7 TYPE MOLDS

Vertical Drop Tap to Horizontal Bus

CB-7 Type Molds are used to connect a vertical cable tap to a horizontal copper bus bar on its edge and where there are **space restrictions** such as another surface $\frac{3}{4}$ " to 5" from the bus bar. Size range is 1/0 through 1000 MCM solid or concentric stranded copper conductors. Bus size range is from $\frac{1}{8}$ " x 1" through $\frac{1}{2}$ " x 3" & wider.



CB-7

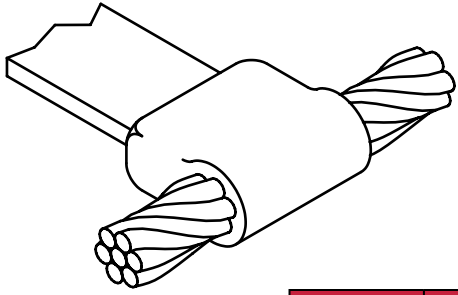
BUS BAR SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/8 X 1	1/0	M-743	7†	90	B-106	4
	2/0	M-744	7†	90	B-106	4
	4/0	M-745	7†	115	B-106	4
1/8 X 2	1/0	M-746	7†	90	B-106	4
	2/0	M-747	7†	90	B-106	4
	4/0	M-748	7†	115	B-106	4
	250 MCM	M-749	7†	115	B-106	4
	300 MCM	M-750	7†	150	B-106	4
	350 MCM	M-751	7†	150	B-106	4
1/4 X 1	#2 STR	M-8550	7†	90	B-106	4
	1/0	M-752	7†	115	B-106	4
	2/0	M-753	7†	115	B-106	4
	4/0	M-754	7†	150	B-106	4
	250 MCM	M-755	7†	150	B-106	4
	300 MCM	M-756	7†	200	B-106	4
	350 MCM	M-757	7†	200	B-106	4
1/4 X 1-1/2	500 MCM	M-759	7†	250	B-106	4
	#2	M-8551	7†	90	B-106	4
	1/0	M-760	7†	115	B-106	4
	2/0	M-761	7†	115	B-106	4
	4/0	M-762	7†	150	B-106	4
	250 MCM	M-763	7†	150	B-106	4
	300 MCM	M-764	7†	200	B-106	4
	350 MCM	M-765	7†	200	B-106	4
1/4 X 2	500 MCM	M-767	7†	250	B-106	4
	750 MCM	M-768	8†	2-200	B-107	4
	#2	M-5469	7†	90	B-106	2
	1/0	M-769	7†	115	B-106	4
	2/0	M-770	7†	115	B-106	4
	4/0	M-771	7†	150	B-106	2
	250 MCM	M-772	7†	150	B-106	2
	300 MCM	M-773	7†	200	B-106	4
	350 MCM	M-774	7†	200	B-106	4
	500 MCM	M-776	7†	250	B-106	4
1/4 X 3 & WIDER	750 MCM	M-777	8†	2-200	B-107	4
	1000 MCM	M-778	8†	500	B-107	4
	#2	M-8396	7†	90	B-106	2
	1/0	M-779	7†	115	B-106	2
	2/0	M-780	7†	115	B-106	4
	4/0	M-781	7†	150	B-106	2
	250 MCM	M-782	7†	150	B-106	4
	300 MCM	M-783	7†	200	B-106	4
	350 MCM	M-784	7†	200	B-106	4
	500 MCM	M-786	7†	250	B-106	2
	750 MCM	M-787	8†	2-200	B-107	4
	1000 MCM	M-788	8†	500	B-107	2

BUS BAR SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
3/8 X 2	1/0	M-789	7†	115	B-106	4
	2/0	M-790	7†	115	B-106	4
	4/0	M-791	7†	150	B-106	4
	250 MCM	M-792	7†	150	B-106	4
	300 MCM	M-793	7†	200	B-106	4
	350 MCM	M-794	7†	200	B-106	4
	500 MCM	M-796	7†	250	B-106	4
	750 MCM	M-797	8†	2-200	B-107	4
	1000 MCM	M-798	8†	500	B-107	4
3/8 X 2 & WIDER	1/0	M-799	7†	115	B-106	4
	2/0	M-800	7†	115	B-106	4
	4/0	M-801	7†	150	B-106	4
	250 MCM	M-802	7†	150	B-106	4
	300 MCM	M-803	7†	200	B-106	4
	350 MCM	M-804	7†	200	B-106	4
	500 MCM	M-806	7†	250	B-106	4
	750 MCM	M-807	8†	2-200	B-107	4
	1000 MCM	M-808	8†	500	B-107	4
1/2 X 2	1/0	M-809	7†	150	B-106	4
	2/0	M-810	7†	150	B-106	4
	4/0	M-811	7†	200	B-106	4
	250 MCM	M-812	7†	200	B-106	4
	300 MCM	M-813	7†	250	B-106	4
	350 MCM	M-814	7†	250	B-106	4
	500 MCM	M-816	7†	2-150	B-106	4
	750 MCM	M-817	8†	500	B-107	4
	1000 MCM	M-818	8†	3-200	B-107	4
1/2 X 3 & WIDER	1/0	M-819	7†	150	B-106	4
	2/0	M-820	7†	150	B-106	4
	4/0	M-821	7†	200	B-106	4
	250 MCM	M-822	7†	200	B-106	4
	300 MCM	M-823	7†	250	B-106	4
	350 MCM	M-824	7†	250	B-106	4
	500 MCM	M-826	8†	2-150	B-107	4
	750 MCM	M-827	8†	500	B-107	4
	1000 MCM	M-828	8†	3-200	B-107	4

- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
† ~ Sold complete with frame
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold Cleaning Brush (pg 58)
38-0135-00 ~ Cable Cleaning Brush (pg 58)

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable.
Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.

CB-5



CB-5 TYPE MOLDS

Horizontal Bus Tap to Horizontal Cable Run

CB-5 Type Molds are used to connect horizontal copper bus bar, flat side horizontal, to a horizontal through run cable. Size range is 1/0 through 1000 MCM solid or concentric stranded copper conductors. Bus size range is from 1/8" x 1" through 3/8" x 2" & wider.

CABLE SIZE	LUG SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/0	1/8 X 1	M-1682	4	65	B-106	4
	1/4 X 1	M-1683	4	90	B-106	4
2/0	1/8 X 1	M-1684	4	90	B-106	2
	1/4 X 1	M-1685	4	115	B-106	4
4/0	3/16 X 1	M-1690	4	150	B-106	2
	1/4 X 1	M-1691	4	150	B-106	4
	1/4 X 1-1/2	M-1692	4	200	B-106	4
	1/4 X 2	M-1693	4	250	B-106	2
250 MCM	1/4 X 1	M-1694	4	150	B-106	4
	1/4 X 1-1/2	M-1695	4	200	B-106	4
	1/4 X 2	M-1696	4	250	B-106	4
300 MCM	1/4 X 1	M-1697	4	200	B-106	2
	1/4 X 1-1/2	M-1698	4	250	B-106	4
	1/4 X 2	M-1699	5	2-150	B-107	4
350 MCM	1/4 X 1	M-1700	5	200	B-107	4
	1/4 X 1-1/4	M-1701	5	200	B-107	4
	1/4 X 1-1/2	M-1702	5	250	B-107	4
	1/4 X 2	M-1703	5	2-150	B-107	4
500 MCM	1/4 X 1	M-1707	5	250	B-107	2
	1/4 X 1-1/2	M-1708	5	2-150	B-107	4
	1/4 X 2	M-1709	5	2-200	B-107	4
750 MCM	1/4 X 1-1/2	M-1710	5	2-200	B-107	4
	1/4 X 2	M-1711	5	500	B-107	4
	3/8 X 1-1/2	M-1712	5	500	B-107	4
	3/8 X 2	M-1713	5	3-200	B-107	4
1000 MCM	1/4 X 1-1/2	M-1714	5	500	B-107	4
	1/4 X 2	M-1715	5	3-200	B-107	4
	3/8 X 1-1/2	M-1716	5	3-200	B-107	4
	3/8 X 2	M-1717	5	3-250	B-107	4

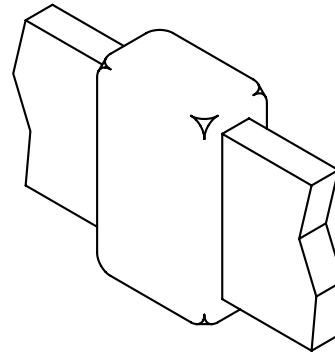
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (pg 58)
 - 40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500 (pg 58)
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)

BB-1 TYPE MOLDS

Horizontal Bus End to End

BB-1 Type Molds are used to connect horizontal copper bus bars end to end. Flat sides are vertical.

Size range is $\frac{1}{8}$ " x 1" through $\frac{1}{2}$ " x 4" copper bus bar.

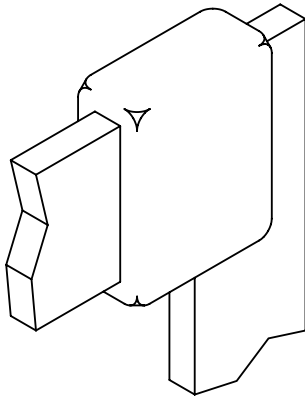


BB-1

BUS BAR SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/8 X 1	M-1118	4	45	B-106	2
1/8 X 2	M-1119	4	90	B-106	4
3/16 X 1	M-1120	4	65	B-106	2
3/16 X 2	M-1121	4	115	B-106	4
1/4 X 1	M-1122	4	90	B-106	4
1/4 X 1-1/4	M-1123	4	115	B-106	4
1/4 X 1-1/2	M-1124	4	150	B-106	2
1/4 X 2	M-1125	4	200	B-106	2
1/4 X 3	M-1126	5	2-200	B-107	2
1/4 X 4	M-1127	5	500	B-107	4
3/8 X 1	M-1130	4	150	B-106	4
3/8 X 1-1/2	M-1131	4	250	B-106	4
3/8 X 2	M-1132	5	2-150	B-107	4
3/8 X 3	M-1133	5	500	B-107	4
3/8 X 4	M-1134	5	3-200	B-107	2
1/2 X 1	M-1135	4	200	B-106	4
1/2 X 2	M-1136	5	2-200	B-107	4
1/2 X 3	M-1137	5	3-200	B-107	4
1/2 X 4	M-1138	6	2-500	B-107	4

- For sizes not listed, contact thermOweld®.
- For heavy duty molds, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0305-00 ~ Card Cloth Brush (pg 58)

BB-2



BB-2 TYPE MOLDS

Horizontal to Vertical at Right Angle

BB-2 Type Molds are used to join horizontal copper bus bar at right angles to the top of a vertical bus bar. Flat sides of both are vertical and parallel.

Size range is $\frac{1}{8}$ " x 1" through $\frac{1}{2}$ " x 4" copper bus bar.

BUS BAR SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/8 X 1	M-1230	4	45	B-106	4
1/8 X 2	M-1231	4	90	B-106	4
3/16 X 1	M-1232	4	65	B-106	2
3/16 X 2	M-1233	4	115	B-106	4
1/4 X 1	M-1234	4	90	B-106	4
1/4 X 1-1/4	M-1235	4	115	B-106	4
1/4 X 1-1/2	M-1236	4	150	B-106	4
1/4 X 2	M-1237	4	200	B-106	2
1/4 X 3	M-1238	5	2-200	B-107	4
1/4 X 4	M-1239	5	500	B-107	4
3/8 X 1	M-1242	4	150	B-106	4
3/8 X 1-1/2	M-1243	4	250	B-106	4
3/8 X 2	M-1244	5	2-150	B-107	4
3/8 X 3	M-1245	5	500	B-107	4
3/8 X 4	M-1246	5	3-200	B-107	4
1/2 X 1	M-1247	4	200	B-106	4
1/2 X 2	M-1248	5	2-200	B-107	4
1/2 X 3	M-1249	5	3-200	B-107	4
1/2 X 4	M-1250	6	2-500	B-107	4

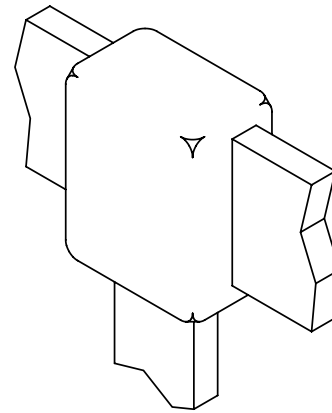
- For sizes not listed, contact thermOweld®.
- For heavy duty molds, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0306-00 ~ Card Cloth Brush (pg 58)

BB-3 TYPE MOLDS

Vertical Drop Tap to Horizontal Run

BB-3 Type Molds are used to connect a vertical drop copper bus bar to a horizontal copper bus bar. Flat sides are vertical and parallel.

Size range is $\frac{1}{8}$ " x 1" through $\frac{1}{2}$ " x 2" & wider copper bus bar.

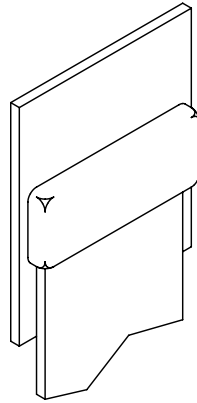


BB-3

BUS BAR SIZE		MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
RUN	TAP					
1/8 X 1	1/8 X 1	M-1098	4	90	B-106	4
1/8 X 2 & WIDER	1/8 X 2	M-1099	4	200	B-106	4
3/16 X 1	3/16 X 1	M-1100	4	115	B-106	2
3/16 X 2 & WIDER	3/16 X 2	M-1101	4	200	B-106	2
1/4 X 1	1/4 X 1	M-1102	4	150	B-106	4
1/4 X 1-1/4	1/4 X 1-1/4	M-1103	4	200	B-106	4
1/4 X 1-1/2	1/4 X 1-1/2	M-1104	4	250	B-106	4
1/4 X 2 & WIDER	1/4 X 2	M-1105	5	2-200	B-107	2
3/8 X 1	3/8 X 1	M-1108	4	250	B-106	4
3/8 X 1-1/2	3/8 X 1-1/2	M-1109	5	2-200	B-107	4
3/8 X 2 & WIDER	3/8 X 2	M-1110	5	500	B-107	4
1/2 X 1	1/2 X 1	M-1113	5	2-150	B-107	4
1/2 X 2 & WIDER	1/2 X 2	M-1114	5	3-250	B-107	4

- **For sizes not listed, contact thermOweld®.**
- For heavy duty molds, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0306-00 ~ Card Cloth Brush (pg 58)

BS-1



BS-1 TYPE MOLDS

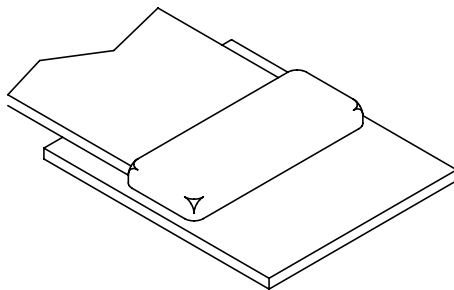
Vertical Tap to Vertical Steel Surface

BS-1 Type Molds are used to connect a vertical copper bus tap to a vertical steel surface. Bus flat side is parallel to surface. Size range is $\frac{1}{8}$ " x 1" through $\frac{1}{2}$ " x 2" copper bus bar.

BUS BAR SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/8 X 2	M-1044	4	200	B-106	4
1/4 X 1	M-1045	4	150	B-106	4
1/4 X 1-1/4	M-1046	4	200	B-106	4
1/4 X 1-1/2	M-1047	4	250	B-106	4
1/4 X 2	M-1048	5	2-150	B-107	4
3/8 X 1	M-1049	4	200	B-106	4
3/8 X 2	M-1050	5	2-200	B-107	4
1/2 X 1	M-1051	4	250	B-106	4
1/2 X 2	M-1052	5	500	B-107	4

- For sizes not listed, contact thermOweld®.
- For heavy duty molds, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0306-00 ~ Card Cloth Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)

BS-2



BS-2 TYPE MOLDS

Horizontal Tap to Horizontal Steel Surface

BS-2 Type Molds are used to connect a horizontal copper bus tap to a horizontal steel surface. Bus flat side is parallel to surface.

Size range is $\frac{1}{8}$ " x 1" through $\frac{1}{2}$ " x 2" copper bus bar.

BUS BAR SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/8 X 1	M-1072	4	115	B-106	4
1/8 X 1-1/2	M-1073	4	150	B-106	4
1/8 X 2	M-1074	4	200	B-106	4
3/16 X 1	M-1075	4	150	B-106	2
3/16 X 2	M-1076	4	250	B-106	4
1/4 X 1	M-1077	4	150	B-106	4
1/4 X 1-1/4	M-1078	4	200	B-106	4
1/4 X 1-1/2	M-1079	4	250	B-106	4
1/4 X 2	M-1080	5	2-150	B-107	4
3/8 X 1	M-1081	4	200	B-106	4
3/8 X 1-1/2	M-1082	4	250	B-106	4
3/8 X 2	M-1083	5	2-200	B-107	4
1/2 X 1	M-1084	4	250	B-106	4
1/2 X 1-1/2	M-1085	5	2-200	B-107	4
1/2 X 2	M-1086	5	500	B-107	4

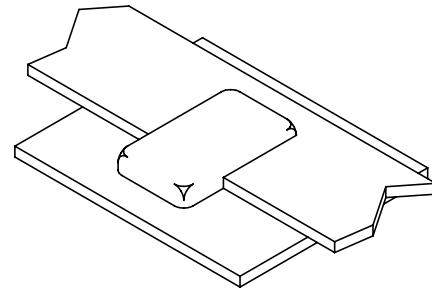
- For sizes not listed, contact thermOweld®.
- For heavy duty molds, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0306-00 ~ Card Cloth Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)

BS-3 TYPE MOLDS

Horizontal Thru Bar to Horizontal Steel Surface

BS-3 Type Molds are used to connect a horizontal through copper bus bar to a horizontal steel surface. Bus flat side is parallel to surface.

Size range is $\frac{1}{8}$ " x 1" through $\frac{1}{2}$ " x $\frac{1}{2}$ " and wider.



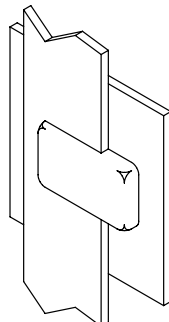
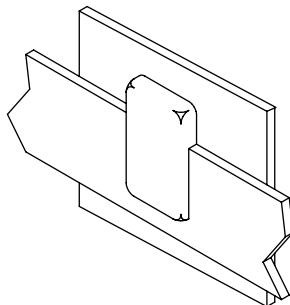
BS-3

BUS BAR SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/8 X 1	M-1088	4	115	B-106	4
1/8 X 1-1/2 & WIDER	M-1089	4	150	B-106	4
1/4 X 1	M-1090	4	150	B-106	4
1/4 X 1-1/4	M-1091	4	200	B-106	4
1/4 X 1-1/4 & WIDER	M-1092	4	250	B-106	4
3/8 X 1	M-1093	4	200	B-106	4
3/8 X 1-1/2 & WIDER	M-1094	4	250	B-106	4
1/2 X 1	M-1095	4	250	B-106	4
1/2 X 1-1/2 & WIDER	M-1096	5	2-200	B-107	4

- For sizes not listed, contact thermOweld®.
- For heavy duty molds, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0306-00 ~ Card Cloth Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)

BS-4/BS-5 TYPE MOLDS

Horizontal or Vertical Thru Bar to Vertical Steel Surface



BS-4 Type Molds are used to join horizontal through copper bus bar to a vertical steel surface.

BS-5 Type Molds are used to join vertical through copper bus bar to a vertical steel surface. Bus flat side is parallel to surface.

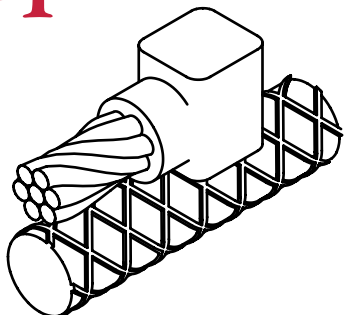
Size range is $\frac{1}{8}$ " x 1" through $\frac{1}{2}$ " x 2" and wider.

BS-4/BS-5

BUS BAR SIZE	MOLD # BS-4	MOLD # BS-5	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
1/8 X 1	M-1054	M-1063	4	115	B-106	4
1/8 X 2 & WIDER	M-1055	M-1064	4	200	B-106	4
1/4 X 1	M-1056	M-1065	4	150	B-106	4
1/4 X 2 & WIDER	M-1057	M-1066	5	2-150	B-107	4
3/8 X 1	M-1058	M-1067	4	200	B-106	4
3/8 X 2 & WIDER	M-1059	M-1068	5	2-200	B-107	4
1/2 X 1	M-1060	M-1069	4	250	B-106	4
1/2 X 2 & WIDER	M-1061	M-1070	5	500	B-107	4

- For sizes not listed, contact thermOweld®.
- For heavy duty molds, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0306-00 ~ Card Cloth Brush (pg 58)
 - 38-0101-00 ~ Rasp (pg 59)

CRE-1



CRE-1 TYPE MOLDS

Horizontal Parallel Tap

CRE-1 Type Molds are recommended for parallel, horizontal connections for solid or concentric stranded conductors #6 through 4/0 joined to reinforcing bars #3 through #6 and larger. The high copper content joint has a higher current carrying capacity than the conductors being joined and is impervious to vibration and moisture.

REBAR SIZE	CABLE SIZE	MOLD #	PACKING MAT'L # See Note	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#3	#6	M-7500	38-0329	4	25	B-106	4
	#4	M-7501	38-0329	4	32	B-106	2
	#2	M-7502	38-0329	4	45	B-106	4
	#1	M-7503	38-0329	4	65	B-106	2
	1/0	M-7504	38-0329	4	90	B-106	4
	2/0	M-7505	38-0329	4	90	B-106	2
	3/0	M-7506	38-0329	4	115	B-106	2
	4/0	M-7507	38-0329	4	115	B-106	2
#4 & Larger	#6	M-7508	38-4061	3†	25	Not Req'd	2
	#4	M-7509	38-4061	3†	32	Not Req'd	2
	#2	M-7510	38-4061	3†	45	Not Req'd	2
	#1	M-7511	38-4061	3†	65	Not Req'd	4
#4	1/0	M-7512	38-0329	4	90	B-106	2
	2/0	M-7513	38-0329	4	90	B-106	2
	3/0	M-7514	38-0329	4	115	B-106	2
	4/0	M-7515	38-0329	4	115	B-106	2
#5	1/0	M-7520	38-0329	4	90	B-106	2
	2/0	M-7521	38-0329	4	90	B-106	2
	3/0	M-7522	38-0329	4	115	B-106	2
	4/0	M-7523	38-0329	4	115	B-106	2
#6 & Larger	1/0	M-7528	38-4062	14†	90	Not Req'd	2
	2/0	M-7529	38-4062	14†	90	Not Req'd	2
	3/0	M-7530	38-4062	14†	115	Not Req'd	2
	4/0	M-7531	38-4062	14†	115	Not Req'd	2

PACKING MATERIAL NOTES

A packing pad is necessary when making thermOweld® connections to Rebar. Packing Material 38-0329-00 is copper shim stock. Packing Material No.'s 38-4061, 38-4062 and 38-4063 are a ceramic fiber material and can be used for **one** connection only. Be sure to specify Packing Material No. when ordering Mold and Weld Metal.

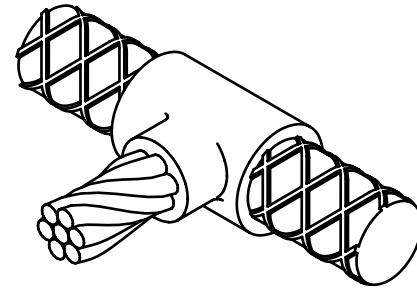
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - † ~ Sold complete with frame
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0304-00 ~ File (pg 59)

CRE-2 TYPE MOLDS

Horizontal Cable Tap to Horizontal Rebar Run

CRE-2 Type Molds are recommended for right angle, horizontal connections for solid or concentric stranded conductors #6 through 4/0 joined to reinforcing bars #3 through #6. The high copper content joint has a higher current carrying capacity than the conductors being joined and is impervious to vibration and moisture.

CRE-2



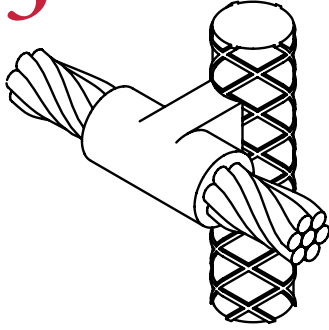
REBAR SIZE	CABLE SIZE	MOLD #	PACKING MAT'L # See Note	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#3	#6	M-7588	38-0329	4	45	B-106	4
	#4	M-7589	38-0329	4	45	B-106	2
	#2	M-7590	38-0329	4	65	B-106	4
	#1	M-7591	38-0329	4	65	B-106	4
	1/0	M-7592	38-0329	4	90	B-106	4
	2/0	M-7593	38-0329	4	90	B-106	4
	3/0	M-7594	38-0329	4	115	B-106	4
	4/0	M-7595	38-0329	4	115	B-106	4
#4	#6	M-7596	38-0329	4	45	B-106	2
	#4	M-7597	38-0329	4	45	B-106	2
	#2	M-7598	38-0329	4	65	B-106	2
	#1	M-7599	38-0329	4	65	B-106	4
	1/0	M-7600	38-0329	4	90	B-106	2
	2/0	M-7601	38-0329	4	90	B-106	2
	3/0	M-7602	38-0329	4	115	B-106	2
	4/0	M-7603	38-0329	4	115	B-106	2
#5	#6	M-7604	38-4606	4	90	B-106	2
	#4	M-7605	38-0329	4	90	B-106	2
	#2	M-7606	38-0329	4	90	B-106	2
	#1	M-7607	38-0329	4	90	B-106	4
	1/0	M-7608	38-0329	4	115	B-106	2
	2/0	M-7609	38-0329	4	115	B-106	2
	3/0	M-7610	38-0329	4	150	B-106	2
	4/0	M-7611	38-0329	4	150	B-106	2
#6	#6	M-7612	38-0329	4	90	B-106	2
	#4	M-7613	38-0329	4	90	B-106	4
	#2	M-7614	38-0329	4	90	B-106	4
	#1	M-7615	38-0329	4	90	B-106	4
	1/0	M-7616	38-0329	4	115	B-106	2
	2/0	M-7617	38-0329	4	115	B-106	2
	3/0	M-7618	38-0329	4	150	B-106	4
	4/0	M-7619	38-0329	4	150	B-106	2

PACKING MATERIAL NOTES

A packing pad is necessary when making thermOweld® connections to Rebar. Packing Material 38-0329-00 is copper shim stock. Packing Material No's 38-4061, 38-4062 and 38-4063 are a ceramic fiber material and can be used for **one** connection only. Be sure to specify Packing Material No. when ordering Mold and Weld Metal.

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (pg 58)
 - 40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500 (pg 58)
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0304-00 ~ File (pg 59)

CRE-3



CRE-3 TYPE MOLDS

Horizontal thru Cable to Vertical Rebar

CRE-3 Type Molds are recommended for horizontal conductors to vertical rebar connections for solid or concentric stranded conductors #6 through 4/0 joined to reinforcing bars #3 through #7 & larger. The high copper content joint has a higher current carrying capacity than the conductors being joined and is impervious to vibration and moisture.

REBAR SIZE	CABLE SIZE	MOLD #	PACKING MAT'L # See Note	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#3	#6	M-7620	38-0329	24	90	B-106	4
	#4	M-7621	38-0329	24	90	B-106	4
	#2	M-7622	38-0329	24	90	B-106	4
	#1	M-7623	38-0329	24	115	B-106	4
	1/0	M-7624	38-0329	24	115	B-106	4
	2/0	M-7625	38-0329	24	115	B-106	2
	3/0	M-7626	38-0329	24	150	B-106	2
	4/0	M-7627	38-0329	24	150	B-106	4
#4	#6	M-7628	38-0329	24	90	B-106	2
	#4	M-7629	38-0329	24	90	B-106	4
	#2	M-7630	38-0329	24	90	B-106	2
	#1	M-7631	38-0329	24	115	B-106	4
	1/0	M-7632	38-0329	24	115	B-106	2
	2/0	M-7633	38-0329	24	115	B-106	2
	3/0	M-7634	38-0329	24	150	B-106	2
	4/0	M-7635	38-0329	24	150	B-106	2
#5	#6	M-7636	38-0329	24	90	B-106	4
	#4	M-7637	38-0329	24	90	B-106	2
	#2	M-7638	38-0329	24	90	B-106	2
	#1	M-7639	38-0329	24	115	B-106	4
	1/0	M-7640	38-0329	24	115	B-106	2
	2/0	M-7641	38-0329	24	115	B-106	2
	3/0	M-7642	38-0329	24	150	B-106	2
	4/0	M-7643	38-0329	24	150	B-106	2
#6	#6	M-7644	38-0329	24	90	B-106	4
	#4	M-7645	38-0329	24	90	B-106	2
	#2	M-7646	38-0329	24	90	B-106	4
	#1	M-7647	38-0329	24	115	B-106	4
	1/0	M-7648	38-0329	24	115	B-106	2
	2/0	M-7649	38-0329	24	115	B-106	2
	3/0	M-7650	38-0329	24	150	B-106	4
	4/0	M-7651	38-0329	24	150	B-106	2
#7 & Larger	#6	M-7652	38-4063	4	90	B-106-41	4
	#4	M-7653	38-4063	4	90	B-106-41	2
	#2	M-7654	38-4063	4	90	B-106-41	2
	#1	M-7655	38-4063	4	115	B-106-41	4
	1/0	M-7656	38-4063	4	115	B-106-41	4
	2/0	M-7657	38-4063	4	115	B-106-41	2
	3/0	M-7658	38-4063	4	150	B-106-41	2
	4/0	M-7659	38-4063	4	150	B-106-41	2

PACKING MATERIAL NOTES

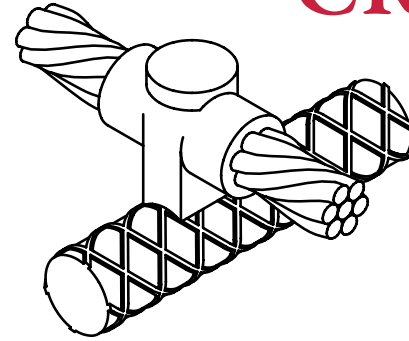
A packing pad is necessary when making thermOweld® connections to Rebar. Packing Material 38-0329-00 is copper shim stock. Packing Material No.'s 38-4061, 38-4062 and 38-4063 are a ceramic fiber material and can be used for **one** connection only. Be sure to specify Packing Material No. when ordering Mold and Weld Metal.

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles) 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0319-03 ~ Mold Cleaner for PK-4 Molds w/ cartridge sizes #90-#500 (pg 58)
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0304-00 ~ File (pg 59)

CRE-4 TYPE MOLDS

Horizontal thru Cable to Horizontal Rebar

CRE-4 Type Molds are recommended for horizontal through conductors to horizontal rebar at right angle connections for solid or concentric stranded conductors #6 through 4/0 joined to reinforcing bars #3 through #6 & larger. The high copper content joint has a higher current carrying capacity than the conductors being joined and is impervious to vibration and moisture.



CRE-4

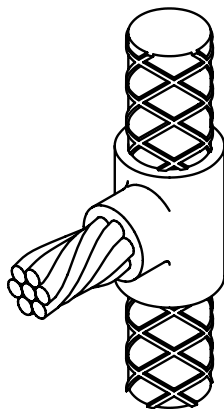
REBAR SIZE	CABLE SIZE	MOLD #	PACKING MAT'L # See Note	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#3	#6	M-7708	38-0329	4	65	B-106	2
	#4	M-7709	38-0329	4	65	B-106	4
	#2	M-7710	38-0329	4	90	B-106	2
	#1	M-7711	38-0329	4	90	B-106	4
	1/0	M-7712	38-0329	22	115	B-106	2
	2/0	M-7713	38-0329	22	115	B-106	2
	3/0	M-7714	38-0329	22	150	B-106	4
#4	4/0	M-7715	38-0329	22	150	B-106	2
	#6	M-7716	38-0329	4	65	B-106	2
	#4	M-7717	38-0329	4	65	B-106	4
	#2	M-7718	38-0329	4	90	B-106	4
	#1	M-7719	38-0329	22	90	B-106	4
	1/0	M-7720	38-0329	22	115	B-106	4
	2/0	M-7721	38-0329	22	115	B-106	2
#5	3/0	M-7722	38-0329	22	150	B-106	4
	4/0	M-7723	38-0329	22	150	B-106	2
	#6	M-7724	38-0329	4	65	B-106	4
	#4	M-7725	38-0329	4	65	B-106	2
	#2	M-7726	38-0329	4	90	B-106	2
	#1	M-7727	38-0329	22	90	B-106	4
	1/0	M-7728	38-0329	22	115	B-106	2
#6 & Larger	2/0	M-7729	38-0329	22	115	B-106	2
	3/0	M-7730	38-0329	22	150	B-106	4
	4/0	M-7731	38-0329	22	150	B-106	2
	#6	M-7732	38-4061	14†	65	Included	4
	#4	M-7733	38-4061	14†	65	Included	2
	#2	M-7734	38-4061	14†	90	Included	2
	#1	M-7735	38-4061	14†	90	Included	4
#6 & Larger	1/0	M-7736	38-4062	14†	115	Included	4
	2/0	M-7737	38-4062	14†	115	Included	2
	3/0	M-7738	38-4062	14†	150	Included	2
	4/0	M-7739	38-4062	14†	150	Included	2

PACKING MATERIAL NOTES

A packing pad is necessary when making thermOweld® connections to Rebar. Packing Material 38-0329-00 is copper shim stock. Packing Material No's 38-4061, 38-4062 and 38-4063 are a ceramic fiber material and can be used for **one** connection only. Be sure to specify Packing Material No. when ordering Mold and Weld Metal.

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - † ~ Sold complete with frame
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0319-03 ~ Mold Cleaner for PK-4 & 22 Molds w/ cartridge sizes #90-#500 (pg 58)
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0304-00 ~ File (pg 59)

CRE-6



CRE-6 TYPE MOLDS

Horizontal Cable Tap to Vertical Rebar

CRE-6 Type Molds are recommended for horizontal conductors terminating at right angles to vertical rebar connections for solid or concentric stranded conductors #6 through 4/0 joined to reinforcing bars #3 through #7 and larger. The high copper content joint has a higher current carrying capacity than the conductors being joined and is impervious to vibration and moisture.

REBAR SIZE	CABLE SIZE	MOLD #	PACKING MAT'L # See Note	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
#3	#6	M-7884	38-0329	4	90	B-106	2
	#4	M-7885	38-0329	4	90	B-106	4
	#2	M-7886	38-0329	4	90	B-106	4
	#1	M-7887	38-0329	4	115	B-106	4
	1/0	M-7888	38-0329	4	115	B-106	4
	2/0	M-7889	38-0329	4	115	B-106	4
	3/0	M-7890	38-0329	4	150	B-106	4
	4/0	M-7891	38-0329	4	150	B-106	4
#4	#6	M-7892	38-0329	4	90	B-106	2
	#4	M-7893	38-0329	4	90	B-106	4
	#2	M-7894	38-0329	4	90	B-106	2
	#1	M-7895	38-0329	4	115	B-106	4
	1/0	M-7896	38-0329	4	115	B-106	2
	2/0	M-7897	38-0329	4	115	B-106	2
	3/0	M-7898	38-0329	4	150	B-106	2
	4/0	M-7899	38-0329	4	150	B-106	2
#5	#6	M-7900	38-0329	4	90	B-106	2
	#4	M-7901	38-0329	4	90	B-106	4
	#2	M-7902	38-0329	4	90	B-106	2
	#1	M-7903	38-0329	4	115	B-106	4
	1/0	M-7904	38-0329	4	115	B-106	2
	2/0	M-7905	38-0329	4	115	B-106	2
	3/0	M-7906	38-0329	4	150	B-106	2
	4/0	M-7907	38-0329	4	150	B-106	2
#6	#6	M-7908	38-0329	4	90	B-106	2
	#4	M-7909	38-0329	4	90	B-106	4
	#2	M-7910	38-0329	4	90	B-106	2
	#1	M-7911	38-0329	4	115	B-106	4
	1/0	M-7912	38-0329	4	115	B-106	2
	2/0	M-7913	38-0329	4	115	B-106	2
	3/0	M-7914	38-0329	4	150	B-106	2
	4/0	M-7915	38-0329	4	150	B-106	2
#7 & Larger	#6	M-7916	38-4063	4	90	B-106-32	4
	#4	M-7917	38-4063	4	90	B-106-32	2
	#2	M-7918	38-4063	4	90	B-106-32	2
	#1	M-7919	38-4063	4	115	B-106-32	4
	1/0	M-7920	38-4063	4	115	B-106-32	4
	2/0	M-7921	38-4063	4	115	B-106-32	2
	3/0	M-7922	38-4063	4	150	B-106-32	2
	4/0	M-7923	38-4063	4	150	B-106-32	2

PACKING MATERIAL NOTES

A packing pad is necessary when making thermOweld® connections to Rebar. Packing Material 38-0329-00 is copper shim stock. Packing Material No.'s 38-4061, 38-4062 and 38-4063 are a ceramic fiber material and can be used for **one** connection only. Be sure to specify Packing Material No. when ordering Mold and Weld Metal.

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles) 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0304-00 ~ File (pg 59)

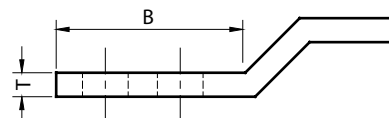
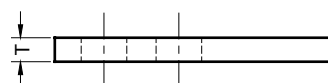
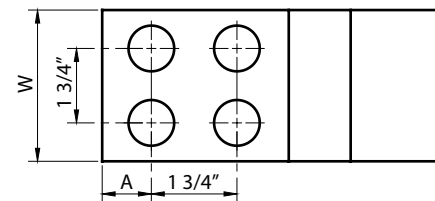
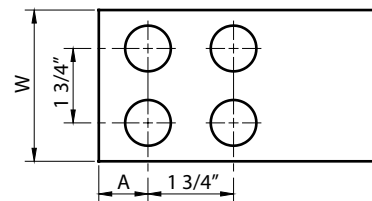
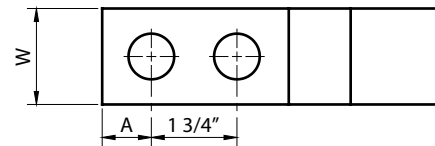
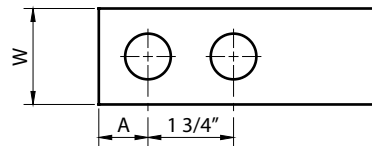
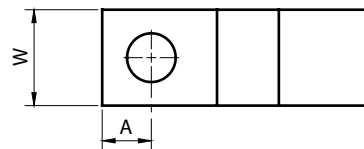
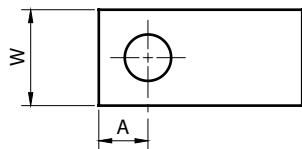
STRAIGHT AND OFFSET COPPER LUGS

COPPER LUGS

thermOweld® straight & offset lugs are designed to be used with CB-1 Type Molds listed on page 32. The lugs are made from electrolytic grade copper bar stock. The lugs are available with one, two or four bolt holes with NEMA spacing. For lug sizes not listed, contact thermOweld®.

LUG SIZE	STRAIGHT LUG PART #	OFFSET LUG PART #	# OF HOLES	BOLT SIZE	T	W	A	B
1/8 x 1	38-4200-00	38-4150-00	1	3/8	1/8	1	1/2	7/8
1/8 x 1	38-4202-00	38-4152-00	2	1/2	1/8	1	5/8	3
3/16 x 1	38-4203-00	38-4153-00	1	1/2	3/16	1	9/16	1-1/8
3/16 x 1	38-4205-00	38-4155-00	2	1/2	3/16	1	5/8	3
3/16 x 1‡	N/A	38-4154-00	2	3/8	3/16	1	7/16	1-7/8
1/4 x 1	38-4206-00	38-4156-00	1	1/2	1/4	1	5/8	1-1/8
1/4 x 1	38-4208-00	38-4158-00	2	1/2	1/4	1	5/8	3
1/4 x 1-1/2	38-4212-00	38-4162-00	1	5/8	1/4	1-1/2	3/4	1-1/2
1/4 x 1-1/2	38-4214-00	38-4164-00	2	1/2	1/4	1-1/2	5/8	3
1/4 x 2	38-3605-00	38-3607-00	2	1/2	1/4	2	5/8	3
3/8 x 1-1/2	38-4215-00	38-4165-00	1	5/8	3/8	1-1/2	3/4	1-1/2
3/8 x 1-1/2	38-4217-0	38-4167-00	2	1/2	3/8	1-1/2	5/8	3
3/8 x 2	38-4218-00	38-4168-00	1	5/8	3/8	2	1	2-1/8
3/8 x 2	38-4220-00	38-4170-00	2	1/2	3/8	2	5/8	3
1/4 x 3	38-4221-00	38-4171-00	4	1/2	1/4	3	5/8	3
3/8 x 3	38-4225-00	38-4175-00	4	1/2	3/8	3	5/8	3
1/2 x 3	38-4226-00	38-4176-00	4	1/2	1/2	3	5/8	3

‡ Non-NEMA spaced bolt holes. Two 3/8" bolt holes on 1" centers. For use with thermOweld Ground Plates 38-2864-00 & 38-4177-00
For sizes not listed, contact thermOweld®.



STRAIGHT LUG

OFFSET LUG

COPPER LUGS

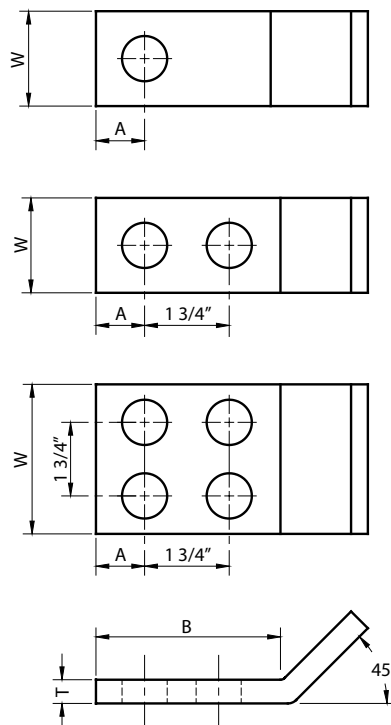
45° COPPER LUGS

thermOweld® 45° lugs are designed to be used with CB-1 Type Molds listed on page 32. The lugs are made from electrolytic grade copper bar stock. The lugs are available with one, two or four bolt holes with NEMA spacing. For lug sizes not listed, contact thermOweld®.

LUG SIZE	45° LUG PART #	# OF HOLES	BOLT SIZE	T	W	A	B
1/8 x 1	38-4227-00	1	3/8	1/8	1	7/16	7/8
1/8 x 1	38-4229-00	2	1/2	1/8	1	5/8	3
3/16 x 1	38-4230-00	1	1/2	3/16	1	5/8	1-1/4
3/16 x 1	38-4232-00	2	1/2	3/16	1	5/8	3
3/16 x 1†	38-4231-00	2	3/8	3/16	1	7/16	1-7/8
1/4 x 1	38-4233-00	1	1/2	1/4	1	5/8	1-1/4
1/4 x 1	38-4235-00	2	1/2	1/4	1	5/8	3
1/4 x 1-1/2	38-4239-00	1	5/8	1/4	1-1/2	3/4	1-1/2
1/4 x 1-1/2	38-4241-00	2	1/2	1/4	1-1/2	5/8	3
3/8 x 1-1/2	38-4242-00	1	5/8	3/8	1-1/2	3/4	1-1/2
3/8 x 1-1/2	38-4244-00	2	1/2	3/8	1-1/2	5/8	3
3/8 x 2	38-4245-00	1	5/8	3/8	2	3/4	1-1/2
3/8 x 2	38-4247-00	2	1/2	3/8	2	5/8	3
1/4 x 3	38-4248-00	4	1/2	1/4	3	5/8	3
3/8 x 3	38-4252-00	4	1/2	3/8	3	5/8	3
1/2 x 3	38-4253-00	4	1/2	1/2	3	5/8	3

† Non-NEMA spaced bolt holes. Two 3/8" bolt holes on 1" centers. For use with thermOweld Ground Plates 38-2864-00 & 38-4177-00

For sizes not listed, contact thermOweld®.

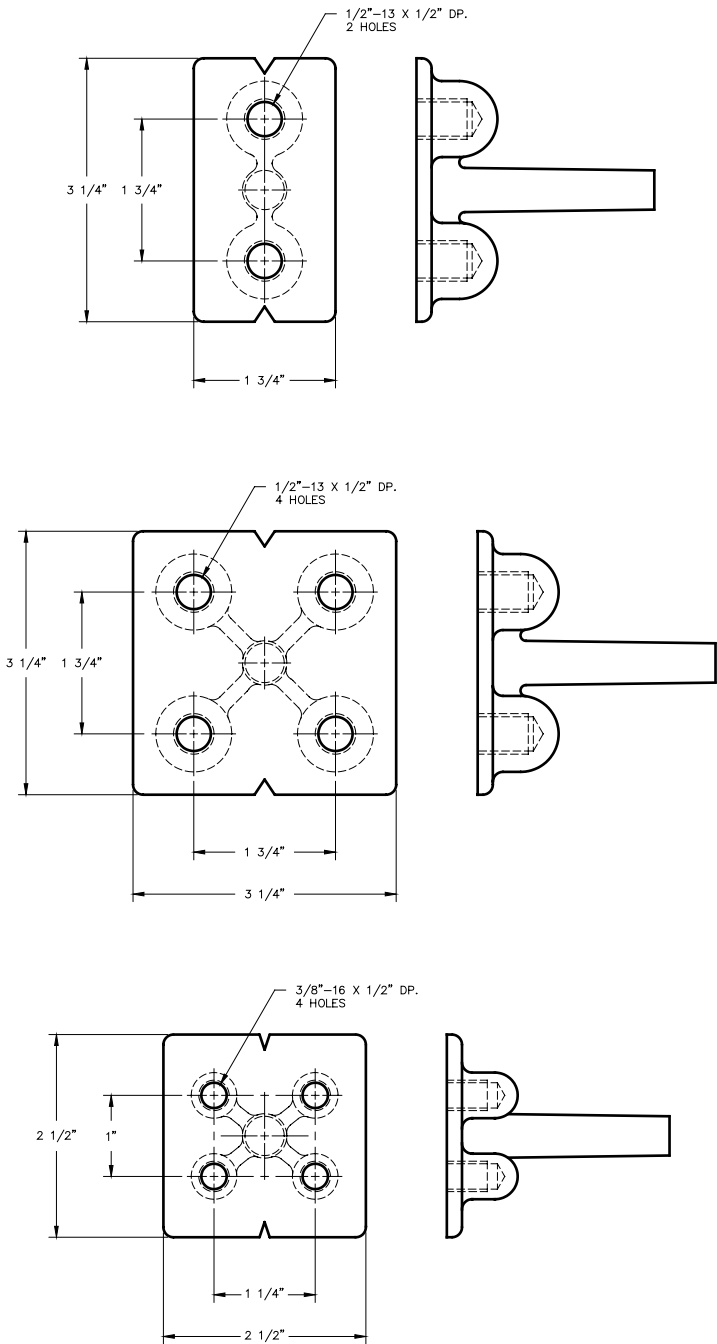


45° LUG

GROUND PLATES

When cast into concrete structures, these offer grounding points for equipment, machinery, etc. They are made from high quality copper alloy and can be thermOwelded easily to copper cable.

GROUND
PLATES



PART #	STUD SIZE
38-2999-00	4/0

PART #	STUD SIZE
38-4051-00	4/0
38-4178-00	500 Kcmil

PART #	STUD SIZE
38-2864-00	4/0

GROUND PLATES

GROUND PLATES

Use weld types CC-1 and CC-2 to connect copper cable to ground plates. Contact thermOweld® for mold numbers.

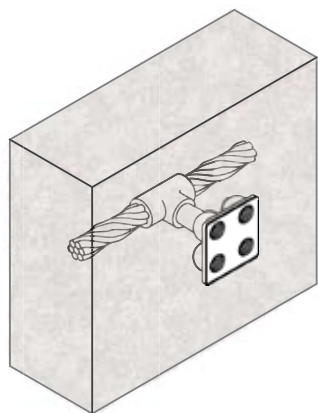
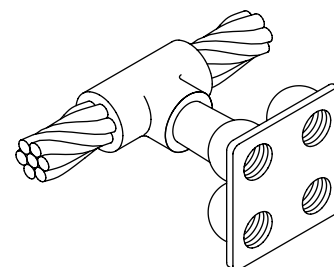
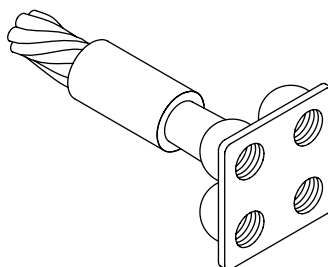
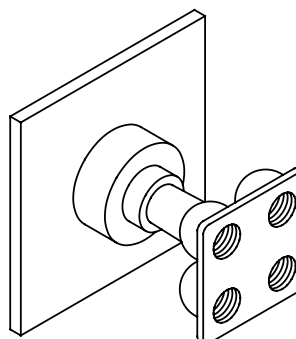


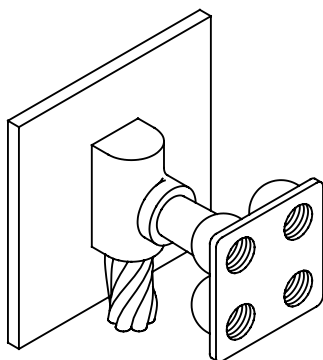
Illustration at left shows a ground plate installed in a concrete wall.



RS-3					
GROUND PLATE PART NUMBER	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
38-2864-00	M-6091	4	150	B-106	2
38-2999-00	M-6091	4	150	B-106	2
38-4051-00	M-6091	4	150	B-106	2
38-4178-00	M-6092	4	200	B-106	4



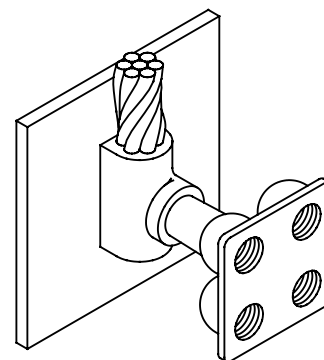
RS-3



CRS-1

NOTE:

For structural purposes, weld types RS-3, CRS-1 and CRS-2 should only be used when the ground plate is to be encased in concrete.



CRS-2

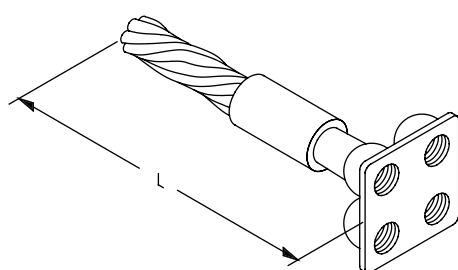
CRS-1†					CABLE SIZE	CRS-2†				
MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME		MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
M-6093	17	200	B-106	4	1/0	M-6101	17	200	B-106	4
M-6094	17	200	B-106	4	2/0	M-6102	17	200	B-106	4
M-6095	17	250	B-106	4	3/0	M-6103	17	250	B-106	4
M-6096	17	250	B-106	4	4/0	M-6104	17	250	B-106	4
M-6097	17	250	B-106	4	250 MCM	M-6105	17	250	B-106	4
M-6098	17	2-150	B-106	4	300 MCM	M-6106	17	2-150	B-106	4
M-6099	17	2-150	B-106	4	350 MCM	M-6107	6	2-200	B-107	4
M-6100	6	2-200	B-107	4	500 MCM	M-6108	6	500	B-107	4

† These mold numbers are for use with Ground Plates 38-2999-00, 38-4051-00 and 38-2864-00. Contact thermOweld® for molds used with Ground Plate 38-4178-00.

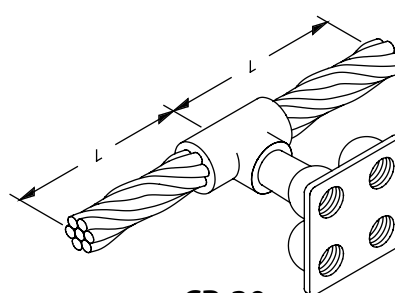
GROUND PLATES

thermOweld® Pre-fabricated Ground Plate Assemblies come ready to splice into your grounding system. Types CR-31 and CR-32 are welded in an inverted position and the resulting riser is used to place the ground plate on top of 1/2" pipe. This helps position the ground plate flush with a floor slab.

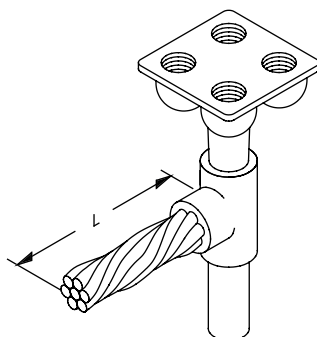
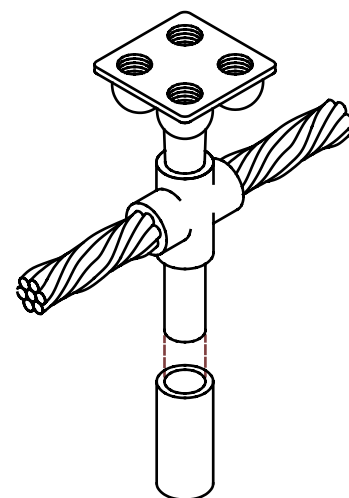
GROUND PLATES



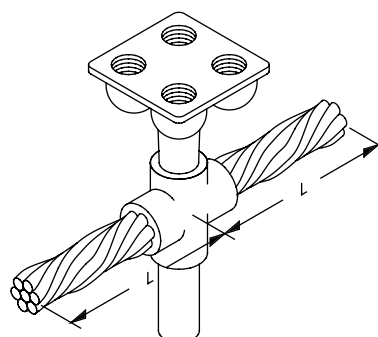
CR-27



CR-30



CR-31



CR-32

GROUND PLATE	TYPE CR-31	TYPE CR-32	TYPE CR-27	TYPE CR-30
38-2864-00	38-4519-IH	38-4524-IH	38-4529-IH	38-4534-IH
38-2999-00	38-4521-IH	38-4526-IH	38-4531-IH	38-4536-IH
38-4051-00	38-4522-IH	38-4527-IH	38-4532-IH	38-4537-IH
38-4178-00	38-4523-IH	38-4528-IH	38-4533-IH	38-4538-IH

For complete part number replace with corresponding number for cable size and corresponding letter for cable length. Contact thermOweld® for cable sizes and lengths not shown.

I = CABLE SIZE

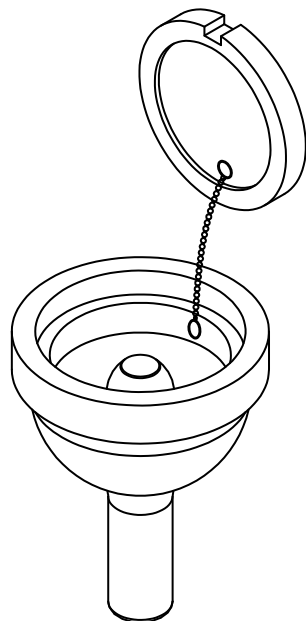
1 = #4 STR	5 = 4/0 STR
2 = #2 STR	6 = 250 MCM
3 = 1/0 STR	7 = 350 MCM
4 = 2/0 STR	8 = 500 MCM

H = LENGTH IN INCHES

A = 6"	D = 24"
B = 12"	E = 36"
C = 18"	F = 48"

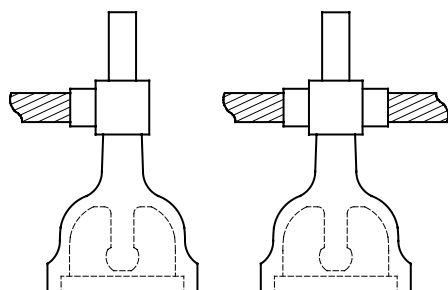
Example: 38-4532-5C would be a CR-27 type with a 38-4051-00 ground plate and a 4/0 str pigtail, 18" long.

AIRCRAFT GROUNDING RECEPTACLE



AC-1

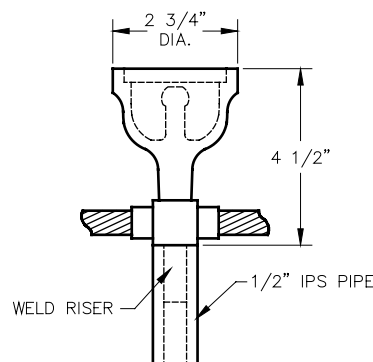
AC-2



AC-1

AC-2

Aircraft Grounding Receptacle 38-0119-00 is a copper alloy casting used for static grounding in aircraft refueling areas. The receptacle, when installed, is flush with the airport apron surface and provides a permanent, corrosion-proof static grounding connection. It can easily be attached to copper cable or ground rods in several configurations with a thermOweld mold. Replacement stubs available, part #38-0119-13.



AC TYPE MOLDS

Horizontal Cable to Aircraft Grounding Receptacle

AC-1 Type Molds are used to terminate a horizontal copper cable to a ground receptacle. AC-2 Type Molds are used to connect a horizontal through copper cable to a ground receptacle. thermOweld types AC-1 and AC-2 are made with the receptacle in an inverted position. The resulting riser is then used to position the receptacle on top of 1/2" IPS pipe. Size range is #2 through 4/0 solid, ropelay or concentric stranded conductors.

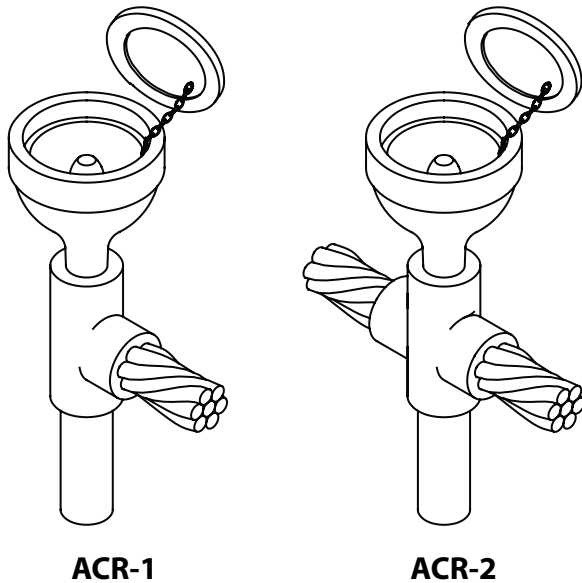
AC-1					CABLE SIZE	AC-2				
MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME		MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
M-6330	4	115	B-106	2	#2	M-6338	4	115	B-106	4
M-6332	4	115	B-106	4	#1	M-6339	4	115	B-106	2
M-6333	4	150	B-106	4	1/0	M-6341	4	150	B-106	4
M-6335	4	150	B-106	2	2/0	M-6342	4	150	B-106	4
M-6336	4	150	B-106	4	3/0	M-6343	4	200	B-106	4
M-6337	4	150	B-106	2	4/0	M-6344	4	200	B-106	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools; Handle Clamps (see chart above for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold Cleaning Brush (pg 58)
38-0135-00 ~ Cable Cleaning Brush (pg 58)

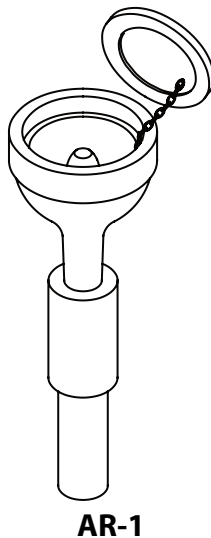
AR & ACR TYPE MOLDS

Horizontal Cable and Aircraft Grounding Receptacle to Ground Rod

Type AR-1 molds are used to weld a ground receptacle to the top of a ground rod. Types ACR-1 and ACR-2 are used to weld a horizontal cable and ground receptacle to the top of a ground rod.



AR-1					
GROUND ROD SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
5/8"	M-6301	17	2-150	B-106	2
3/4"	M-6300	17	2-150	B-106	4
1"	M-6303	6	2-200	B-107	4

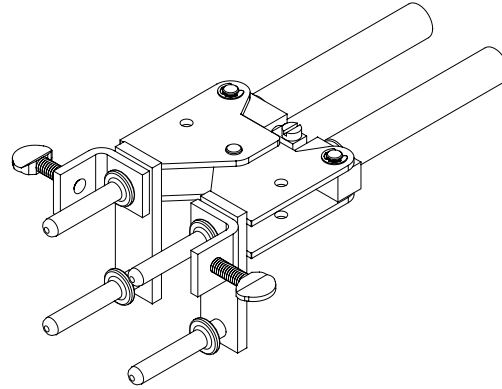


AIRCRAFT GROUNDING RECEPTACLE

ACR-1						
GROUND ROD SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
5/8"	1/0	M-6305	8	2-200	B-107	4
	2/0	M-6306	8	2-200	B-107	4
	3/0	M-6307	8	2-200	B-107	4
	4/0	M-6309	8	2-200	B-107	4
3/4"	1/0	M-6310	8	2-200	B-107	4
	2/0	M-6311	8	2-200	B-107	2
	3/0	M-6312	8	2-200	B-107	4
	4/0	M-6313	8	2-200	B-107	2
1"	1/0	M-6314	8	500	B-107	4
	2/0	M-6315	8	500	B-107	4
	3/0	M-6316	8	500	B-107	4
	4/0	M-6317	8	500	B-107	4
ACR-2						
GROUND ROD SIZE	CABLE SIZE	MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
5/8"	1/0	M-6318	8	2-200	B-107	4
	2/0	M-6319	8	2-200	B-107	2
	3/0	M-6320	8	2-200	B-107	4
	4/0	M-6321	8	2-200	B-107	4
3/4"	1/0	M-6322	8	2-200	B-107	2
	2/0	M-6323	8	2-200	B-107	2
	3/0	M-6324	8	2-200	B-107	4
	4/0	M-6325	8	2-200	B-107	2
1"	1/0	M-6326	8	500	B-107	4
	2/0	M-6327	8	500	B-107	4
	3/0	M-6328	8	500	B-107	4
	4/0	M-6329	8	500	B-107	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add suffix "-N" to mold number.
- For heavy duty molds, molds with wear plates or molds for Copperweld® cable, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart above for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush (pg 58)
 - 38-0135-00 ~ Cable Cleaning Brush (pg 58)
 - 38-0304-00 ~ File (pg 59)
 - 38-0330-00 ~ Cable Clamp (pg 58)

HANDLE CLAMPS



B-106 & B-107 HANDLE CLAMPS

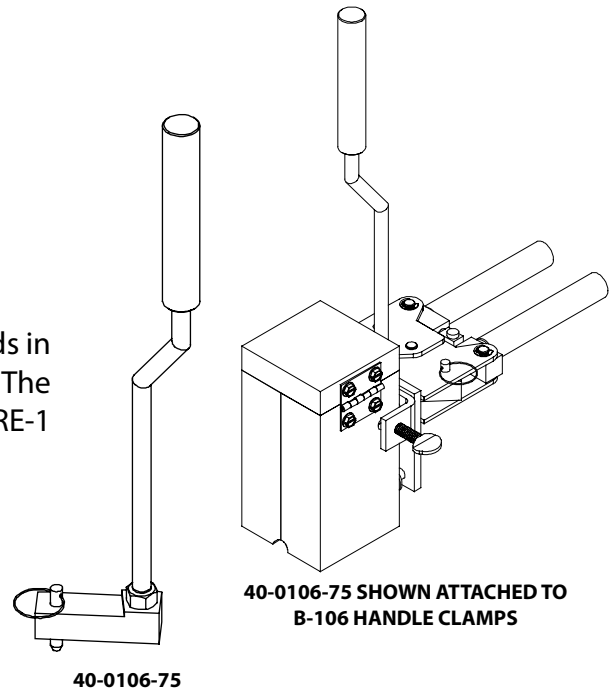
For most connections involving lugs, cable or rectangular bus, thermOweld Handle Clamps are used. thermOweld® Handle Clamps make possible the use of many different sizes and types of molds with only two different clamps. The two handle clamps are catalog numbers B-106 and B-107. These will fit 95% of all standard thermOweld® molds.

1. Use B-106 clamps for all molds having a price key 4, 7, 17, 22 or 24. These molds are a nominal 3 1/8" wide molds.
2. Use B-107 clamps for all molds having a price key 5, 6, 8, 13 or 23. These molds are a nominal 4" wide molds.
3. All molds having a price key 2, 3, 9, 10, 11, 12, 14, 15, 16 or 33 have an attached frame; separate handles are not required.

PK-14 HANDLE ATTACHMENT

The PK-14 Handle Attachment is used to hold a PK-14 molds in position. It is easily attached to the B-106 Handle Clamps. The PK-14 Handle Attachment can be used with weld types CRE-1 and CRE-4.

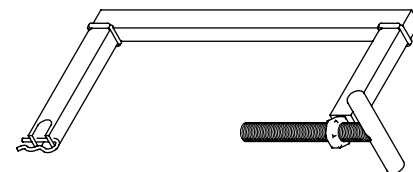
Part # 40-0106-75



MOLD SUPPORT CLAMP

The Mold Support Clamp is used to hold a mold in position on a vertical steel column or angle. It is easily attached to the Handle Clamps. The Mold Support Clamp can be used with weld types CS-3, CS-18, CS-23 and CS-27.

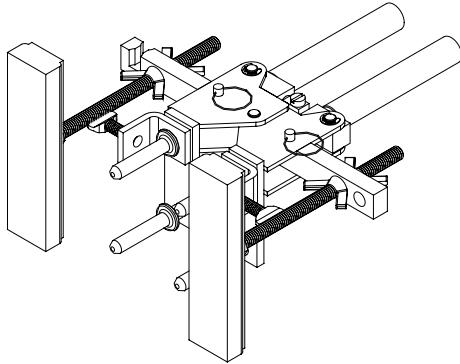
Part # 40-3657-00



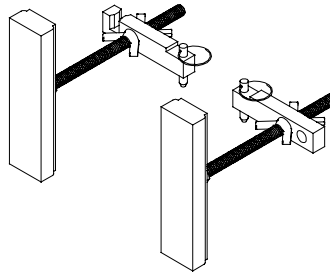
VERTICAL MAGNETIC CLAMPS

thermOweld® Magnetic Clamp is used to hold a mold in position on a vertical steel surface. The magnetic clamp can be purchased complete with B-106 Handle Clamps or if you already have a set of handles, you can order just the magnetic mounting assembly. The mounting assembly can easily be mounted on the prongs of your existing B-106 handle clamps. A minimum of 10" is required.

HANDLE CLAMPS



40-4431-00



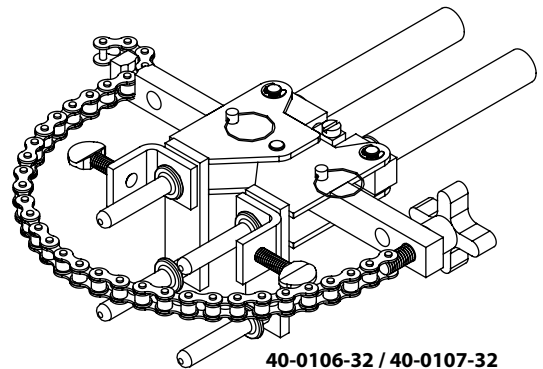
40-4431-01

VERTICAL MAGNETIC CLAMPS		
PART #	FITS MOLDS W/ PRICE KEY	FOR USE WITH WELD TYPES
40-4431-00	4 & 17	CS-3, 4, 7 & 23
MAGNETIC CLAMP ONLY		
PART #	FITS HANDLE CLAMPS	FOR USE WITH WELD TYPES
40-4431-01	B-106	CS-3, 4, 7 & 23

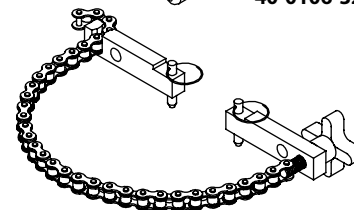
HORIZONTAL & VERTICAL CHAIN CLAMPS

thermOweld® Chain Clamps are used to hold a mold in position on horizontal or vertical pipe up to 4" in diameter. For larger pipe a 20" chain extension is available to allow the chain clamps to be used on pipe up to 10" in diameter. The chain clamp can be purchased complete with B-106 or B-107 Handle Clamps or if you already have a set of clamps, you can order just the chain clamp and mounting assembly. The mounting assembly can easily be attached to your existing thermOweld® Handle Clamps. 20" Chain Extension part #40-0106-27.

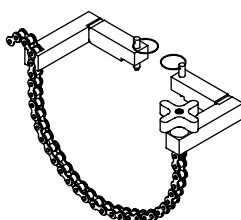
CHAIN CLAMPS			
PART #	FITS MOLDS W/ PRICE KEY	FOR USE WITH WELD TYPES	PIPE POSITION
40-0106-32	4, 17, 22 & 24	CS-3, 4, 7, 23 & CRE-6	VERTICAL
40-0107-32	5, 6 & 23	CS-3, 4, 7 & 23	VERTICAL
40-0106-37	4, 17, 22 & 24	CS-1, 2, 5, 8 & 9	HORIZONTAL
40-0107-37	5, 6 & 23	CS-1, 2, 5, 8 & 9	HORIZONTAL
40-0106-41	4, 17	CS-6, 18 & CRE-3	VERTICAL
CHAIN CLAMP ONLY (HANDLE CLAMPS NOT INCLUDED)			
PART #	FITS HANDLE CLAMP	FOR USE WITH WELD TYPES	PIPE POSITION
40-0106-76	B-106 & B-107	CS-3, 4, 7, 23 & CRE-6	VERTICAL
40-0106-78	B-106 & B-107	CS-1, 2, 5, 8 & 9	HORIZONTAL
40-0106-77	B-106 & B-107	CS-6, 18 & CRE-3	VERTICAL



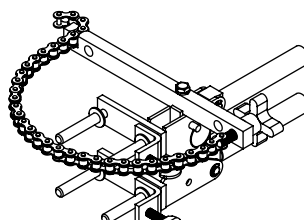
40-0106-32 / 40-0107-32



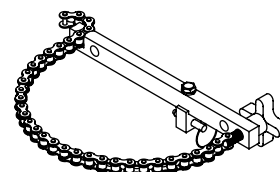
40-0106-76



40-0106-78



40-0106-41 / 40-0107-41

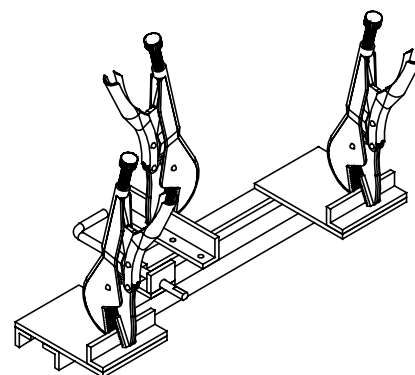


40-0106-77

ACCESSORIES

38-0330-00 CABLE CLAMP

The thermOweld Cable Clamp is recommended for holding a wide range of cables properly in place in molds when welding cables that are under tension. This prevents the cables from pulling out of the mold when the weld is made.



GROUND ROD DRIVING SLEEVES

Ground Rod Driving Sleeves are placed over the top of a ground rod while driving it into the ground. This prevents the top from mushrooming or flaring out. Ground rod driving sleeves come in sizes to fit all standard unthreaded ground rods.

PART #	GROUND ROD SIZE
38-3662-01	1/2" Copper Clad or Steel Ground Rod
38-3662-02	5/8" Copper Clad Ground Rod
38-3662-05	5/8" Steel Ground Rod
38-3662-03	3/4" Copper Clad Ground Rod
38-3662-06	3/4" Steel Ground Rod
38-3662-04	1" Copper Clad Ground Rod
38-3662-07	1" Steel Ground Rod

CABLE CLEANING AND CARD CLOTH BRUSH

The Cable Cleaning Brush is recommended for cleaning heavily oxidized cables. The V-shape brushes permit their use over a wide range of cable sizes. Brush assembly consists of a handle with two stiff wire bristle brushes that are rotatable, for longer life and are replaceable.

The Card Cloth Brush is used for cleaning large conductors and bus bar. It has short stiff bristles. These brushes are for cleaning cable only, not molds.

The Mold Cleaning Brush is used to clean the graphite mold without damaging the mold.



38-0306-00



38-3922-00

Cable Cleaning Brush.....	38-0135-00
Replacement Brush.....	38-0135-01
Card Cloth Brush.....	38-0306-00
Mold Cleaning Brush.....	38-3922-00



MOLD CLEANERS

Mold Cleaners are used to clean the slag from molds that are not split through the crucible.

40-0319-01for cartridge sizes #15 thru #65

40-0319-03for cartridge sizes #90 thru #500

ACCESSORIES



TOOLS

- 38-0304-00 ~ 8" File
- 38-0305-00 ~ Wire Brush
- 38-0306-00 ~ Card Cloth Brush
- 38-0307-00 ~ Crimping Tool
- 38-0308-00 ~ 6" Screwdriver
- 38-0309-00 ~ Flint Ignitor
- 38-3922-00 ~ Mold Cleaning Brush

PACKING MATERIAL

Packing material is used to prevent the molten weld metal from leaking out of the mold. When cable opening becomes worn from heavy use, the packing material may be used to prolong mold use. It is also used around 7 strand cable to prevent leaking. Packing material comes in a 1 lb or a 5 lb package.

Note: *This packing material to be used on outside of mold only. If packing gets into weld cavity, gassy welds will result.*



38-0309-00 Flint Ignitor

The 38-0309-00 Flint Ignitor is used to ignite the starting powder. Each mold that is sold with a frame has a Flint Ignitor included. Replacement flints are available upon request. Part #38-0309-01.

38-0904-00 Flint Ignitor Extension

The 38-0904-00 Flint Ignitor Extension allows the installer to stand 36" from the mold. Flint Ignitor is included.

38-0101-00 RASP

This tempered steel, curved rasp is recommended for removing rust and mill scale from steel and cast iron surfaces. The blade is replaceable. Specify part # 38-0101-01.

Not recommended for use on galvanized surfaces.



TOOL KIT

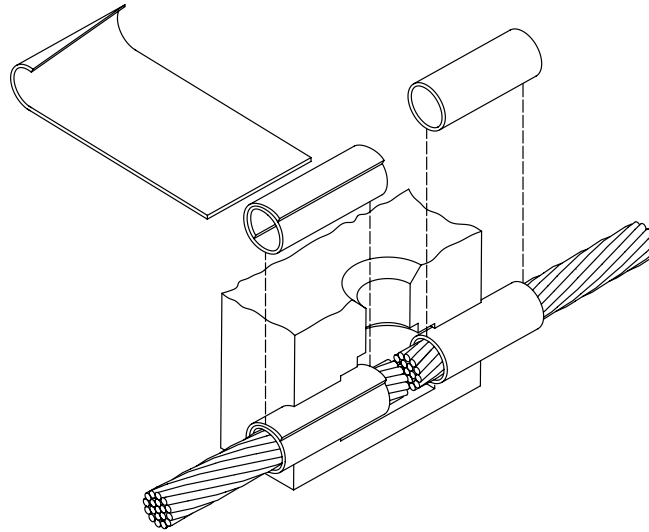
- 38-0302-00 ~ Tool Kit with Tools Shown except Rasp
- 38-0302-02 ~ Tool Kit with Tools Shown and Rasp
- 38-0303-00 ~ Tool Box Only

ADAPTER SLEEVES

SHIM STOCK AND ADAPTER SLEEVES

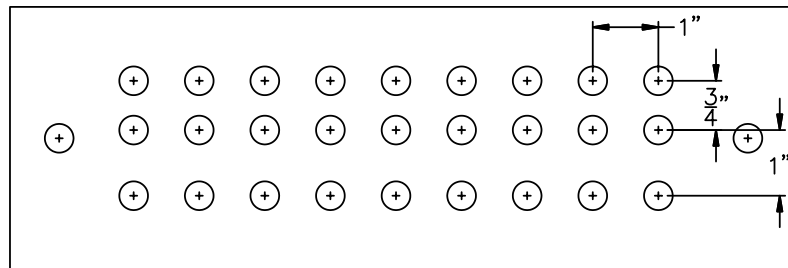
thermOweld® molds designed for larger cable sizes can be used on smaller diameter cables if copper adapter sleeves or shim stock are utilized. The copper shim stock, .0108" x 1-1/2" x 3", is normally wrapped around cable until the diameter is about equal to the cable opening. A tight fit is not necessary as the shim stock will unwrap slightly and prevent leakage of weld metal.

To order shim stock use part # 38-0329-00. Shim stock comes 100 pieces per box.

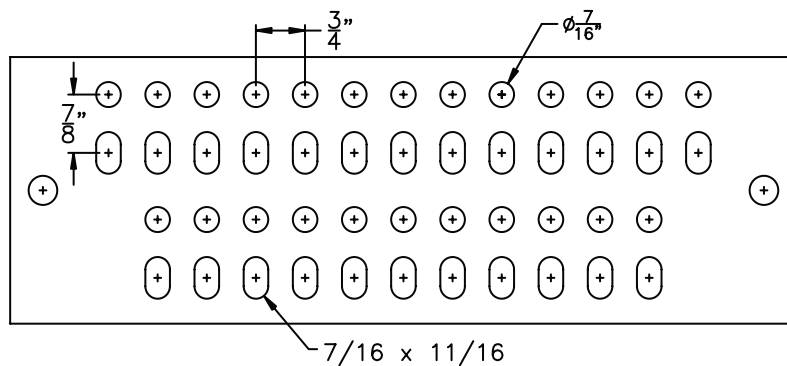


FOR USE ON CABLE SIZE		PART NO.	USE IN MOLD SIZE	SLEEVE DIMENSIONS		
STRANDED	SOLID			O.D.	I.D.	LENGTH
#12, #14	#10, #12, #14	A-200	#6 STR & Sol	.156	.111	1.00
#9, #10	#8, #9, #10	A-208	#4 Sol	.203	.140	1.00
#7, #8, #10	#6, #8	A-201	#4	.227	.177	1.00
#6	#5	A-202	#2	.292	.198	1.00
#4, #5	#3, #4	A-207	#2	.287	.246	1.00
#4	#2	A-204	#1	.340	.246	1.00
#2	#1	A-203	1/0	.370	.307	1.00
#1	1/0	A-209	2/0	.420	.359	1.00
1/0, #1	2/0	A-205	3/0 & 4/0 Sol	.452	.389	1.00
2/0, 1/0	3/0	A-240	4/0	.524	.437	1.50
4/0	-	A-211	300 MCM	.625	.545	1.25
250 MCM	-	A-212	350 MCM	.677	.595	1.25
350, 400 MCM	-	A-213	500 MCM	.811	.762	1.50
250, 300, 350 MCM	-	A-214	500 MCM	.811	.700	1.50
750, 800 MCM	-	A-215	1000 MCM	1.156	1.050	1.50

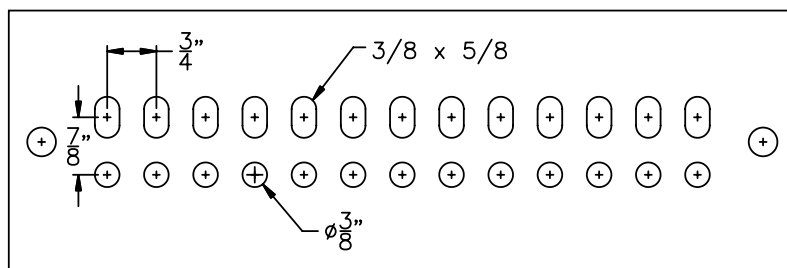
GROUND BAR HOLE PATTERNS



"J"



"M"

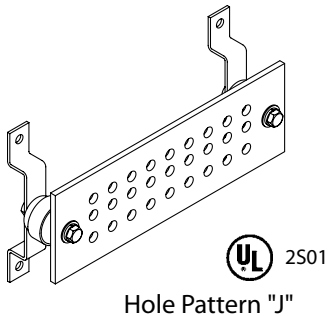


"P"

NOTES:

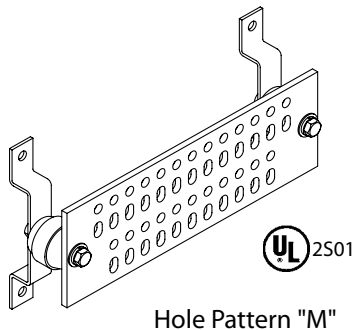
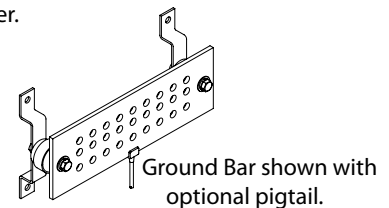
- All holes are 7/16" unless specified differently. To order threaded holes, specify hole size. The standard tapped hole size is 1/4-20 unless specified differently.
- Above bar patterns represent a 12" ground bar.
- All bars are available with electro-tin plating.

GROUND BARS



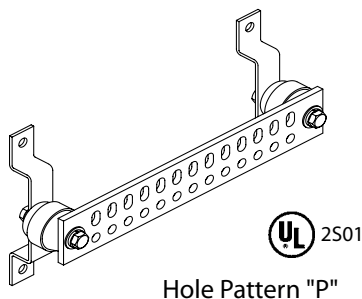
Pattern "J"				
Catalog Number	Kit	Tinned	Bar Size	# of Holes
38-6323-01	Bar Only	No	1/4" X 4" X 12"	27
38-6323-02		Yes	1/4" X 4" X 12"	27
38-6323-03	Bar w/ Insulators & Brackets	No	1/4" X 4" X 12"	27
38-6323-04		Yes	1/4" X 4" X 12"	27
38-6324-01	Bar Only	No	1/4" X 4" X 20"	51
38-6324-02		Yes	1/4" X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



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

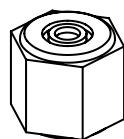
- Mounting holes not included in total.
- Accommodates two hole lugs spaced 3/4" and 1" on center.
- 12" bar pictured. Holes are 7/16" diameter and slots are 7/16" x 11/16".
- Bars available electro-tin plated.
- Tamper proof bolts available.
- Plexiglass cover available.
- Other sizes available. Contact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



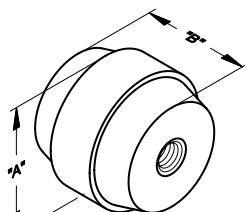
Pattern "P"				
Catalog Number	Kit	Tinned	Bar Size	# of Holes
38-6329-01	Bar Only	No	1/4" X 2" X 12"	26
38-6329-02		Yes	1/4" X 2" X 12"	26
38-6329-03	Bar w/ Insulators & Brackets	No	1/4" X 2" X 12"	26
38-6329-04		Yes	1/4" X 2" X 12"	26

- 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 7/16" x 11/16".
- Bars available electro-tin plated.
- Tamper proof bolts available.
- Plexiglas cover available.
- Other sizes available. Contact factory for details.

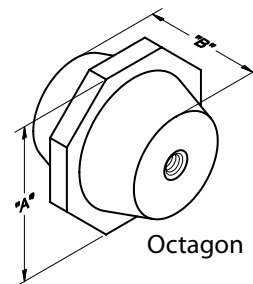
STANDOFF INSULATORS - RED



Hexagon



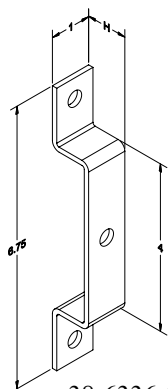
Round



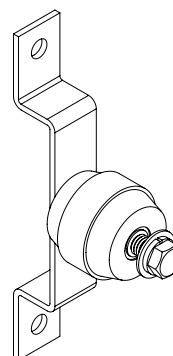
Octagon

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



38-6336-00



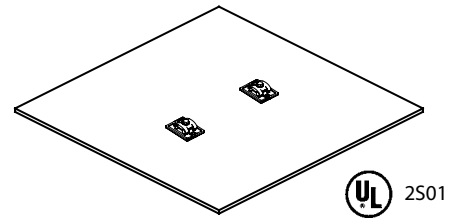
Catalog Number	Mounting Hole Size	"H"	Kit	Heavy Duty
38-6336-00	7/16"	1"	No	No
38-6337-00	7/16"	1"	Yes	No

- 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

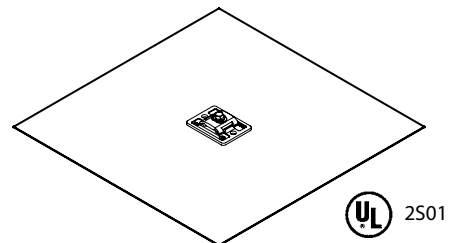
Catalog Number	Ground Plate Size	Thickness (Inches)
38-6338-00	18" X 18"	.032
38-6339-00	24" X 24"	.032

- 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.



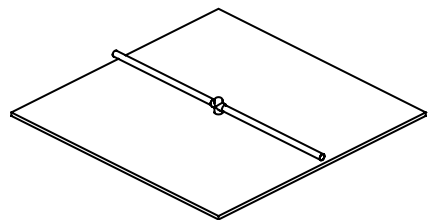
Catalog Number	Ground Plate Size	Thickness (Inches)
38-6340-"X"0	18" X 18"	.032
38-6341-"X"0	24" X 24"	.032

- 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.

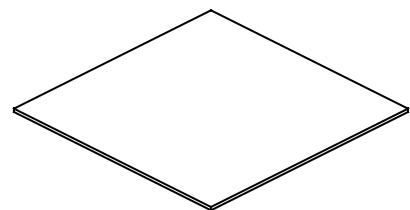
1 = #4 STR 4 = 1/0 STR 7 = 250 MCM
 2 = #2 SOL 5 = 2/0 STR 8 = 350 MCM
 3 = #2 STR 6 = 4/0 STR 9 = 500 MCM

(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.

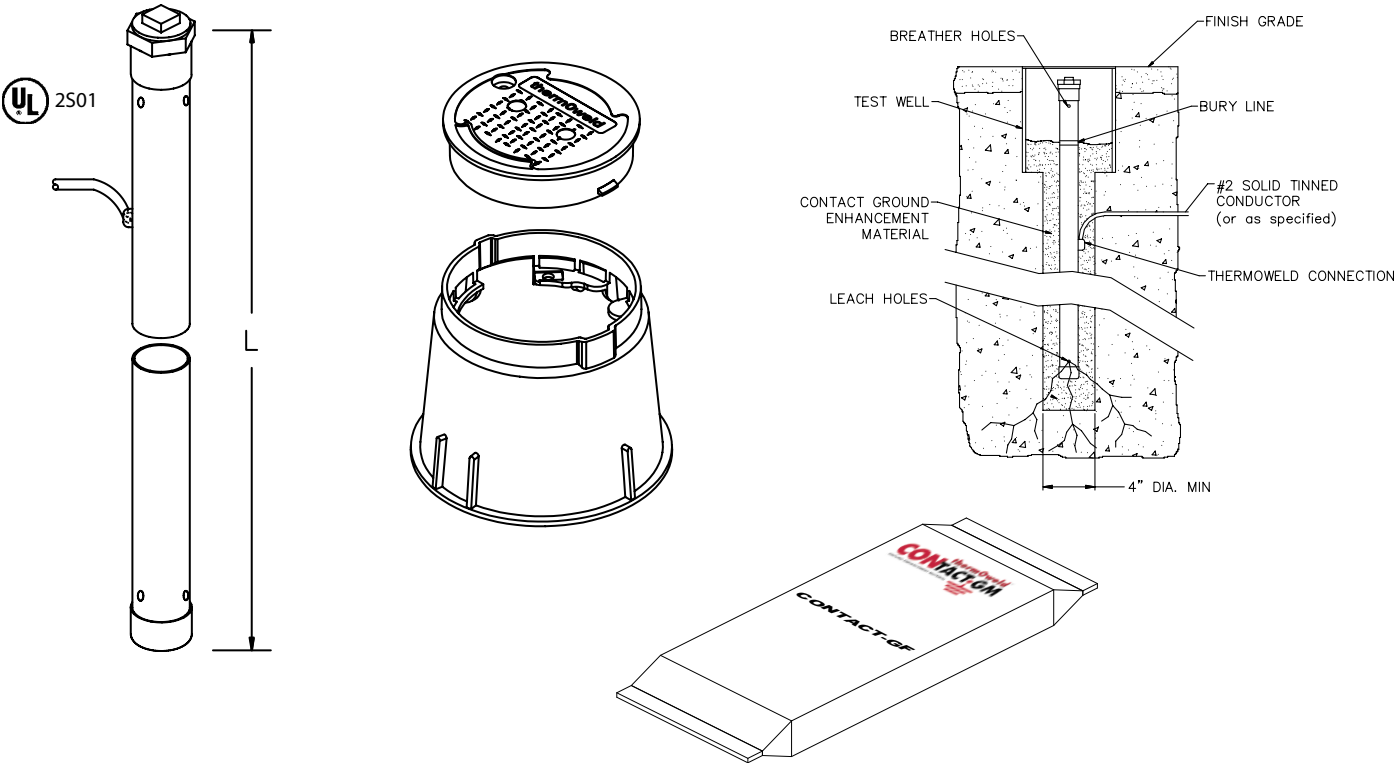


**Other sizes and thicknesses are available.
Please contact factory for details.**

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 Contact.

VERTICAL ENHANCED GROUND ROD KITS

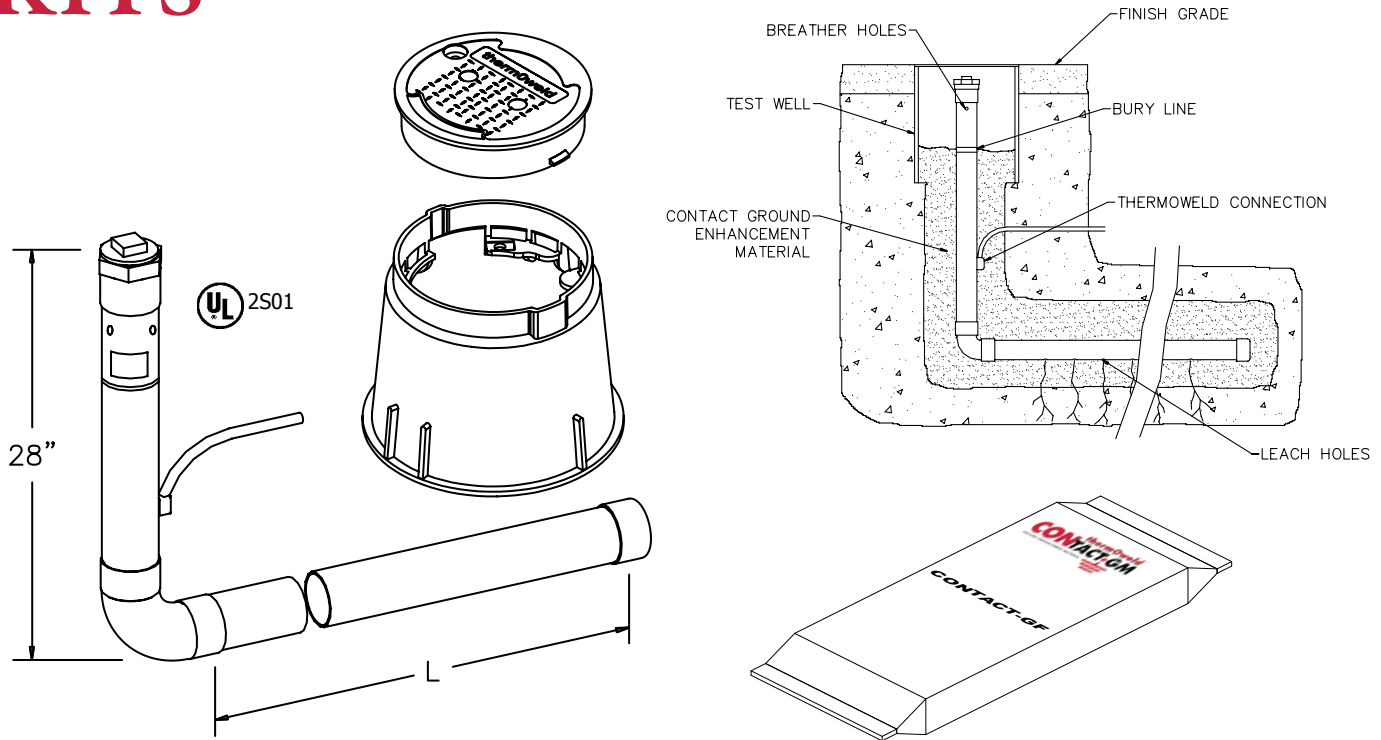


Catalog Number	Length	Inspection Well	Contact GF 25# Bag	Pigtail
38-6050-31	5'	Yes	2	5' - 4/0 STR
38-6050-32	10'	Yes	4	5' - #2 SOL (Tinned)
38-6050-33	10'	Yes	4	5' - 2/0 STR
38-6050-34	10'	Yes	4	5' - 4/0 STR
38-6050-35	20'	Yes	8	5' - #2 SOL (Tinned)
38-6050-36	20'	Yes	8	5' - 2/0 STR
38-6050-37	20'	Yes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



CONTACT -GM

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 is 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

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

Type	Part #
CONTACT - GF 25lb	38-6501-25
CONTACT - GF 50lb	38-6501-50
CONTACT - GS 25lb	38-6502-25
CONTACT - GS 50lb	38-6502-50

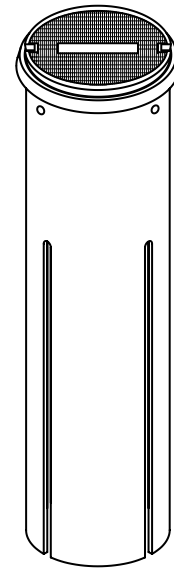


GROUND ACCESS WELLS - HEAVY DUTY

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

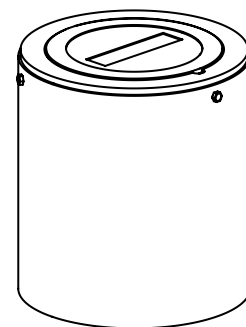
- 10" diameter Schedule 80 PVC well.
- Available in 36" and 42" lengths.
- Four 27" slots allow for ground electrode connections to be made before installation of test well.
- Cast iron cover fits into cast iron ring for extra support.
- For use in traffic areas.



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

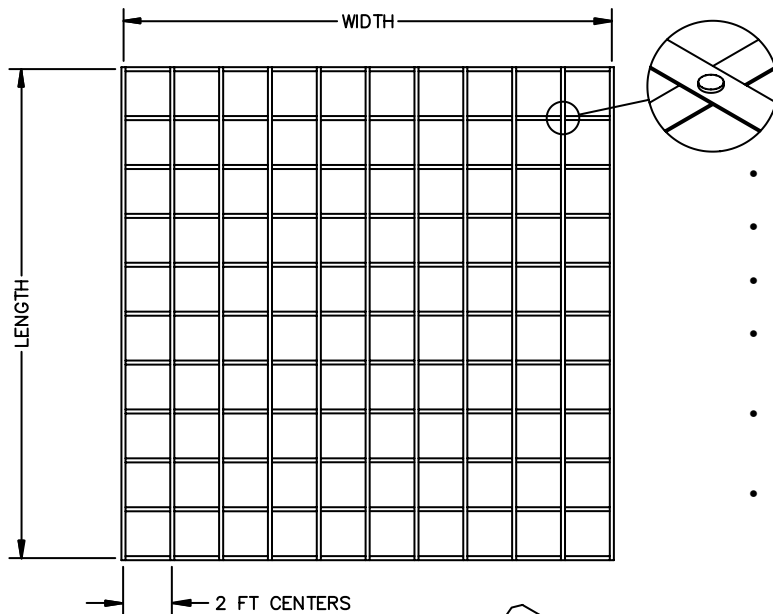
- 12" diameter Schedule 80 PVC well.
- Available in 12" and 30" lengths.
- Cast iron cover fits into cast iron ring for extra support.
- For use in traffic areas.



APPLICATION NOTES:

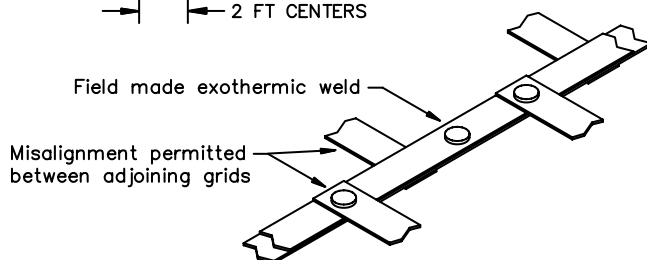
- Provides ready access to ground electrode for testing and inspection purposes.
- To prevent displacement by frost, the access well must be longer than the frost line is deep.

SIGNAL REFERENCE GRID (SRG)

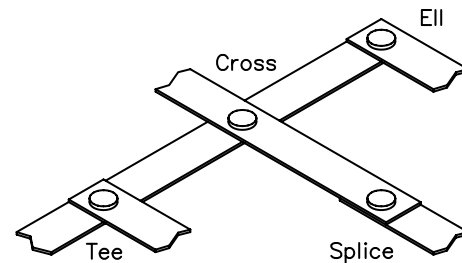


Signal Reference Grid Is:

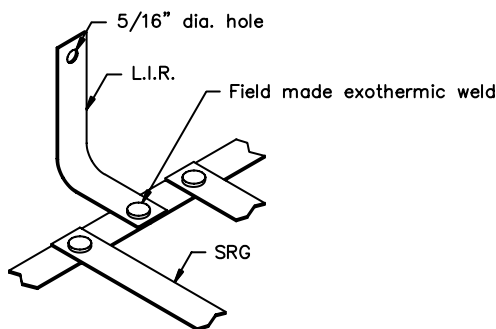
- manufactured from 2" x 26 copper strips
- spaced on 2 ft centers
- factory welded at each crossover
- furnished in sections with widths from 4 ft to 18ft (length limited by weight, approx. 200 lbs)
- shipped on tubes and protected for transporting
- interconnected in the field using ThermOweld molds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



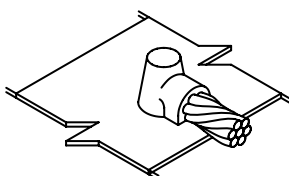
Adjoining sections of SRG are to be exothermically welded by installer using ThermOweld molds and powder



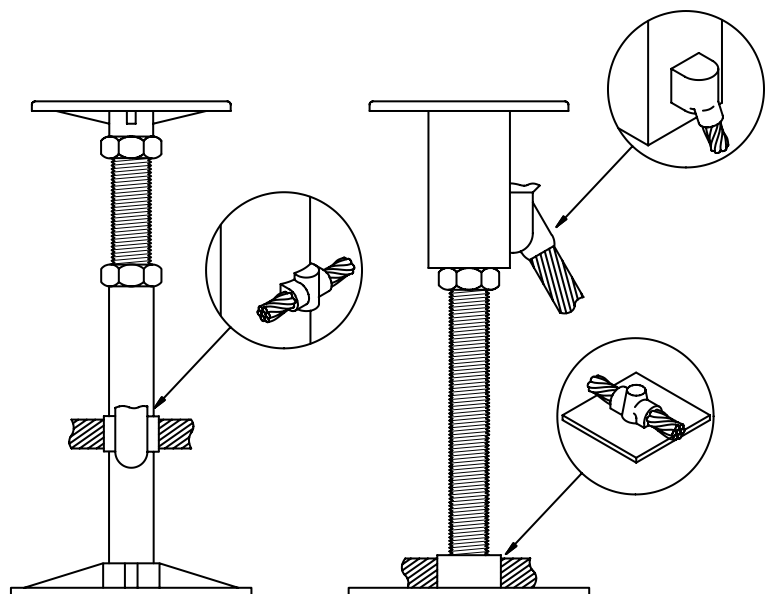
The same ThermOweld mold used to connect adjoining SRG's may be used to make splices, tees, ells or crosses



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

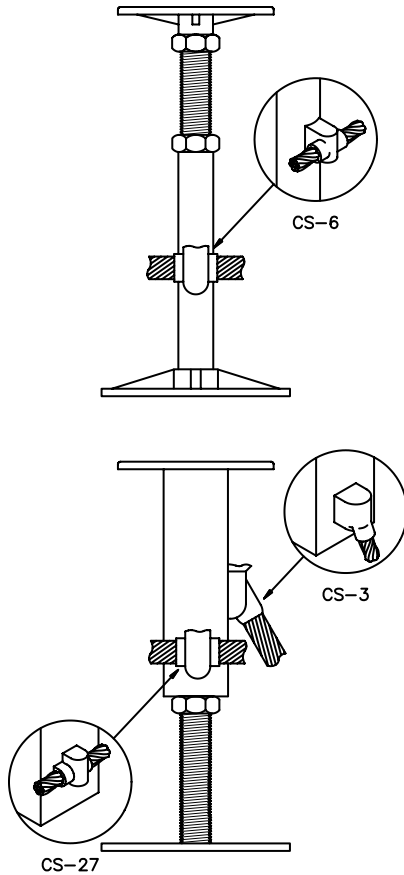


Bonding conductor exothermically welded to SRG



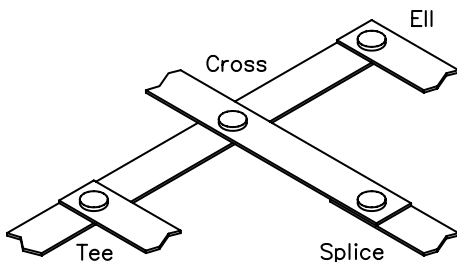
Bonding conductor exothermically welded to round and square floor pedestals

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

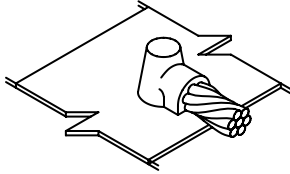
SRG CONNECTIONS



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

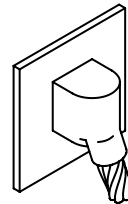
CABLE TO (SRG) CONNECTIONS



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

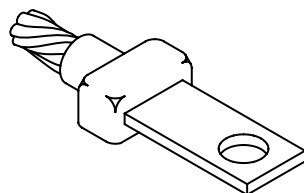
CABLE TO VERTICAL STEEL CONNECTIONS

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

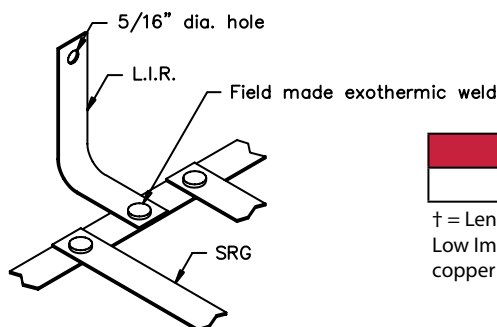
CABLE TO LUG CONNECTION



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 IMPEDENCE 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 EMISSIONS SYSTEM

thermOweld's Low Emission System 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.

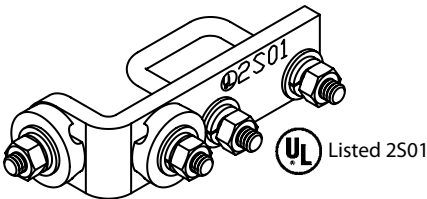
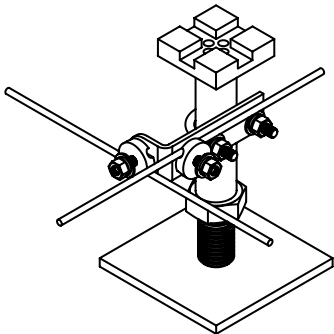
This system is currently available in all of thermOweld's standard configurations that use 200 gram or less cartridge. To order molds, replace the "M" in the mold number with "LE" (ex M-241 becomes LE-241). To order weld metal, place prefix "LE" in front of cartridge size (ex #115 becomes LE#115). For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

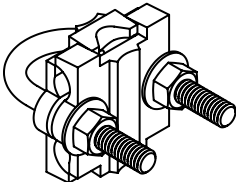
GROUND PEDESTAL CLAMPS



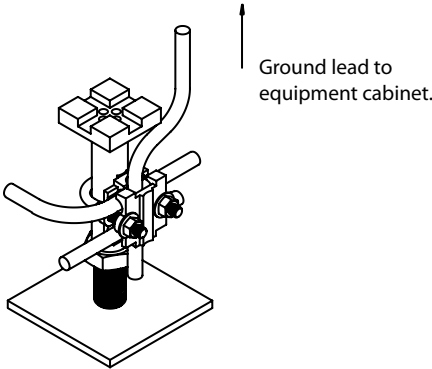
Catalog Number	U-Bolt Type	Pedestal Size	Conductor Size	Box Qty
38-6345-00	Square	1"	#6 STR	10
38-6346-00	Round	1"	#6 STR	10
38-6345-01	Square	1"	#4 STR	10
38-6346-01	Round	1"	#4 STR	10
38-6345-02	Square	1"	#2 STR	10
38-6346-02	Round	1"	#2 STR	10

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

38-6347-00 Ground Pedestal Clamp

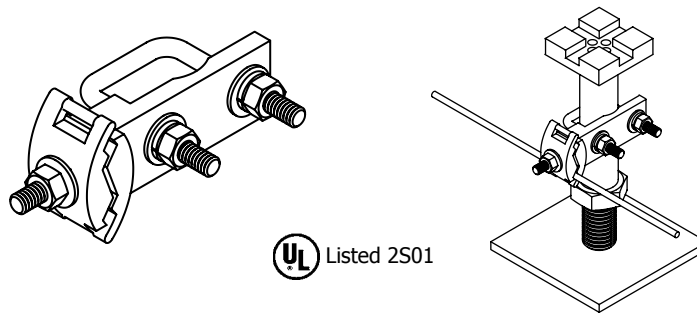


UL Listed 50H2



- 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.

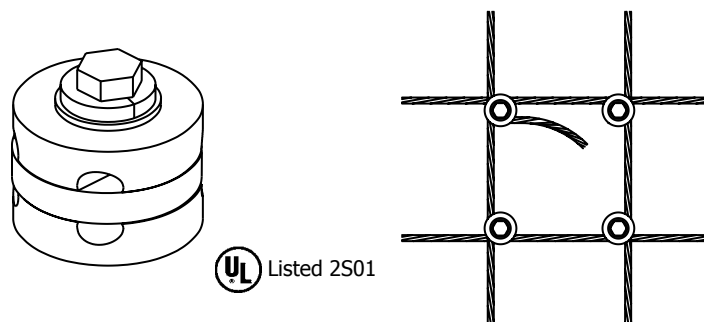
GROUND PEDESTAL CLAMPS



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

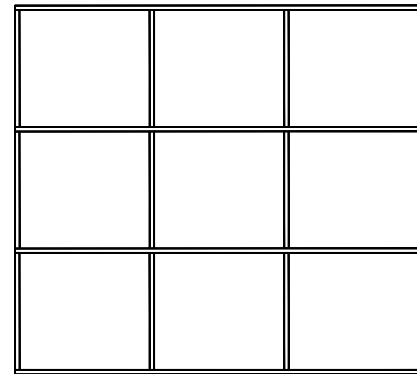


Catalog Number	Conductor Size	Box Qty
38-6348-00	#6 STR	25
38-6348-01	#4 STR	10
38-6348-02	#2 STR	10

- 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.

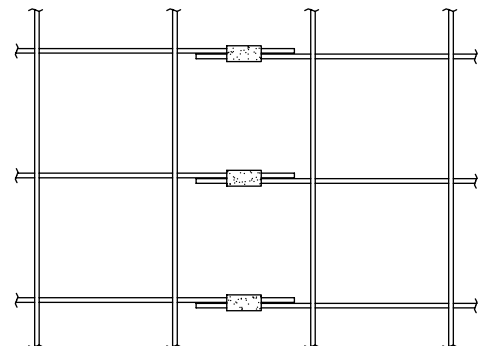
UL LISTED PREFABRICATED COPPER GROUND MESH

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



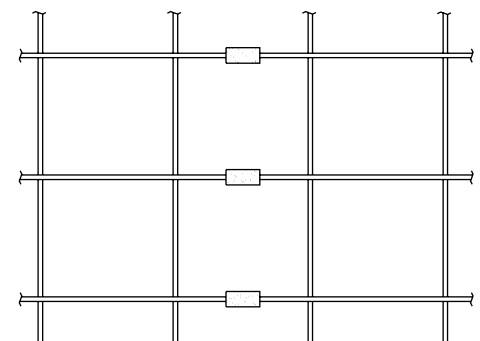
No Overhang

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

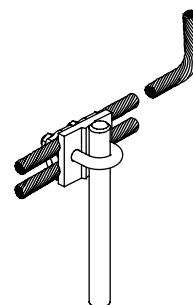
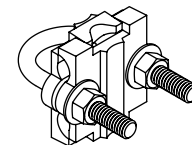
The butt splice end spacing is equal to half the conductor spacing. For example, if the mesh is 4" square the butt splice end length is 2". The butt splice end provides a more conservative use of conductor.



"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.

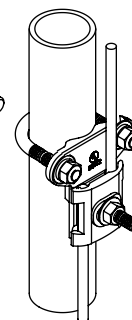
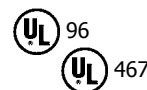
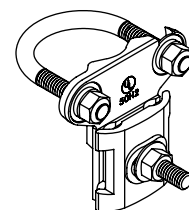


Pipe Range .5/.75

Catalog Number	Material	Nominal Pipe Size Range	Pipe Outside Diameter	Box Qty.
38-6549-00	Tinned Bronze	.5" to .75"	.375" to 1"	5

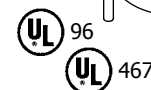
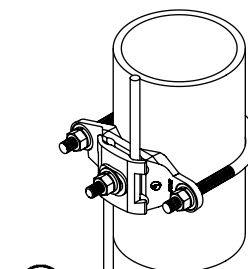
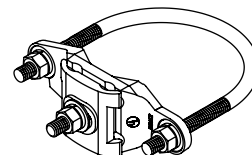
Pipe Range 1/1.25

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

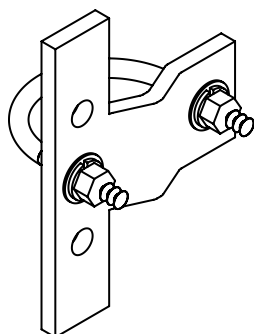
Catalog Number	Material	Nominal Pipe Size Range	Pipe Outside Diameter	Box Qty.
38-6351-00	Tinned Bronze	1.5" to 2"	1" to 2.4"	5
38-6351-01	Aluminum	1.5" to 2"	1" to 2.4"	5
38-6351-02	Tinned Bronze	2.5" to 3"	2.25" to 3.5"	5
38-6351-03	Aluminum	2.5" to 3"	2.25" to 3.5"	5
38-6351-04	Tinned Bronze	3.5" 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
38-6353-07	Aluminum	5" to 6"	5.63" to 6.63"	5



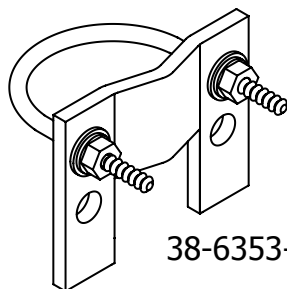
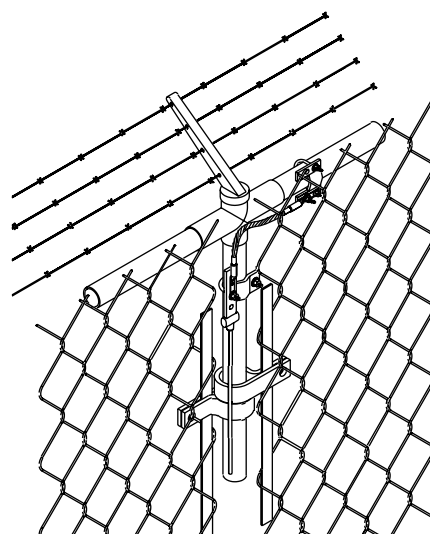
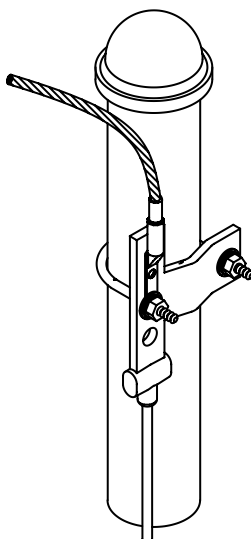
UNIVERSAL PIPE CLAMPS

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

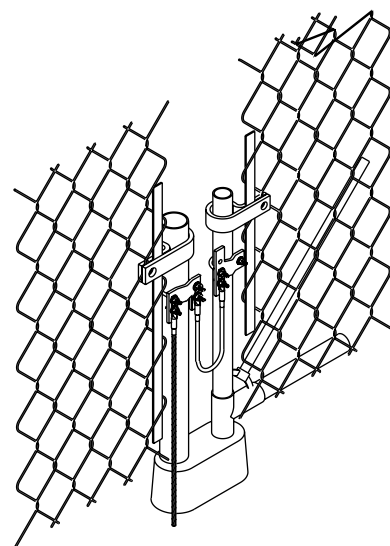
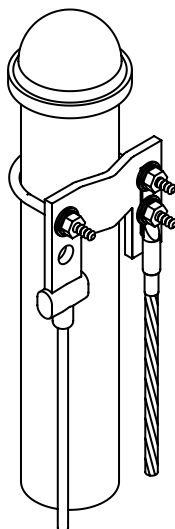
- All clamps provide 1-1/2" of contact area to ensure sufficient electrical contact for both ground fault and lightning current.
- These clamps can be connected to ground conductors via exothermic connections and/or standard compression lugs.
- Lug ends are 1/4" x 1" and have holes that are 3/8" diameter 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

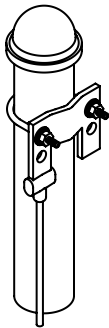


Figure 1
EXAMPLE
0000-38-6007-1D
3" Post
Left Ground Conductor is
#2 AWG Tinned Solid x 24" long
No Right Ground Conductor

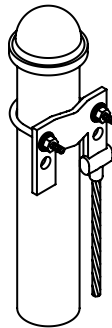


Figure 2
EXAMPLE
0000-38-6010-6L
4" Post
No Left Ground Conductor
Right Ground Conductor is
4/0 Concentric x 144" long

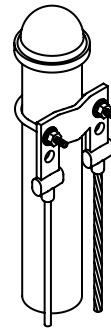


Figure 3
EXAMPLE
0000-38-6013-1D
1.5" Post
Left Ground Conductor is
#2 AWG Tinned Solid x 24" long
Right Ground Conductor is
#2 AWG Tinned Solid x 24" long

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(‡)

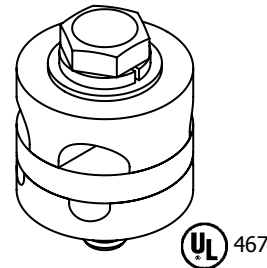
Conductor Length Codes

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

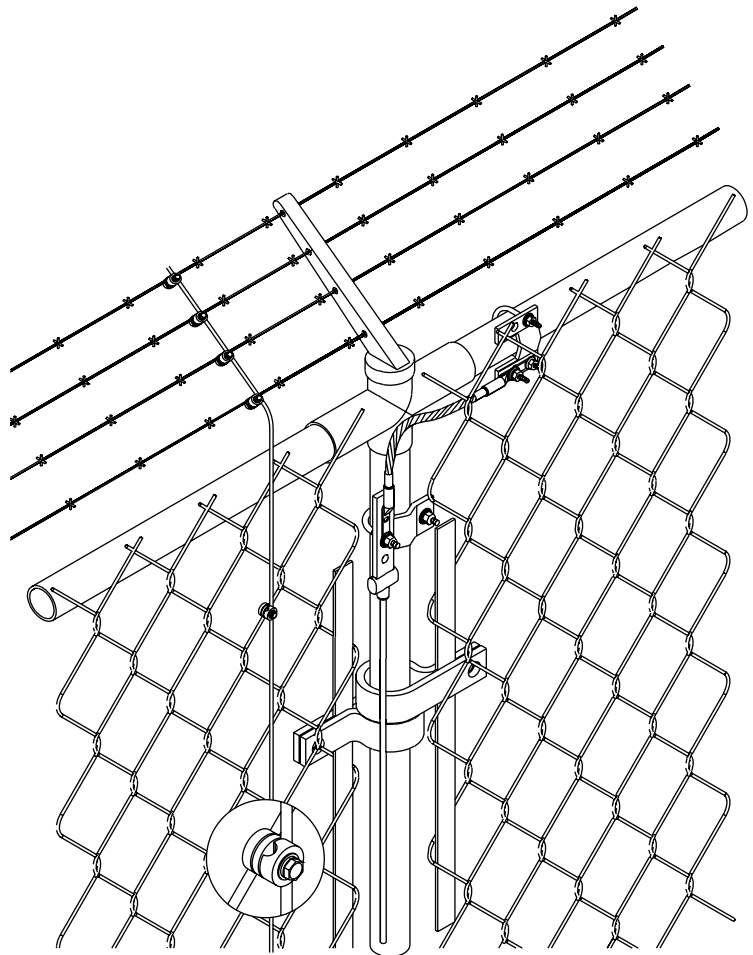
Catalog Number	Conductor Size	Box Qty
38-6354-00	#2	25
38-6354-01	#2 - 4/0	10

- 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

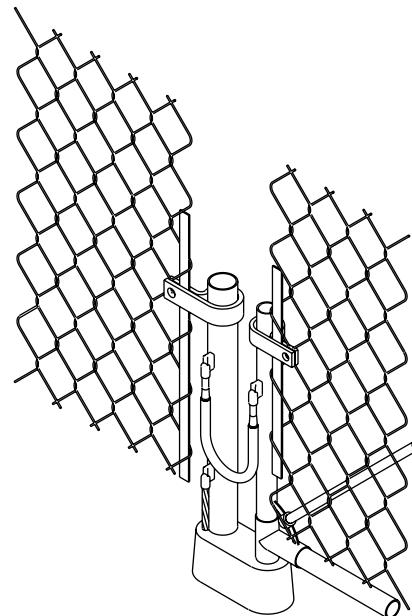
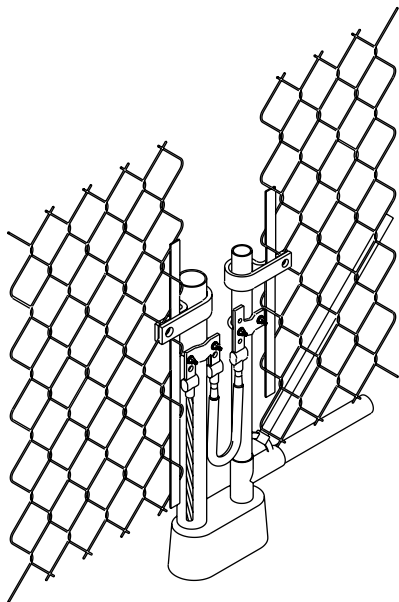
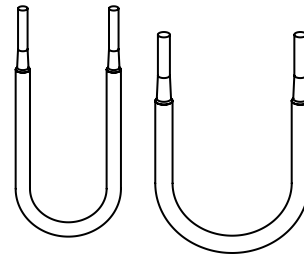
Fence grounding systems are designed to provide protection against dangerous "touch" potentials. The fence fabric ground clamp is an integral component of this personnel safety system.



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

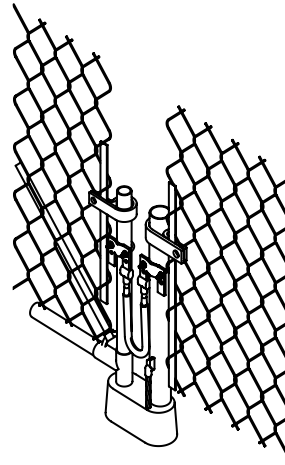
(P.S.) = ADD PIPE SIZE

(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

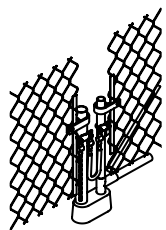
B = 12"
 C = 18"
 D = 24"
 E = 36"
 F = 48"

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.

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-†±	#2 W/C	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-†±		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-†±	#2 W/C	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

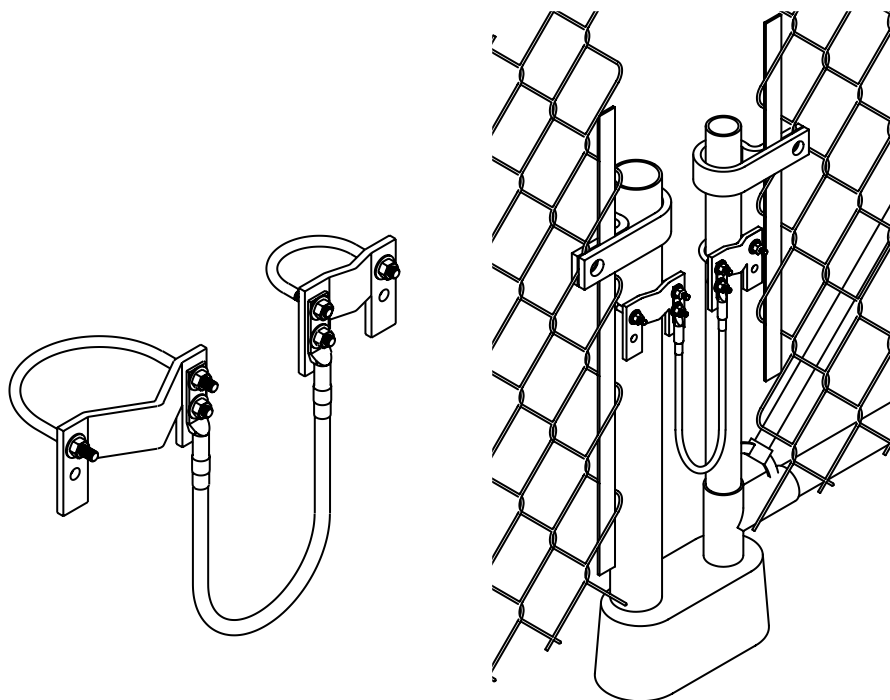
Chart B (±)

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"

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.

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.

TROUBLING SHOOTING TIPS

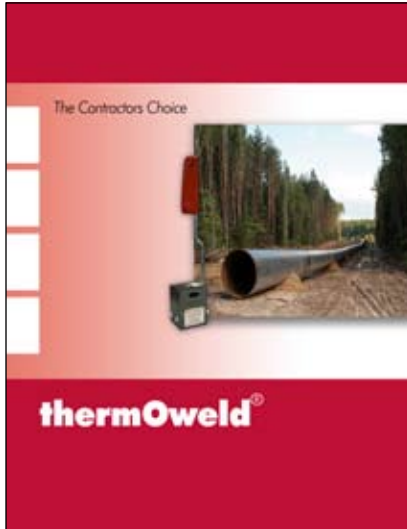
PROBLEM	PROBABLE CAUSE	CORRECTION TO MAKE
Insufficient metal to make weld.	Worn mold resulting in leaking weld metal.	Replace mold or if only worn around conductor opening, use duct seal around conductor. Do not get duct seal into mold cavity.
	Wrong size cartridge for mold.	Check ID plate for mold and compare with number on bottom of cartridge.
	Too much spillage when dumping powder.	Carefully open lid while holding over crucible and dump.
	Wrong mold for conductor being used.	Replace with correct mold. In some applications, shim stock or adapter sleeves can be used to enlarge cable to fit mold.
Mold does not close tightly causing weld metal to leak out.	Handle clamps not properly adjusted.	Remove set screw between the handles of the mold and adjust handle tension by backing out the eye bolt.
	Dirt or slag stuck in parting line of mold.	Clean mold thoroughly between connections.
	Bent or out-of-round cable.	Straighten or cut out bad section of cable.
Handle clamps will not lock closed.	Handle clamps not properly adjusted.	Remove set screw between the handles of the mold and adjust handle tension by backing out the eye bolt.
Excessively high weld, bubbly or gassy appearance, poor weld.	Moisture in mold.	Pre-heat mold to above 220° F with a propane torch.
	Oil, grease, moisture or foreign material on conductors.	Pre-heat conductors with propane torch then use a clean wire brush on conductor to remove any residue left on conductors. If welding to cast iron or steel surface, weld area must be cleaned down to bright metal.
	Duct seal in weld cavity.	Take special precautions to keep duct seal out of weld cavity.
	Weld powder has gotten wet.	Replace with fresh, dry weld powder.
Weld metal blows out top of mold.	Mold worn or chipped around disc seal allowing powder to leak into mold cavity.	Replace mold.
	Forgot to use steel disc or did not seat it properly at bottom of crucible.	Make sure disc is seated at bottom of crucible before pouring the powder into crucible.

Continued on next page

TROUBLING SHOOTING TIPS

PROBLEM	PROBABLE CAUSE	CORRECTION TO MAKE
Cannot ignite powder.	Insufficient starting powder in ignition pocket on mold lid.	Place at least half of starting powder in ignition pocket of mold lid.
	Flint ignitor not shooting enough spark.	Clean flint ignitor according to directions on box or replace flint ignitor.
	Starting powder lumped together.	Break up starting powder on lid with edge of powder tube.
Mold wearing out to fast.	Improper cleaning of mold.	Use mold cleaner, soft natural bristle brush or clean rag to clean mold between shots. Do not use wire brush or screwdriver on molds.
	Bent or out of round cable causes chipping and premature wear of the mold.	Use caution when closing mold. Do not force mold shut around bent, twisted or out of round conductors.
Poor weld to ground rod.	Weight of mold not supported during reaction causing mold to slip when cable melts.	Use locking pliers on ground rod under mold to support the weight of the mold during the reaction.
	Moisture or contaminant on cable or ground rod.	Pre-heat conductors with propane torch then use a clean wire brush on conductors to remove any residue left on conductors.
Weld will not stick to steel surface.	Improperly cleaned area on steel.	An area larger than the weld area should be cleaned down to bright clean metal.
	Moisture or contaminant on cable or steel surface.	Pre-heat conductors with propane torch then use a clean wire brush on conductors to remove any residue left on conductors.
	Cable is improperly positioned in mold, blocking the flow of weld metal.	Position cable in mold in accordance with directions for mold. If directions are not available, position top of cable in the center of where the liquid weld metal hits the steel.
Weld will not stick to cast iron surface.	All of the causes listed under welding to steel surface also apply to this section.	
	Not using CI (Cast Iron) powder.	Specify "CI" behind cartridge when order powder (i.e. 25 CI).
Cable pulls out of mold when it is fired.	Cables are either twisted or under tension.	Use 38-0330-00 cable clamp or other method to remove tension. Cut out severely twisted cable.

OTHER CATALOGS



CATHODIC PROTECTION CATALOG

thermOweld® has been providing high quality exothermic products to Electric, Utility, Telecom, Cathodic, and Rail Markets since 1958.

thermOweld® services the Cathodic market domestically and internationally through Corrosion Distributors. This is an all-encompassing field that includes Oil and Gas Transmission pipeline, Water Tanks, Bridges, Marine structures as well as many other cathodic protection needs.

Regardless of the requirements, thermOweld® provides a long list of products for your Cathodic needs. thermOweld® has the best mold design engineer in the industry, as well as the quickest lead-time in the industry. We offer a variety of exothermic products and accessories listed in our Catalog.

thermOweld® is also quickly becoming recognized in the industry for not only providing Great Customer Service but being engaged in Problem Solving, Providing Fast Response Time and Effective Solutions. We now offer a "Same Day Service" (SDS) to allow us to respond to your needs quicker. Contact your Inside Sales person to learn more about all of our products and services!



RAIL PRODUCTS CATALOG

Regardless of the requirements, thermOweld® can provide the exothermic products to connect and bond a wide range of cable sizes to a variety of rail types. thermOweld® has the best mold design engineering in the industry, as well as the quickest lead time in the industry. We now offer "Same Day Service" (SDS) to allow us to respond to your needs quicker. We have a wide variety of Rail products and accessories listed in our Rail Catalog.

Contact your Inside Sales person to learn about all of our products and services!

www.thermoweld.com



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