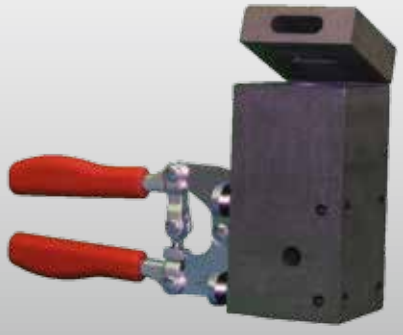
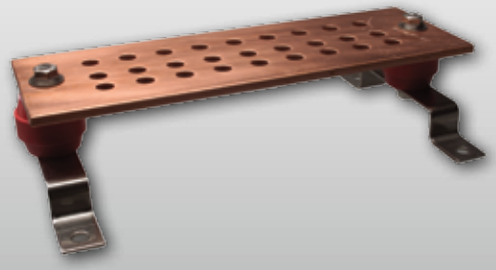
thermOweld®
World Master Catalog









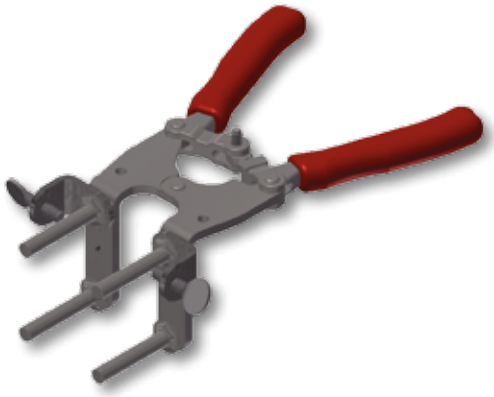

GROUNDING | LIGHTNING PROTECTION | CATHODIC PROTECTION | ENERGY

BURNDY | Connecting Power to Your World™ | HUBBELL

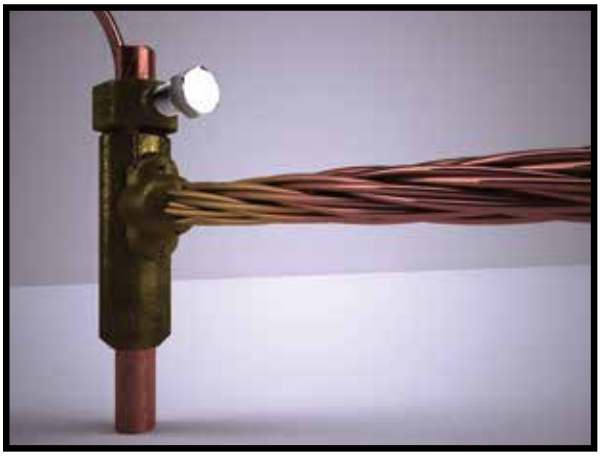
NEW & IMPROVED PRODUCTS FROM THERMOWELD



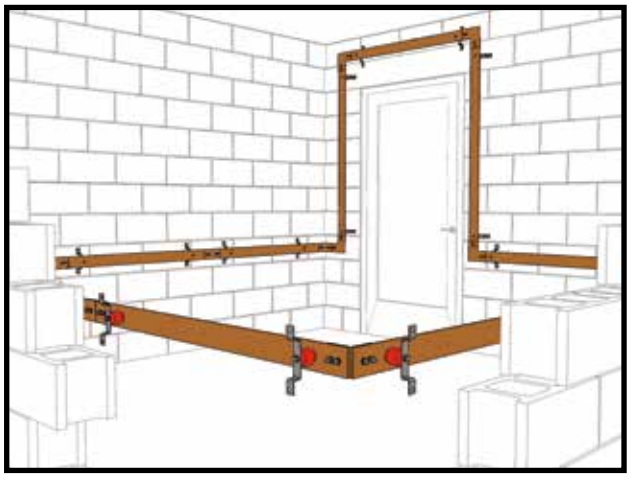
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thermOweld®

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Due to our continuous improvement efforts, all thermOweld® products and specifications are subject to change without notice.
NOTE: thermOweld, EZ Lite, EZ Lite Remote, Contact GM, SDS, Ci thermOcap & QuikTap are registered trademarks of Continental Industries.

Tools to help you be successful with thermOweld®

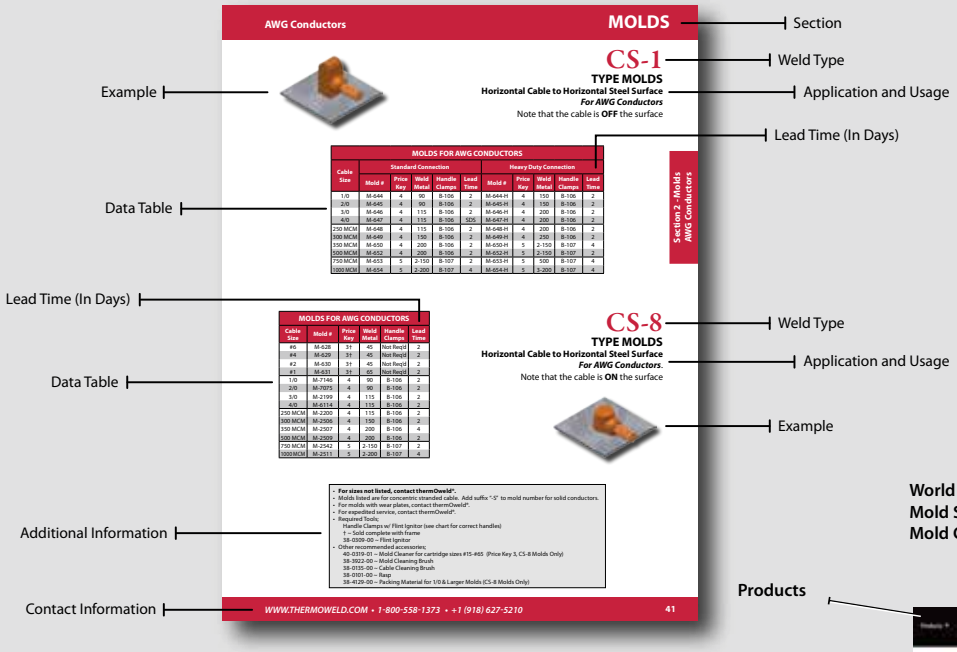
Here is your new thermOweld® Master Catalog, our largest-ever reference source for the world's premier line of grounding products! We are constantly developing new products and you can expect more from thermOweld® in the near future, as we strive to provide you with the best and easiest-to-apply grounding products in the industry.

Today, we provide superior quality thermOweld® products in more than 55 countries worldwide with the industry's shortest lead times, highest on-time delivery and industry-leading Same Day Service. thermOweld® is part of Continental Industries, Tulsa, Oklahoma, USA. Our company is ISO 9001 Certified with over 50 years of continuous success.

We listen to our customers and we welcome your comments and suggestions to make sure we support you by calling us at 800-558-1373 in North America or +1(918)6275210 International. It's no wonder we are called The Contractor's Choice!

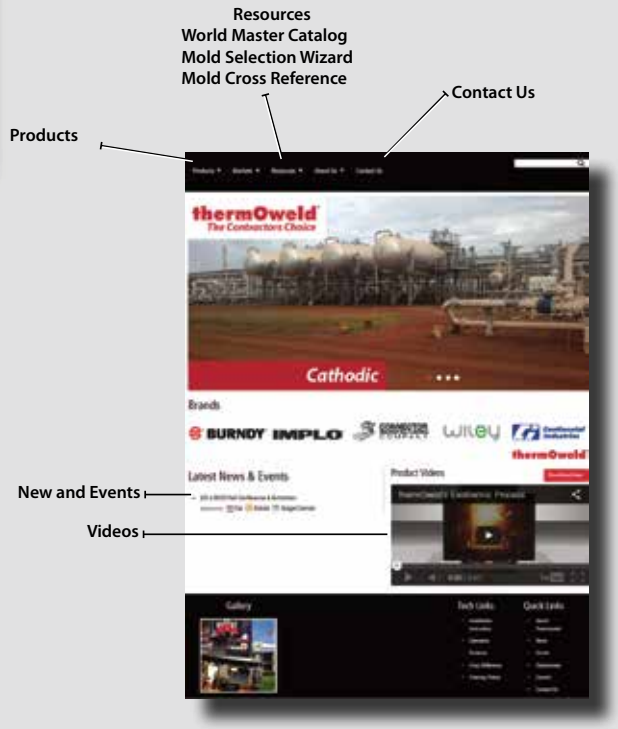
To our customers of many years, we thank you for your loyalty and for honoring us with your business. Without you, we would not be the successful company thermOweld® is today. If you are new with us, we will work hard to welcome you and trust that you too will experience the thermOweld® difference in products, service and people.

From all the good people of thermOweld®, we thank you for specifying, buying and installing with us!



How to use our Catalog

Our catalog is designed and arranged in a way to make it easier to find similar products with different application uses. Please refer to the diagram for a brief tutorial.

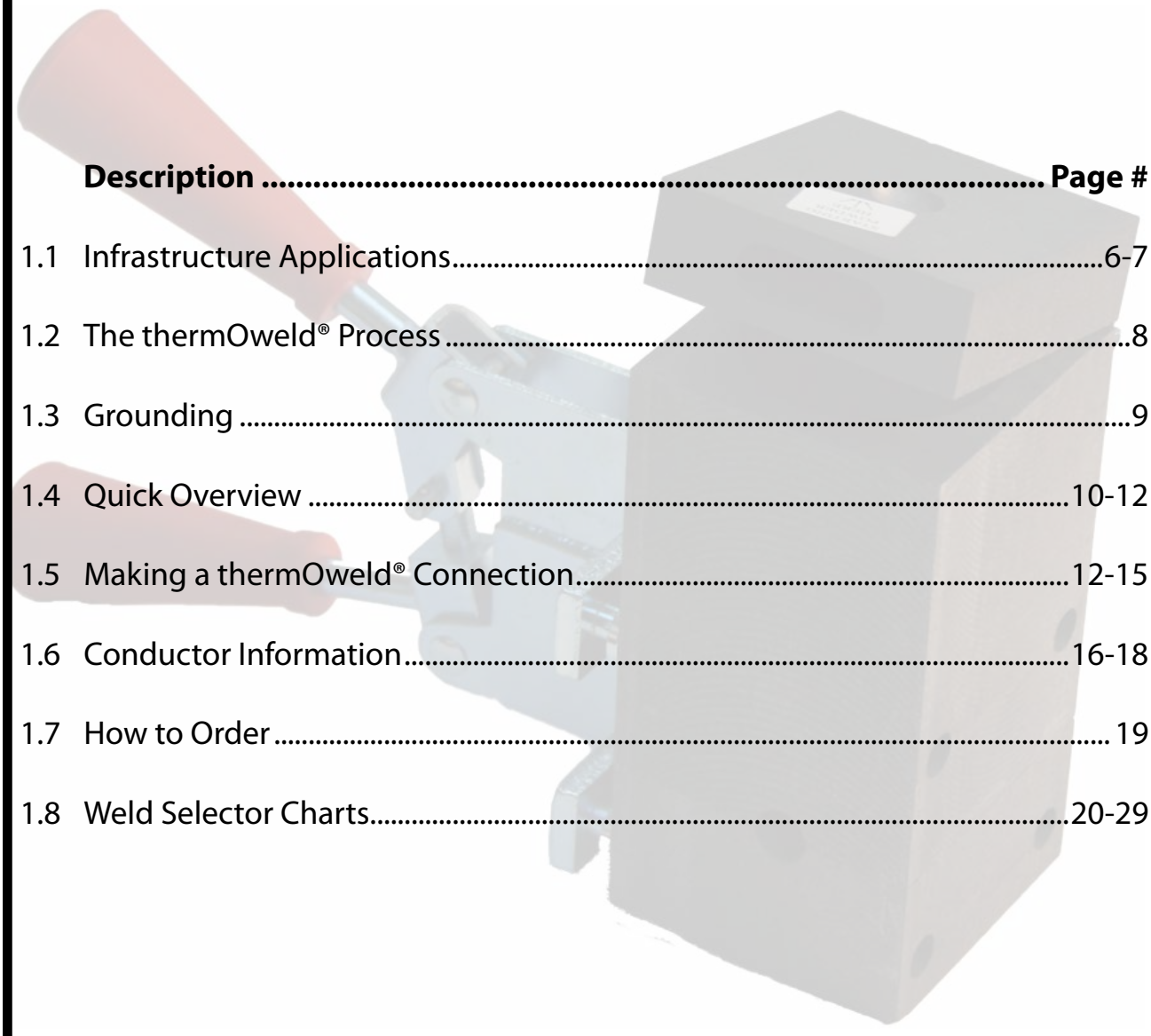


How to use our Website

Our website has been designed with our customers in mind. Like our catalog, it is arranged to make it easier to find the products you need. Please refer to the diagram for a brief tutorial. You can scan this QR-Code with your smart phone to be directed to our website.

Section 1

Technical Information



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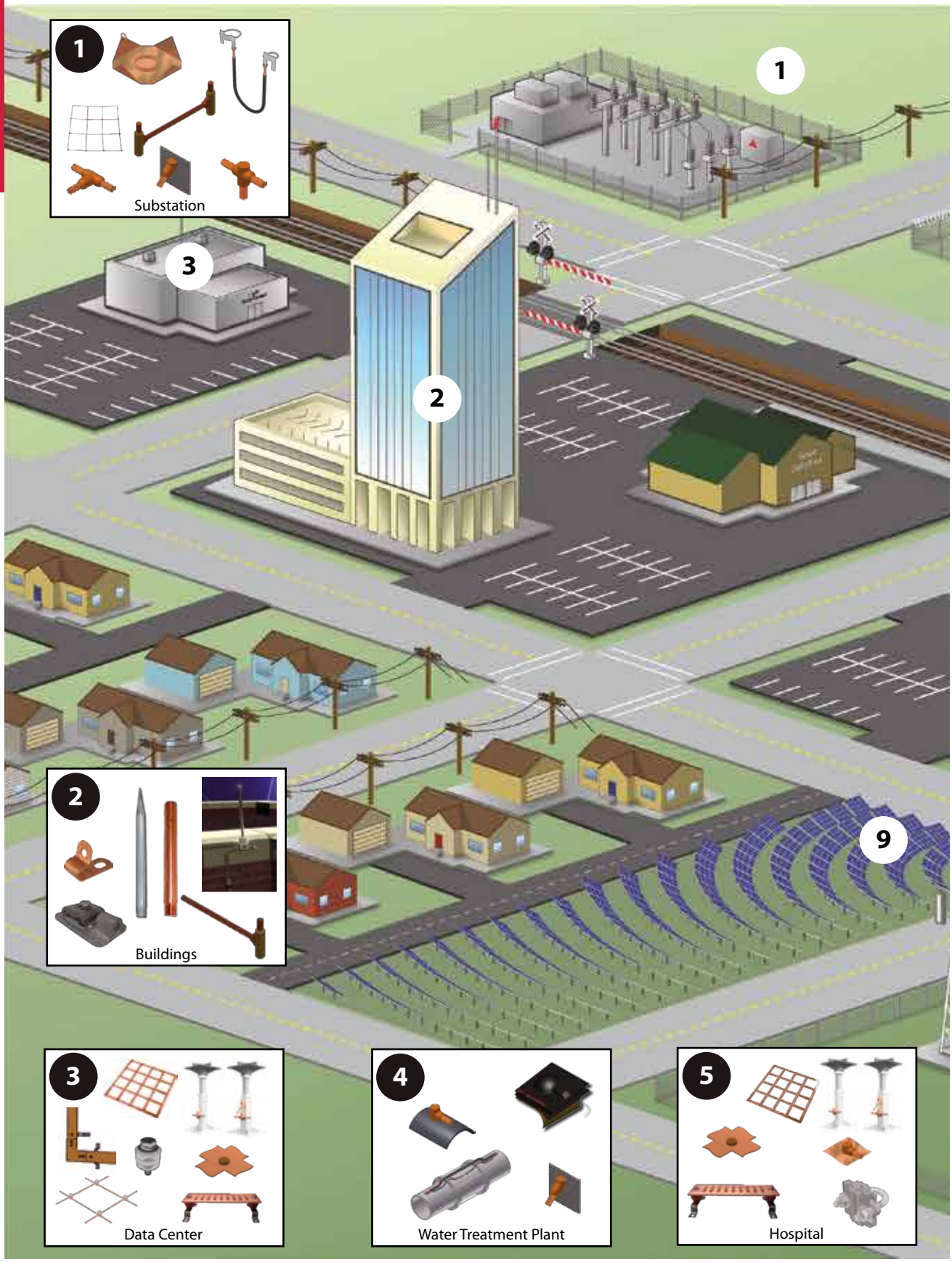
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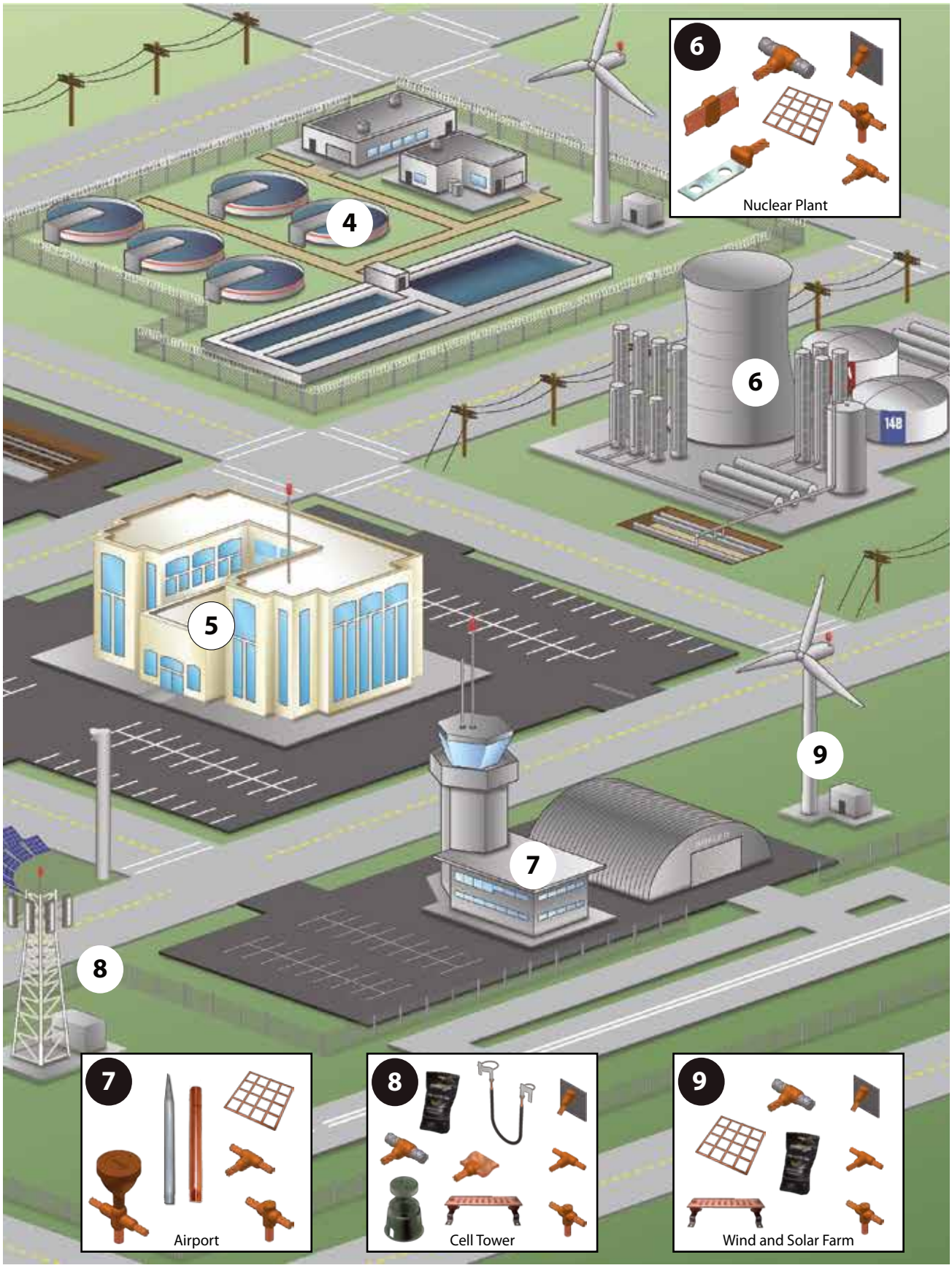
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thermOweld® Infrastructure Applications



thermOweld® Infrastructure Applications

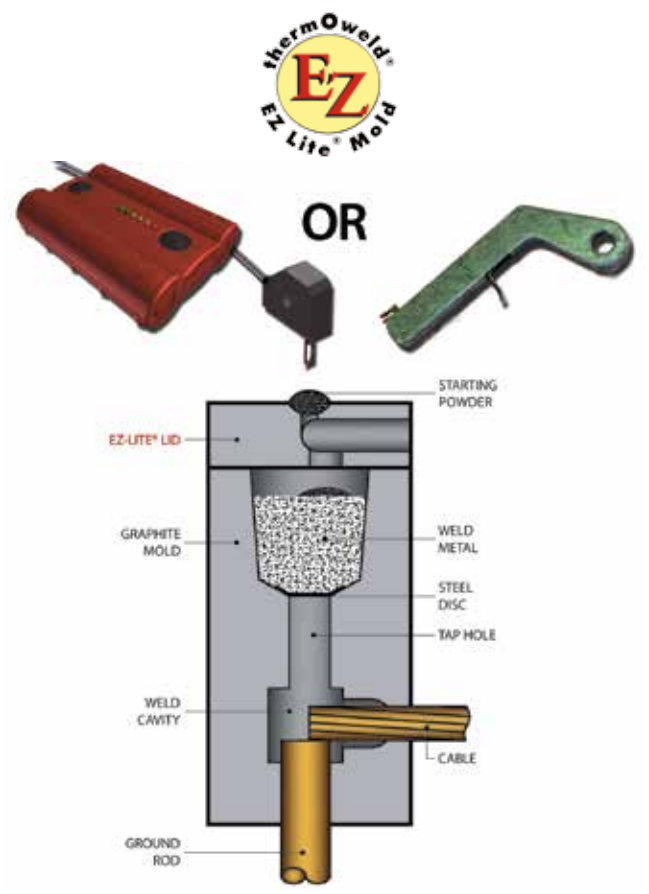


The thermOweld® Process

The thermOweld® permanent-connection process has been engineered to be an easy and efficient field welding system. No outside power, bulky gas tanks or other equipment associated with welding are required with the thermOweld® system. Any field installer or contractor can use our high-grade graphite molds designed and produced in thermOweld's world-class volume CNC manufacturing operations.

Incorporating our EZ Lite® mold lid (see page 10), ignition is done safely from the top of the mold with limited exhaust emanating from the side vent. This innovation from thermOweld®, combined with other unique features, make even tight field installations possible. For indoor connections where desired, thermOweld® offers low-emissions molds as well. Contractors worldwide demand thermOweld® for ease of use and the safest operation.

Using thermOweld's superior weld metal (see page 132), a high-temperature reaction between special formulations of copper oxide and aluminum occurs in the mold crucible. Upon reaching critical temperature, the resulting molten copper drops into the weld cavity, instantly creating a high-temperature molecular bond with the conductor. This weld connection cools rapidly and the mold can be removed for the next connection with thermOweld's special off-set handle clamps (page 136). The thermOweld® process creates a superior connection without the excessive applied heat of brazing, arc welding or soldering. This is important especially for welding insulated cables or to thin-wall pipe.



The thermOweld® process creates a permanent, homogenous and molecular bond that cannot loosen or corrode. Compared to compression connectors, split bolts, crimp connectors, brazing and other connections, the thermOweld® connection is clearly superior. In fact, a thermOweld® connection will also withstand more current than the conductor itself.

It's easy to see why thermOweld® is The Contractor's Choice worldwide!

The thermOweld® process has been used to weld materials other than copper for electrical purposes, including:

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

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

Standards Relating to thermOweld Designs of Earthing, Grounding and Lightning Protection

Standards	Country	Description
IEEE: 80-1986	USA, Australia, Asia, Europe, Latin America	Guide for Safety in AC Substation Grounding
IEEE: 837	USA, Australia, Asia, Latin America	Standard for Qualifying Permanent Connections used in Substation Grounding
IEEE: 81-1983	USA, Australia, Asia	Guide for Measuring Earth Resistivity, Ground Impedance and Earth Surface Potential of a Ground System
IEEE: 998-1996	USA, Australia, Asia	Guide for Direct Lightning Strike Shielding of Substations
UL-96	USA	Lightning Protection Components
UL 467	USA, Australia, Asia	Grounding and Bonding Equipment
NFPA 780	USA, Australia, Asia	Lightning Protection
NEC-250	USA, Canada	Grounding and Bonding National Electrical Code
TIA-607-B -2	Global	Telecom Grounding Bars and Products
IEC/TS 60479-1	Europe, Brazil	Effects of Current passing through human beings & livestock
EN62305-3: 2011	Europe	Protection against Lightning, Physical damage to structure and life hazard
ANCE NMX-J-549-2005	Latin America	Lightning Protection

WHY IS GOOD GROUNDING IMPORTANT?

Good grounding (earthing) starts with a robust, durable, low-resistance connection between the earth and electrical equipment or electrical circuit ground. This necessary low-resistance connection insures the proper ground path for personnel safety and the proper functioning of electrical and electronic devices. Whether to present a good reference ground, direct a faulty circuit's potential to ground, or to dissipate an electrical surge or lightning strike, a uniform ground with the earth is essential in today's infrastructure.

Many factors, including soil resistivity, installation accessibility, layout and surrounding physical features must be taken into consideration when establishing a superior grounding system. On this page we highlight some key areas to consider in your grounding system and remind you that all electrical systems must be built in accordance with applicable codes and standards for your area.

GROUNDING PRINCIPLES

Low impedance is the key. All grounding connections should be as short and direct as possible to minimize inductance and reduce peak voltages induced in the connections. The ground electrode system must efficiently couple the ground by maximizing capacitive coupling to the soil. The resistance of the ground itself must also be minimized.

GROUND IMPEDANCE

Soil resistivity is an important design consideration. It varies markedly for different soil types, moisture content and temperatures and gives rise to variations in ground impedances.

SHORT, DIRECT GROUND CONNECTIONS

The voltage generated, especially by a lightning surge depends primarily on the rise time of the surge current and the impedance (primarily inductance of the path to ground). Extremely fast rise times result in significant voltage rises due to any series inductance resulting from long, indirect paths, or sharp bends in the routing of ground conductors.

COUPLING FROM THE ELECTRODE SYSTEM TO THE GROUND

The efficiency of a ground electrode system is dependent on a number of factors, including the geometry of the ground electrode system, the shape of the conductors and the effective coupling into the soil.

CHARACTERISTICS OF A GOOD GROUNDING SYSTEM

- Good electrical conductivity
- Conductors capable of withstanding high fault currents
- Long life - at least 40 years
- Low ground resistance and impedance

  The basic philosophy of any grounding installation should be an attempt to maximize the surface area of electrodes or conductors with the surrounding soil. Not only does this help to lower the earth resistance of the grounding system, but it also greatly improves the impedance of the grounding system under lightning surge conditions.

- Equipotential bonding

  Equipotential bonding helps ensure that hazardous potential differences do not occur between different incoming conductors such as metallic water services, power systems, telecommunications systems and the local ground, and also minimizes step and touch potentials.

- Good corrosion resistance

  The ground electrode system should be corrosion resistant, and compatible with other conductors that are buried and bonded to the ground system. Copper is by far the most common material used for grounding conductors. In general, some form of maintenance or inspection procedure should be adopted to ensure the long-term effectiveness of a grounding system.

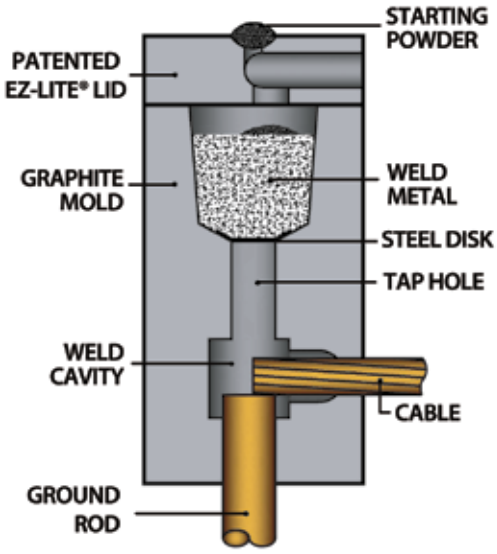
- Electrically and mechanically robust and reliable

  Mechanical coupling can be used to join ground conductors, but suffers from corrosion effects when dissimilar metals are involved. As well as mechanical strength, thermOweld® connections provide excellent low impedance, long life electrical connections with excellent corrosion resistance.

TECHNICAL INFORMATION

thermOweld® EXOTHERMIC MOLDS

thermOweld® is a process of welding copper to copper, copper to steel and copper to ductile iron. The exothermic reaction takes place in a semi-permanent graphite mold with a special formula of copper oxide and aluminum.



thermOweld® connections are solid copper molecular bonds that do not loosen or corrode throughout the life of the host structure. These bonds are the superior connection method for the most reliable and highest longevity of grounding, lightning protection, cathodic protection and other critical infrastructure systems.

Standard Molds – thermOweld® standard molds are given in the tables on the pages in this catalog and are used with new clean AWG and Metric wire and cable. A standard mold is not for use in "heavy-duty" applications; see Heavy Duty Molds.

Heavy Duty Molds – thermOweld® heavy-duty molds are given in the tables on the pages in this catalog (with an H suffix) and are employed for use with reused or reclaimed and heavily oxidized AWG and Metric wire and cable. In these cases a "heavy-duty" mold is recommended as it accepts this larger wire diameter and utilizes a larger weld metal cartridge size. The resulting connection is larger than a standard mold connection. Note that the grounding engineer may determine that the calculated theoretical ground fault current level may be abnormally high and therefore would prefer the larger mass of a heavy-duty mold connection.

thermOweld® has designed and produced over 15,000 unique molds to meet application needs worldwide. We have solved many applications with unique and customized molds, utilizing our CAD engineering and specialized CNC machining capabilities. If you don't see what you need in this comprehensive catalog, contact us. We are ready to support you quickly!

SINGLE SHOTS

thermOweld® single shot molds are an economical way to make cable connections onto the top of a ground rod or rebar. The single shot is a disposable single use ceramic mold that comes complete with everything required except the flint ignitor. This innovative process eliminates the need for a mold, handle clamps, and frames.



SUPERIOR 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. Shrink wrapping ensures the weld metal will arrive in good condition, always dry, and ready for a positive ignition every time.

All weld metal is eligible for thermOweld's SDS (Same Day Service) shipment. Our SDS program is just like having it on your shelf.



GROUNDING & LIGHTNING PROTECTION PRODUCTS

Regardless of the requirements, thermOweld® provides a long list of products for your grounding needs. thermOweld® has the quickest lead-time in the industry. You may be surprised by what you find in this catalog to solve your grounding needs!



thermOweld® LOW EMISSIONS SYSTEM

thermOweld®'s Low Emission System reduces the emissions given off by our standard flint ignitor welding system. Our EZ Lite Remote® Electric Ignition System is another alternative to reduce exposure.

This system is designed with a special mold that utilizes a graphite felt filter (included in the weld metal package) in the lid of the mold; the emissions pass through and in turn create a semi closed system. Our Low Emission System uses our EZ Lite Remote® (see page 131) for ignition and our high quality thermOweld® weld powder less the standard starting powder. With all of these components, most of the visible smoke from the reacting weld powder is eliminated.

This system is currently available in all of thermOweld®'s standard configurations that use 200 gram or smaller cartridges. ***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. The EZ Lite Remote®' is our standard remote for this application.

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.

The Molecular Bond

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 insure the following:

- 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.
- thermOweld® connections will not loosen or corrode at the point of weld. There are no contact surfaces or mechanical pressures involved.
- thermOweld® connections have a current-carrying capacity equal to or greater than that of the conductors.

The EZ Lite® Mold

- Makes all thermOweld® molds EZ to ignite.
- Lights from the top at any angle.
- Reduces emissions by 50% or more.
- Reduces splatter.
- Keeps the handle clamps clean and prolongs life.
- Added Safety - The EZ Lite® Lid points the exhaust away from the user.

INSTALLATION IS EASY!

Making a thermOweld® Connection



Position cleaned conductors in mold.



Place metal disc in bottom of mold crucible.



Pour powder into crucible.



Place a small amount of starting powder in the ignition pocket.



Ignite the starting powder with the Flint Ignitor.



Remove weld and clean mold before making next connection.

Visit www.thermOweld.com for training videos

INSTALLATION IS EASY!

Making a thermOweld® Connection using the EZ Lite Remote® Electric Start System



Position cleaned conductors in mold.



Place metal disc in bottom of mold crucible.



Pour powder into crucible.



Insert the EZ Lite® Ignitor in the connector.



Insert the EZ Lite® Ignitor in the top opening of the EZ Lite® Lid.



Turn the power button to the "ON" position.



Press the "Operate" button until the exothermic reaction is initiated.



Remove weld and clean mold before making next connection.

thermOweld's EZ Lite Remote® is the latest technological advance for thermOweld® exothermic products and the entire industry! For over 50 years, thermOweld® has been developing and inventing products and practical solutions that have become "The Contractor's Choice" worldwide.

With our patent-pending EZ Lite Remote®, the contractor, installer and distributor has versatility and ease-of-use in hand.

You can use your existing thermOweld® EZ Lite® molds and weld metal that you already have in your truck, the jobsite or on your shelf!

Visit www.thermOweld.com for training videos or scan the QR Code at the top of this page.

PIPE AND PLATE INSTALLATIONS ARE EASY!

Making a thermOweld® Cable to Steel or Cast Iron Connection



Clean pipe before making weld.



Position conductor and mold onto pipe.



Place metal disc in bottom of mold.



Pour weld metal into mold.



Close lid and place starting powder on top. Ignite starting powder with Flint Ignitor.



Remove and clean mold before making next connection.

Visit www.thermOweld.com for training videos

INSTALLATION IS EASY!

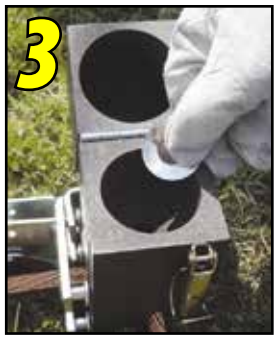
Making a thermOweld® Low Emission Connection using the EZ Lite Remote® Electric Start System



Position cleaned conductors in mold.



Place filter pad into lid.



Place metal disc in bottom of mold crucible.



Pour powder into crucible.



Insert the EZ Lite® Ignitor in the connector.



Place EZ Lite® Ignitor on the side of the mold and place gasket on top of ignitor.



Close lid and secure with latch.



Turn the power button to the "ON" position.



Press the "Operate" button until the exothermic reaction is initiated.



Remove weld and clean mold before making next connection.

Visit www.thermOweld.com for training videos

TECHNICAL INFORMATION

CONDUCTOR IDENTIFICATION

Bare Class A, B, and C, Concentric Conductor
Based on ASTM Standard Specifications

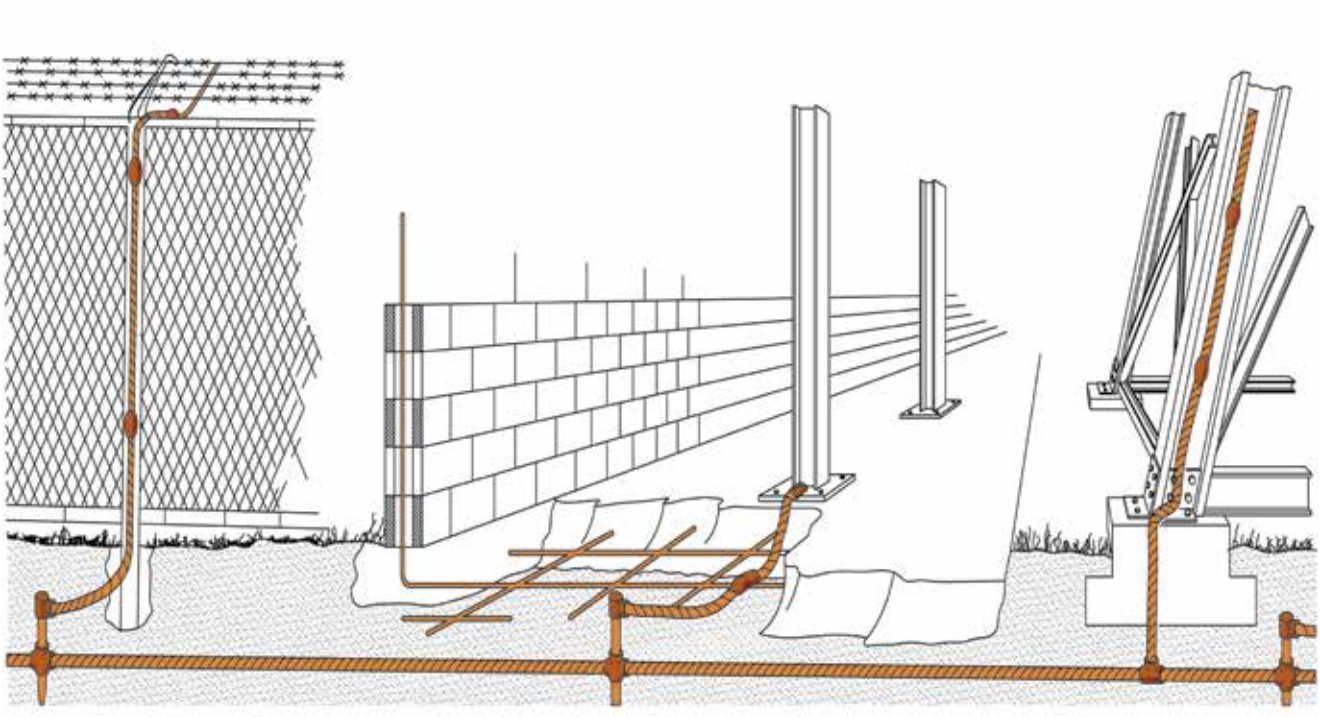
Size AWG	Size in Circular Mils	Conductor Diameter	Number of wires				
			7	19	37	61	91
1000	1,000,000	1.152″			.1644*	.1280	.1048
800	800,000	1.031″			.1470*	.1145	.0938
750	750,000	.998″			.1424*	.1109	.0908
700	700,000	.964″			.1375*	.1071	.0877
600	600,000	.893″			.1273	.0992	.0812
500	500,000	.813″		.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 ASTM
Standard Specifications

Size AWG	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.

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

CONCRETE REINFORCING BARS

US Imperial Sizes (Nominal Dimensions)

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

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

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

COPPER-CLAD STEEL CONDUCTORS

Cable Stranding	Conductor Diameter	Size in Circular Mils
3/#10 CW	.220"	31,150
3/#9 CW	.247"	38,280
3/#8 CW	.277"	49,530
7/#10 CW	.306"	72,680
3/#7 CW	.311"	78,750
7/#9 CW	.343"	91,650
3/#6 CW	.349"	99,310
7/#8 CW	.385"	115,600
3/#5 CW	.392"	99,310
7/#7 CW	.433"	145,700
7/#6 CW	.486"	183,800
7/#5 CW	.546"	231,700
19/#9 CW	.572"	248,800
7/#4 CW	.613"	292,200
19/#8 CW	.642"	313,700
19/#7 CW	.721"	395,500
37/#9 CW	.801"	484,400
19/#6 CW	.810"	498,800
37/#8 CW	.899"	610,900
19/#5 CW	.910"	628,900
37/#7 CW	1.010"	770,300

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

METRIC TO IMPERIAL CABLE CONVERSION CHART

Cross Sectional Area (mm^2)	Conductor Diameter		Size A.W.G.	Conductor Diameter	
	inches	mm		inches	mm
2.0 Concentric	.071	1.8	#14 Concentric	.0726	1.84
3.5 Concentric	.095	2.4	#12 Concentric	.0915	2.3
4 Solid	.0984	2.5	#10 Solid	.102	2.6
6 Solid	.122	3.1	#8 Solid	.128	3.25
5.5 Concentric	.118	3.0	#10 Concentric	.116	2.95
8.0 Concentric	.142	3.6	#8 Concentric	.146	3.7
10 Solid	.150	3.8	#6 Solid	.162	4.1
10 Concentric	.162	4.2	#7 Concentric	.164	4.2
14 Concentric	.189	4.8	#6 Concentric	.184	4.7
16 Solid	.177	4.5	#4 Solid	.204	5.2
16 Concentric	.204	5.2	#5 Concentric	.205	5.2
22 Concentric	.236	6.0	#4 Concentric	.232	5.9
25 Solid	.220	5.6	#3 Solid	.229	5.8
25 Concentric	.260	6.4	#3 Concentric	.260	6.6
30 Concentric	.276	6.9	#2 Concentric	.292	7.4
35 Solid	.264	6.7	#2 Solid	.258	6.6
35 Concentric	.305	7.7	#2 Concentric	.292	7.4
38 Concentric	.315	7.8	#2 Concentric	.292	7.4
40 Concentric	.331	8.4	#1 Concentric	.332	8.4
50 Solid	.315	8.0	1/0 Solid	.325	8.3
50 Concentric	.354	9.0	1/0 Concentric	.373	9.5
55 Concentric	.378	9.6	1/0 Concentric	.373	9.5
60 Concentric	.394	10.0	2/0 Concentric	.419	10.6
70 Solid	.394	10.0	3/0 Solid	.410	10.4
70 Concentric	.430	10.9	2/0 Concentric	.419	10.6
80 Concentric	.453	11.5	3/0 Concentric	.470	12.0
95 Concentric	.505	12.6	4/0 Concentric	.528	13.4
100 Concentric	.512	13.0	4/0 Concentric	.528	13.4
120 Concentric	.567	14.2	250 MCM	.575	14.6
125 Concentric	.571	14.5	250 MCM	.575	14.6
150 Concentric	.634	16.1	300 MCM	.630	16.0
185 Concentric	.700	17.7	350 MCM	.681	17.3
200 Concentric	.717	18.2	400 MCM	.728	18.5
240 Concentric	.801	20.3	500 MCM	.813	20.7
250 Concentric	.815	20.7	500 MCM	.813	20.7
300 Concentric	.891	22.5	600 MCM	.893	22.7
325 Concentric	.922	23.4	700 MCM	.964	24.5
400 Concentric	1.03	26.2	800 MCM	1.031	26.2
500 Concentric	1.13	28.8	1000 MCM	1.152	29.3
600 Concentric	1.26	31.9	1200 MCM	1.263	32.1
625 Concentric	1.29	32.8	1250 MCM	1.289	32.7
725 Concentric	1.39	35.2	1400 MCM	1.364	34.6
800 Concentric	1.45	36.8	1600 MCM	1.459	37.1
850 Concentric	1.48	37.6	1700 MCM	1.506	38.2
1000 Concentric	1.64	41.6	2000 MCM	1.632	41.5

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:**
    a. Know the application to determine what materials are to be welded.
    b. Refer to Selector Chart for correct weld type on pages 20-29.
    c. Find the appropriate Weld Type within the catalog.

    There are pictures of each weld type in the upper corners of the catalog pages for easy reference
2. **Determine the Correct Mold #:**
    a. Determine the Conductor Size or Sizes, Ground Rod Size or surface to be welded.
    b. 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:**
    a. Price Key - Find the price of the mold by crossing it on the thermOweld® price lists.
    b. Weld Metal (size) needed to make weld.
    c. Handle Clamps required for the mold.
    d. Packing Materials (if needed).
    e. 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 for the connection.
3) Handle Clamps or frame.
4) Flint Ignitor or EZ Lite Remote®- (Low emission molds require the use of the EZ Lite Remote®).
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 4:00 pm Central time can ship Same Day)*
- 2 - Ships 2 days following the date the order is placed.
- 4 - Will ship in 4 days ARO *(Design molds will take up to 4 days to ship after receipt of order.)*



Call Today Ship Today!

SELECTOR CHART

NOTE: **Highlighted** weld types may be found in this catalog. Contact thermOweld® for more information about these and other weld types not listed.

CABLE TO CABLE CONNECTIONS



CC-1
SPLICE / HORIZONTAL
Pages: 33, 85, 105, 217



CC-12
SPLICE / HORIZONTAL
3/4" TO 5" CLEARANCE BEHIND CABLE



CC-2
TEE / HORIZONTAL
Pages: 34, 35, 86, 87, 88, 106, 218



CC-3
TEE / VERTICAL
TAP DOWN



CC-4
CROSS (X) / HORIZONTAL
TAP CABLE CUT
Pages: 36, 37, 89, 107, 219



CC-5
SPLICE / VERTICAL



CC-6
PARALLEL TAP / HORIZONTAL (STACKED)
Pages: 38, 85, 220



CC-7
PARALLEL / HORIZONTAL
RUN & TAP (STACKED)
Pages: 39, 90, 221



CC-8
HORIZONTAL / WYE (Y)
LEFT HAND MOLD



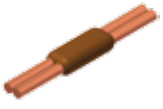
CC-9
HORIZONTAL / WYE (Y)
RIGHT HAND MOLD



CC-11
CROSS (X) / HORIZONTAL
(UNCUT)
Pages: 41, 91, 220



CC-13
PARALLEL TAP / HORIZONTAL
(SIDE-BY-SIDE)



CC-14
PARALLEL / HORIZONTAL
RUN & TAP (SIDE-BY-SIDE)
Pages: 33, 198, 217



CC-15
HORIZONTAL / WYE (Y)
LEFT HAND MOLD
3/4" TO 5" CLEARANCE BEHIND CABLE



CC-16
HORIZONTAL / WYE (Y)
RIGHT HAND MOLD
3/4" TO 5" CLEARANCE BEHIND CABLE



CC-17
VERTICAL / WYE (Y) TAP UP



CC-18
VERTICAL / WYE (Y)
TAP DOWN



CC-19
HORIZONTAL / WYE (Y)
TAP UP



CC-20
HORIZONTAL / WYE (Y)
TAP DOWN



CC-21
CROSS (X) / HORIZONTAL
TAP CABLE CUT



CC-22
CROSS (X) / VERTICAL
TAP CABLE CUT



CC-23
CROSS (X) / VERTICAL
(UNCUT)



CC-24
TEE / HORIZONTAL TAP



CC-25
TEE / VERTICAL TAP UP



CC-26
ELL / HORIZONTAL



CC-27
ELL / TAP DOWN



CC-28
ELL / TAP UP



CC-31
PARALLEL / VERTICAL
TAP UP (SIDE-BY-SIDE)

CC-32
PARALLEL / VERTICAL
TAP UP (SIDE-BY-SIDE)
3/4" TO 5" CLEARANCE BEHIND CABLE



CC-33
PARALLEL / VERTICAL
TAP DOWN (SIDE-BY-SIDE)



CC-34
PARALLEL / VERTICAL
RUN & TAP (SIDE-BY-SIDE)
Page: 40



CC-29
DEAD END / HORIZONTAL
(STACKED)



CC-30
DEAD END / HORIZONTAL
(SIDE-BY-SIDE)



CC-35
DEAD END / VERTICAL
(SIDE-BY-SIDE)



CC-36
DEAD END / VERTICAL
(SIDE-BY-SIDE)



CC-37
SPLICE / HORIZONTAL
MULTIPLE TAPS
(SIDE-BY-SIDE)



CC-38
SPLICE / VERTICAL
MULTIPLE TAPS UP
(SIDE-BY-SIDE)



CC-39
SPLICE / VERTICAL
MULTIPLE TAPS DOWN
(SIDE-BY-SIDE)



CC-40
TEE / HORIZONTAL
TWO OR MORE TAP CABLES



CC-41
TEE / HORIZONTAL
TWO OR MORE RUN CABLES



CC-42
TEE / HORIZONTAL
TWO OR MORE RUN CABLES
TWO OR MORE TAP CABLES

CC-43
TEE / HORIZONTAL
TWO OR MORE RUN CABLES
TWO OR MORE TAP CABLES
3/4" TO 5" CLEARANCE BEHIND CABLE

CC-44
TEE / VERTICAL
TWO OR MORE RUN CABLES
TWO OR MORE TAP CABLES

CC-45
TEE / VERTICAL
TWO OR MORE RUN CABLES
TWO OR MORE TAP CABLES

CC-46
CROSS (X) / HORIZONTAL
TWO OR MORE RUN CABLES
TWO OR MORE TAP CABLES

CC-47
TEE / HORIZONTAL
TWO OR MORE RUN CABLES

CC-48
PARALLEL/HORIZONTAL
RUN & TAP (SIDE BY SIDE)

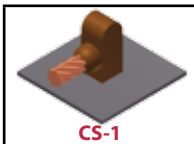
CC-49
PARALLEL/HORIZONTAL
RUN & TAP (SIDE BY SIDE)

CC-50
TEE / VERTICAL
TWO OR MORE RUN CABLES

SELECTOR CHART

NOTE: **Higlighted** weld types may be found in this catalog. Contact thermOweld® for more information about these and other weld types not listed.

CABLE TO STEEL OR CAST IRON CONNECTIONS



CS-1
HORIZONTAL CABLE
HORIZONTAL STEEL
CABLE **OFF** SURFACE
Pages: 53, 95, 113, 227



CS-2
HORIZONTAL CABLE THRU
HORIZONTAL STEEL
CABLE **OFF** SURFACE
Pages: 54, 96, 114, 228



CS-42
HORIZONTAL CABLE THRU
HORIZONTAL CAST IRON
CABLE **OFF** SURFACE



CS-3
VERTICAL CABLE 45° DOWN
VERTICAL STEEL
CABLE **OFF** SURFACE



CS-3
VERTICAL CABLE 45° DOWN
VERTICAL STEEL PIPE
CABLE **OFF** SURFACE
Pages: 55, 56, 97, 115, 212, 229



CS-28
VERTICAL CABLE 45° DOWN
VERTICAL CAST IRON
CABLE **OFF** SURFACE



CS-22
HORIZONTAL CABLE
VERTICAL STEEL



CS-4
VERTICAL CABLE THRU
VERTICAL STEEL
CABLE **OFF** SURFACE
Pages: 59, 100, 118



CS-46
VERTICAL CABLE THRU
VERTICAL CAST IRON
CABLE **OFF** SURFACE



CS-5
HORIZONTAL CABLE
HORIZONTAL CAST IRON
CABLE **ON** SURFACE
Page: 59



CS-8
HORIZONTAL CABLE
HORIZONTAL STEEL
CABLE **ON** SURFACE
Pages: 53, 95, 113, 227



CS-6
HORIZONTAL CABLE THRU
VERTICAL STEEL
CABLE **OFF** SURFACE
Pages: 60, 98, 117



CS-43
HORIZONTAL CABLE THRU
VERTICAL CAST IRON
CABLE **OFF** SURFACE



CS-7
VERTICAL CABLE UP
VERTICAL STEEL
CABLE **ON** SURFACE
Pages: 61, 99, 118, 230



CS-30
VERTICAL CABLE UP
VERTICAL CAST IRON
CABLE **ON** SURFACE



CS-9
HORIZONTAL CABLE THRU
HORIZONTAL STEEL
CABLE **ON** SURFACE
Pages: 54, 96, 114, 228



CS-11
HORIZONTAL CABLE THRU
HORIZONTAL CAST IRON
CABLE **ON** SURFACE



CS-18
HORIZONTAL CABLE
VERTICAL STEEL
CABLE **ON** SURFACE
SPECIFY RIGHT OR LEFT HAND MOLD
Pages: 60, 100, 116



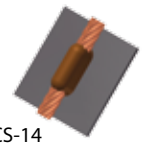
CS-21
HORIZONTAL CABLE
VERTICAL CAST IRON
CABLE **ON** SURFACE
SPECIFY RIGHT OR LEFT HAND MOLD



CS-12
VERTICAL CABLE DOWN
45° STEEL
CABLE **ON** SURFACE



CS-13
HORIZONTAL CABLE
45° STEEL
CABLE **ON** SURFACE



CS-14
VERTICAL CABLE THRU
45° STEEL
CABLE **ON** SURFACE



CS-15
HORIZONTAL CABLE THRU
45° STEEL
CABLE **ON** SURFACE



CS-16
HORIZONTAL CABLE THRU
HORIZONTAL STEEL PIPE
CABLE **OFF** SURFACE



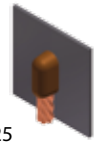
CS-24
VERTICAL CABLE UP
VERTICAL STEEL
CABLE **OFF** SURFACE



CS-23
VERTICAL CABLE DOWN
VERTICAL STEEL CABLE **OFF** SURFACE
Pages: 57, 58, 99, 206, 229



CS-45
VERTICAL CABLE DOWN
VERTICAL CAST IRON
CABLE **OFF** SURFACE



CS-25
VERTICAL CABLE DOWN
VERTICAL STEEL
CABLE **ON** SURFACE



CS-29
VERTICAL CABLE DOWN
VERTICAL CAST IRON
CABLE **ON** SURFACE



CS-26
VERTICAL CABLE THRU
VERTICAL STEEL
CABLE **ON** SURFACE



CS-27
HORIZONTAL CABLE THRU
VERTICAL STEEL
CABLE **ON** SURFACE
Pages: 98, 117, 230



CS-31
HORIZONTAL CABLE
VERTICAL STEEL
CABLE **OFF** SURFACE
SPECIFY RIGHT OR LEFT HAND MOLD



CS-32
FOR CATHODIC PROTECTION
HORIZONTAL CABLE
HORIZONTAL STEEL PIPE
CABLE **ON** SURFACE
Pages: 231, 232



CS-33
FOR CATHODIC PROTECTION
HORIZONTAL CABLE
HORIZONTAL CAST IRON PIPE
CABLE **ON** SURFACE
Pages: 233



CS-34
FOR CATHODIC PROTECTION
HORIZONTAL CABLE THRU
HORIZONTAL STEEL PIPE
CABLE **ON** SURFACE
Pages: 234, 235



CS-35
FOR CATHODIC PROTECTION
HORIZONTAL CABLE THRU
HORIZONTAL CAST IRON PIPE
CABLE **ON** SURFACE
Pages: 236



CS-36
FOR CATHODIC PROTECTION
VERTICAL CABLE 45° DOWN
VERTICAL STEEL PIPE
CABLE **OFF** SURFACE
Pages: 237, 238



CS-37
FOR CATHODIC PROTECTION
VERTICAL CABLE 45° DOWN
VERTICAL CAST IRON PIPE
CABLE **OFF** SURFACE
Pages: 239



CS-38
FOR CATHODIC PROTECTION
VERTICAL CABLE UP
VERTICAL STEEL PIPE
CABLE **ON** SURFACE



CS-39
FOR CATHODIC PROTECTION
VERTICAL CABLE UP
VERTICAL CAST IRON PIPE
CABLE **ON** SURFAC

CS-47
VERTICAL CABLE 45° UP
VERTICAL STEEL
CABLE **OFF** SURFACEE

CS-48
FOR CATHODIC PROTECTION
HORIZONTAL CABLE (FORMED)
HORIZONTAL STEEL PIPE
CABLE **ON** SURFACE

CS-49
FOR CATHODIC PROTECTION
HORIZONTAL CABLE (FORMED)
HORIZONTAL CAST IRON PIPE
CABLE **ON** SURFACE

CS-50
FOR CATHODIC PROTECTION
HORIZONTAL CABLE
VERTICAL STEEL PIPE
CABLE **ON** SURFACE
SPECIFY RIGHT OR LEFT HAND MOLD

CS-51
FOR CATHODIC PROTECTION
HORIZONTAL CABLE
VERTICAL CAST IRON PIPE
CABLE **ON** SURFACE
SPECIFY RIGHT OR LEFT HAND MOLD

CS-52
VERTICAL CABLE
HORIZONTAL STEEL

SELECTOR CHART

NOTE: **Higlighted** weld types may be found in this catalog. Contact thermOweld® for more information about these and other weld types not listed.

BUS BAR TO BUS BAR CONNECTIONS



BB-1
HORIZONTAL SPLICE
BARS ON EDGE
Pages: 71, 247

BB-28
HORIZONTAL SPLICE
BARS ON EDGE
3/4" TO 5" CLEARANCE BEHIND BAR

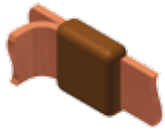


BB-2
ELL / TAP DOWN
Pages: 72, 249



BB-3
VERTICAL TEE / TAP DOWN
BARS LAPPED
Pages: 72, 248

BB-8
VERTICAL TEE / TAP DOWN
BARS LAPPED
3/4" TO 5" CLEARANCE BEHIND BAR



BB-5
PARALLEL / BARS ON EDGE



BB-4
VERTICAL TEE / TAP UP

BB-11
VERTICAL TEE / TAP UP
3/4" TO 5" CLEARANCE BEHIND BAR



BB-6
HORIZONTAL TEE
BARS ON EDGE

BB-16
HORIZONTAL TEE
BARS ON EDGE
3/4" TO 5" CLEARANCE BEHIND BAR



BB-7
HORIZONTAL SPLICE
BARS FLAT
Page: 247



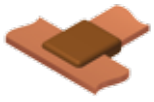
BB-9
VERTICAL TEE / TAP DOWN
MULTIPLE BARS



BB-12
VERTICAL TEE / TAP DOWN



BB-13
HORIZONTAL TEE
BARS ON EDGE
MULTIPLE BARS



BB-14
HORIZONTAL TEE
BARS FLAT
Page: 248



BB-17
VERTICAL TEE
TAP HORIZONTAL



BB-18
VERTICAL TEE
TAP HORIZONTAL
RIGHT HAND
3/4" TO 5" CLEARANCE BEHIND BAR



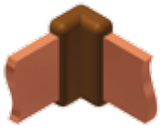
BB-19
VERTICAL TEE
TAP HORIZONTAL
LEFT HAND
3/4" TO 5" CLEARANCE BEHIND BAR



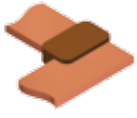
BB-15
HORIZONTAL TEE
BARS FLAT
MULTIPLE BARS



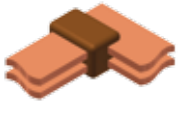
BB-20
VERTICAL ELL / TAP UP



BB-21
HORIZONTAL ELL
BARS ON EDGE



BB-22
HORIZONTAL ELL
BARS FLAT



BB-23
HORIZONTAL ELL
BARS FLAT
MULTIPLE BARS



BB-24
VERTICAL ELL / TAP DOWN
MULTIPLE BARS



BB-25
VERTICAL ELL / TAP UP
MULTIPLE BARS



BB-26
HORIZONTAL ELL
BARS ON EDGE
MULTIPLE BARS



BB-27
VERTICAL SPLICE

BB-29
VERTICAL SPLICE
3/4" TO 5" CLEARANCE BEHIND BAR



BB-30
HORIZONTAL SPLICE
BARS ON EDGE
MULTIPLE BARS



BB-31
HORIZONTAL SPLICE
BARS FLAT
MULTIPLE BARS



BB-32
VERTICAL SPLICE
MULTIPLE BARS



BB-33
VERTICAL ELL / DOWN
BARS FLAT



BB-34
HORIZONTAL SPLICE
BARS FLAT
MULTIPLE BARS



BB-35
HORIZONTAL SPLICE
BARS ON EDGE
MULTIPLE BARS



BB-36
HORIZONTAL SPLICE
BARS FLAT
MULTIPLE BARS



BB-38
VERTICAL SPLICE
MULTIPLE BARS



BB-39
VERTICAL SPLICE
BARS FLAT
MULTIPLE BARS



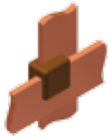
BB-40
HORIZONTAL CROSS
TAP CUT, BARS FLAT
Page: 249



BB-41
HORIZONTAL CROSS
BARS UNCUT, BARS FLAT
Page: 249



BB-42
HORIZONTAL CROSS
TAP CUT
BARS ON EDGE



BB-43
VERTICAL CROSS
BARS UNCUT



BB-44
HORIZONTAL BUTTON WELD
FOR COPPER STRIP ONLY



BB-45
VERTICAL BUTTON WELD
FOR COPPER STRIP ONLY

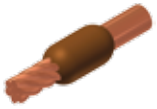
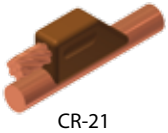


BB-46
HORIZONTAL BUTTON WELD
CROSS
FOR COPPER STRIP ONLY
Page: 212

SELECTOR CHART

NOTE: **Higlighted** weld types may be found in this catalog. Contact thermOweld® for more information about these and other weld types not listed.

CABLE TO GROUND ROD OR ROD CONNECTIONS

 **CR-1** HORIZONTAL CABLE DEAD END VERTICAL GROUND ROD Pages: 42, 43, 92, 108, 222	 **CR-2** HORIZONTAL CABLE THRU VERTICAL GROUND ROD Pages: 44, 45, 93, 109, 223	 **CR-3** HORIZONTAL CABLE THRU VERTICAL GROUND ROD Pages: 46, 94, 110, 224	 CR-4 HORIZONTAL CABLE CROSS VERTICAL GROUND ROD	 CR-5 VERTICAL CABLE UP VERTICAL GRD ROD DOWN	 CR-6 VERTICAL CABLE DOWN VERTICAL GRD ROD UP
 CR-7 HORIZONTAL CABLE HORIZONTAL GRD ROD	 CR-8 HORIZONTAL CABLE THRU HORIZONTAL GRD ROD	 CR-9 HORIZONTAL CABLE THRU VERTICAL GRD ROD UP	 CR-11 HORIZONTAL CABLE CROSS (UNCUT) VERTICAL GROUND ROD	 CR-12 VERTICAL CABLE THRU UP HORIZONTAL GRD ROD	 CR-13 HORIZONTAL CABLE HORIZONTAL GRD ROD THRU
 CR-14 VERTICAL CABLE UP HORIZONTAL GRD ROD THRU	 CR-15 VERTICAL CABLE DOWN HORIZONTAL GRD ROD THRU	 CR-16 HORIZONTAL CABLE VERTICAL GRD ROD THRU	 **CR-17** HORIZONTAL PARALLEL CABLE (STACKED) VERTICAL GROUND ROD Page: 47	 **CR-18** VERTICAL CABLE UP VERTICAL GRD ROD THRU Pages: 49, 111	
 CR-19 VERTICAL CABLE THRU VERTICAL GRD ROD THRU	 CR-20 VERTICAL CABLE DOWN VERTICAL GRD ROD THRU	 CR-21 HORIZONTAL CABLE HORIZONTAL GRD ROD THRU (STACKED)	 CR-22 HORIZONTAL CABLE THRU HORIZONTAL GRD ROD THRU (STACKED)	 CR-23 HORIZONTAL CABLE THRU HORIZONTAL GRD ROD THRU (SIDE-BY-SIDE)D	 **CR-24** HORIZONTAL PARALLEL CABLE THRU (STACKED) VERTICAL GROUND ROD Page: 48
 CR-25 HORIZONTAL CABLE TEE VERTICAL GROUND ROD	 CR-26 HORIZONTAL CABLE THRU HORIZONTAL GRD ROD THRU	 CR-28 HORIZONTAL CABLE HORIZONTAL CHEMICAL GROUND ROD	 CR-33 HORIZONTAL CABLE THRU HORIZONTALCHEMICAL GROUND ROD	 CR-34 VERTICAL CABLES UP VERTICAL GRD ROD DOWN	 CR-35 VERTICAL CABLE 45° DOWN VERTICAL GRD ROD THRU
 **CR-36** VERTICAL CABLE 45° UP VERTICAL GRD ROD DOWN Page: 112	 CR-37 VERTICAL CABLE 45° DOWN VERTICAL CHEMICAL GROUND ROD	 CR-38 VERTICAL CABLE DOWN HORIZONTAL GRD ROD	 CR-39 HORIZONTAL CABLE - TEE HORIZONTAL CHEMICAL GROUND ROD	 CR-40 VERTICAL CABLES DOWN VERTICAL GROUND ROD UP	 CR-41 VERTICAL CABLES 45° UP VERTICAL GROUND ROD

SELECTOR CHART

NOTE: **Higlighted** weld types may be found in this catalog. Contact thermOweld® for more information about these and other weld types not listed.

CABLE TO LUG OR BUS BAR CONNECTIONS



CB-1
HORIZONTAL CABLE
HORIZONTAL LUG OR BAR
Pages: 62, 101, 119, 206, 212, 244



CB-2
VERTICAL CABLE UP
HORIZONTAL BAR ON EDGE
OVER 5" CLEARANCE BEHIND BAR
Page: 65

CB-6
VERTICAL CABLE UP
HORIZONTAL BAR ON EDGE
3/4" TO 5" CLEARANCE BEHIND BAR
Page: 66



CB-3
VERTICAL CABLE DOWN
HORIZONTAL BAR ON EDGE
OVER 5" CLEARANCE BEHIND BAR
Page: 67

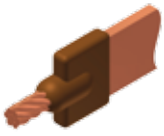
CB-7
VERTICAL CABLE DOWN
HORIZONTAL BAR ON EDGE
3/4" TO 5" CLEARANCE BEHIND BAR
Page: 68



CB-4
HORIZONTAL CABLE
HORIZONTAL BAR
Pages 64, 245



CB-5
HORIZONTAL CABLE THRU
HORIZONTAL BAR
Pages: 70, 246



CB-8
HORIZONTAL CABLE
HORIZONTAL BAR ON EDGE



CB-9
VERTICAL CABLE DOWN
VERTICAL BAR UP



CB-11
VERTICAL CABLE UP
VERTICAL BAR DOWN



CB-12
MULTIPLE
HORIZONTAL CABLES
HORIZONTAL LUGS OR BARS



CB-13
MULTIPLE
HORIZONTAL CABLES
MULTIPLE HORIZONTAL
LUGS OR BARS



CB-14
HORIZONTAL CABLE
MULTIPLE
HORIZONTAL LUGS OR BARS



CB-15
HORIZONTAL CABLE
VERTICAL BAR UP



CB-16
VERTICAL CABLE UP
HORIZONTAL BAR ON EDGE



CB-17
VERTICAL CABLE DOWN
HORIZONTAL BAR ON EDGE



CB-18
HORIZONTAL CABLE
VERTICAL BAR UP



CB-19
HORIZONTAL CABLE
VERTICAL BAR DOWN



CB-20
HORIZONTAL CABLE
VERTICAL BAR UP



CB-21
HORIZONTAL CABLE
VERTICAL BAR DOWN



CB-22
HORIZONTAL CABLE
HORIZONTAL BAR



CB-23
VERTICAL CABLE UP
HORIZONTAL BAR



CB-24
VERTICAL CABLE DOWN
HORIZONTAL BAR



CB-25
HORIZONTAL CABLE
HORIZONTAL BAR ON EDGE



CB-26
HORIZONTAL CABLE THRU
HORIZONTAL BAR ON EDGE



CB-27
HORIZONTAL CABLE
VERTICAL BAR UP



CB-28
VERTICAL CABLE DOWN
HORIZONTAL BAR ON EDGE



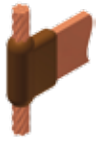
CB-29
VERTICAL CABLE THRU
HORIZONTAL BAR ON EDGE
Page: 69



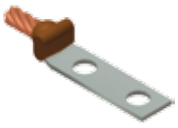
CB-30
HORIZONTAL CABLE THRU
VERTICAL BAR UP



CB-31
HORIZONTAL CABLE THRU
VERTICAL BAR DOWN



CB-32
VERTICAL CABLE THRU
HORIZONTAL BAR ON EDGE



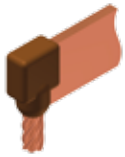
CB-33
HORIZONTAL CABLE
HORIZONTAL LUG
Pages: 63, 101, 244



CB-34
HORIZONTAL CABLE
HORIZONTAL COPPER
STRIP THRU
Page: 212



CB-35
HORIZONTAL CABLE THRU
HORIZONTAL COPPER
STRIP THRU



CB-36
VERTICAL CABLE DOWN
HORIZONTAL BAR ON EDGE



CB-37
HORIZONTAL CABLE
HORIZONTAL BAR



CB-38
VERTICAL CABLE DOWN
HORIZONTAL BAR

SELECTOR CHART

NOTE: **Higlighted** weld types may be found in this catalog. Contact thermOweld® for more information about these and other weld types not listed.

CABLE TO REBAR CONNECTIONS

 **CRE-1** PARALLEL / HORIZONTAL CABLE HORIZONTAL REBAR THRU Pages: 75, 255	 **CRE-2** HORIZONTAL CABLE HORIZONTAL REBAR THRU Page: 76	 **CRE-3** HORIZONTAL CABLE THRU VERTICAL REBAR THRU Pages: 77, 256	 **CRE-4** HORIZONTAL CABLE THRU HORIZONTAL REBAR THRU Page:78	 CRE-5 VERTICAL CABLE THRU HORIZONTAL REBAR THRU	 **CRE-6** HORIZONTAL CABLE VERTICAL REBAR THRU Pages: 79, 257
 CRE-7 SPLICE / VERTICAL CABLE UP VERTICAL REBAR DOWN	 CRE-8 SPLICE / VERTICAL CABLE DOWN VERTICAL REBAR UP	 CRE-9 SPLICE / HORIZONTAL CABLE HORIZONTAL REBAR	 CRE-11 HORIZONTAL CABLE THRU HORIZONTAL REBAR	 CRE-12 VERTICAL CABLE THRU HORIZONTAL REBAR	 CRE-13 VERTICAL CABLE UP HORIZONTAL REBAR THRU
 CRE-14 VERTICAL CABLE DOWN HORIZONTAL REBAR THRU	 CRE-15 HORIZONTAL CABLE THRU VERTICAL REBAR UP	 **CRE-16** HORIZONTAL CABLE THRU VERTICAL REBAR DOWN Page: 80, 94	 CRE-17 PARALLEL / HORIZONTAL CABLE THRU (STACKED) HORIZONTAL REBAR THRU	 CRE-18 PARALLEL / VERTICAL CABLE DOWN VERTICAL REBAR THRU	 CRE-19 PARALLEL / VERTICAL CABLE UP VERTICAL REBAR THRU
 CRE-20 PARALLEL / VERTICAL CABLE THRU VERTICAL REBAR THRU	 **CRE-21** HORIZONTAL CABLE VERTICAL REBAR DOWN Page: 80	 **CRE-25** HORIZONTAL CABLE TEE VERTICAL REBAR DOWN Page:80	 CRE-35 VERTICAL CABLE 45° DOWN VERTICAL REBAR THRU		

BUS BAR TO REBAR CONNECTIONS

 BRE-3 HORIZONTAL BAR THRU BAR ON EDGE VERTICAL REBAR THRU	 BRE-4 HORIZONTAL BAR THRU HORIZONTAL REBAR THRU	 BRE-5 HORIZONTAL BAR HORIZONTAL REBAR THRU	 BRE-6 HORIZONTAL BAR BAR ON EDGE HORIZONTAL REBAR THRU	 BRE-7 VERTICAL BAR THRU HORIZONTAL REBAR THRU	 **BRE-8** HORIZONTAL BAR BAR ON EDGE VERTICAL REBAR THRU Page: 257
 BRE-13 HORIZONTAL BAR FLAT HORIZONTAL REBAR	 BRE-15 VERTICAL BAR DOWN HORIZONTAL REBAR THRU	 BRE-16 HORIZONTAL BAR FLAT VERTICAL REBAR THRU	 BRE-17 HORIZONTAL BAR THRU BAR ON EDGE HORIZONTAL REBAR THRU	 BRE-18 VERTICAL BAR DOWN VERTICAL REBAR THRU	 BRE-20 VERTICAL BAR UP BAR ON EDGE VERTICAL REBAR THRU

ROD TO REBAR CONNECTIONS
REBAR TO REBAR CONNECTIONS

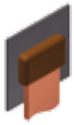
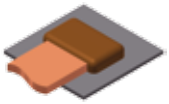
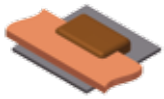
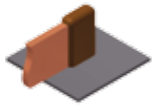
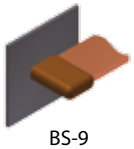
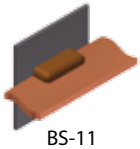
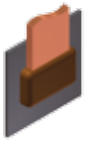
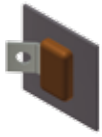
(NOTE: RE WELD TYPES ARE FOR ELECTRICAL CONTINUTITY ONLY AND ARE NOT TO BE USED FOR STRUCTURAL PURPOSES.)

 RE-1 SPLICE / HORIZONTAL	 RE-2 SPLICE / VERTICAL	 RE-3 PARALLEL / VERTICAL RUN & TAP (SIDE-BY-SIDE)	 RE-7 PARALLEL / HORIZONTAL RUN & TAP (STACKED)	 RRE-1 HORIZONTAL ROD HORIZONTAL REBAR	 RRE-16 HORIZONTAL ROD VERTICAL REBAR THRU

SELECTOR CHART

NOTE: **Higlighted** weld types may be found in this catalog. Contact thermOweld® for more information about these and other weld types not listed.

LUG OR BUS BAR TO STEEL CONNECTIONS

 **BS-1** VERTICAL BAR DOWN VERTICAL STEEL Pages: 73, 250	 **BS-2** HORIZONTAL BAR HORIZONTAL STEEL Pages: 73, 250	 **BS-3** HORIZONTAL BAR THRU HORIZONTAL STEEL Pages: 74, 251	 **BS-4** HORIZONTAL BAR THRU BAR ON EDGE VERTICAL STEEL Page:74	 **BS-5** VERTICAL BAR THRU VERTICAL STEEL Page: 74	 BS-6 HORIZONTAL BAR BAR ON EDGE HORIZONTAL STEEL
 BS-7 HORIZONTAL BAR THRU BAR ON EDGE HORIZONTAL STEEL	 BS-8 VERTICAL BAR DOWN BAR ON EDGE VERTICAL STEEL	 BS-9 HORIZONTAL BAR BAR ON EDGE VERTICAL STEEL	 BS-11 HORIZONTAL BAR THRU BAR ON EDGE VERTICAL STEEL	 BS-12 VERTICAL BAR THRU BAR ON EDGE VERTICAL STEEL	 BS-13 HORIZONTAL BAR BAR ON EDGE VERTICAL STEEL
 BS-14 VERTICAL BAR UP VERTICAL STEEL	 BS-15 HORIZONTAL 45° LUG HORIZONTAL STEEL	 BS-16 VERTICAL 45° LUG VERTICAL STEEL	 BS-17 HORIZONTAL 45° LUG LUG ON EDGE VERTICAL STEEL	 BS-18 HORIZONTAL BAR VERTICAL STEEL	 BS-19 HORIZONTAL BAR BAR ON EDGE VERTICAL STEEL
 BS-20 VERTICAL BAR UP BAR ON EDGE VERTICAL STEEL					

THREADED STUD OR ROD TO STEEL CONNECTIONS

 **RS-1** HORIZONTAL STUD VERTICAL STEEL Pages: 52	 **RS-2** VERTICAL STUD HORIZONTAL STEEL Pages: 52	 RS-5 VERTICAL ROD THRU VERTICAL STEEL ROD OFF SURFACE	 RS-6 HORIZONTAL ROD VERTICAL STEEL	 RS-7 VERTICAL ROD UP VERTICAL STEEL ROD ON SURFACE	 RS-8 HORIZONTAL ROD HORIZONTAL STEEL ROD ON SURFACE
 RS-9 HORIZONTAL ROD THRU HORIZONTAL STEEL ROD OFF SURFACE	 RS-11 HORIZONTAL ROD HORIZONTAL STEEL ROD OFF SURFACE	 RS-23 VERTICAL ROD DOWN VERTICAL STEEL ROD OFF SURFACE			

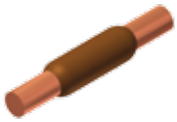
SELECTOR CHART

NOTE: **Higlighted** weld types may be found in this catalog. Contact thermOweld® for more information about these and other weld types not listed.

GROUND ROD TO GROUND ROD CONNECTIONS



RR-1
SPLICE / VERTICAL
Pages: 52, 224



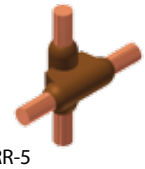
RR-2
SPLICE / HORIZONTAL



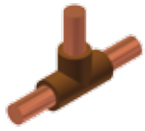
RR-3
HORIZONTAL ROD
VERTICAL ROD THRU



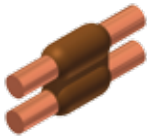
RR-4
HORIZONTAL ROD
VERTICAL ROD DOWN



RR-5
HORIZONTAL ROD THRU
VERTICAL ROD THRU



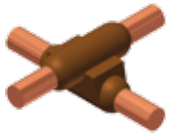
RR-6
HORIZONTAL ROD THRU
VERTICAL ROD UP



RR-7
PARALLEL / HORIZONTAL
(STACKED)



RR-13
HORIZONTAL ROD
VERTICAL ROD



RR-14
CROSS (X) / HORIZONTAL
(UNCUT)



RR-15
TEE / HORIZONTAL



RR-16
ELL / HORIZONTAL

BUS BAR TO GROUND ROD CONNECTIONS



BR-1
HORIZONTAL BAR
VERTICAL ROD
Page: 252



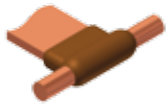
BR-2
HORIZONTAL BAR THRU
BAR ON EDGE
VERTICAL ROD
Page: 253



BR-3
HORIZONTAL BAR THRU
BAR ON EDGE (UNCUT)
VERTICAL ROD THRU
Page: 254



BR-4
HORIZONTAL BAR THRU
HORIZONTAL ROD



BR-5
HORIZONTAL BAR
HORIZONTAL ROD THRU



BR-6
HORIZONTAL BAR THRU
BAR ON EDGE
VERTICAL ROD UP



BR-7
HORIZONTAL BAR THRU
VERTICAL ROD
Page: 254



BR-8
HORIZONTAL BAR
BAR ON EDGE
VERTICAL ROD THRU



BR-9
HORIZONTAL BAR THRU
BAR ON EDGE
VERTICAL ROD



BR-11
VERTICAL SPLICE / BAR UP
VERTICAL ROD



BR-12
HORIZONTAL BAR
BAR ON EDGE
VERTICAL ROD



BR-13
HORIZONTAL BAR
HORIZONTAL ROD



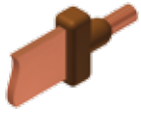
BR-14
VERTICAL BAR UP
HORIZONTAL ROD



BR-15
VERTICAL BAR DOWN
HORIZONTAL ROD



BR-16
HORIZONTAL LUG OR BAR
HORIZONTAL ROD



BR-17
HORIZONTAL BAR
BAR ON EDGE
HORIZONTAL ROD



BR-18
HORIZONTAL BAR THRU
VERTICAL ROD THRU



BR-19
HORIZONTAL BAR THRU
BAR ON EDGE
VERTICAL ROD UP
3/4" TO 5" CLEARANCE BEHIND BAR



BR-25
HORIZONTAL BAR
VERTICAL ROD

SELECTOR CHART

NOTE: **Higlighted** weld types may be found in this catalog. Contact thermOweld® for more information about these and other weld types not listed.

AIRCRAFT GROUNDING RECEPTACLE CONNECTIONS



ABR-1
HORIZONTAL BAR
BAR ON EDGE
AIRCRAFT GROUNDING RECEPTACLE
VERTICAL GROUND ROD



AC-1
HORIZONTAL CABLE
AIRCRAFT GROUNDING RECEPTACLE
W/ RISER FOR PIPE
Pages: 120, 127



AC-2
HORIZONTAL CABLE THRU
AIRCRAFT GROUNDING RECEPTACLE
W/ RISER FOR PIPE
Pages: 120, 127



AR-1
AIRCRAFT GROUNDING RECEPTACLE
VERTICAL ROD
Page: 128



ACR-1
HORIZONTAL CABLE
AIRCRAFT GROUNDING RECEPTACLE
VERTICAL ROD
Page: 128



ACR-2
HORIZONTAL CABLE THRU
AIRCRAFT GROUNDING RECEPTACLE
VERTICAL ROD
Page: 128



ARE-1
AIRCRAFT GROUNDING RECEPTACLE
VERTICAL REBAR



ACRE-1
HORIZONTAL CABLE
AIRCRAFT GROUNDING RECEPTACLE
VERTICAL REBAR



ACRE-2
HORIZONTAL CABLE THRU
AIRCRAFT GROUNDING RECEPTACLE
VERTICAL REBAR

GROUNDING RECEPTACLE CONNECTIONS



CR-27
HORIZONTAL CABLE
HORIZONTAL GROUND PLATE
Page: 125



CR-29
HORIZONTAL CABLE
INVERTED GROUND PLATE



CR-30
HORIZONTAL CABLE THRU
HORIZONTAL GROUND PLATE
Page: 125



CR-31
HORIZONTAL CABLE
VERTICAL GROUND PLATE
W/ RISER FOR PIPE
Page:125



CR-32
HORIZONTAL CABLE THRU
VERTICAL GROUND PLATE
W/ RISER FOR PIPE
Page: 125



BR-29
HORIZONTAL BAR
INVERTED GROUND PLATE



RS-3
HORIZONTAL GROUND PLATE
VERTICAL STEEL
Page: 124



CRS-1
VERTICAL CABLE DOWN
HORIZONTAL GROUND PLATE
VERTICAL STEEL
Page: 124



CRS-2
VERTICAL CABLE UP
HORIZONTAL GROUND PLATE
VERTICAL STEEL
Page: 124



RR-8
HORIZONTAL ROD THRU
HORIZONTAL GROUND PLATE



RR-9
VERTICAL GROUND PLATE UP
VERTICAL ROD DOWN



RR-11
HORIZONTAL GROUND PLATE
HORIZONTAL ROD



RR-12
HORIZONTAL GROUND PLATE
VERTICAL ROD THRU



RRE-6
HORIZONTAL GROUND PLATE
VERTICAL REBAR THRU



RRE-8
HORIZONTAL GROUND PLATE
HORIZONTAL REBAR THRU



RRE-9
VERTICAL GROUND PLATE
VERTICAL REBAR



RRE-11
HORIZONTAL GROUND PLATE
HORIZONTAL REBAR

COPPER TUBE TO GROUND ROD CONNECTIONS



RT-1
HORIZONTAL TUBE
VERTICAL GROUND ROD

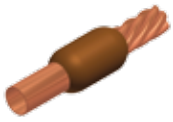


RT-2
HORIZONTAL TUBE THRU
VERTICAL GROUND ROD

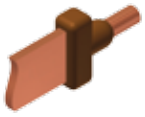
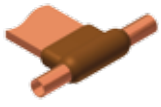
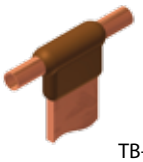
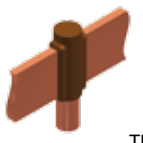
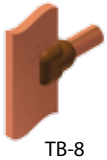
SELECTOR CHART

NOTE: **Higlighted** weld types may be found in this catalog. Contact thermOweld® for more information about these and other weld types not listed.

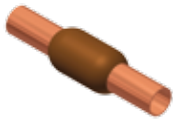
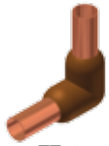
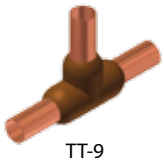
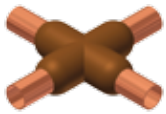
CABLE TO COPPER TUBE CONNECTIONS

 CT-1 HORIZONTAL CABLE HORIZONTAL TUBE THRU	 CT-2 VERTICAL CABLE DOWN HORIZONTAL TUBE THRU	 CT-3 SPLICE HORIZONTAL	 CT-4 VERTICAL CABLE DOWN VERTICAL TUBE UP	 CT-5 VERTICAL CABLE UP VERTICAL TUBE DOWN	 CT-6 VERTICAL CABLE UP HORIZONTAL TUBE THRU
 CT-7 HORIZONTAL CABLE THRU VERTICAL TUBE DOWN	 CT-8 HORIZONTAL CABLE THRU VERTICAL TUBE UP	 CT-9 VERTICAL CABLE THRU HORIZONTAL TUBE	 CT-11 HORIZONTAL CABLE VERTICAL TUBE THRU	 CT-12 HORIZONTAL CABLE HORIZONTAL TUBE	 CT-13 VERTICAL CABLE DOWN HORIZONTAL TUBE
 CT-14 VERTICAL CABLE UP HORIZONTAL TUBE	 CT-15 HORIZONTALCABLE VERTICAL TUBE DOWN	 CT-16 HORIZONTAL CABLE VERTICAL TUBE UP	 CT-17 HORIZONTAL CABLE THRU HORIZONTAL TUBE		

LUG OR BUS BAR TO COPPER TUBE CONNECTIONS

 TB-1 SPLICE / HORIZONTAL	 TB-2 SPLICE / HORIZONTAL BAR ON EDGE	 TB-3 HORIZONTAL BAR HORIZONTAL TUBE THRU	 TB-4 VERTICAL BAR DOWN HORIZONTAL TUBE THRU	 TB-5 HORIZONTAL BAR THRU BAR ON EDGE VERTICAL TUBE UP	 TB-6 HORIZONTAL BAR THRU BAR ON EDGE VERTICAL TUBE DOWN
 TB-7 HORIZONTAL BAR THRU BAR ON EDGE HORIZONTAL TUBE	 TB-8 VERTICAL BAR THRU HORIZONTAL TUBE	 TB-9 HORIZONTAL BAR THRU HORIZONTAL TUBE	 TB-11 HORIZONTAL BAR THRU VERTICAL TUBE UP	 TB-12 HORIZONTAL BAR THRU VERTICAL TUBE DOWN	

COPPER TUBE TO COPPER TUBE CONNECTIONS

 TT-1 SPLICE / HORIZONTAL	 TT-2 TEE / HORIZONTAL	 TT-3 ELL / HORIZONTAL	 TT-4 TEE / VERTICAL TAP DOWN	 TT-5 ELL / VERTICAL TAP DOWN	 TT-6 ELL / VERTICAL TAP UP
 TT-9 TEE / VERTICAL TAP UP	 TT-11 TEE / VERTICAL TAP HORIZONTAL	 TT-12 CROSS (X) / HORIZONTAL	 TT-13 SPLICE / VERTICAL		

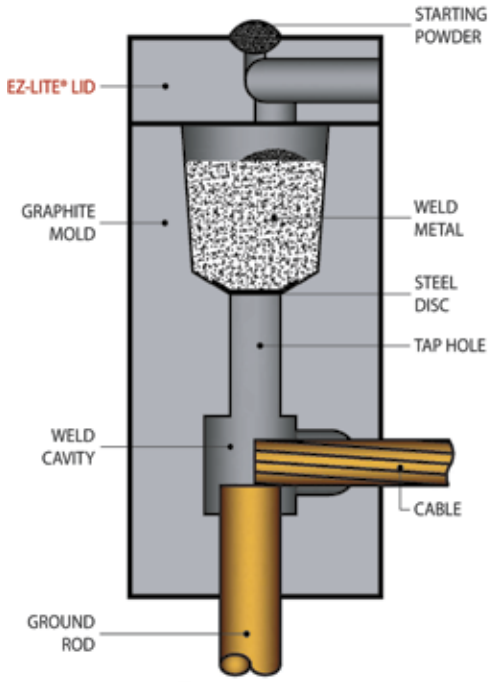
TECHNICAL INFORMATION

thermOweld® provides high quality products to the Electric, Utility, Telecom, and Cathodic Markets.

The thermOweld® process is a simple way of welding copper to copper and copper to steel. The reaction takes place in a semi-permanent graphite mold and uses high temperature reactions of copper oxide and aluminum.

The thermOweld® connections are solid molecular bonds; they will not loosen or corrode throughout the life of the weld.

"If you need it, we can make it"



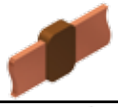
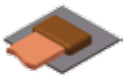
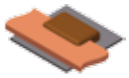
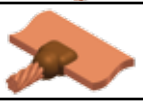
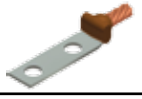
Features

- All thermOweld® molds come with our EZ Lite® lid.
- Added Safety - EZ Lite® Lid redirects exhaust away from the user.
- The average life of a mold is 50 plus welds - depending on the care and treatment it receives.
- EZ to ignite with the top ignition hole.
- EZ Lite® Lid extends the life of handles and framework of mold.
- Reduces emission by more than 50% compared to the standard lid.



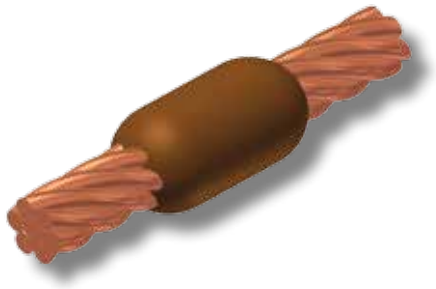
Section 2
Molds for use with AWG Conductors & Bus Bar

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	RS-1	52
	RS-2	52
	Rebar Single Shots	80
	Single Shots	50

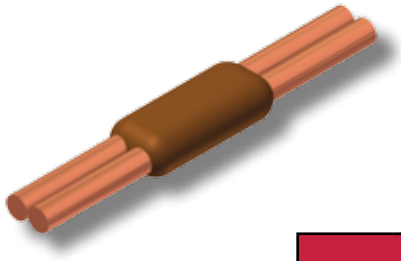


CC-1

TYPE MOLDS

Horizontal End to End
For AWG Conductors

MOLDS FOR AWG CONDUCTORS										
Cable	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal*	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#8	M-6021	4	15	B-106	2	M-6021-H	4	32	B-106	4
#6	M-200	4	25	B-106	2	M-200-H	4	45	B-106	4
#4	M-201	4	25	B-106	2	M-201-H	4	45	B-106	2
#2	M-203	4	32	B-106	2	M-203-H	4	65	B-106	2
#1	M-204	4	32	B-106	4	M-204-H	4	65	B-106	4
1/0	M-205	4	45	B-106	2	M-205-H	4	90	B-106	2
2/0	M-206	4	65	B-106	SDS	M-206-H	4	115	B-106	2
3/0	M-207	4	90	B-106	2	M-207-H	4	150	B-106	2
4/0	M-208	4	90	B-106	SDS	M-208-H	4	150	B-106	2
250 MCM	M-209	4	115	B-106	2	M-209-H	4	200	B-106	2
300 MCM	M-210	4	115	B-106	2	M-210-H	4	200	B-106	2
350 MCM	M-211	4	150	B-106	2	M-211-H	4	250	B-106	2
500 MCM	M-213	4	200	B-106	2	M-213-H	5	2-150	B-107	2
750 MCM	M-214	5	2-150	B-107	2	M-214-H	5	500	B-107	2
1000 MCM	M-215	5	2-200	B-107	2	M-215-H	5	3-250	B-107	4



CC-14

TYPE MOLDS

Horizontal Parallel through Cables
For AWG Conductors

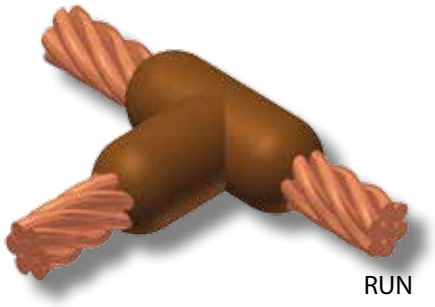
MOLDS FOR AWG CONDUCTORS						
Cable		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
#8	#8	M-5709	18†	15	40-4565-00	2
#6	#6	M-5618	18†	25	40-4565-00	2

- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU ~ EZ Lite Remote®
  † ~ Sold complete with handles
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CC-2

TYPE MOLDS

Horizontal Cable Tap to Horizontal Cable Run
For AWG Conductors

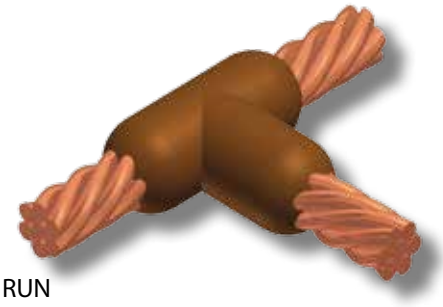


MOLDS FOR AWG CONDUCTORS											
Cable		STANDARD CONNECTION					HEAVY DUTY CONNECTION				
Run	Tap	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6	#6	M-5072	4	32	B-106	2	M-5072-H	4	45	B-106	4
#4	#4	M-221	4	32	B-106	2	M-221-H	4	65	B-106	2
#2	#2	M-223	4	45	B-106	SDS	M-223-H	4	65	B-106	2
	#4	M-224	4	45	B-106	2	M-224-H	4	65	B-106	2
#1	#1	M-225	4	45	B-106	2	M-225-H	4	65	B-106	4
	#2	M-226	4	45	B-106	2	M-226-H	4	65	B-106	4
	#4	M-227	4	45	B-106	2	M-227-H	4	65	B-106	4
1/0	1/0	M-228	4	90	B-106	SDS	M-228-H	4	115	B-106	2
	#1	M-229	4	45	B-106	2	M-229-H	4	90	B-106	4
	#2	M-230	4	45	B-106	2	M-230-H	4	90	B-106	2
	#2 Sol	M-5311	4	45	B-106	2	M-5311-H	4	90	B-106	2
	#4	M-231	4	45	B-106	2	M-231-H	4	65	B-106	2
2/0	4/0	M-5059	4	90	B-106	SDS	M-5059-H	4	150	B-106	2
	2/0	M-232	4	90	B-106	SDS	M-232-H	4	115	B-106	2
	1/0	M-233	4	90	B-106	2	M-233-H	4	115	B-106	2
	#1	M-234	4	45	B-106	2	M-234-H	4	90	B-106	2
	#2	M-235	4	45	B-106	SDS	M-235-H	4	90	B-106	2
	#2 Sol	M-8093	4	45	B-106	2	M-8093-H	4	90	B-106	2
	#4	M-5475	4	45	B-106	2	M-5475-H	4	65	B-106	2
3/0	3/0	M-236	4	115	B-106	SDS	M-236-H	4	200	B-106	2
	2/0	M-237	4	90	B-106	2	M-237-H	4	150	B-106	2
	1/0	M-238	4	90	B-106	2	M-238-H	4	150	B-106	4
	#1	M-239	4	45	B-106	2	M-239-H	4	90	B-106	4
	#2	M-240	4	45	B-106	2	M-240-H	4	90	B-106	4
	#2 Sol	M-5884	4	45	B-106	2	M-5884-H	4	90	B-106	2
	#4	M-5574	4	45	B-106	2	M-5574-H	4	65	B-106	2
4/0	500 MCM	M-5010	4	150	B-106	4	M-5010-H	5	2 x150	B-106	4
	4/0	M-241	4	150	B-106	SDS	M-241-H	4	250	B-106	2
	3/0	M-242	4	115	B-106	2	M-242-H	4	200	B-106	4
	2/0	M-243	4	90	B-106	SDS	M-243-H	4	150	B-106	2
	1/0	M-244	4	90	B-106	SDS	M-244-H	4	150	B-106	2
	#1	M-245	4	90	B-106	2	M-245-H	4	150	B-106	2
	#2	M-246	4	90	B-106	SDS	M-246-H	4	150	B-106	2
	# 2 Sol	M-5348	4	90	B-106	2	M-5348-H	4	150	B-106	2
	#4	M-5021	4	90	B-106	2	M-5021-H	4	150	B-106	2
250 MCM	250 MCM	M-247	4	150	B-106	SDS	M-247-H	4	250	B-106	2
	4/0	M-248	4	150	B-106	2	M-248-H	4	250	B-106	2
	3/0	M-249	4	150	B-106	2	M-249-H	4	250	B-106	4
	2/0	M-250	4	90	B-106	2	M-250-H	4	150	B-106	2
	1/0	M-251	4	90	B-106	2	M-251-H	4	150	B-106	4
	#1	M-252	4	90	B-106	2	M-252-H	4	150	B-106	4
	#2	M-253	4	90	B-106	2	M-253-H	4	150	B-106	4

CC-2

TYPE MOLDS

Horizontal Cable Tap to Horizontal Cable Run
For AWG Conductors



MOLDS FOR AWG CONDUCTORS

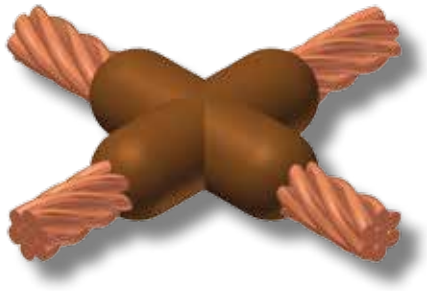
Cable		STANDARD CONNECTION					HEAVY DUTY CONNECTION				
Run	Tap	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
300 MCM	300 MCM	M-254	4	200	B-106	2	M-254-H	5	2-150	B-107	2
	250 MCM	M-255	4	150	B-106	2	M-255-H	4	250	B-106	4
	4/0	M-256	4	150	B-106	2	M-256-H	4	250	B-106	4
	3/0	M-257	4	150	B-106	2	M-257-H	4	250	B-106	4
	2/0	M-258	4	90	B-106	2	M-258-H	4	150	B-106	4
	1/0	M-259	4	90	B-106	2	M-259-H	4	150	B-106	4
	#1	M-260	4	90	B-106	2	M-260-H	4	150	B-106	4
	#2	M-261	4	90	B-106	2	M-261-H	4	150	B-106	4
350 MCM	350 MCM	M-262	4	200	B-106	2	M-262-H	5	2-150	B-107	4
	300 MCM	M-263	4	200	B-106	2	M-263-H	5	2-150	B-107	4
	250 MCM	M-264	4	200	B-106	2	M-264-H	5	2-150	B-107	4
	4/0	M-265	4	150	B-106	2	M-265-H	4	250	B-106	2
	3/0	M-266	4	150	B-106	2	M-266-H	4	250	B-106	4
	2/0	M-267	4	90	B-106	2	M-267-H	4	150	B-106	4
	1/0	M-268	4	90	B-106	2	M-268-H	4	150	B-106	2
	#1	M-269	4	90	B-106	2	M-269-H	4	150	B-106	4
	#2	M-270	4	90	B-106	2	M-270-H	4	150	B-106	4
500 MCM	500 MCM	M-280	4	2-150	B-106	SDS	M-280-H	5	500	B-107	2
	350 MCM	M-282	4	200	B-106	2	M-282-H	5	2-150	B-107	4
	300 MCM	M-283	4	200	B-106	2	M-283-H	5	2-150	B-107	4
	250 MCM	M-284	4	200	B-106	2	M-284-H	5	2-150	B-107	2
	4/0	M-285	4	150	B-106	2	M-285-H	4	250	B-106	2
	2/0	M-286	4	90	B-106	2	M-286-H	4	150	B-106	2
	1/0	M-287	4	90	B-106	2	M-287-H	4	150	B-106	2
	#1	M-288	4	90	B-106	2	M-288-H	4	150	B-106	4
	#2	M-289	4	90	B-106	2	M-289-H	4	150	B-106	2
750 MCM	750 MCM	M-290	5	500	B-107	2	M-290-H	5	3-250	B-107	2
	500 MCM	M-291	5	2-200	B-107	2	M-291-H	5	3-200	B-107	4
	350 MCM	M-293	4	250	B-106	2	M-293-H	5	2-200	B-107	4
	300 MCM	M-294	4	200	B-106	2	M-294-H	5	2-150	B-107	4
	250 MCM	M-295	4	200	B-106	2	M-295-H	5	2-150	B-107	4
	4/0	M-296	4	150	B-106	2	M-296-H	4	250	B-106	4
	2/0	M-297	4	150	B-106	2	M-297-H	4	250	B-106	4
	1/0	M-298	4	150	B-106	2	M-298-H	4	250	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 molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CC-4

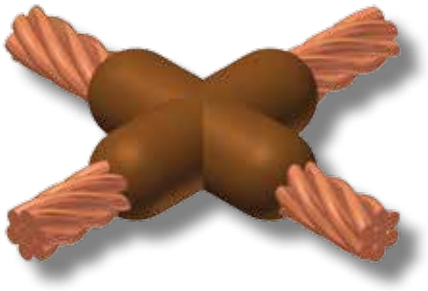
TYPE MOLDS

Horizontal to Horizontal Cable Cross
For AWG Conductors
Tap cable is cut



MOLDS FOR AWG CONDUCTORS											
Cable		STANDARD CONNECTION					HEAVY DUTY CONNECTION				
Run	Tap	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6	#6	M-5001	4	32	B-106	2	M-5001-H	4	65	B-106	4
#4	#4	M-423	4	45	B-106	2	M-423-H	4	65	B-106	2
#2	#2	M-425	4	65	B-106	2	M-425-H	4	90	B-106	4
	#4	M-426	4	65	B-106	2	M-426-H	4	90	B-106	4
#1	#1	M-427	4	65	B-106	2	M-427-H	4	115	B-106	4
	#2	M-428	4	65	B-106	2	M-428-H	4	115	B-106	4
	#4	M-429	4	65	B-106	4	M-429-H	4	115	B-106	4
1/0	1/0	M-430	4	90	B-106	2	M-430-H	4	150	B-106	2
	#1	M-431	4	90	B-106	4	M-431-H	4	150	B-106	4
	#2	M-432	4	90	B-106	2	M-432-H	4	150	B-106	4
	#4	M-433	4	90	B-106	2	M-433-H	4	150	B-106	2
2/0	2/0	M-434	4	115	B-106	SDS	M-434-H	4	200	B-106	2
	1/0	M-435	4	115	B-106	2	M-435-H	4	200	B-106	4
	#1	M-436	4	115	B-106	4	M-436-H	4	200	B-106	4
	#2	M-437	4	115	B-106	2	M-437-H	4	150	B-106	4
3/0	3/0	M-438	4	150	B-106	2	M-438-H	4	250	B-106	2
	2/0	M-439	4	150	B-106	2	M-439-H	4	250	B-106	4
	1/0	M-440	4	115	B-106	2	M-440-H	4	200	B-106	4
	#1	M-441	4	115	B-106	2	M-441-H	4	200	B-106	4
	#2	M-442	4	115	B-106	2	M-442-H	4	200	B-106	4
4/0	4/0	M-443	4	200	B-106	SDS	M-443-H	5	2-150	B-107	2
	3/0	M-444	4	200	B-106	2	M-444-H	5	2-150	B-107	4
	2/0	M-445	4	150	B-106	2	M-445-H	4	250	B-106	2
	1/0	M-446	4	150	B-106	2	M-446-H	4	250	B-106	4
	#1	M-447	4	115	B-106	2	M-447-H	4	200	B-106	4
	#2	M-448	4	115	B-106	2	M-448-H	4	200	B-106	4
250 MCM	250 MCM	M-449	4	200	B-106	2	M-449-H	5	2-150	B-107	4
	4/0	M-450	4	200	B-106	2	M-450-H	5	2-150	B-107	4
	3/0	M-451	4	200	B-106	2	M-451-H	5	2-150	B-107	4
	2/0	M-452	4	150	B-106	2	M-452-H	4	250	B-106	4
	1/0	M-453	4	150	B-106	2	M-453-H	4	250	B-106	4
	#1	M-454	4	115	B-106	4	M-454-H	4	200	B-106	4
	#2	M-455	4	115	B-106	2	M-455-H	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 expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp



CC-4

TYPE MOLDS

Horizontal to Horizontal Cable Cross
For AWG Conductors
Tap cable is cut

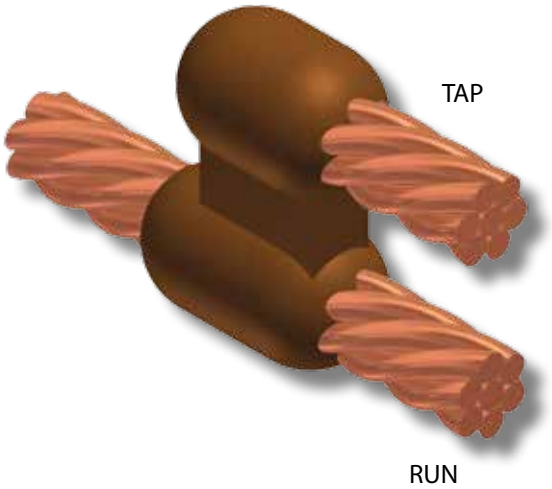
MOLDS FOR AWG CONDUCTORS											
Cable		STANDARD CONNECTION					HEAVY DUTY CONNECTION				
Run	Tap	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
300 MCM	300 MCM	M-456	4	250	B-106	2	M-456-H	5	2-200	B-107	4
	250 MCM	M-457	4	250	B-106	4	M-457-H	5	2-200	B-107	4
	4/0	M-458	4	200	B-106	4	M-458-H	5	2-150	B-107	4
	3/0	M-459	4	200	B-106	2	M-459-H	5	2-150	B-107	4
	2/0	M-460	4	150	B-106	4	M-460-H	4	250	B-106	4
	1/0	M-461	4	150	B-106	4	M-461-H	4	250	B-106	4
	#1	M-462	4	115	B-106	4	M-462-H	4	200	B-106	4
	#2	M-463	4	115	B-106	2	M-463-H	4	200	B-106	4
350 MCM	350 MCM	M-464	4	250	B-106	2	M-464-H	5	2-200	B-107	4
	300 MCM	M-465	4	250	B-106	4	M-465-H	5	2-200	B-107	4
	250 MCM	M-466	4	250	B-106	2	M-466-H	5	2-200	B-107	4
	4/0	M-467	4	200	B-106	2	M-467-H	5	2-150	B-107	4
	3/0	M-468	4	200	B-106	4	M-468-H	5	2-150	B-107	4
	2/0	M-469	4	200	B-106	2	M-469-H	5	2-150	B-107	2
	1/0	M-470	4	200	B-106	4	M-470-H	5	2-150	B-107	4
	#1	M-471	4	150	B-106	4	M-471-H	4	250	B-106	4
	#2	M-472	4	150	B-106	4	M-472-H	4	250	B-106	4
500 MCM	500 MCM	M-483	5	500	B-107	2	M-483-H	5	3-250	B-107	2
	350 MCM	M-485	5	2-200	B-107	4	M-485-H	5	3-200	B-107	4
	300 MCM	M-486	5	2-200	B-107	2	M-486-H	5	3-200	B-107	4
	250 MCM	M-487	5	2-150	B-107	4	M-487-H	5	500	B-107	4
	4/0	M-488	5	2-150	B-107	2	M-488-H	5	500	B-107	2
	3/0	M-489	5	2-150	B-107	4	M-489-H	5	500	B-107	4
	2/0	M-490	4	250	B-106	2	M-490-H	5	2-200	B-107	4
	1/0	M-491	4	250	B-106	2	M-491-H	5	2-200	B-107	4
	#1	M-492	4	200	B-106	4	M-492-H	5	2-150	B-107	4
	#2	M-493	4	200	B-106	2	M-493-H	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.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CC-6

TYPE MOLDS

Horizontal Parallel Tap
For AWG Conductors



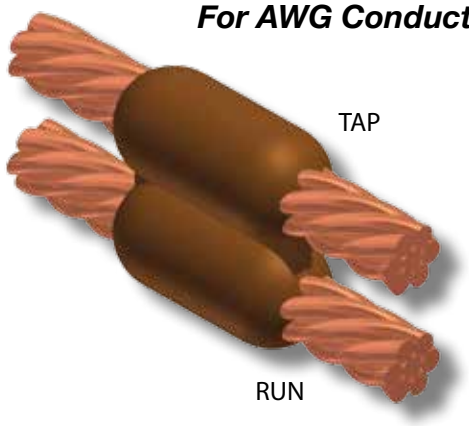
MOLDS FOR AWG CONDUCTORS						
Cable		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
#6 Sol	#6 Sol	M-1270	4	25	B-106	2
#6	#6	M-1271	4	25	B-106	2
#4	#4	M-1272	4	32	B-106	2
	#6	M-1273	4	32	B-106	2
	#6 Sol	M-1274	4	32	B-106	4
	#8 Sol	M-1275	4	32	B-106	2
#2	#2	M-1276	4	65	B-106	2
	#2	M-1276-S	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
	#8 Sol	M-1280	4	32	B-106	2
#1	#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	2
	#6 Sol	M-1285	4	45	B-106	4
	#8 Sol	M-1286	4	46	B-106	4
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
	#8 Sol	M-1293	4	45	B-106	2
2/0	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
	#8 Sol	M-1301	4	65	B-106	2
4/0	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

- **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 connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CC-7

TYPE MOLDS

Horizontal Parallel through Cables
For AWG Conductors



MOLDS FOR AWG 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	2
	#6 Sol	M-8882	4	32	B-106	2
	#8	M-5629	4	32	B-106	4
	#8 Sol	M-5630	4	32	B-106	2
#2	#2	M-1313	4	65	B-106	2
	#2 Sol	M-6654	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	2
	#8	M-5634	4	45	B-106	2
	#8 Sol	M-5635	4	45	B-106	4
#1	#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
	#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	1/0	M-1318	4	90	B-106	2
	#1	M-1319	4	65	B-106	4
	#2	M-1320	4	65	B-106	2
	#4	M-1321	4	65	B-106	2
	#6	M-5642	4	65	B-106	2
	#6 Sol	M-1208	4	65	B-106	2
	#8	M-5644	4	65	B-106	4
	#8 Sol	M-5645	4	65	B-106	2
#2 Sol	#2	M-5973	4	65	B-106	4
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	2
	#2	M-1325	4	90	B-106	2
	#2 Sol	M-8289	4	90	B-106	4
	#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	2
4/0	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
	1/0 Sol	M-2551	4	150	B-106	4
	#1	M-1335	4	150	B-106	2
	#2	M-1336	4	150	B-106	2
	#2 Sol	M-6805	4	150	B-106	4
	#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
250 MCM	250 MCM	M-1337	4	250	B-106	2
	4/0	M-1338	4	200	B-106	2
	2/0	M-1340	4	150	B-106	2
	1/0	M-1341	4	150	B-106	2
	#1	M-1342	4	150	B-106	4
	#2	M-1343	4	150	B-106	2

MOLDS FOR AWG CONDUCTORS

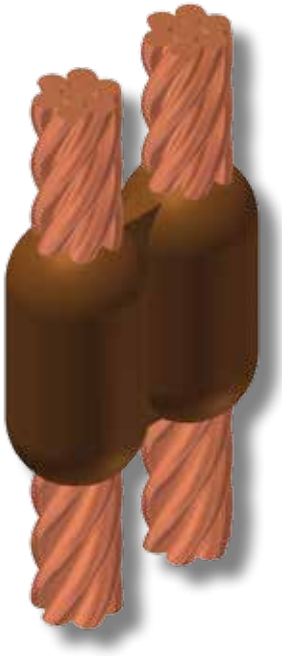
Cable		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
300 MCM	300 MCM	M-1344	5	2-150	B-107	2
	250 MCM	M-1345	4	250	B-106	4
	4/0	M-1346	4	200	B-106	2
	2/0	M-1348	4	150	B-106	4
	1/0	M-1349	4	150	B-106	2
	#1	M-1350	4	150	B-106	4
	#2	M-1351	4	150	B-106	4
350 MCM	350 MCM	M-1352	5	2-150	B-107	2
	300 MCM	M-1353	5	2-150	B-107	2
	250 MCM	M-1354	4	250	B-106	4
	4/0	M-1355	4	200	B-106	2
	2/0	M-1357	4	150	B-106	2
	1/0	M-1358	4	150	B-106	4
	#1	M-1359	4	150	B-106	4
	#2	M-1360	4	150	B-106	2
500 MCM	500 MCM	M-1371	5	2-200	B-107	2
	350 MCM	M-1373	5	2-150	B-107	2
	300 MCM	M-1374	5	2-150	B-107	2
	250 MCM	M-1375	4	250	B-106	2
	4/0	M-1376	4	200	B-106	2
	2/0	M-1378	4	150	B-106	2
	1/0	M-1379	4	150	B-106	2
	#1	M-1380	4	150	B-106	4
	#2	M-1381	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 connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CC-34

TYPE MOLDS

Vertical Parallel through Cables
For AWG Conductors



TAP is the cable that is closest to the crucible

RUN is the cable that is farthest from the crucible

MOLDS FOR AWG CONDUCTORS						
Cable		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
#6	#6	M-7379	17	32	B-106	4
#4	#4	M-10500	17	65	B-106	4
	#6	M-10501	17	65	B-106	4
	#6 Sol	M-10502	17	45	B-106	4
#2	#2	M-7304	17	90	B-106	2
	#2 Sol	M-7277	17	90	B-106	2
	#4	M-10503	17	90	B-106	4
#1	#1	M-10504	17	115	B-106	4
	#2	M-10505	17	90	B-106	4
	#2 Sol	M-10506	17	90	B-106	4
	#4	M-10507	17	90	B-106	4
1/0	1/0	M-5	17	150	B-106	2
	#1	M-10508	17	115	B-106	4
	#2	M-10509	17	115	B-106	4
	#2 Sol	M-10510	17	115	B-106	4
	#4	M-10511	17	115	B-106	4
2/0	2/0	M-6494	17	150	B-106	2
	1/0	M-10512	17	150	B-106	4
	#1	M-10513	17	150	B-106	4
	#2	M-10514	17	150	B-106	4
	#2 Sol	M-6683	17	150	B-106	2
	#4	M-10515	17	115	B-106	4
4/0	4/0	M-6596	6	2-200	B-107	2
	2/0	M-7050	17	250	B-106	2
	1/0	M-6716	17	250	B-106	2
	#1	M-10517	17	250	B-106	4
	#2	M-10518	17	200	B-106	4
	#2 Sol	M-10519	17	200	B-106	4
250 MCM	250 MCM	M-10520	8	500	B-107	4
500 MCM	500 MCM	M-6915	8	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 connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

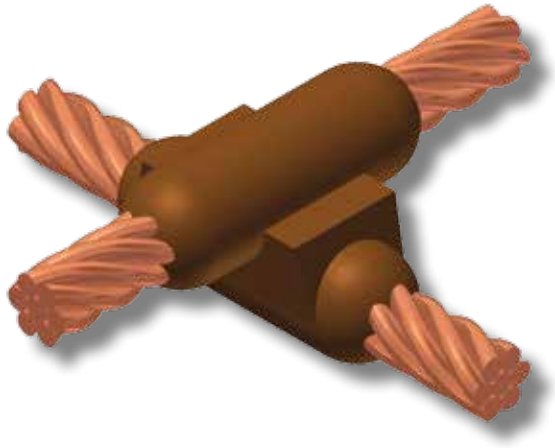
CC-11

TYPE MOLDS

Horizontal to Horizontal Cable Cross (Uncut)
For AWG Conductors

MOLDS FOR AWG 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	2
#1	#1	M-2691	4	115	B-106	2
	#2	M-2692	4	90	B-106	2
	#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	2
	#2	M-2696	22	115	B-106	2
	#4	M-2697	22	115	B-106	2
2/0	2/0	M-2698	22	200	B-106	2
	1/0	M-2699	22	200	B-106	2
	#1	M-2700	22	150	B-106	4
	#2	M-2701	22	150	B-106	2
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	2
	#1	M-2705	22	150	B-106	2
	#2	M-2706	22	150	B-106	4
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	2
	2/0	M-2716	22	250	B-106	2
	1/0	M-2717	22	150	B-106	2
	#1	M-2718	22	200	B-106	4
	#2	M-2719	22	150	B-106	4
500 MCM	500 MCM	M-2747	23	3-250	B-107	2
	250 MCM	M-2751	23	500	B-107	2
	4/0	M-2752	23	500	B-107	2
	3/0	M-2753	23	500	B-107	2
	2/0	M-2754	23	2-200	B-107	2
	1/0	M-2755	22	2-150	B-106	2
	#1	M-2756	22	250	B-106	4
	#2	M-2757	22	250	B-106	4

TAP



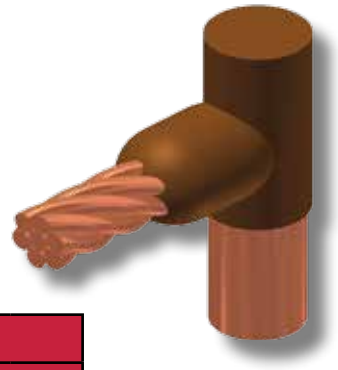
RUN

- **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 connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CR-1

TYPE MOLDS

Horizontal Cable Terminal to Ground Rod
For AWG Conductors



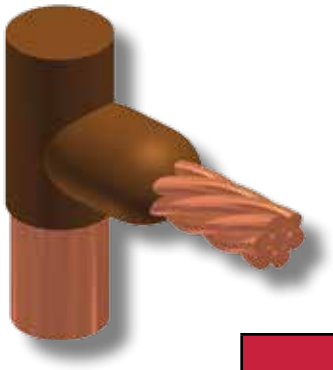
MOLDS FOR AWG CONDUCTORS

Ground Rod Size	Cable Size	STANDARD MOLD					HEAVY DUTY CONNECTION				
		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2"	#6	M-5858	4	45	B-106	2	M-5858-H	4	65	B-106	4
	#4	M-6448	4	65	B-106	2	M-6448-H	4	90	B-106	4
	#2	M-495	4	65	B-106	2	M-495-H	4	90	B-106	4
	#1	M-496	4	65	B-106	4	M-496-H	4	90	B-106	4
	1/0	M-497	4	90	B-106	2	M-497-H	4	115	B-106	4
	2/0	M-498	4	90	B-106	2	M-498-H	4	115	B-106	4
	3/0	M-499	4	90	B-106	2	M-499-H	4	150	B-106	4
	4/0	M-500	4	90	B-106	2	M-500-H	4	150	B-106	2
	250 MCM	M-501	4	90	B-106	2	M-501-H	4	150	B-106	4
	300 MCM	M-502	4	90	B-106	2	M-502-H	4	150	B-106	4
5/8"	#6	M-5799	4	45	B-106	2	M-5799-H	4	65	B-106	4
	#4	M-5197	4	65	B-106	2	M-5197-H	4	90	B-106	4
	#2	M-503	4	65	B-106	2	M-503-H	4	90	B-106	2
	#2 Sol	M-503-S	4	65	B-106	2	M-503HS	4	90	B-106	2
	#1	M-504	4	65	B-106	2	M-504-H	4	90	B-106	4
	1/0	M-505	4	90	B-106	2	M-505-H	4	115	B-106	2
	2/0	M-506	4	90	B-106	SDS	M-506-H	4	115	B-106	2
	3/0	M-507	4	90	B-106	2	M-507-H	4	150	B-106	2
	4/0	M-508	4	90	B-106	SDS	M-508-H	4	150	B-106	2
	250 MCM	M-509	4	90	B-106	2	M-509-H	4	150	B-106	4
	300 MCM	M-510	4	115	B-106	2	M-510-H	4	200	B-106	4
	350 MCM	M-511	4	115	B-106	2	M-511-H	4	200	B-106	4
	500 MCM	M-513	4	150	B-106	2	M-513-H	4	250	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.
- 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 molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

NOTES

1. Molds listed are for copper clad steel ground rods: ½" rods are 0.475" diameter, 5/8" rods are 0.563" diameter, ¾" rods are 0.682" diameter, and 1" rods are 0.914" diameter. **Undersized ground rods may require shim stock or packing material.**
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.



CR-1

TYPE MOLDS

Horizontal Cable Terminal to Ground Rod
For AWG Conductors

MOLDS FOR AWG CONDUCTORS

Ground Rod Size	Cable Size	STANDARD MOLD					HEAVY DUTY CONNECTION				
		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
3/4"	#6	M-5878	4	45	B-106	2	M-5878-H	4	65	B-106	2
	#4	M-5593	4	90	B-106	2	M-5593-H	4	115	B-106	2
	#2	M-5781	4	90	B-106	2	M-5781-H	4	115	B-106	2
	#1	M-514	4	90	B-106	2	M-514-H	4	115	B-106	4
	1/0	M-515	4	90	B-106	2	M-515-H	4	150	B-106	2
	2/0	M-516	4	90	B-106	2	M-516-H	4	150	B-106	2
	3/0	M-517	4	90	B-106	2	M-517-H	4	150	B-106	2
	4/0	M-518	4	90	B-106	SDS	M-518-H	4	150	B-106	2
	250 MCM	M-519	4	90	B-106	2	M-519-H	4	150	B-106	4
	300 MCM	M-520	4	115	B-106	2	M-520-H	4	200	B-106	4
	350 MCM	M-521	4	115	B-106	2	M-521-H	4	200	B-106	4
	500 MCM	M-523	4	150	B-106	2	M-523-H	4	250	B-106	2
	750 MCM	M-524	4	250	B-106	2	M-524-H	5	2-200	B-107	4
1"	1/0	M-525	4	150	B-106	2	M-525-H	4	200	B-106	4
	2/0	M-526	4	150	B-106	2	M-526-H	4	200	B-106	4
	3/0	M-527	4	150	B-106	2	M-527-H	4	250	B-106	4
	4/0	M-528	4	150	B-106	2	M-528-H	4	250	B-106	4
	250 MCM	M-529	4	150	B-106	2	M-529-H	4	250	B-106	4
	300 MCM	M-530	4	200	B-106	4	M-530-H	5	2-150	B-107	4
	350 MCM	M-531	4	200	B-106	2	M-531-H	5	2-150	B-107	4
	500 MCM	M-533	4	200	B-106	2	M-533-H	5	2-150	B-107	2
	750 MCM	M-534	4	250	B-106	4	M-534-H	5	2-200	B-107	4
	1000 MCM	M-535	5	2-150	B-107	4	M-535-H	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.
- 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 molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

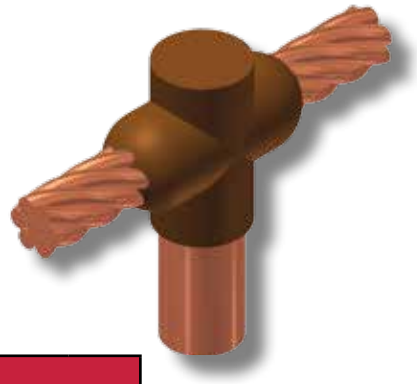
NOTES

1. Molds listed are for copper clad steel ground rods: ½" rods are 0.475" diameter, 5/8" rods are 0.563" diameter, ¾" rods are 0.682" diameter, and 1" rods are 0.914" diameter. **Undersized ground rods may require shim stock or packing material.**
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

CR-2

TYPE MOLDS

Horizontal Cable to Ground Rod
For AWG Conductors



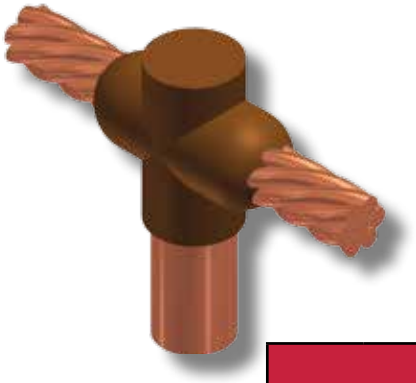
MOLDS FOR AWG CONDUCTORS

Ground Rod Size	Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2"	#6	M-5786	4	65	B-106	2	M-5786-H	4	90	B-106	4
	#4	M-5388	4	90	B-106	2	M-5388-H	4	150	B-106	4
	#2	M-537	4	90	B-106	2	M-537-H	4	150	B-106	4
	#1	M-538	4	90	B-106	2	M-538-H	4	150	B-106	4
	1/0	M-539	4	90	B-106	2	M-539-H	4	150	B-106	4
	2/0	M-540	4	90	B-106	2	M-540-H	4	150	B-106	2
	3/0	M-541	4	115	B-106	2	M-541-H	4	200	B-106	4
	4/0	M-542	4	115	B-106	2	M-542-H	4	200	B-106	2
	250 MCM	M-543	4	150	B-106	2	M-543-H	4	250	B-106	4
	300 MCM	M-544	4	200	B-106	4	M-544-H	4	2-150	B-106	4
5/8"	#6	M-5815	4	65	B-106	2	M-5815-H	4	115	B-106	4
	#4	M-5915	4	90	B-106	2	M-5915-H	4	150	B-106	4
	#2	M-545	4	90	B-106	SDS	M-545-H	4	150	B-106	2
	#1	M-546	4	90	B-106	2	M-546-H	4	150	B-106	2
	1/0	M-547	4	90	B-106	SDS	M-547-H	4	150	B-106	2
	2/0	M-548	4	115	B-106	SDS	M-548-H	4	200	B-106	2
	3/0	M-549	4	115	B-106	SDS	M-549-H	4	200	B-106	2
	4/0	M-550	4	115	B-106	SDS	M-550-H	4	200	B-106	2
	250 MCM	M-551	4	150	B-106	2	M-551-H	4	250	B-106	4
	300 MCM	M-552	4	200	B-106	2	M-552-H	5	2-150	B-107	4
	350 MCM	M-553	4	200	B-106	2	M-553-H	5	2-150	B-107	4
	500 MCM	M-555	4	250	B-106	2	M-555-H	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.
- 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 molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

NOTES

1. Molds listed are for copper clad steel ground rods: ½" rods are 0.475" diameter, 5/8" rods are 0.563" diameter, ¾" rods are 0.682" diameter, and 1" rods are 0.914" diameter. **Undersized ground rods may require shim stock or packing material.**
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.



CR-2

TYPE MOLDS

Horizontal Cable to Ground Rod
For AWG Conductors

MOLDS FOR AWG CONDUCTORS

Ground Rod Size	Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
3/4"	#6	M-5787	4	65	B-106	2	M-5787-H	4	115	B-106	4
	#4	M-6201	4	90	B-106	2	M-6201-H	4	150	B-106	4
	#2	M-556	4	90	B-106	2	M-556-H	4	150	B-106	2
	#1	M-557	4	90	B-106	2	M-557-H	4	150	B-106	4
	1/0	M-558	4	115	B-106	2	M-558-H	4	200	B-106	2
	2/0	M-559	4	115	B-106	SDS	M-559-H	4	200	B-106	2
	3/0	M-560	4	115	B-106	SDS	M-560-H	4	200	B-106	4
	4/0	M-561	4	115	B-106	SDS	M-561-H	4	200	B-106	2
	250 MCM	M-562	4	150	B-106	2	M-562-H	4	250	B-106	2
	300 MCM	M-563	4	200	B-106	2	M-563-H	5	2-150	B-107	4
	350 MCM	M-564	4	200	B-106	2	M-564-H	5	2-150	B-107	4
	500 MCM	M-566	4	250	B-106	2	M-566-H	5	2-200	B-107	2
	750 MCM	M-567	5	2-200	B-107	2	M-567-H	5	3-200	B-107	4
1"	1/0	M-569	4	150	B-106	2	M-569-H	4	250	B-106	4
	2/0	M-570	4	150	B-106	2	M-570-H	4	250	B-106	4
	3/0	M-571	4	150	B-106	2	M-571-H	4	250	B-106	4
	4/0	M-572	4	150	B-106	2	M-572-H	4	250	B-106	2
	250 MCM	M-573	4	200	B-106	2	M-573-H	5	2-150	B-107	4
	300 MCM	M-574	4	200	B-106	4	M-574-H	5	2-150	B-107	4
	350 MCM	M-575	4	200	B-106	2	M-575-H	5	2-150	B-107	4
	500 MCM	M-577	4	250	B-106	2	M-577-H	5	2-200	B-107	4
	750 MCM	M-578	5	2-200	B-107	4	M-578-H	5	3-200	B-107	4
	1000 MCM	M-579	5	500	B-107	4	M-579-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.
- 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 molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

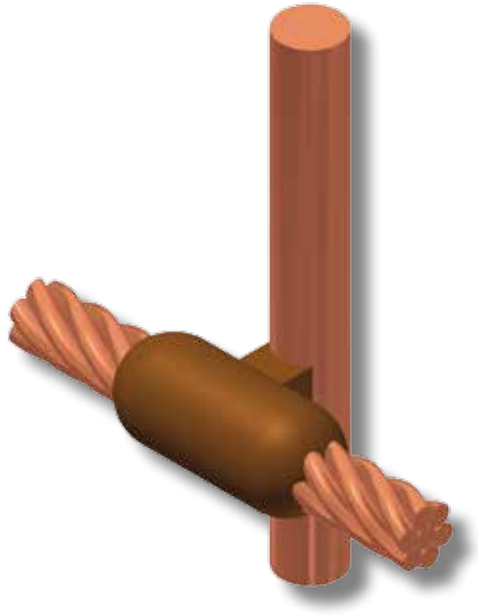
NOTES

1. Molds listed are for copper clad steel ground rods: ½" rods are 0.475" diameter, 5/8" rods are 0.563" diameter, ¾" rods are 0.682" diameter, and 1" rods are 0.914" diameter. **Undersized ground rods may require shim stock or packing material.**
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

CR-3

TYPE MOLDS

Horizontal Thru Cable to Ground Rod
For AWG Conductors



MOLDS FOR AWG CONDUCTORS						
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	2
	#2	M-2155	24	90	B-106	2
	#1	M-2156	24	115	B-106	4
	1/0	M-1581	24	115	B-106	2
	2/0	M-1582	24	115	B-106	2
	4/0	M-1583	24	150	B-106	2
	250 MCM	M-1584	24	150	B-106	4
5/8"	#6	M-5660	24	65	B-106	2
	#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	2
	250 MCM	M-1589	24	150	B-106	2
	500 MCM	M-1593	13	2-200	B-107	2
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	2
	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
	750 MCM	M-1602	13	3-250	B-107	2
1"	#6	M-6906	24	90	B-106	4
	#4	M-2163	24	90	B-106	2
	#2	M-2164	24	90	B-106	2
	#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	2
	500 MCM	M-1610	13	500	B-107	2
	750 MCM	M-1611	13	3-250	B-107	2

NOTES

1. Molds listed are for copper clad steel ground rods: ½" rods are 0.475" diameter, 5/8" rods are 0.563" diameter, ¾" rods are 0.682" diameter, and 1" rods are 0.914" diameter. Undersized ground rods may require shim stock or packing material.
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

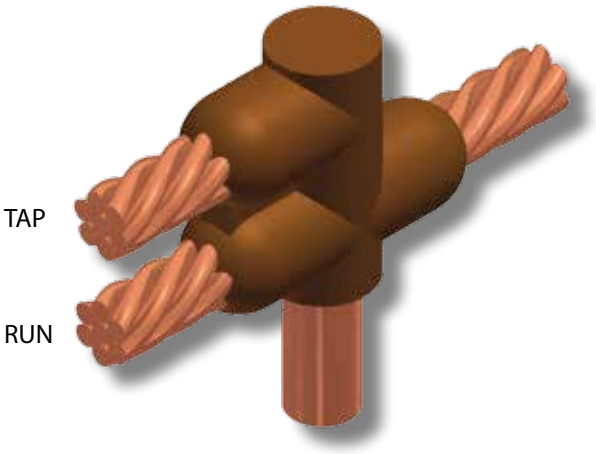
- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add suffix "-N" to mold number.
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

CR-17

TYPE MOLDS

Horizontal Run and Tap Cables to Ground Rod
For AWG Conductors

MOLDS FOR AWG CONDUCTORS						
Ground Rod Size	Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2″	#4	M-5416	4	90	B-106	2
	#2	M-6165	4	90	B-106	2
	#1	M-5830	4	90	B-106	4
	1/0	M-5940	4	115	B-106	2
	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	2
	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
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	2
	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	2
	#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



- **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 connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

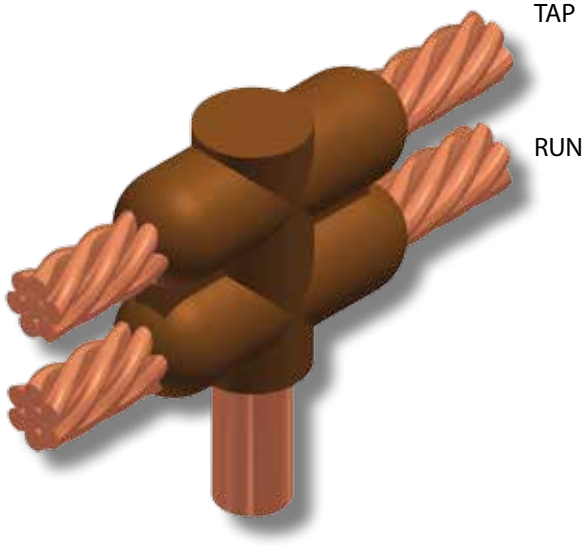
NOTES

1. Molds listed are for copper clad steel ground rods: ½″ rods are 0.475″ diameter, 5/8″ rods are 0.563″ diameter, ¾″ rods are 0.682″ diameter, and 1″ rods are 0.914″ diameter. Undersized ground rods may require shim stock or packing material.
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

CR-24

TYPE MOLDS

Horizontal Parallel Run Cables to Ground Rod
For AWG Conductors



MOLDS FOR AWG CONDUCTORS						
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	2
	#1	M-6002	4	115	B-106	4
	1/0	M-5767	4	150	B-106	2
	2/0	M-5604	4	200	B-106	2
	3/0	M-5560	4	250	B-106	4
	4/0	M-6766	4	250	B-106	4
5/8″	#4	M-6208	4	115	B-106	2
	#2	M-5702	4	150	B-106	2
	#1	M-5517	4	150	B-106	2
	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	2
	4/0	M-5428	5	2-150	B-107	2
	250 MCM	M-1212	5	2-200	B-107	2
	300 MCM	M-2084	5	500	B-107	2
	350 MCM	M-2558	5	500	B-107	4
	500 MCM	M-2450	5	3-250	B-107	2
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	2
	300 MCM	M-8428	5	500	B-107	4
	350 MCM	M-8294	5	500	B-107	4
	500 MCM	M-8214	5	3-250	B-107	4
	750 MCM	M-8027	6	2-500	B-107	2
1″	#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	2
	250 MCM	M-5338	5	500	B-107	2
	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

NOTES

1. Molds listed are for copper clad steel ground rods: ½″ rods are 0.475″ diameter, 5/8″ rods are 0.563″ diameter, ¾″ rods are 0.682″ diameter, and 1″ rods are 0.914″ diameter. Undersized ground rods may require shim stock or packing material.
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

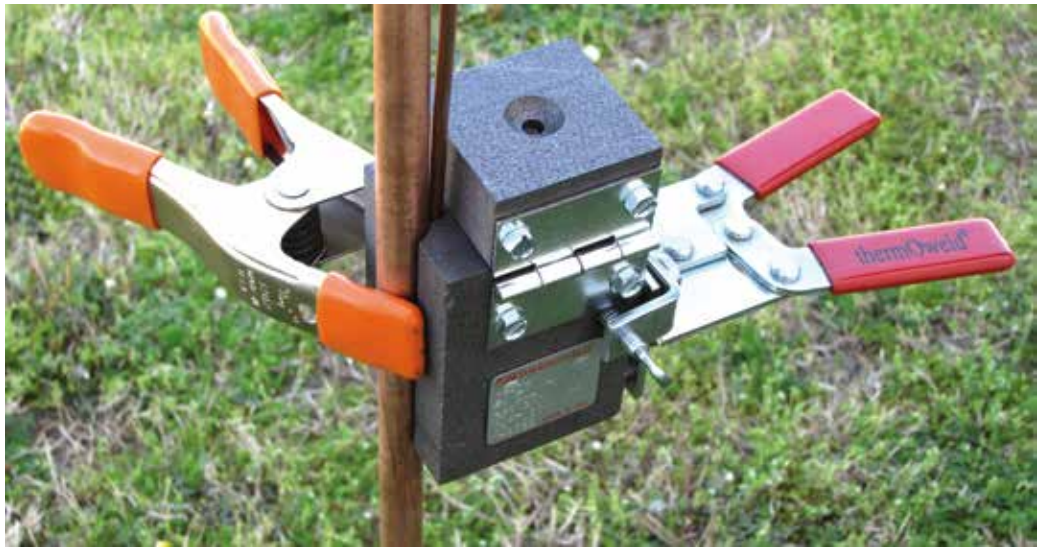
- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add suffix "-N" to mold number.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

CR-18 KITS

CR-18 WIRE-TO-GROUND KITS



thermOweld® CR-18 Wire-to-Ground Kits are an economical way to make cable connections to a ground rod. The Kit's complete with everything required to make 60 connections. Included in the Starter Kits are (1) Mold complete with handle clamp, (1) spring handle clamp, (60) weld metal cartridges, (1) flint ignitor, (1) mold cleaner, (1) wire brush for cleaning the cable and ground rod, (1) mold cleaning brush and a metal tool box to keep everything in. Refill Kits come complete with (1) replacement mold and (60) weld metal cartridges.





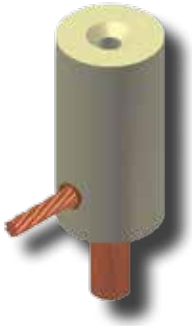
CR-18 WIRE-TO-GROUND KIT			
Kit #	Ground Rod Size	Cable Size	Description
38-6662-01	1/2"	#6 Sol	Starter Kit †
38-6662-11		#6 Sol	Refill Kit with (1) Mold M-10356-GS & (60) #25 weld metal
38-6662-02		#4 Sol	Starter Kit †
38-6662-12		#4 Sol	Refill Kit with (1) Mold M-10358-GS & (60) #25 weld metal
38-6662-03	5/8"	#6 Sol	Starter Kit †
38-6662-13		#6 Sol	Refill Kit with (1) Mold M-10357-GS & (60) #25 weld metal
38-6662-04		#4 Sol	Starter Kit †
38-6662-14		#4 Sol	Refill Kit with (1) Mold M-10359-GS & (60) #25 weld metal
38-6662-05	3/4"	#6 Sol	Starter Kit †
38-6662-15		#6 Sol	Refill Kit with (1) Mold M-10355-GS & (60) #25 weld metal
38-6662-00		#4 Sol	Starter Kit †
38-6662-10		#4 Sol	Refill Kit with (1) Mold M-9962-GS & (60) #25 weld metal

† Starter Kits include (1) mold with handle clamp, (1) spring handle clamp, (60) weld metal cartridges, (1) flint ignitor, (1) mold cleaner, (1) wire brush and (1) mold cleaning brush all in a tool box.

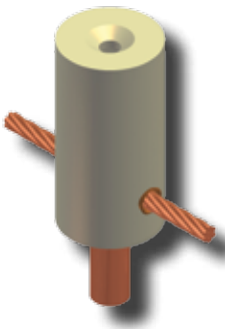
SINGLE SHOT MOLD

SINGLE SHOT MOLDS

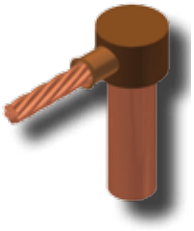
thermOweld® Single Shot Molds are an economical way to make cable connections to the top of a ground rod. The Single Shot is a disposable single use ceramic mold that includes the weld metal and disc. Flint ignitor or EZ Lite Adapter (See page 51) must be purchased separately.

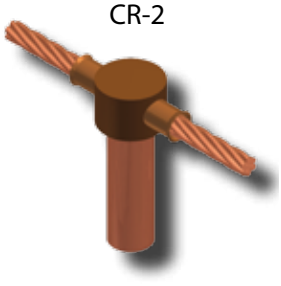


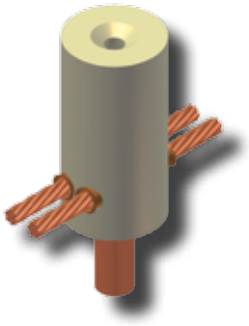
CR-1



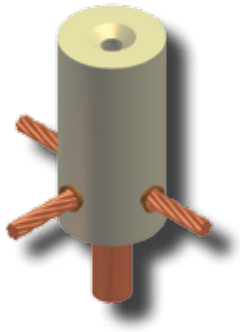
CR-2



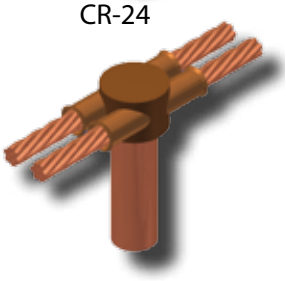


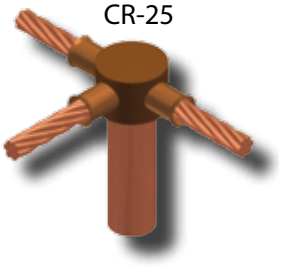


CR-24



CR-25





Grd Rod Size	Cable Size		Type	Mold # Std.*	Mold # Remote**	Lead Time
	Solid	Stranded				
1/2"	#6, #8	#8	CR-1	M-2009	M-2009-EZ	4
	#3, #4	#4, #6	CR-1	M-2010	M-2010-EZ	4
	#1, #2	#2, #3	CR-1	M-2011	M-2011-EZ	4
	#6, #8	#8	CR-2	M-2024	M-2024-EZ	4
	#3, #4	#4, #6	CR-2	M-2025	M-2025-EZ	4
	#1, #2	#2, #3	CR-2	M-2026	M-2026-EZ	4

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

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

* Standard ignition
**EZ Lite Remote® ignition, Battery Unit and Adapter sold separately.

SINGLE SHOT MOLD

EZ Lite Remote® Adapter

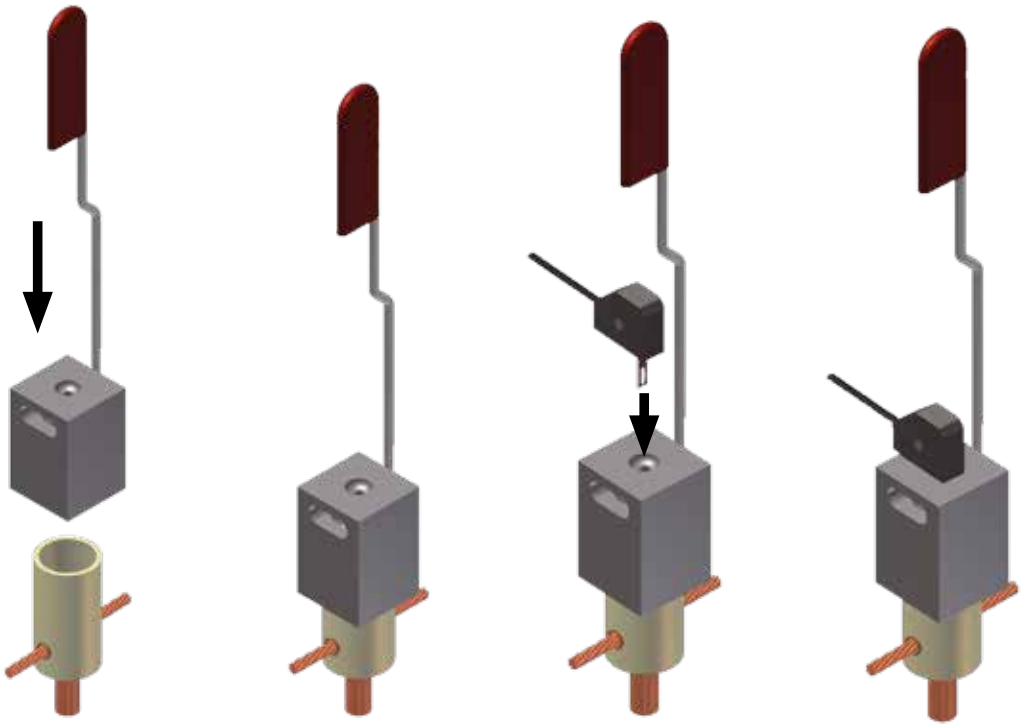
Follow steps 1 thru 10 in the Welding Instructions "Weld Procedures" that comes with the Single Shot Mold for proper installation of mold onto ground rod and how to place weld metal into mold.

Replace step 11 in the Welding Instructions "Weld Procedures" with the following;

11. Discard ceramic lid included with mold. Slide EZ Lite Remote® Single Shot Adapter over mold as shown.

Continue the instructions steps 12 through 14 in the Welding Instructions "Weld Procedures" that comes with the Single Shot Mold to complete weld.

Part Number: 38-EZLT-SS





RR-1

TYPE MOLDS

Ground Rod to Ground Rod



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 expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0304-00 ~ File

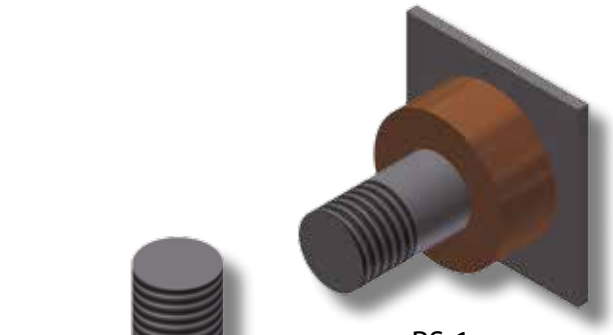
NOTES

1. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add suffix "-N" to mold number, i.e. M-581-HN is full 1/2" diameter ground rod or roll-threaded rod to 4/0 Str cable. **Undersized ground rods may require shim stock or packing material.**
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add suffix "-N" to mold number, i.e. M-582-HN is full 5/8" diameter ground rod or roll-threaded rod to 4/0 Str cable.
3. .682" actual diameter. For full 3/4" (.750) ground rod and roll-threaded rod, add suffix "-N" to mold number, i.e. M-583-HN is full 3/4" diameter ground rod or roll-threaded rod to 4/0 Str. cable.
4. .914" actual diameter. For full 1" (1.00) ground rod and roll-threaded rod, add suffix "-N" to mold number, i.e. M-584-HN is full 1" diameter ground rod or roll-threaded rod to 4/0 Str. cable.

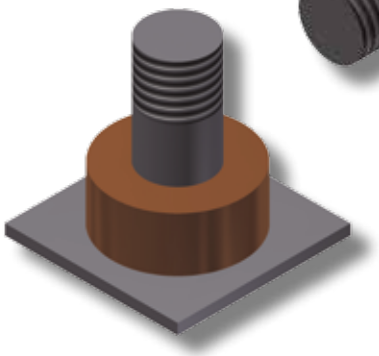
RS-1/RS-2

TYPE MOLDS

Horizontal and Vertical Stud to Steel



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	2
1"	M-1885	M-1891	4	250	B-106	2

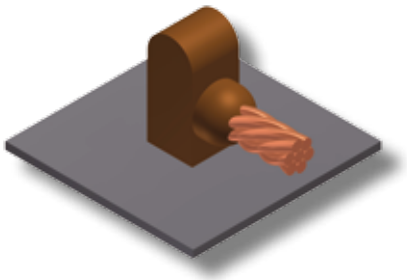
- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- Molds for copper studs available, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0101-00 ~ Rasp

CS-1

TYPE MOLDS

Horizontal Cable to Horizontal Steel Surface
For AWG Conductors

Note that the cable is **OFF** the surface



MOLDS FOR AWG CONDUCTORS										
Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/0	M-644	4	90	B-106	2	M-644-H	4	150	B-106	2
2/0	M-645	4	90	B-106	2	M-645-H	4	150	B-106	2
3/0	M-646	4	115	B-106	2	M-646-H	4	200	B-106	2
4/0	M-647	4	115	B-106	SDS	M-647-H	4	200	B-106	2
250 MCM	M-648	4	115	B-106	2	M-648-H	4	200	B-106	2
300 MCM	M-649	4	150	B-106	2	M-649-H	4	250	B-106	2
350 MCM	M-650	4	200	B-106	2	M-650-H	5	2-150	B-107	4
500 MCM	M-652	4	200	B-106	2	M-652-H	5	2-150	B-107	2
750 MCM	M-653	5	2-150	B-107	2	M-653-H	5	500	B-107	4
1000 MCM	M-654	5	2-200	B-107	4	M-654-H	5	3-200	B-107	4

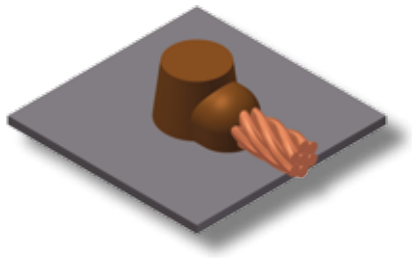
CS-8

TYPE MOLDS

Horizontal Cable to Horizontal Steel Surface
For AWG Conductors.

Note that the cable is **ON** the surface

MOLDS FOR AWG CONDUCTORS					
Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6	M-628	3†	45	Included	2
#4	M-629	3†	45	Included	2
#2	M-630	3†	45	Included	2
#2	M-630-S	3†	45	Included	SDS
#1	M-631	3†	65	Included	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	2
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 molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (Price Key 3, CS-8 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 1/0 & Larger Molds (CS-8 Molds Only)

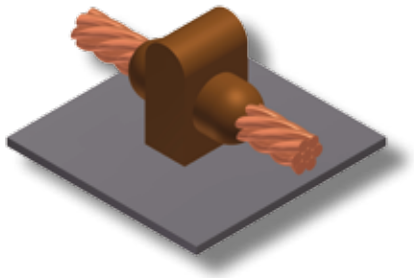
Welding to Horizontal Pipe: To weld to horizontal pipe, add pipe size to mold number. Example: To weld 4/0 str cable to 6" horizontal pipe, the mold number would be M-647-6. To weld #1 cable or smaller to pipe 14" and larger, use flat surface mold. For 1/0 cable and larger, use flat surface mold only on pipe 30" and larger.

CS-2

TYPE MOLDS

Horizontal Thru Cable to Horizontal Steel Surface
For AWG Conductors

Note that the cable is **OFF** the surface



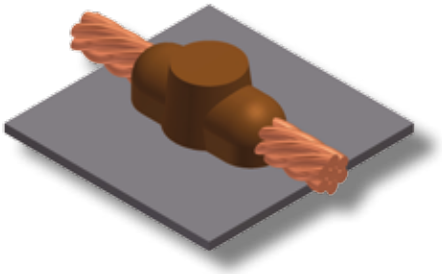
MOLDS FOR AWG CONDUCTORS										
Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/0	M-616	4	90	B-106	2	M-616-H	4	150	B-106	4
2/0	M-617	4	115	B-106	2	M-617-H	4	200	B-106	4
3/0	M-618	4	115	B-106	2	M-618-H	4	200	B-106	4
4/0	M-619	4	150	B-106	2	M-619-H	4	250	B-106	2
250 MCM	M-620	4	150	B-106	2	M-620-H	4	250	B-106	4
300 MCM	M-621	4	200	B-106	2	M-621-H	5	2-150	B-107	4
350 MCM	M-622	4	250	B-106	4	M-622-H	5	2-200	B-107	4
500 MCM	M-624	5	2-150	B-107	2	M-624-H	5	500	B-107	4
750 MCM	Use Heavy Duty Connection					M-625-H	5	3-250	B-107	4
1000 MCM						M-626-H	5	2-500	B-107	4

CS-9

TYPE MOLDS

Horizontal Thru Cable to Horizontal Steel Surface
For AWG Conductors

Note that the cable is **ON** the surface



MOLDS FOR AWG CONDUCTORS					
Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6	M-602	3†	45	Included	2
#4	M-603	3†	45	Included	2
#2	M-604	3†	45	Included	2
#1	M-605	3†	65	Included	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	2
4/0	M-7192	4	150	B-106	2
250 MCM	M-8413	4	150	B-106	2
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	2

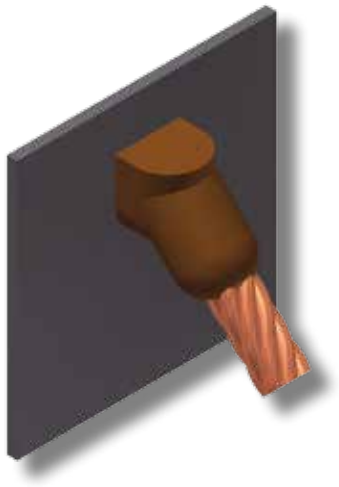
- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (Price Key 3, CS-9 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 1/0 & Larger Molds (CS-9 Molds Only)

Welding to Horizontal Pipe: To weld to horizontal pipe, add pipe size to mold number. Example: To weld 4/0 str cable to 6" horizontal pipe, the mold number would be M-619-6. To weld #1 cable or smaller to pipe 14" and larger, use flat surface mold. For 1/0 cable and larger, use flat surface mold only on pipe 30" and larger.

CS-3

TYPE MOLDS

Angular Cable Drop to Vertical Steel Surface
For AWG Conductors



MOLDS FOR AWG CONDUCTORS										
Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6	M-585	4	45	B-106	2	M-585-H	4	65	B-106	2
#4	M-586	4	45	B-106	2	M-586-H	4	65	B-106	2
#2	M-588	4	45	B-106	SDS	M-588-H	4	90	B-106	2
#1	M-589	4	65	B-106	2	M-589-H	4	115	B-106	2
1/0	M-590	4	90	B-106	SDS	M-590-H	4	150	B-106	2
2/0	M-591	4	90	B-106	SDS	M591-H	4	150	B-106	2
3/0	M-592	4	115	B-106	2	M-592-H	4	200	B-106	4
4/0	M-593	4	115	B-106	SDS	M-593-H	4	200	B-106	2
250 MCM	M-594	4	115	B-106	2	M-594-H	4	200	B-106	2
300 MCM	M-595	4	150	B-106	2	M-595-H	4	250	B-106	4
350 MCM	M-596	4	200	B-106	2	M-596-H	4	250	B-106	4
500 MCM	M-598	4	200	B-106	2	M-598-H	5	2-150	B-107	2
750 MCM	M-599	5	2-150	B-107	2	M-599-H	5	500	B-107	4
1000 MCM	M-600	5	2-200	B-107	2	M-600-H	5	3-200	B-107	4

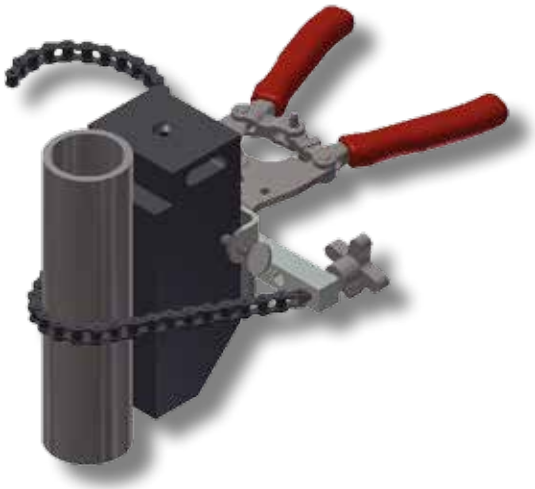
- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0106-32 ~ Vertical Chain Clamp w/ B-106 Handles
  40-0107-32 ~ Vertical Chain Clamp w/ B-107 Handles
  40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp

CS-3

TYPE MOLDS

Angular Cable Drop to Vertical Steel Pipe
For AWG Conductors





Use 40-0106-32 Vertical Chain Clamps to help hold mold to pipe

MOLDS FOR AWG CONDUCTORS						
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	SDS
	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	2
	4" to 6"	M-2483	4	65	B-106	2
	6" to 10"	M-2484	4	65	B-106	2
	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	SDS
2/0	1 1/4" to 4"	M-8833	4	90	B-106	SDS
	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	SDS
	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 molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0106-32 ~ Vertical Chain Clamp w/ B-106 Handles for 4" Pipe & smaller
  40-0106-27 ~ 20" Chain Extension for 4" to 10" Pipe
  Use (2) 20" Chain Extensions for pipe sizes between 10" and 16"
  40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp

‡ Flat Surface Mold

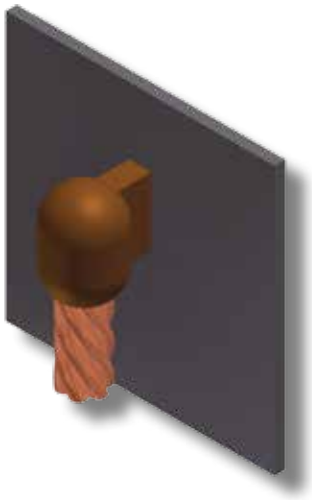
CS-23

TYPE MOLDS

Vertical Cable Drop to Vertical Steel Surface

For AWG Conductors

Note that the cable is **OFF** the surface



MOLDS FOR AWG CONDUCTORS										
Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6	M-5389	4	45	B-106	2	M-5389-H	4	90	B-106	4
#4	M-5359	4	65	B-106	2	M-5359-H	4	115	B-106	2
#2	M-2781	4	65	B-106	2	M-2781-H	4	115	B-106	2
#2 Sol	M-2781-S	4	65	B-106	SDS	M-2781-HS	4	115	B-106	2
#1	M-5361	4	90	B-106	4	M-5361-H	4	150	B-106	4
1/0	M-2189	4	115	B-106	2	M-2189-H	4	200	B-106	2
2/0	M-2540	4	115	B-106	SDS	M-2540-H	4	200	B-106	2
3/0	M-5362	4	150	B-106	2	M-5362-H	4	250	B-106	2
4/0	M-8718	4	150	B-106	SDS	M-8718-H	4	250	B-106	2
250 MCM	M-8165	4	200	B-106	2	M-8165-H	17	2-150	B-106	4
300 MCM	M-5363	4	200	B-106	2	M-5363-H	17	2-150	B-106	2
350 MCM	M-9029	4	250	B-106	2	M-9029-H	5	2-200	B-107	4
500 MCM	M-8512	17	2-150	B-106	2	M-8512-H	6	500	B-107	2

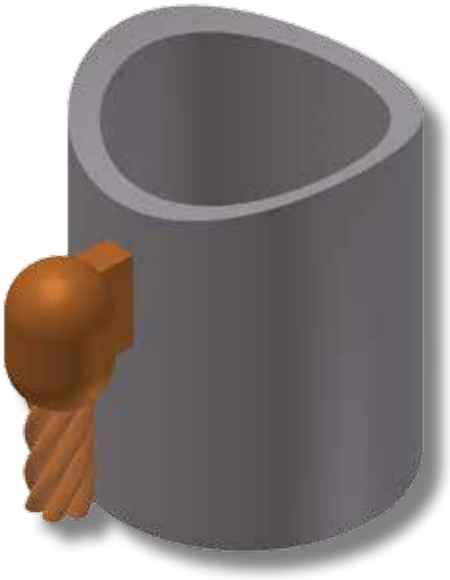
- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0106-32 ~ Vertical Chain Clamp w/ B-106 Handles for 4" Pipe & smaller
  40-0106-27 ~ 20" Chain Extension for 4" to 10" Pipe
  Use (2) 20" Chain Extensions for pipe sizes between 10" and 16"
  40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp

CS-23

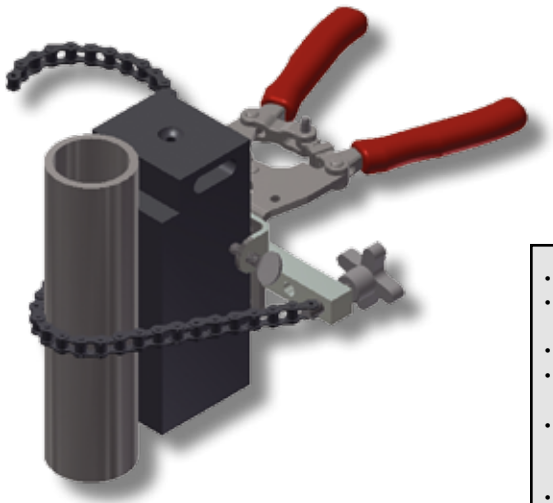
TYPE MOLDS

Vertical Cable Drop to Vertical Steel Pipe
For AWG Conductors

Note that the cable is **OFF** the surface



MOLDS FOR AWG CONDUCTORS						
Cable Size	Pipe Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#4	1 1/4" to 4"	M-8591	4	65	B-106	2
	4" to 6"	M-10521	4	65	B-106	4
	6" to 10"	M-10523	4	65	B-106	4
	12" & up	M-10524 ‡	4	65	B-106	4
#2 Sol	1 1/4" to 4"	M-6199-S	4	65	B-106	SDS
	4" to 6"	M-10528-S	4	65	B-106	4
	6" to 10"	M-10529-S	4	65	B-106	4
	12" & up	M-10530-S ‡	4	65	B-106	4
#2	1 1/4" to 4"	M-6199	4	65	B-106	4
	4" to 6"	M-10528	4	65	B-106	4
	6" to 10"	M-10529	4	65	B-106	2
	12" & up	M-10530 ‡	4	65	B-106	2
#1	1 1/4" to 4"	M-10531	4	90	B-106	2
	4" to 6"	M-10532	4	90	B-106	4
	6" to 10"	M-10533	4	90	B-106	4
	12" & up	M-10534 ‡	4	90	B-106	4
1/0	1 1/4" to 4"	M-10535	4	115	B-106	2
	4" to 6"	M-1147	4	115	B-106	4
	6" to 10"	M-10536	4	115	B-106	2
	12" & up	M-10537 ‡	4	115	B-106	4
2/0	1 1/4" to 4"	M-10538	4	115	B-106	2
	4" to 6"	M-10539	4	115	B-106	4
	6" to 10"	M-10540	4	115	B-106	4
	12" & up	M-10541 ‡	4	115	B-106	4
4/0	1 1/4" to 4"	M-5622	4	150	B-106	2
	4" to 6"	M-7381	4	150	B-106	2
	6" to 10"	M-10365	4	150	B-106	2
	12" & up	M-10542 ‡	4	150	B-106	4



Use 40-0106-32 Vertical Chain Clamps to help hold mold to pipe

- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0106-32 ~ Vertical Chain Clamp w/ B-106 Handles for 4" Pipe & smaller
  40-0106-27 ~ 20" Chain Extension for 4" to 10" Pipe
  Use (2) 20" Chain Extensions for pipe sizes between 10" and 16"
  40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp

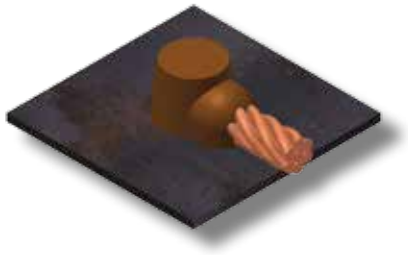
‡ Flat Surface Mold

CS-5

TYPE MOLDS

Horizontal Cable Tap to Horizontal Cast Iron Surface
For AWG Conductors

Note that the cable is **ON** the surface



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 metallugical effects.

Welding to Horizontal Pipe: To weld to horizontal cast iron pipe, add pipe size to mold number. Example: To weld #1 STR cable to 6" horizontal cast iron pipe, the mold number would be M-1620-6. To weld #1 cable or smaller to pipe 14" and larger, use flat surface mold.

MOLDS FOR AWG CONDUCTORS

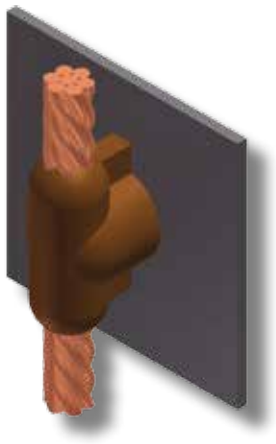
Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6 Sol	M-1613	3†	25Cl	Included	2
#6	M-1614	3†	25Cl	Included	2
#4 Sol	M-1615	3†	45Cl	Included	2
#4	M-1616	3†	45Cl	Included	2
#2 Sol	M-1617	3†	45Cl	Included	2
#2	M-1618	3†	45Cl	Included	2
#1 Sol	M-1619	3†	65Cl	Included	4
#1	M-1620	3†	65Cl	Included	4

CS-4

TYPE MOLDS

Vertical Thru Cable to Vertical Steel Surface
For AWG Conductors

Note that the cable is **OFF** the surface



MOLDS FOR AWG CONDUCTORS

Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6	M-1215	4	90	B-106	2	M-1215-H	17	200	B-106	4
#4	M-1216	4	90	B-106	2	M-1216-H	17	200	B-106	4
#2	M-1218	4	115	B-106	2	M-1218-H	17	250	B-106	4
#1	M-1219	4	115	B-106	2	M-1219-H	17	250	B-106	4
1/0	M-1220	17	200	B-106	2	M-1220-H	6	2-200	B-107	4
2/0	M-1221	17	200	B-106	2	M-1221-H	6	2-200	B-107	2
3/0	M-1222	17	250	B-106	2	M-1222-H	6	500	B-107	4
4/0	M-1223	17	250	B-106	2	M-1223-H	6	500	B-107	2
250 MCM	M-1224	17	250	B-106	2	M-1224-H	6	500	B-107	4
300 MCM	Use Heavy Duty Molds					M-1225-H	6	500	B-107	2
350 MCM						M-1226-H	6	3-200	B-107	2
500 MCM						M-1228-H	6	3-250	B-107	2

Welding to Vertical Pipe: To weld to vertical pipe, add pipe size to mold number. Example: To weld 4/0 str cable to 6" vertical pipe, the mold number would be M-1223-V6. To weld #1 cable or smaller to pipe 14" and larger, use flat surface mold. For 1/0 cable and larger, use flat surface mold only on pipe 30" and larger.

- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (CS-5 Mold Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 1/0 & Larger Molds (CS-5 Molds Only)

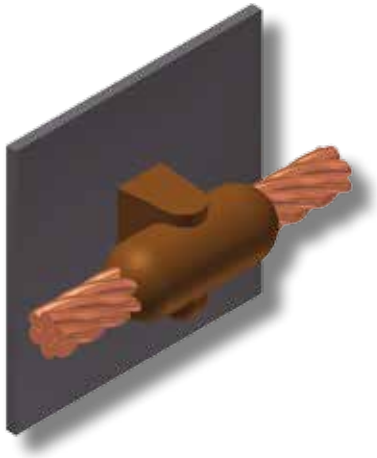
CS-6

TYPE MOLDS

Horizontal Thru Cable to Vertical Steel Surface

For AWG Conductors

Note that the cable is **OFF** the surface



MOLDS FOR AWG 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	2
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

Welding to Vertical Pipe: To weld to vertical pipe, add pipe size to mold number. Example: To weld 4/0 str cable to 6" vertical pipe, the mold number would be M-1633-V6. To weld #1 cable or smaller to pipe 14" and larger, use flat surface mold. For 1/0 cable and larger, use flat surface mold only on pipe 30" and larger.

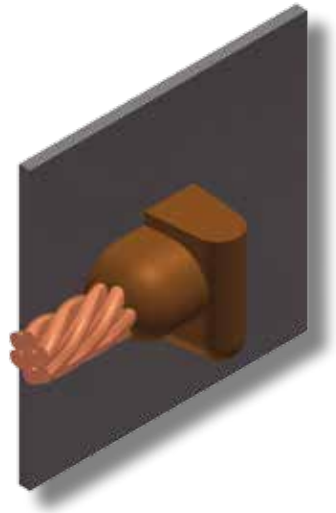
CS-18

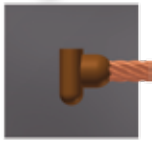
TYPE MOLDS

Horizontal Tap Cable to Vertical Steel Surface

For AWG Conductors

Note that the cable is **ON** the surface





Left Hand Mold



Right Hand Mold

MOLDS FOR AWG CONDUCTORS					
Cable Size	Mold #†	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	2
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	2
500 MCM	M-8359	4	200	B-106	2

† 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.

Welding to Horizontal Pipe: To weld to horizontal pipe, add pipe size to mold number. Example: To weld 4/0 str cable to 6" horizontal pipe, the mold number would be M-9253-L6.

- **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 connections , contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  - 38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  - 40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (CS-6 Molds Only)
  - 40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500 (CS-6 Molds Only)
  - 38-3922-00 ~ Mold Cleaning Brush
  - 38-0135-00 ~ Cable Cleaning Brush
  - 38-0101-00 ~ Rasp
  - 38-4129-00 ~ Packing Material for 1/0 & Larger Molds (CS-18 Molds Only)

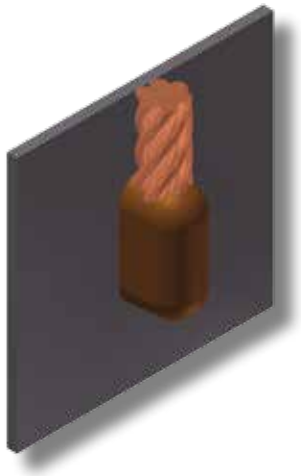
CS-7

TYPE MOLDS

Overhead Vertical Tap Cable to Vertical SteelSurface

For AWG Conductors

Note that the cable is **ON** the surface



MOLDS FOR AWG CONDUCTORS										
Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6	M-1635	4	65	B-106	2	M-1635-H	4	90	B-106	4
#4	M-1636	4	65	B-106	2	M-1636-H	4	115	B-106	2
#2	M-1638	4	65	B-106	2	M-1638-H	4	115	B-106	2
#2 SOL	M-1638-S	4	65	B-106	2	M-1638-HS	4	115	B-106	2
#1	M-1639	4	90	B-106	2	M-1639-H	4	150	B-106	4
1/0	M-1640	4	150	B-106	2	M-1640-H	17	200	B-106	4
2/0	M-1641	4	150	B-106	2	M-1641-H	17	200	B-106	2
3/0	M-1642	17	200	B-106	2	M-1642-H	17	250	B-106	4
4/0	M-1643	17	200	B-106	2	M-1643-H	17	250	B-106	2
250 MCM	M-1644	17	200	B-106	2	M-1644-H	6	2-150	B-107	4
300 MCM	M-1645	17	250	B-106	4	M-1645-H	6	2-200	B-107	4
350 MCM	M-1646	6	2-150	B-107	2	M-1646-H	6	500	B-107	4
500 MCM	M-1648	6	2-200	B-107	2	M-1648-H	6	3-200	B-107	4
750 MCM	M-1649	6	500	B-107	2	Not Available				
1000 MCM	M-1650	6	3-200	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 expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp

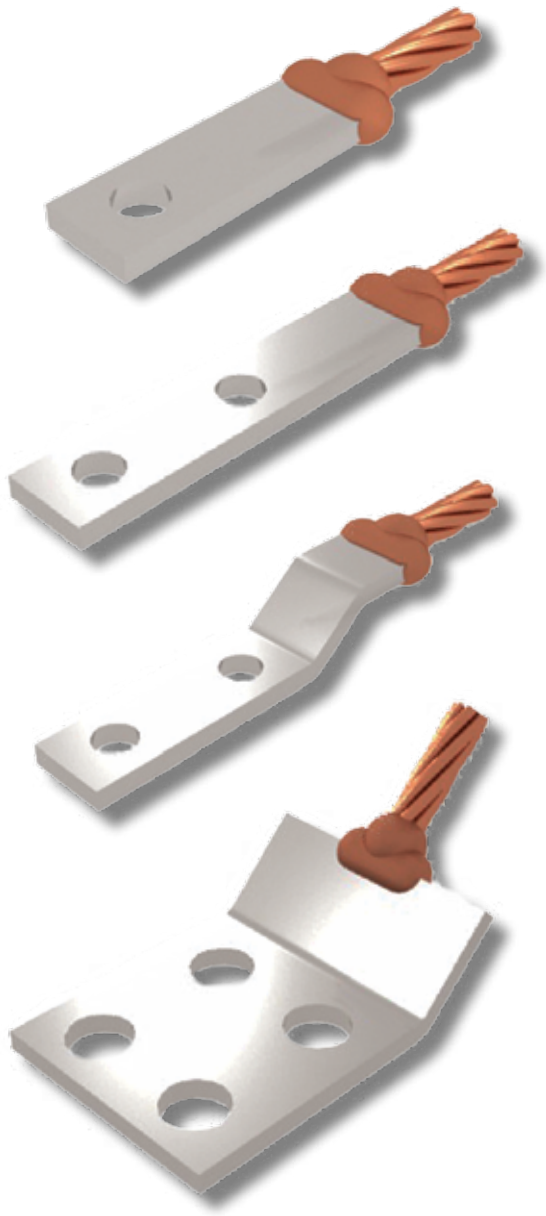
Welding to Vertical Pipe: To weld to vertical pipe, add pipe size to mold number. Example: To weld 4/0 str cable to 6" vertical pipe, the mold number would be M-1643-V6. To weld #1 cable or smaller to pipe 14" and larger, use flat surface mold. For 1/0 cable and larger, use flat surface mold only on pipe 30" and larger.

CB-1

TYPE MOLDS

Horizontal Cable Tap to Horizontal Lug or Bus
For AWG Conductors

See pages 159-160 for Lug part numbers.



Examples of connections with available lug configurations. See pages 159-160 for Lug part nos.

MOLDS FOR AWG CONDUCTORS						
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
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	2
	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	2
	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	2
	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	2
	3/8 X 1-1/2	M-1007	5	2-150	B-107	2
	3/8 X 2	M-1008	5	2-150	B-107	2
	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

- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For molds with wear plates, see page 135.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles), 38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush, 38-0135-00 ~ Cable Cleaning Brush

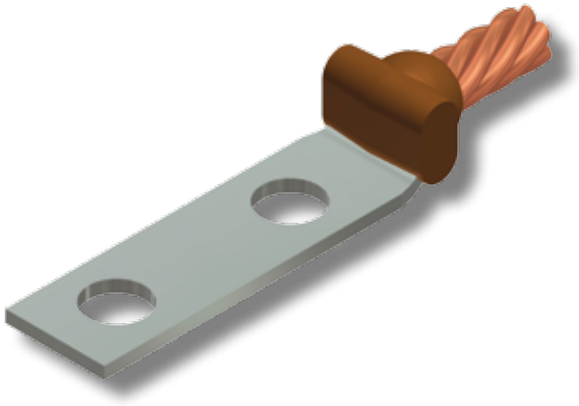
CB-33

TYPE MOLDS

Horizontal Cable Tap to Horizontal Lug or Bus

For AWG Conductors

See page 161 for Lug part numbers.



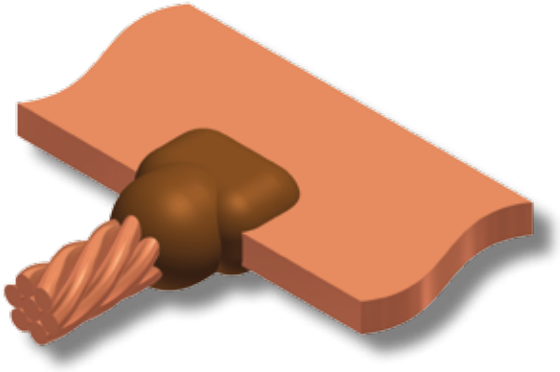
MOLDS FOR AWG CONDUCTORS						
Cable Size	Lug Size (See Lugs Below)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#4	1/8 X 1	M-2035	4	32	B-106	2
#2 Sol	1/8 X 1	M-2036-S	4	32	B-106	2
#2	1/8 X 1	M-2036	4	32	B-106	2
#1	1/8 X 1	M-2037	4	32	B-106	2
1/0	1/8 X 1	M-2038	4	45	B-106	2
2/0	1/8 X 1	M-2039	4	45	B-106	2
4/0	3/16 X 1	M-2041	4	65	B-106	2
250 MCM	3/16 X	M-2042	4	65	B-106	2
300 MCM	1/4 X 1	M-2043	4	90	B-106	2
350 MCM	1/4 X 1	M-2044	4	90	B-106	4
500 MCM	1/4 X 1-1/2	M-2045	4	150	B-106	2

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush

CB-4

TYPE MOLDS

Horizontal Cable Tap to Horizontal Bus
For AWG Conductors



MOLDS FOR AWG CONDUCTORS						
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
	#2 Sol	M-5415-S	4	65	B-106	SDS
	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
	500 MCM	M-1659	4	200	B-106	2
3/8 X 1-1/2 & WIDER	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	2
	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
	500 MCM	M-1668	4	250	B-106	2
	750 MCM	M-1669	5	2-150	B-107	2
	1000 MCM	M-1670	5	2-200	B-107	4
1/2 X 1-1/2 & WIDER	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 connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush

CB-2

TYPE MOLDS

Vertical Overhead Tap to Horizontal Bus
For AWG Conductors

MOLDS FOR AWG CONDUCTORS						
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	2
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	2
	500 MCM	M-846	4	2-150	B-106	4
1/4 X 1-1/2 & WIDER	#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	2
	350 MCM	M-852	4	200	B-106	2
	500 MCM	M-854	4	2-150	B-106	2
	750 MCM	M-855	5	2-200	B-107	2
3/8 X 1	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
3/8 X 1-1/2 & WIDER	1/0	M-867	4	150	B-106	2
	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
	750 MCM	M-875	5	2-200	B-107	4
1/2 X 1	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
	500 MCM	M-884	5	2-150	B-107	4
	750 MCM	M-885	5	500	B-107	4
1/2 X 1-1/2 & WIDER	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



- **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 connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush

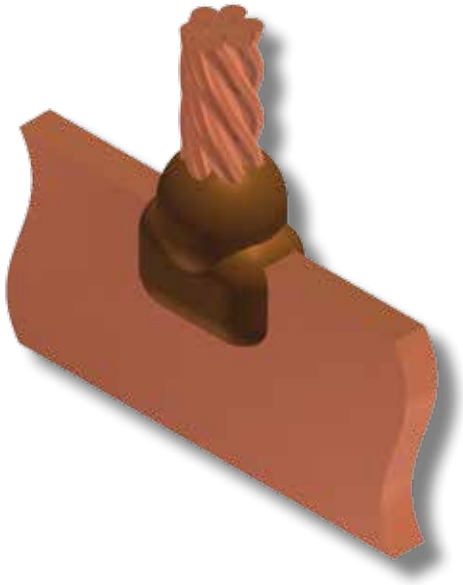
CB-6

TYPE MOLDS

Vertical Overhead Tap to Horizontal Bus

For AWG Conductors

CB-6 Type Molds are use where there are ***space restrictions*** such as another surface ¾" to 5" from the bus bar.



MOLDS FOR AWG CONDUCTORS						
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	2
	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	2
	350 MCM	M-906	7†	150	B-106	4
1/4" X 1	1/0	M-907	7†	150	B-106	2
	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	2
	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	2
	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
3/8 X 1-1/2 & WIDER	1/0	M-935	7†	150	B-106	4
	2/0	M-936	7†	150	B-106	2
	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
	750 MCM	M-943	8†	2-200	B-107	4
1/2 X 1	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
	500 MCM	M-952	8†	2-150	B-107	4
	750 MCM	M-953	8†	500	B-107	4
1/2 X 1-1/2 & WIDER	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

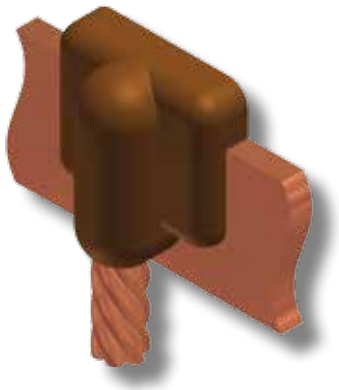
- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush

CB-3

TYPE MOLDS

Vertical Drop Tap to Horizontal Bus

For AWG Conductors



MOLDS FOR AWG CONDUCTORS

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	2
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	2
	300 MCM	M-663	4	150	B-106	2
	350 MCM	M-664	4	150	B-106	2
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
	500 MCM	M-672	4	250	B-106	2
1/4 X 1-1/2	#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
	500 MCM	M-680	4	250	B-106	4
	750 MCM	M-681	5	2-200	B-107	2
1/4 X 2	#2	M-5567	4	90	B-106	2
	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	2
	350 MCM	M-687	4	200	B-106	4
	500 MCM	M-689	4	250	B-106	2
	750 MCM	M-690	5	2-200	B-107	4
	1000 MCM	M-691	5	500	B-107	4
1/4 X 3 & WIDER	#2	M-5944	4	90	B-106	2
	1/0	M-692	4	115	B-106	2
	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	2
	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

MOLDS FOR AWG CONDUCTORS

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	2
	750 MCM	M-710	5	2-200	B-107	4
	1000 MCM	M-711	5	500	B-107	4
3/8 X 2 & WIDER	1/0	M-712	4	115	B-106	2
	2/0	M-713	4	115	B-106	4
	4/0	M-714	4	150	B-106	2
	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
	750 MCM	M-720	5	2-200	B-107	4
	1000 MCM	M-721	5	500	B-107	4
1/2 X 2	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
	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
1/2 X 3 & WIDER	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 connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush

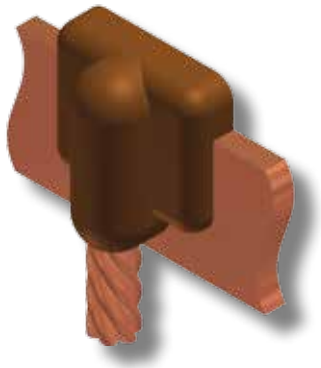
CB-7

TYPE MOLDS

Vertical Drop Tap to Horizontal Bus

For AWG Conductors

CB-7 Type Molds are used where there are ***space restrictions*** such as another surface ¾" to 5" from the bus bar.



MOLDS FOR AWG CONDUCTORS						
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	2
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
	500 MCM	M-759	7†	250	B-106	4
1/4 X 1-1/2	#2	M-8551	7†	90	B-106	4
	1/0	M-760	7†	115	B-106	2
	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
	500 MCM	M-767	7†	250	B-106	4
	750 MCM	M-768	8†	2-200	B-107	4
1/4 X 2	#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
	750 MCM	M-777	8†	2-200	B-107	4
	1000 MCM	M-778	8†	500	B-107	4
1/4 X 3 & WIDER	#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	4

MOLDS FOR AWG CONDUCTORS						
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	2
	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	2
	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

- **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 connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush

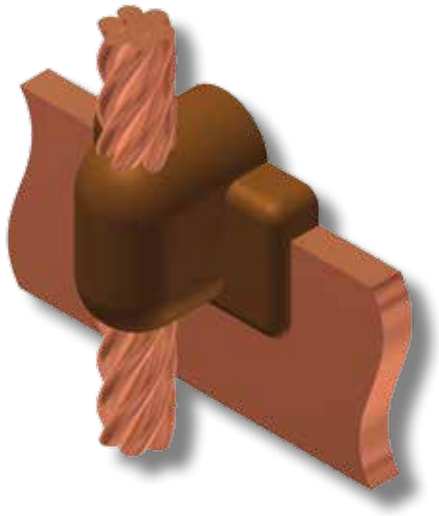
CB-29

TYPE MOLDS

Horizontal Bus to Vertical Cable Run

For AWG Conductors

MOLDS FOR AWG CONDUCTORS						
Bus Bar Size	**Cable Size**	**Mold #**	**Price Key**	**Weld Metal**	**Handle Clamps**	**Lead Time**
1/4 X 2 & Wider	#2	M-6922	7†	250	B-106	2
	#2 Sol	M-6922-S	7†	250	B-106	2
	1/0	M-6758	8†	2-200	B-107	4
	2/0	M-6363	8†	2-200	B-107	2
	4/0	M-6184	8†	500	B-107	2
	250 MCM	M-9937	8†	500	B-107	2
	500 MCM	M-6183	8†	500	B-107	2
	750 MCM	M-10543	8†	3-200	B-107	4
3/8 X 2 & WIDER	#2	M-10544	7†	250	B-106	4
	#2 Sol	M-10545	7†	250	B-106	4
	1/0	M-10546	8†	2-200	B-107	4
	2/0	M-10547	8†	2-200	B-107	4
	4/0	M-10548	8†	500	B-107	4
	250 MCM	M-10549	8†	500	B-107	4
	500 MCM	M-10550	8†	500	B-107	4
	750 MCM	M-10551	8†	3-200	B-107	4
1/2 X 2 & WIDER	#2	M-10552	8†	2-150	B-107	4
	#2 Sol	M-10553	8†	2-150	B-107	4
	1/0	M-10554	8†	500	B-107	4
	2/0	M-10555	8†	500	B-107	4
	4/0	M-10556	8†	3-200	B-107	4
	250 MCM	M-10557	8†	3-200	B-107	4
	500 MCM	M-10558	8†	3-200	B-107	4
	750 MCM	M-10559	8†	3-250	B-107	4

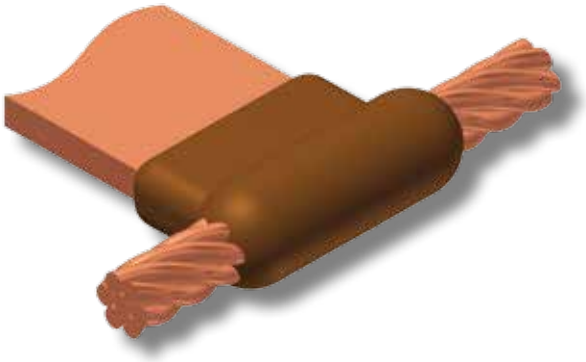


- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush

CB-5

TYPE MOLDS

Horizontal Bus Tap to Horizontal Cable Run
For AWG Conductors



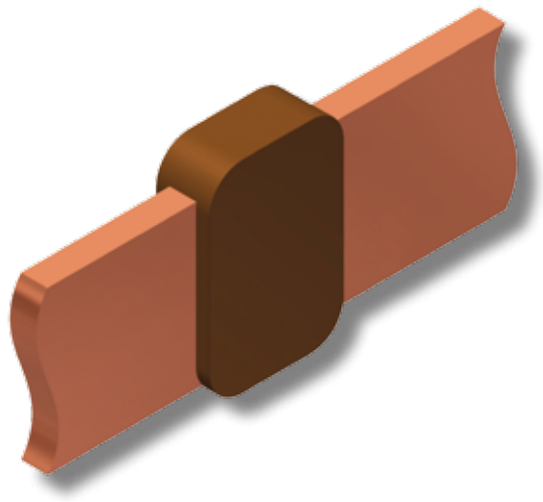
MOLDS FOR AWG CONDUCTORS						
Cable Size	Lug Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/0	1/8 X 1	M-1682	4	65	B-106	4
	1/4 X 1	M-1683	4	90	B-106	4
2/0	1/8 X 1	M-1684	4	90	B-106	2
	1/4 X 1	M-1685	4	115	B-106	2
4/0	3/16 X 1	M-1690	4	150	B-106	2
	1/4 X 1	M-1691	4	150	B-106	2
	1/4 X 1-1/2	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	2
	1/4 X 1-1/2	M-1695	4	200	B-106	4
	1/4 X 2	M-1696	4	250	B-106	2
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 connections , contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush

BB-1

TYPE MOLDS

Horizontal Bus End to End



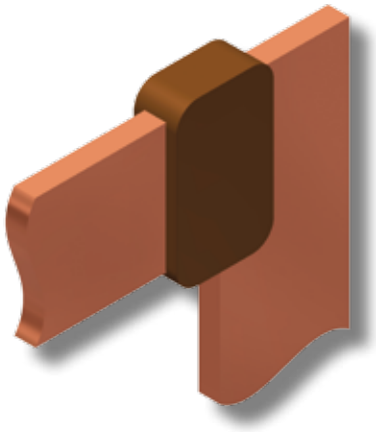
Bus Bar Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/8 X 1	M-1118	4	45	B-106	2
1/8 X 2	M-1119	4	90	B-106	2
3/16 X 1	M-1120	4	65	B-106	2
3/16 X 2	M-1121	4	115	B-106	4
1/4 X 1	M-1122	4	90	B-106	2
1/4 X 1-1/4	M-1123	4	115	B-106	2
1/4 X 1-1/2	M-1124	4	150	B-106	2
1/4 X 2	M-1125	4	200	B-106	2
1/4 X 3	M-1126	5	2-200	B-107	2
1/4 X 4	M-1127	5	500	B-107	2
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	2
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	2

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0305-00 ~ Card Cloth Brush

BB-2

TYPE MOLDS

Horizontal to Vertical at Right Angle

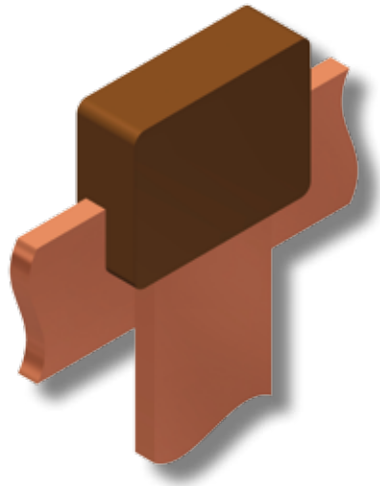


Bus Bar Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/8 X 1	M-1230	4	45	B-106	2
1/8 X 2	M-1231	4	90	B-106	4
3/16 X 1	M-1232	4	65	B-106	2
3/16 X 2	M-1233	4	115	B-106	2
1/4 X 1	M-1234	4	90	B-106	4
1/4 X 1-1/4	M-1235	4	115	B-106	4
1/4 X 1-1/2	M-1236	4	150	B-106	2
1/4 X 2	M-1237	4	200	B-106	2
1/4 X 3	M-1238	5	2-200	B-107	2
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	2
1/2 X 4	M-1250	6	2-500	B-107	4

BB-3

TYPE MOLDS

Vertical Drop Tap to Horizontal Run



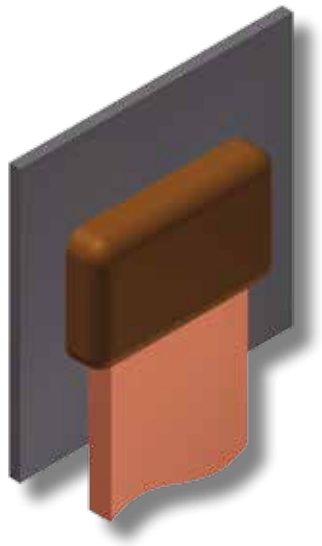
Bus Bar Size		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
1/8 X 1	1/8 X 1	M-1098	4	90	B-106	2
1/8 X 2 & WIDER	1/8 X 2	M-1099	4	200	B-106	4
3/16 X 1	3/16 X 1	M-1100	4	115	B-106	2
3/16 X 2 & WIDER	3/16 X 2	M-1101	4	200	B-106	2
1/4 X 1	1/4 X 1	M-1102	4	150	B-106	2
1/4 X 1-1/4	1/4 X 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	2
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 connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0305-00 ~ Card Cloth Brush

BS-1

TYPE MOLDS

Vertical Tap to Vertical Steel Surface

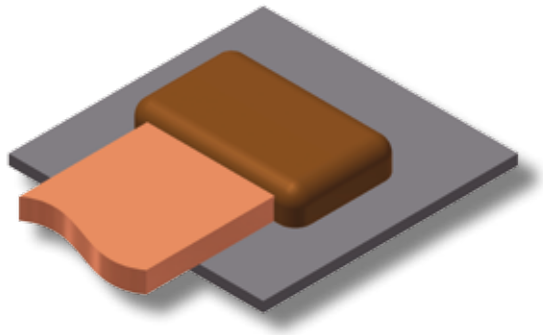


Bus Bar Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/8 X 2	M-1044	4	200	B-106	4
1/4 X 1	M-1045	4	150	B-106	2
1/4 X 1-1/4	M-1046	4	200	B-106	4
1/4 X 1-1/2	M-1047	4	250	B-106	2
1/4 X 2	M-1048	5	2-150	B-107	2
3/8 X 1	M-1049	4	200	B-106	4
3/8 X 2	M-1050	5	2-200	B-107	4
1/2 X 1	M-1051	4	250	B-106	4
1/2 X 2	M-1052	5	500	B-107	4

BS-2

TYPE MOLDS

Horizontal Tap to Horizontal Steel Surface



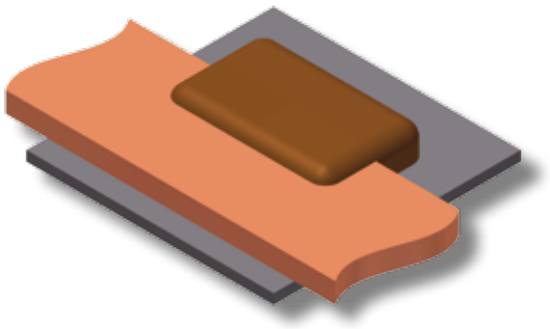
Bus Bar Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/8 X 1	M-1072	4	115	B-106	2
1/8 X 1-1/2	M-1073	4	150	B-106	2
1/8 X 2	M-1074	4	200	B-106	4
3/16 X 1	M-1075	4	150	B-106	2
3/16 X 2	M-1076	4	250	B-106	4
1/4 X 1	M-1077	4	150	B-106	4
1/4 X 1-1/4	M-1078	4	200	B-106	4
1/4 X 1-1/2	M-1079	4	250	B-106	4
1/4 X 2	M-1080	5	2-150	B-107	2
3/8 X 1	M-1081	4	200	B-106	2
3/8 X 1-1/2	M-1082	4	250	B-106	2
3/8 X 2	M-1083	5	2-200	B-107	2
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 connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0306-00 ~ Card Cloth Brush
  38-0101-00 ~ Rasp

BS-3

TYPE MOLDS

Horizontal Thru Bar to Horizontal Steel Surface

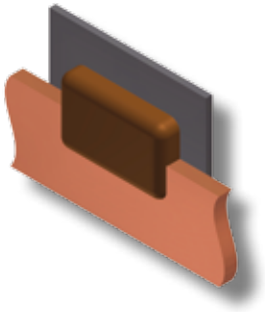


Bus Bar Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/8 X 1	M-1088	4	115	B-106	4
1/8 X 1-1/2 & WIDER	M-1089	4	150	B-106	2
1/4 X 1	M-1090	4	150	B-106	4
1/4 X 1-1/4	M-1091	4	200	B-106	4
1/4 X 1-1/4 & WIDER	M-1092	4	250	B-106	4
3/8 X 1	M-1093	4	200	B-106	4
3/8 X 1-1/2 & WIDER	M-1094	4	250	B-106	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

BS-4 / BS-5

TYPE MOLDS

Horizontal or Vertical Thru Bar to Vertical Steel Surface



BS-4



BS-5

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0306-00 ~ Card Cloth Brush
  38-0101-00 ~ Rasp

BS-4 MOLD

Bus Bar Size	Mold # BS-4	Price Key	Weld Metal	Handle Clamps	Lead Time
1/8 X 1	M-1054	4	115	B-106	4
1/8 X 2 & WIDER	M-1055	4	200	B-106	4
1/4 X 1	M-1056	4	150	B-106	2
1/4 X 2 & WIDER	M-1057	5	2-150	B-107	2
3/8 X 1	M-1058	4	200	B-106	4
3/8 X 2 & WIDER	M-1059	5	2-200	B-107	4
1/2 X 1	M-1060	4	250	B-106	2
1/2 X 2 & WIDER	M-1061	5	500	B-107	4

BS-5 MOLD

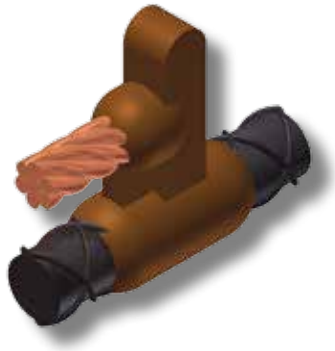
Bus Bar Size	Mold # BS-5	Price Key	Weld Metal	Handle Clamps	Lead Time
1/8 X 1	M-1063	4	115	B-106	2
1/8 X 2 & WIDER	M-1064	4	200	B-106	4
1/4 X 1	M-1065	4	150	B-106	2
1/4 X 2 & WIDER	M-1066	5	2-150	B-107	2
3/8 X 1	M-1067	4	200	B-106	4
3/8 X 2 & WIDER	M-1068	5	2-200	B-107	4
1/2 X 1	M-1069	4	250	B-106	4
1/2 X 2 & WIDER	M-1070	5	500	B-107	4

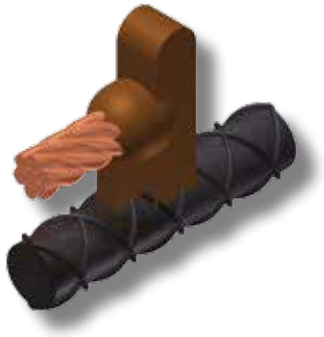
CRE-1

TYPE MOLDS

Horizontal Parallel Tap
For AWG Conductors

MOLDS FOR AWG CONDUCTORS							
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	2
	#4	M-7501	38-0329	4	32	B-106	2
	#2	M-7502	38-0329	4	45	B-106	2
	#1	M-7503	38-0329	4	65	B-106	2
	1/0	M-7504	38-0329	4	90	B-106	2
	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	Included	2
	#4	M-7509	38-4061	3†	32	Included	2
	#2	M-7510	38-4061	3†	45	Included	2
	#1	M-7511	38-4061	3†	65	Included	2
#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	Included	2
	2/0	M-7529	38-4062	14†	90	Included	2
	3/0	M-7530	38-4062	14†	115	Included	2
	4/0	M-7531	38-4062	14†	115	Included	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 connections, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- For expedited service, contact thermOweld®.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File

REBAR PACKING

A packing material is necessary when making thermOweld® connections to Rebar. Be sure to specify Packing Material No. when ordering Mold and Weld Metal. Packing Material is either copper shim stock or ceramic fiber pad and can be used for **one** connection only.



Part #38-0329-00 Copper Shim
Part #38-4061-00 3" x 3" x 1/4"
Part #38-4062-00 3" x 3" x 1/4"
Part #38-4063-00 3" x 2 1/2" x 1/4"

CRE-2

TYPE MOLDS

Horizontal Cable Tap to Horizontal Rebar Run
For AWG Conductors



MOLDS FOR AWG CONDUCTORS							
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	2
	#4	M-7589	38-0329	4	45	B-106	2
	#2	M-7590	38-0329	4	65	B-106	2
	#1	M-7591	38-0329	4	65	B-106	4
	1/0	M-7592	38-0329	4	90	B-106	2
	2/0	M-7593	38-0329	4	90	B-106	4
	3/0	M-7594	38-0329	4	115	B-106	2
	4/0	M-7595	38-0329	4	115	B-106	2
#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	38-0329	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	2
	#2	M-7614	38-0329	4	90	B-106	2
	#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	2
	4/0	M-7619	38-0329	4	150	B-106	2

REBAR PACKING

A packing material is necessary when making thermOweld® connections to Rebar. Be sure to specify Packing Material No. when ordering Mold and Weld Metal. Packing Material is either copper shim stock or ceramic fiber pad and can be used for **one** connection only.

Part #38-0329-00 Copper Shim
Part #38-4061-00 3" x 3" x 1/4"
Part #38-4062-00 3" x 3" x 1/4"
Part #38-4063-00 3" x 2 1/2" x 1/4"



- **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 connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File

MOLDS

CRE-3

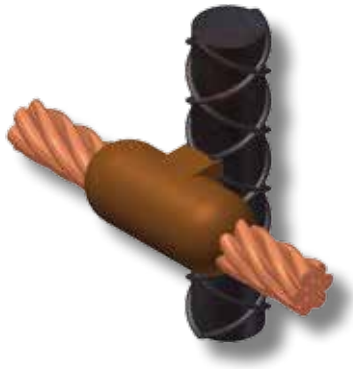
TYPE MOLDS

Horizontal thru Cable to Vertical Rebar
For AWG Conductors

MOLDS FOR AWG CONDUCTORS							
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	2
	#4	M-7621	38-0329	24	90	B-106	2
	#2	M-7622	38-0329	24	90	B-106	2
	#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	2
#4	#6	M-7628	38-0329	24	90	B-106	2
	#4	M-7629	38-0329	24	90	B-106	2
	#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	2
	#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	2
	#4	M-7645	38-0329	24	90	B-106	2
	#2	M-7646	38-0329	24	90	B-106	2
	#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	2
	4/0	M-7651	38-0329	24	150	B-106	2
#7 & Larger	#6	M-7652	38-4063	4	90	B-106-41	2
	#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	2
	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

- **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 connections or molds with wear plates, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File





REBAR PACKING

A packing material is necessary when making thermOweld® connections to Rebar. Be sure to specify Packing Material No. when ordering Mold and Weld Metal. Packing Material is either copper shim stock or ceramic fiber pad and can be used for **one** connection only.

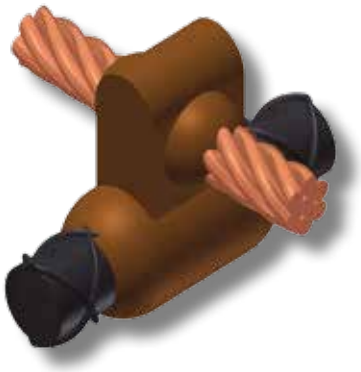
Part #38-0329-00 Copper Shim
Part #38-4061-00 3" x 3" x 1/4"
Part #38-4062-00 3" x 3" x 1/4"
Part #38-4063-00 3" x 2 1/2" x 1/4"

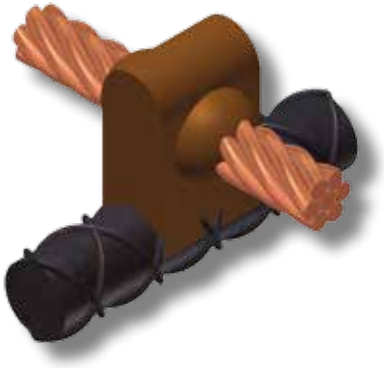


CRE-4

TYPE MOLDS

Horizontal thru Cable to Horizontal Rebar
For AWG Conductors





MOLDS FOR AWG CONDUCTORS							
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	2
	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
	4/0	M-7715	38-0329	22	150	B-106	2
#4	#6	M-7716	38-0329	4	65	B-106	2
	#4	M-7717	38-0329	4	65	B-106	2
	#2	M-7718	38-0329	4	90	B-106	2
	#1	M-7719	38-0329	22	90	B-106	4
	1/0	M-7720	38-0329	22	115	B-106	2
	2/0	M-7721	38-0329	22	115	B-106	2
	3/0	M-7722	38-0329	22	150	B-106	2
	4/0	M-7723	38-0329	22	150	B-106	2
#5	#6	M-7724	38-0329	4	65	B-106	2
	#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
	2/0	M-7729	38-0329	22	115	B-106	2
	3/0	M-7730	38-0329	22	150	B-106	2
	4/0	M-7731	38-0329	22	150	B-106	2
#6 & Larger	#6	M-7732	38-4061	14†	65	Included	2
	#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
	1/0	M-7736	38-4062	14†	115	Included	2
	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

REBAR PACKING

A packing material is necessary when making thermOweld® connections to Rebar. Be sure to specify Packing Material No. when ordering Mold and Weld Metal. Packing Material is either copper shim stock or ceramic fiber pad and can be used for **one** connection only.

Part #38-0329-00 Copper Shim
Part #38-4061-00 3" x 3" x 1/4"
Part #38-4062-00 3" x 3" x 1/4"
Part #38-4063-00 3" x 2 1/2" x 1/4"



- **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 connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-03 ~ Mold Cleaner for PK-4 & 22 Molds w/cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File

CRE-6

TYPE MOLDS

Horizontal Cable Tap to Vertical Rebar
For AWG Conductors

MOLDS FOR AWG CONDUCTORS							
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	45	B-106	2
	#4	M-7885	38-0329	4	45	B-106	2
	#2	M-7886	38-0329	4	65	B-106	4
	#1	M-7887	38-0329	4	90	B-106	4
	1/0	M-7888	38-0329	4	115	B-106	2
	2/0	M-7889	38-0329	4	115	B-106	2
	3/0	M-7890	38-0329	4	150	B-106	2
	4/0	M-7891	38-0329	4	150	B-106	2
#4	#6	M-7892	38-0329	4	45	B-106	2
	#4	M-7893	38-0329	4	65	B-106	2
	#2	M-7894	38-0329	4	65	B-106	2
	#1	M-7895	38-0329	4	90	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	45	B-106	2
	#4	M-7901	38-0329	4	65	B-106	2
	#2	M-7902	38-0329	4	65	B-106	2
	#1	M-7903	38-0329	4	90	B-106	2
	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	45	B-106	2
	#4	M-7909	38-0329	4	65	B-106	2
	#2	M-7910	38-0329	4	65	B-106	2
	#1	M-7911	38-0329	4	90	B-106	2
	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	45	B-106-32	4
	#4	M-7917	38-4063	4	65	B-106-32	2
	#2	M-7918	38-4063	4	65	B-106-32	2
	#1	M-7919	38-4063	4	90	B-106-32	2
	1/0	M-7920	38-4063	4	115	B-106-32	2
	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

- **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 connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File





REBAR PACKING

A packing material is necessary when making thermOweld® connections to Rebar. Be sure to specify Packing Material No. when ordering Mold and Weld Metal. Packing Material is either copper shim stock or ceramic fiber pad and can be used for **one** connection only.

Part #38-0329-00 Copper Shim
Part #38-4061-00 3" x 3" x 1/4"
Part #38-4062-00 3" x 3" x 1/4"
Part #38-4063-00 3" x 2 1/2" x 1/4"



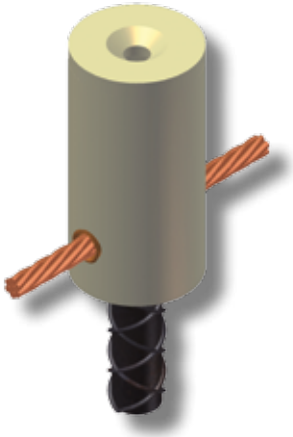
SINGLE SHOT MOLDS

REBAR SINGLE SHOT MOLDS

thermOweld® Single Shot Molds are an economical way to make cable connections to the top of a rebar. The Single Shot is a disposable single use ceramic mold that includes the weld metal and disc. Flint ignitor or EZ Lite Adapter (See page 81) must be purchased separately.



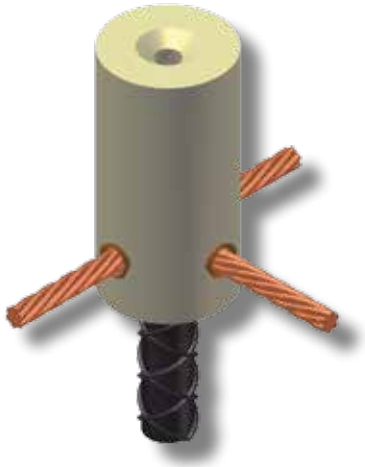
CRE-21



CRE-16







CRE-25



Rebar Size	Cable Size		Type	Mold #	Lead Time
	Solid	Stranded			
#3	#6, #8	#8	CRE-21	M-8929	4
	#3, #4	#4, #6	CRE-21	M-8930	4
	#1, #2	#2, #3	CRE-21	M-8931	4
	#6, #8	#8	CRE-16	M-8943	4
	#3, #4	#4, #6	CRE-16	M-8944	4
	#1, #2	#2, #3	CRE-16	M-8945	4
	#6, #8	#8	CRE-25	M-8955	4
	#3, #4	#4, #6	CRE-25	M-8956	4
	#1, #2	#2, #3	CRE-25	M-8957	4

Rebar Size	Cable Size		Type	Mold #	Lead Time
	Solid	Stranded			
#4	#6, #8	#8	CRE-21	M-8932	4
	#3, #4	#4, #6	CRE-21	M-8933	4
	#1, #2	#2, #3	CRE-21	M-8934	4
	2/0, 1/0	1/0, #1	CRE-21	M-8935	4
	N/A	2/0	CRE-21	M-8936	4
	#6, #8	#8	CRE-16	M-8947	4
	#3, #4	#4, #6	CRE-16	M-8948	4
	#1, #2	#2, #3	CRE-16	M-8949	4
	2/0, 1/0	1/0, #1	CRE-16	M-8950	4
	#6, #8	#8	CRE-25	M-8958	4
	#3, #4	#4, #6	CRE-25	M-8959	4
	#1, #2	#2, #3	CRE-25	M-8960	4
	2/0, 1/0	1/0, #1	CRE-25	M-8961	4

Rebar Size	Cable Size		Type	Mold #	Lead Time
	Solid	Stranded			
#5	#6, #8	#8	CRE-21	M-8937	4
	#3, #4	#4, #6	CRE-21	M-8938	4
	#1, #2	#2, #3	CRE-21	M-8939	4
	2/0, 1/0	1/0, #1	CRE-21	M-8940	4
	N/A	2/0	CRE-21	M-8941	4
	#6, #8	#8	CRE-16	M-8951	4
	#3, #4	#4, #6	CRE-16	M-8952	4
	#1, #2	#2, #3	CRE-16	M-8953	4
	2/0, 1/0	1/0, #1	CRE-16	M-8954	4
	#6, #8	#8	CRE-25	M-8962	4
	#3, #4	#4, #6	CRE-25	M-8963	4
	#1, #2	#2, #3	CRE-25	M-8964	4
	2/0, 1/0	1/0, #1	CRE-25	M-8965	4

SINGLE SHOT MOLD

EZ Lite Remote® Adapter

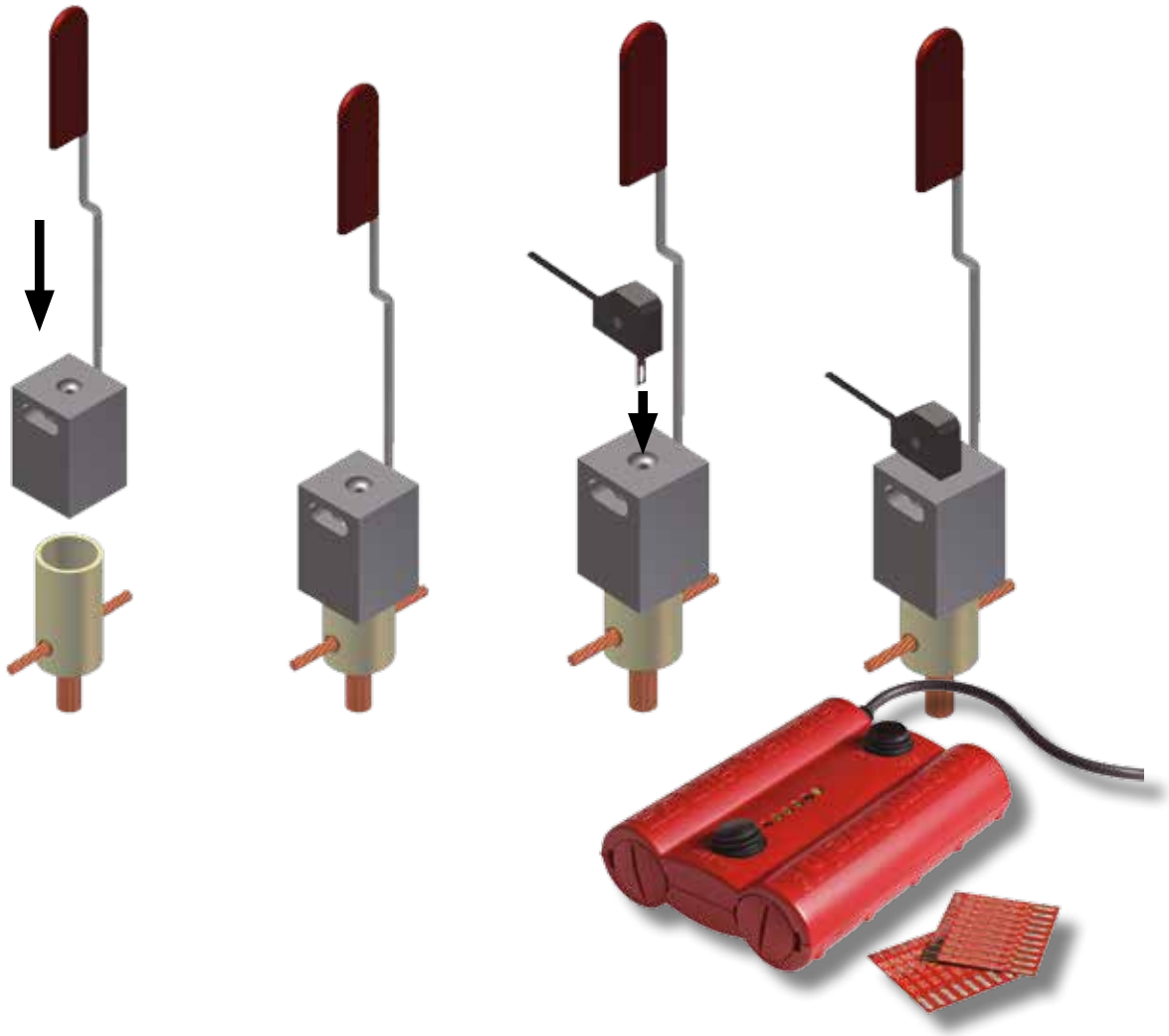
Follow steps 1 thru 10 in the Welding Instructions "Weld Procedures" that comes with the Single Shot Mold for proper installation of mold onto ground rod and how to place weld metal into mold.

Replace step 11 in the Welding Instructions "Weld Procedures" with the following;

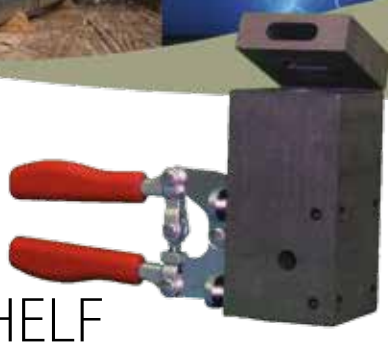
11. Discard ceramic lid included with mold. Slide EZ Lite Remote® Single Shot Adapter over mold as shown.

Continue the instructions steps 12 through 14 in the Welding Instructions "Weld Procedures" that comes with the Single Shot Mold to complete weld.

Part Number: 38-EZLT-SS







SAME DAY SERVICE
(Grounding Market)

JUST LIKE HAVING IT ON THE SHELF

MOLDS

M-206	M-547	M-2540
M-208	M-548	M-2707
M-223	M-549	M-2781-S
M-223-S	M-550	M-5059
M-228	M-559	M-5105
M-232	M-560	M-5415-S
M-235	M-561	M-6199
M-236	M-647	M-6199-S
M-241	M-588	M-6618-S
M-243	M-588-S	M-8718
M-244	M-590	M-8833
M-246	M-591	M-9021
M-247	M-593	M-9233
M-280	M-630-S	M-9233-S
M-434	M-1276-S	
M-443	M-1313-S	
M-506	M-1322	
M-508	M-1331	
M-518	M-1587	
M-545	M-1596	
M-545-S	M-2189	

Single Shots

- M-2006
- M-2008
- M-2012
- M-2013
- M-2014
- M-2015
- M-2017
- M-2018
- M-2021
- M-2027
- M-2029
- M-2032
- M-2107

Weld Metal

- #15 Standard Weld Metal
- #25 Standard Weld Metal
- #32 Standard Weld Metal
- #45 Standard Weld Metal
- #65 Standard Weld Metal
- #90 Standard Weld Metal
- #115 Standard Weld Metal
- #150 Standard Weld Metal
- #200 Standard Weld Metal
- #250 Standard Weld Metal
- #500 Standard Weld Metal
- #65 EZ Lite Remote® Weld Metal
- #45 EZ Lite Remote® Weld Metal
- #90 EZ Lite Remote® Weld Metal
- #115 EZ Lite Remote® Weld Metal
- #150 EZ Lite Remote® Weld Metal
- #200 EZ Lite Remote® Weld Metal
- #250 EZ Lite Remote® Weld Metal

Accessories

- B-106 Handle Clamp
- B-106 Vertical Handle Clamp
- Mini-Handle Clamp
- Flint Ignitors
- Steel Disc
- Mold Cleaner
- Natural Bristle Brush
- Shim Stock
- 1 lb Packing Material
- Ceramic Fiber Packing
- 1/8" x 1" Offset Copper Lug 1 Hole
- 1/8" x 1" Offset Copper Lug 2 Hole
- 1/4" x 1" Offset Copper Lug 1 Hole
- 1/4" x 1" Offset Copper Lug 2 Hole
- 1/4" x 1 1/2" Offset Copper Lug 1 Hole
- 1/4" x 1 1/2" Offset Copper Lug 2 Hole
- Tin Plated Straight Lug
- Ez-Lite Remote® Ignitors
- Ez Lite Remote® Unit
- Ez Lite Remote® Starter Kit
- EZ Lite Remote® Single Shot Graphite Adapter
- 6 ft Cable Assembly for EZ Lite Remote®

Call Today Ship Today!



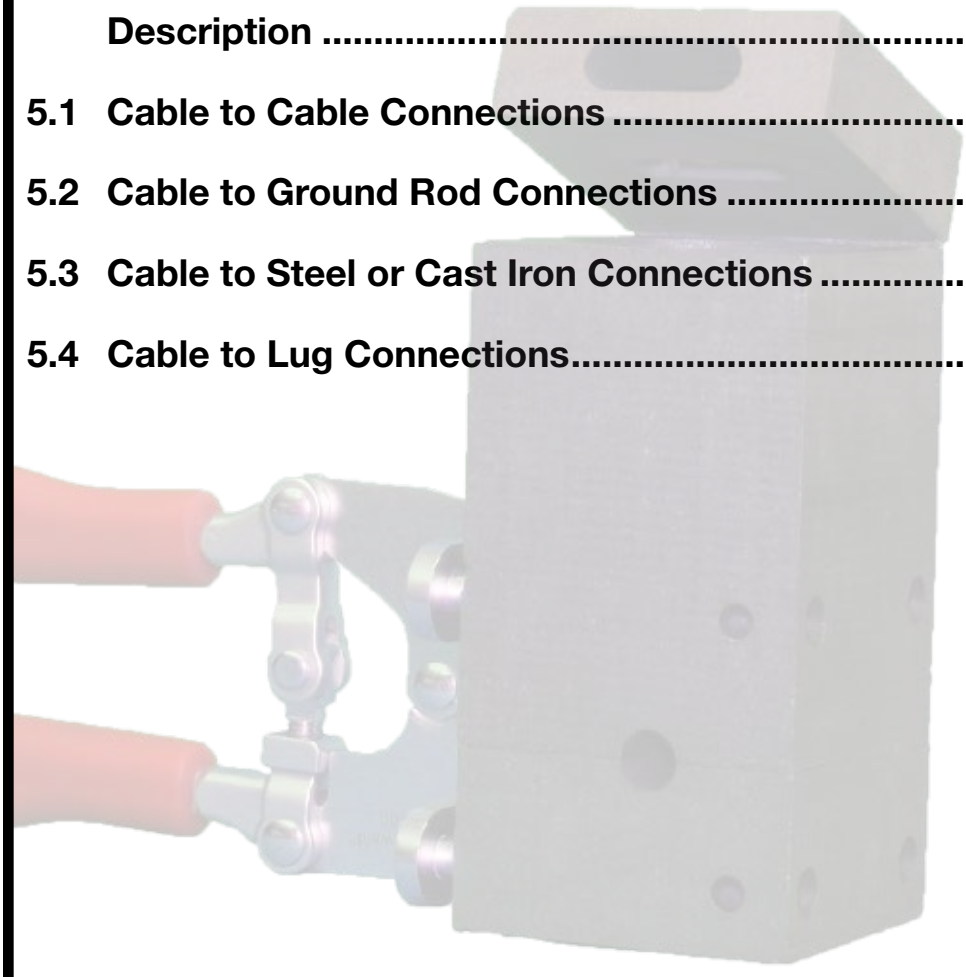
*SDS is not a guaranteed service. Quantities are limited.

4PM CENTRAL STANDARD TIME

Section 3

Molds for use with Copper-Clad Steel Conductors

	Description	Page #
5.1	Cable to Cable Connections	85-91
5.2	Cable to Ground Rod Connections	92-94
5.3	Cable to Steel or Cast Iron Connections	95-100
5.4	Cable to Lug Connections	100

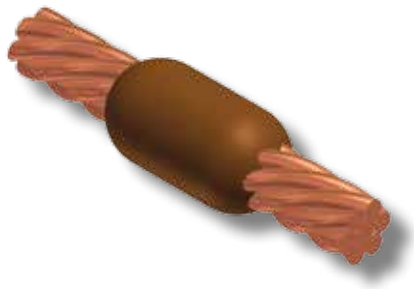


Weld Type		Page #
	CB-1	101
	CB-33	101
	CC-1	85
	CC-2	86-88
	CC-4	89
	CC-6	85
	CC-7	90
	CC-11	91
	CR-1	92
	CR-2	93
	CR-3	94
	CS-1	95

Weld Type		Page #
	CS-2	96
	CS-3	97
	CS-4	100
	CS-6	98
	CS-7	99
	CS-8	95
	CS-9	96
	CS-18	100
	CS-23	99
	CS-27	98
	Rebar Single Shot	94
	Single Shot	94

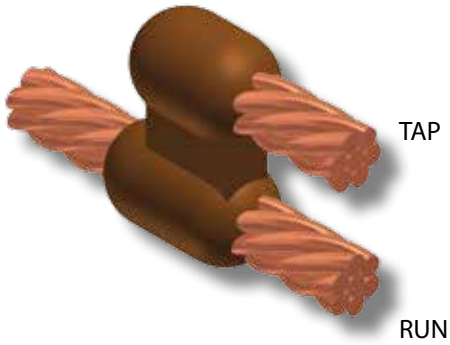
CC-1
TYPE MOLDS
Horizontal End to End
For Copper-Clad Steel Conductors

MOLDS FOR COPPER-CLAD STEEL CONDUCTORS										
Cable	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	M-9018	4	32	B-106	2	M-9018-H	4	65	B-106	4
7/#8	M-9050	4	45	B-106	2	M-9050-H	4	90	B-106	4
7/#7	M-9195	4	65	B-106	2	M-9195-H	4	115	B-106	2
7/#6	M-9051	4	90	B-106	2	M-9051-H	4	150	B-106	2
7/#5	M-9052	4	115	B-106	2	M-9052-H	4	250	B-106	4
19/#9	M-9053	4	115	B-106	2	M-9053-H	4	200	B-106	4
19/#8	M-9054	4	115	B-106	4	M-9054-H	4	200	B-106	4
19/#7	M-9196	4	150	B-106	2	M-9196-H	4	250	B-106	4
19/#6	M-9055	4	200	B-106	4	M-9055-H	5	2-150	B-107	4



CC-6
TYPE MOLDS
Horizontal Parallel Tap
For Copper-Clad Steel Conductors

MOLDS FOR COPPER-CLAD STEEL CONDUCTORS						
Cable		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
7/#10	#2	M-9384	4	65	B-106	4
	#4	M-9392	4	45	B-106	4
	#6	M-9700	4	32	B-106	4
	#6 Sol	M-9407	4	32	B-106	4
	#8 Sol	M-9423	4	32	B-106	4
7/#8	#2	M-9424	4	65	B-106	4
	#4	M-9425	4	45	B-106	4
	#6	M-9429	4	45	B-106	4
	#6 Sol	M-9447	4	45	B-106	4
	#8 Sol	M-9448	4	45	B-106	4
7/#7	#2	M-9449	4	65	B-106	4
	#4	M-9450	4	65	B-106	4
	#6	M-9451	4	45	B-106	4
	#6 Sol	M-9452	4	45	B-106	4
	#8 Sol	M-9453	4	45	B-106	4
7/#6	#2	M-9454	4	90	B-106	4
	#4	M-9455	4	65	B-106	4
	#6	M-9456	4	65	B-106	4
	#6 Sol	M-9457	4	65	B-106	4
	#8 Sol	M-9458	4	65	B-106	4
7/#5	#2	M-9459	4	90	B-106	2
	#4	M-9460	4	90	B-106	4
	#6	M-9461	4	65	B-106	4
	#6 Sol	M-9462	4	65	B-106	4
	#8 Sol	M-9463	4	90	B-106	4

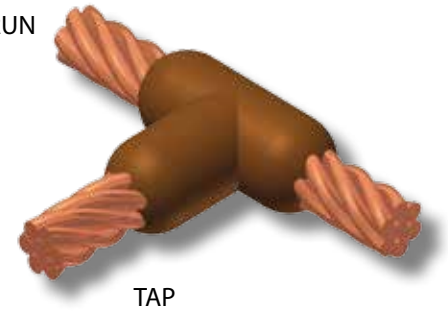


- **For sizes not listed, contact thermOweld®.**
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CC-2

TYPE MOLDS

Horizontal Cable Tap to Horizontal Cable Run
For Copper-Clad Steel Conductors



MOLDS FOR COPPER-CLAD STEEL CONDUCTORS

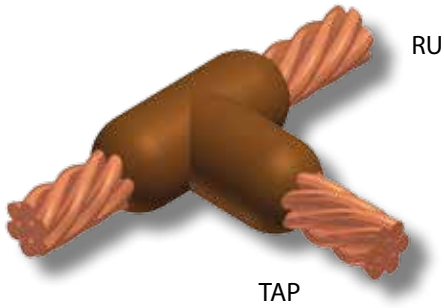
Cable		STANDARD CONNECTION					HEAVY DUTY CONNECTION				
Run	Tap	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	7/#10	M-9020	4	45	B-106	4	M-9020-H	4	90	B-106	4
7/#8	7/#8	M-9060	4	65	B-106	2	M-9060-H	4	115	B-106	4
	7/#10	M-9197	4	45	B-106	4	M-9197-H	4	90	B-106	4
	2/0	M-9061	4	90	B-106	4	M-9061-H	4	150	B-106	4
	4/0	M-9062	4	90	B-106	4	M-9062-H	4	200	B-106	4
7/#7	7/#7	M-9198	4	90	B-106	2	M-9198-H	4	150	B-106	4
	7/#8	M-9022	4	90	B-106	4	M-9022-H	4	150	B-106	4
	7/#10	M-9290	4	45	B-106	4	M-9290-H	4	90	B-106	4
	2/0	M-9201	4	90	B-106	2	M-9201-H	4	150	B-106	4
	4/0	M-9202	4	115	B-106	4	M-9202-H	4	200	B-106	4
7/#6	7/#6	M-9362	4	115	B-106	2	M-9362-H	4	200	B-106	2
	7/#7	M-9023	4	90	B-106	4	M-9023-H	4	150	B-106	4
	7/#8	M-9024	4	90	B-106	4	M-9024-H	4	150	B-106	4
	7/#10	M-9025	4	45	B-106	4	M-9025-H	4	45	B-106	4
	2/0	M-9382	4	90	B-106	4	M-9382-H	4	150	B-106	4
	4/0	M-9063	4	115	B-106	4	M-9063-H	4	250	B-106	2
7/#5	7/#5	M-9064	4	150	B-106	2	M-9064-H	4	250	B-106	4
	7/#6	M-9026	4	115	B-106	4	M-9026-H	4	200	B-106	4
	7/#7	M-9213	4	90	B-106	2	M-9213-H	4	150	B-106	4
	7/#8	M-9065	4	90	B-106	4	M-9065-H	4	150	B-106	4
	7/#10	M-9343	4	90	B-106	2	M-9343-H	4	150	B-106	4
	2/0	M-9321	4	90	B-106	4	M-9321-H	4	150	B-106	4
	4/0	M-9066	4	150	B-106	2	M-9066-H	4	250	B-106	2
19/#9	19/#9	M-9067	4	150	B-106	2	M-9067-H	4	250	B-106	4
	7/#5	M-9027	4	150	B-106	4	M-9027-H	4	250	B-106	4
	7/#6	M-9028	4	150	B-106	4	M-9028-H	4	250	B-106	4
	7/#7	M-9203	4	90	B-106	2	M-9203-H	4	150	B-106	4
	7/#8	M-9030	4	90	B-106	4	M-9030-H	4	150	B-106	4
	2/0	M-9031	4	90	B-106	4	M-9031-H	4	150	B-106	4
	4/0	M-9068	4	150	B-106	4	M-9068-H	4	250	B-106	4

- **For sizes not listed, contact thermOweld®.**
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CC-2

TYPE MOLDS

Horizontal Cable Tap to Horizontal Cable Run
For Copper-Clad Steel Conductors



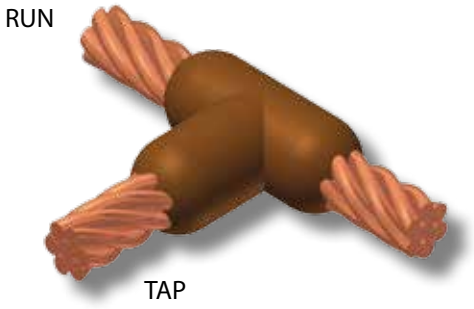
MOLDS FOR COPPER-CLAD STEEL CONDUCTORS											
Cable		STANDARD CONNECTION					HEAVY DUTY CONNECTION				
Run	Tap	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
19/#8	19/#8	M-9069	4	200	B-106	2	M-9069-H	5	2-150	B-107	4
	19/#9	M-9032	4	150	B-106	4	M-9032-H	4	250	B-106	4
	7/#5	M-9047	4	150	B-106	4	M-9047-H	4	250	B-106	4
	7/#6	M-9033	4	150	B-106	4	M-9033-H	4	250	B-106	4
	7/#7	M-9040	4	90	B-106	4	M-9040-H	4	150	B-106	4
	7/#8	M-9070	4	90	B-106	4	M-9070-H	4	150	B-106	4
	2/0	M-9071	4	90	B-106	4	M-9071-H	4	150	B-106	4
	4/0	M-9042	4	150	B-106	4	M-9042-H	4	250	B-106	4
19/#7	19/#7	M-9073	4	200	B-106	4	M-9073-H	5	2-200	B-107	4
	19/#8	M-9034	4	200	B-106	4	M-9034-H	5	2-150	B-107	4
	19/#9	M-9204	4	200	B-106	4	M-9204-H	5	2-150	B-107	4
	7/#5	M-9442	4	150	B-106	4	M-9442-H	5	2-150	B-107	4
	7/#6	M-9035	4	150	B-106	4	M-9035-H	4	250	B-106	4
	7/#7	M-9074	4	90	B-106	4	M-9074-H	4	150	B-106	4
	7/#8	M-9036	4	90	B-106	4	M-9036-H	4	150	B-106	4
	2/0	M-9147	4	90	B-106	4	M-9147-H	4	150	B-106	4
	4/0	M-9148	4	150	B-106	2	M-9148-H	4	250	B-106	4
	500 MCM	M-9075	4	250	B-106	4	M-9075-H	5	2-200	B-107	4
19/#6	19/#6	M-9076	4	2-150	B-106	4	M-9076-H	5	500	B-107	4
	19/#7	M-9149	4	200	B-106	4	M-9149-H	5	2-200	B-107	4
	19/#8	M-9038	4	200	B-106	4	M-9038-H	5	2-150	B-107	4
	19/#9	M-9077	4	200	B-106	4	M-9077-H	5	2-150	B-107	4
	7/#5	M-9393	4	150	B-106	4	M-9393-H	5	2-150	B-107	4
	7/#6	M-9289	4	115	B-106	4	M-9289-H	4	250	B-106	4
	2/0	M-9039	4	90	B-106	4	M-9039-H	4	150	B-106	4
	4/0	M-9078	4	150	B-106	2	M-9078-H	5	2-150	B-107	4
	500 MCM	M-9011	4	2-150	B-106	4	M-9011-H	5	500	B-107	4

- **For sizes not listed, contact thermOweld®.**
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CC-2

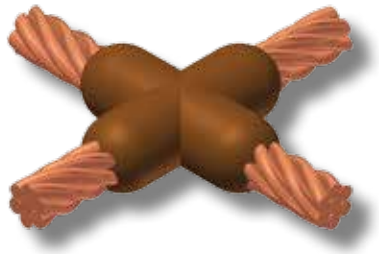
TYPE MOLDS

Horizontal Cable Tap to Horizontal Cable Run
For Copper-Clad Steel Conductors



MOLDS FOR COPPER-CLAD STEEL CONDUCTORS											
Cable		STANDARD CONNECTION					HEAVY DUTY CONNECTION				
Run	Tap	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2/0	19/#6	M-9207	4	115	B-106	4	M-9207-H	4	200	B-106	4
	19/#7	M-9208	4	115	B-106	4	M-9208-H	4	200	B-106	4
	19/#8	M-9209	4	115	B-106	4	M-9209-H	4	200	B-106	4
	19#/9	M-9082	4	115	B-106	4	M-9082-H	4	200	B-106	4
	7/#5	M-9210	4	115	B-106	2	M-9210-H	4	200	B-106	4
	7/#6	M-9409	4	90	B-106	4	M-9409-H	4	150	B-106	2
	7/#7	M-9211	4	90	B-106	4	M-9211-H	4	150	B-106	4
	7/#8	M-9001	4	90	B-106	4	M-9001-H	4	150	B-106	4
	7/#10	M-9004	4	65	B-106	4	M-9004-H	4	115	B-106	4
4/0	19/#6	M-9083	4	150	B-106	2	M-9083-H	4	250	B-106	4
	19/#7	M-9427	4	150	B-106	4	M-9427-H	4	250	B-106	4
	19/#8	M-9212	4	150	B-106	4	M-9212-H	4	250	B-106	2
	19/#9	M-9084	4	150	B-106	2	M-9084-H	4	250	B-106	2
	7/#5	M-9331	4	150	B-106	2	M-9331-H	4	250	B-106	4
	7/#6	M-9000	4	150	B-106	2	M-9000-H	4	250	B-106	4
	7/#7	M-9150	4	90	B-106	4	M-9150-H	4	150	B-106	4
	7/#8	M-9085	4	90	B-106	2	M-9085-H	4	150	B-106	4
	7/#10	M-9216	4	90	B-106	4	M-9216-H	4	150	B-106	4
250 MCM	19/#6	M-9217	4	150	B-106	4	M-9217-H	4	250	B-106	4
	19/#7	M-9218	4	150	B-106	4	M-9218-H	4	250	B-106	4
	19/#8	M-9219	4	150	B-106	4	M-9219-H	4	250	B-106	4
	19/#9	M-9220	4	150	B-106	4	M-9220-H	4	250	B-106	4
	7/#5	M-9221	4	150	B-106	2	M-9221-H	4	250	B-106	4
	7/#6	M-9222	4	150	B-106	4	M-9222-H	4	250	B-106	4
	7/#7	M-9223	4	90	B-106	4	M-9223-H	4	150	B-106	4
	7/#8	M-9087	4	90	B-106	4	M-9087-H	4	150	B-106	4
	7/#10	M-9224	4	90	B-106	4	M-9224-H	4	150	B-106	4
500 MCM	19/#6	M-9154	4	2-150	B-106	4	M-9154-H	5	500	B-107	4
	19/#7	M-9155	4	250	B-106	4	M-9155-H	5	2-200	B-107	4
	19/#8	M-9088	4	200	B-106	4	M-9088-H	5	2-150	B-107	4
	19/#9	M-9156	4	200	B-106	2	M-9156-H	5	2-150	B-107	2
	7/#5	M-9010	4	200	B-106	2	M-9010-H	5	2-150	B-107	4
	7/#6	M-9241	4	150	B-106	4	M-9241-H	4	250	B-106	4
	7/#7	M-9157	4	115	B-106	4	M-9157-H	4	200	B-106	4
	7/#8	M-9090	4	115	B-106	4	M-9090-H	4	200	B-106	4

- **For sizes not listed, contact thermOweld®.**
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp



CC-4

TYPE MOLDS

Horizontal to Horizontal Cable Cross
For Copper-Clad Steel Conductors
Tap Cable is Cut

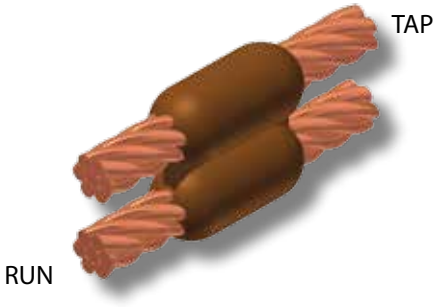
MOLDS FOR COPPER-CLAD STEEL CONDUCTORS											
Cable		STANDARD CONNECTION					HEAVY DUTY CONNECTION				
Run	Tap	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	7/#10	M-9243	4	65	B-106	4	M-9243-H	4	115	B-106	4
7/#8	7/#8	M-9091	4	90	B-106	4	M-9091-H	4	150	B-106	4
	7/#10	M-9244	4	90	B-106	4	M-9244-H	4	150	B-106	4
7/#7	7/#7	M-9159	4	115	B-106	2	M-9159-H	4	200	B-106	4
	7/#8	M-9292	4	115	B-106	4	M-9292-H	4	200	B-106	4
	7/#10	M-9247	4	115	B-106	4	M-9247-H	4	200	B-106	4
7/#6	7/#6	M-9293	4	200	B-106	2	M-9293-H	5	2-150	B-107	4
	7/#7	M-9248	4	150	B-106	4	M-9248-H	4	250	B-106	4
	7/#8	M-9249	4	150	B-106	4	M-9249-H	4	200	B-106	4
	7/#10	M-9250	4	115	B-106	4	M-9250-H	4	200	B-106	4
7/#5	7/#5	M-9092	4	200	B-106	4	M-9092-H	5	2-150	B-107	4
	7/#6	M-9252	4	200	B-106	4	M-9252-H	5	2-150	B-107	4
	7/#7	M-9281	4	150	B-106	4	M-9281-H	4	250	B-106	4
	7/#8	M-9251	4	150	B-106	2	M-9251-H	4	250	B-106	4
19/#9	19/#9	M-9093	4	200	B-106	2	M-9093-H	5	2-150	B-107	4
	7/#5	M-9256	4	200	B-106	4	M-9256-H	5	2-150	B-107	4
	7/#6	M-9257	4	200	B-106	4	M-9257-H	5	2-150	B-107	4
	7/#7	M-9274	4	150	B-106	2	M-9274-H	4	250	B-106	4
	7/#8	M-9279	4	150	B-106	4	M-9279-H	4	250	B-106	4
19/#8	19/#8	M-9094	4	250	B-106	4	M-9094-H	5	2-200	B-107	4
	19/#9	M-9300	4	250	B-106	4	M-9300-H	5	2-200	B-107	4
	7/#5	M-9258	4	250	B-106	4	M-9258-H	5	2-200	B-107	4
	7/#6	M-9301	4	200	B-106	4	M-9301-H	5	2-150	B-107	4
	7/#7	M-9302	4	150	B-106	4	M-9302-H	4	250	B-106	4
	7/#8	M-9303	4	150	B-106	4	M-9303-H	4	250	B-106	4
19/#7	19/#7	M-9163	5	2-150	B-107	4	M-9163-H	5	500	B-107	4
	19/#8	M-9306	5	2-150	B-107	4	M-9306-H	5	500	B-107	4
	19/#9	M-9389	5	2-150	B-107	4	M-9389-H	5	500	B-107	4
	7/#5	M-9307	5	2-150	B-107	4	M-9307-H	5	500	B-107	4
	7/#6	M-9421	4	250	B-106	4	M-9421-H	5	2-200	B-107	4
	7/#7	M-9308	4	200	B-106	4	M-9308-H	5	2-150	B-107	4
	7/#8	M-9310	4	200	B-106	4	M-9310-H	5	2-150	B-107	4
19/#6	19/#6	M-9284	5	500	B-107	4	M-9284-H	5	3-250	B-107	4
	19/#7	M-9313	5	500	B-107	4	M-9313-H	5	3-250	B-107	4
	19/#8	M-9314	5	2-200	B-107	4	M-9314-H	5	3-200	B-107	4
	19/#9	M-9344	5	2-150	B-107	4	M-9344-H	5	500	B-107	4
	7/#5	M-9345	5	2-150	B-107	4	M-9345-H	5	500	B-107	4
	7/#6	M-9348	5	2-150	B-107	4	M-9348-H	5	500	B-107	4
	7/#7	M-9350	4	250	B-106	4	M-9350-H	5	2-200	B-107	4
	7/#8	M-9358	4	250	B-106	4	M-9358-H	5	2-200	B-107	4

- **For sizes not listed, contact thermOweld®.**
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CC-7

TYPE MOLDS

Horizontal Parallel through Cables
For Copper-Clad Steel Conductors



MOLDS FOR COPPER-CLAD STEEL CONDUCTORS											
Cable		STANDARD CONNECTION					HEAVY DUTY CONNECTION				
Run	Tap	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	7/#10	M-9437	4	65	B-106	2	M-9437-H	4	115	B-106	4
7/#8	7/#8	M-9138	4	90	B-106	2	M-9138-H	4	150	B-106	4
	7/#10	M-9464	4	65	B-106	4	M-9464-H	4	115	B-106	4
7/#7	7/#7	M-9433	4	115	B-106	2	M-9433-H	4	200	B-106	2
	7/#8	M-9465	4	115	B-106	4	M-9465-H	4	200	B-106	4
	7/#10	M-9466	4	90	B-106	4	M-9466-H	4	150	B-106	4
7/#6	7/#6	M-9408	4	150	B-106	2	M-9408-H	4	250	B-106	4
	7/#7	M-9467	4	150	B-106	4	M-9467-H	4	250	B-106	4
	7/#8	M-9468	4	115	B-106	4	M-9468-H	4	200	B-106	4
	7/#10	M-9469	4	115	B-106	4	M-9469-H	4	200	B-106	4
7/#5	7/#5	M-9470	4	200	B-106	2	M-9470-H	5	2-150	B-107	4
	7/#6	M-9471	4	200	B-106	4	M-9471-H	5	2-150	B-107	4
	7/#7	M-9472	4	150	B-106	4	M-9472-H	4	250	B-106	4
	7/#8	M-9473	4	150	B-106	4	M-9473-H	4	250	B-106	4
19/#9	19/#9	M-9379	4	250	B-106	2	M-9379-H	5	2-200	B-107	2
	7/#5	M-9474	4	200	B-106	4	M-9474-H	5	2-150	B-107	4
	7/#6	M-9475	4	200	B-106	4	M-9475-H	5	2-150	B-107	4
	7/#7	M-9432	4	150	B-106	4	M-9432-H	4	250	B-106	4
	7/#8	M-9476	4	150	B-106	2	M-9476-H	4	250	B-106	4
19/#8	19/#8	M-9136	5	2-150	B-107	4	M-9136-H	5	500	B-107	4
	19/#9	M-9477	4	250	B-106	4	M-9477-H	5	2-200	B-107	2
	7/#5	M-9478	4	200	B-106	2	M-9478-H	5	2-150	B-107	4
	7/#6	M-9479	4	200	B-106	4	M-9479-H	5	2-150	B-107	4
	7/#7	M-9417	4	150	B-106	4	M-9417-H	4	250	B-106	4
	7/#8	M-9480	4	150	B-106	2	M-9480-H	4	250	B-106	4
19/#7	19/#7	M-9481	5	2-150	B-107	4	M-9481-H	5	500	B-107	2
	19/#8	M-9482	5	2-150	B-107	4	M-9482-H	5	500	B-107	4
	19/#9	M-9431	4	250	B-106	4	M-9431-H	5	2-200	B-107	4
	7/#5	M-9483	4	200	B-106	4	M-9483-H	5	2-150	B-107	4
	7/#6	M-9484	4	200	B-106	4	M-9484-H	5	2-150	B-107	4
	7/#7	M-9430	4	150	B-106	4	M-9430-H	4	250	B-106	4
	7/#8	M-9485	4	150	B-106	4	M-9485-H	4	250	B-106	4
19/#6	19/#6	M-9486	5	2-200	B-107	2	M-9486-H	6	3-200	B-107	4
	19/#7	M-9487	5	2-150	B-107	4	M-9487-H	5	500	B-107	4
	19/#8	M-9488	5	2-150	B-107	4	M-9488-H	5	500	B-107	4
	19/#9	M-9489	4	250	B-106	2	M-9489-H	5	2-200	B-107	4
	7/#5	M-9490	4	200	B-106	4	M-9490-H	5	2-150	B-107	4
	7/#6	M-9491	4	200	B-106	4	M-9491-H	5	2-150	B-107	4
	7/#7	M-9492	4	150	B-106	4	M-9492-H	4	250	B-106	4
	7/#8	M-9493	4	150	B-106	4	M-9493-H	4	250	B-106	4

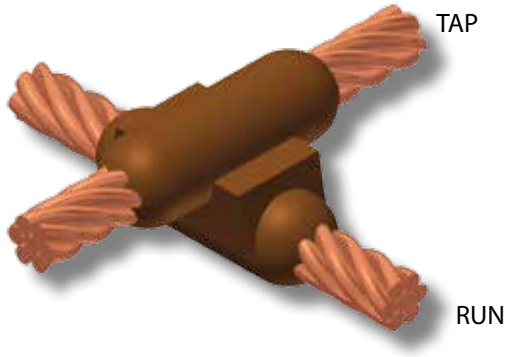
- **For sizes not listed, contact thermOweld®.**
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CC-11

TYPE MOLDS

Horizontal to Horizontal Cable Cross (Uncut)
For Copper-Clad Steel Conductors

MOLDS FOR COPPER-CLAD STEEL CONDUCTORS						
Cable		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
7/#10	7/#10	M-9494	22	90	B-106	4
7/#8	7/#8	M-9133	22	150	B-106	4
	7/#10	M-9495	22	115	B-106	4
7/#7	7/#7	M-9443	22	200	B-106	2
	7/#8	M-9702	22	200	B-106	4
	7/#10	M-9496	22	150	B-106	4
7/#6	7/#6	M-9245	22	250	B-106	4
	7/#7	M-9497	22	200	B-106	2
	7/#8	M-9498	22	200	B-106	2
	7/#10	M-9499	22	150	B-106	4
7/#5	7/#5	M-9134	22	250	B-106	2
	7/#6	M-9500	22	250	B-106	4
	7/#7	M-9394	22	200	B-106	4
	7/#8	M-9135	22	200	B-106	4
19/#9	19/#9	M-9186	22	2-150	B-106	2
	7/#5	M-9501	22	2-150	B-106	4
	7/#6	M-9502	22	2-150	B-106	4
	7/#7	M-9503	22	250	B-106	4
	7/#8	M-9504	22	250	B-106	4
19/#8	19/#8	M-9043	23	2-200	B-107	2
	19/#9	M-9505	23	2-200	B-107	4
	7/#5	M-9048	22	2-150	B-106	4
	7/#6	M-9506	22	2-150	B-106	4
	7/#7	M-9507	22	250	B-106	4
	7/#8	M-9508	22	250	B-106	4
19/#7	19/#7	M-9444	23	500	B-107	4
	19/#8	M-9509	23	500	B-107	4
	19/#9	M-9510	23	500	B-107	4
	7/#5	M-9511	23	2-200	B-107	4
	7/#6	M-9512	23	2-200	B-107	4
	7/#7	M-9513	22	2-150	B-106	4
	7/#8	M-9514	22	2-150	B-106	4
19/#6	19/#6	M-9515	23	3-250	B-107	4
	19/#7	M-9516	23	3-200	B-107	4
	19/#8	M-9517	23	3-200	B-107	4
	19/#9	M-9518	23	500	B-107	4
	7/#5	M-9395	23	500	B-107	4
	7/#6	M-9519	23	500	B-107	4
	7/#7	M-9520	23	2-200	B-107	4
	7/#8	M-9521	22	2-150	B-106	4

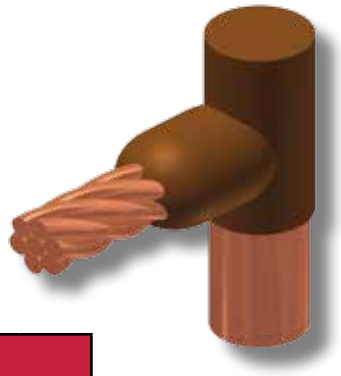


- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CR-1

TYPE MOLDS

Horizontal Cable Terminal to Ground Rod
For Copper-Clad Steel Conductors

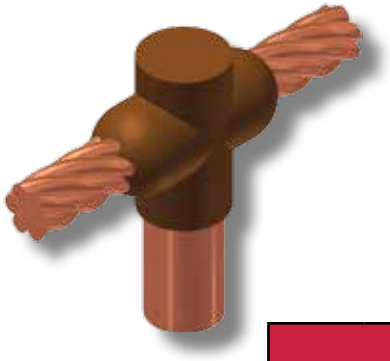


MOLDS FOR COPPER-CLAD STEEL CONDUCTORS											
Ground Rod Size	Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2"	7/#10	M-9522	4	65	B-106	4	M-9522-H	4	90	B-106	4
	7/#8	M-9523	4	90	B-106	4	M-9523-H	4	115	B-106	4
	7/#7	M-9164	4	90	B-106	4	M-9164-H	4	150	B-106	4
	7/#6	M-9524	4	90	B-106	4	M-9524-H	4	150	B-106	4
	7/#5	M-9525	4	90	B-106	4	M-9525-H	4	150	B-106	4
	19/#9	M-9165	4	90	B-106	4	M-9165-H	4	150	B-106	4
	19/#8	M-9526	4	90	B-106	4	M-9526-H	4	150	B-106	4
5/8"	7/#10	M-9095	4	65	B-106	4	M-9095-H	4	90	B-106	4
	7/#8	M-9096	4	90	B-106	2	M-9096-H	4	115	B-106	4
	7/#7	M-9166	4	90	B-106	2	M-9166-H	4	115	B-106	4
	7/#6	M-9294	4	90	B-106	2	M-9294-H	4	150	B-106	4
	7/#5	M-9097	4	90	B-106	2	M-9097-H	4	150	B-106	4
	19/#9	M-9167	4	90	B-106	2	M-9167-H	4	150	B-106	4
	19/#8	M-9168	4	115	B-106	2	M-9168-H	4	200	B-106	4
	19/#7	M-9098	4	150	B-106	4	M-9098-H	4	250	B-106	4
	19/#6	M-9530	4	150	B-106	4	M-9530-H	4	250	B-106	4
3/4"	7/#10	M-9436	4	90	B-106	4	M-9436-H	4	115	B-106	4
	7/#8	M-9099	4	90	B-106	2	M-9099-H	4	150	B-106	4
	7/#7	M-9390	4	90	B-106	2	M-9390-H	4	150	B-106	4
	7/#6	M-9381	4	90	B-106	2	M-9381-H	4	150	B-106	2
	7/#5	M-9100	4	90	B-106	2	M-9100-H	4	150	B-106	4
	19/#9	M-9319	4	90	B-106	4	M-9319-H	4	150	B-106	4
	19/#8	M-9101	4	115	B-106	4	M-9101-H	4	200	B-106	4
	19/#7	M-9428	4	150	B-106	4	M-9428-H	4	250	B-106	4
	19/#6	M-9329	4	150	B-106	4	M-9329-H	4	250	B-106	4
1"	7/#10	M-9533	4	150	B-106	4	M-9533-H	4	200	B-106	4
	7/#8	M-9534	4	150	B-106	4	M-9534-H	4	200	B-106	4
	7/#7	M-9535	4	150	B-106	4	M-9535-H	4	200	B-106	4
	7/#6	M-9002	4	150	B-106	4	M-9002-H	4	250	B-106	4
	7/#5	M-9536	4	150	B-106	4	M-9536-H	4	250	B-106	4
	19/#9	M-9537	4	150	B-106	4	M-9537-H	4	250	B-106	4
	19/#8	M-9538	4	200	B-106	4	M-9538-H	5	2-150	B-107	4
	19/#7	M-9539	4	200	B-106	4	M-9539-H	5	2-150	B-107	4
	19/#6	M-9540	4	200	B-106	4	M-9540-H	5	2-150	B-107	4

- **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 molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

NOTES

1. Molds listed are for copper clad steel ground rods: ½" rods are 0.475" diameter, 5/8" rods are 0.563" diameter, ¾" rods are 0.682" diameter, and 1" rods are 0.914" diameter. **Undersized ground rods may require shim stock or packing material.**
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.



CR-2
TYPE MOLDS
Horizontal Cable to Ground Rod
For Copper-Clad Steel Conductors

MOLDS FOR COPPER-CLAD STEEL CONDUCTORS

Ground Rod Size	Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2″	7/#10	M-9543	4	90	B-106	4	M-9543-H	4	150	B-106	4
	7/#8	M-9544	4	90	B-106	4	M-9544-H	4	150	B-106	4
	7/#7	M-9169	4	90	B-106	4	M-9169-H	4	150	B-106	4
	7/#6	M-9545	4	115	B-106	4	M-9545-H	4	200	B-106	4
	7/#5	M-9102	4	150	B-106	4	M-9102-H	4	250	B-106	4
	19/#9	M-9170	4	150	B-106	4	M-9170-H	4	250	B-106	4
	19/#8	M-9546	4	200	B-106	4	M-9546-H	5	2-150	B-107	4
5/8″	7/#10	M-9550	4	90	B-106	2	M-9550-H	4	150	B-106	4
	7/#8	M-9103	4	115	B-106	4	M-9103-H	4	200	B-106	4
	7/#7	M-9171	4	115	B-106	2	M-9171-H	4	200	B-106	4
	7/#6	M-9297	4	115	B-106	2	M-9297-H	4	200	B-106	4
	7/#5	M-9104	4	150	B-106	2	M-9104-H	4	250	B-106	4
	19/#9	M-9105	4	150	B-106	2	M-9105-H	4	250	B-106	4
	19/#8	M-9106	4	200	B-106	2	M-9106-H	5	2-150	B-107	4
	19/#7	M-9172	4	250	B-106	2	M-9172-H	5	2-200	B-107	4
	19/#6	M-9107	4	250	B-106	4	M-9107-H	5	2-200	B-107	4
3/4″	7/#10	M-9552	4	90	B-106	4	M-9552-H	4	150	B-106	4
	7/#8	M-9108	4	115	B-106	2	M-9108-H	4	200	B-106	4
	7/#7	M-9287	4	115	B-106	2	M-9287-H	4	200	B-106	4
	7/#6	M-9380	4	115	B-106	2	M-9380-H	4	200	B-106	4
	7/#5	M-9109	4	150	B-106	2	M-9109-H	4	250	B-106	4
	19/#9	M-9110	4	150	B-106	2	M-9110-H	4	250	B-106	4
	19/#8	M-9111	4	200	B-106	4	M-9111-H	5	2-150	B-107	4
	19/#7	M-9320	4	250	B-106	4	M-9320-H	5	2-200	B-107	4
	19/#6	M-9291	4	250	B-106	4	M-9291-H	5	2-200	B-107	2
1″	7/#10	M-9554	4	150	B-106	4	M-9554-H	4	250	B-106	2
	7/#8	M-9699	4	150	B-106	4	M-9699-H	4	250	B-106	4
	7/#7	M-9555	4	150	B-106	4	M-9555-H	4	250	B-106	4
	7/#6	M-9556	4	150	B-106	4	M-9556-H	4	250	B-106	4
	7/#5	M-9557	4	200	B-106	4	M-9557-H	5	2-150	B-107	4
	19/#9	M-9558	4	200	B-106	4	M-9558-H	5	2-150	B-107	4
	19/#8	M-9559	4	200	B-106	4	M-9559-H	5	2-150	B-107	4
	19/#7	M-9560	4	250	B-106	4	M-9560-H	5	2-200	B-107	4
	19/#6	M-9561	4	250	B-106	4	M-9561-H	5	2-200	B-107	4

NOTES

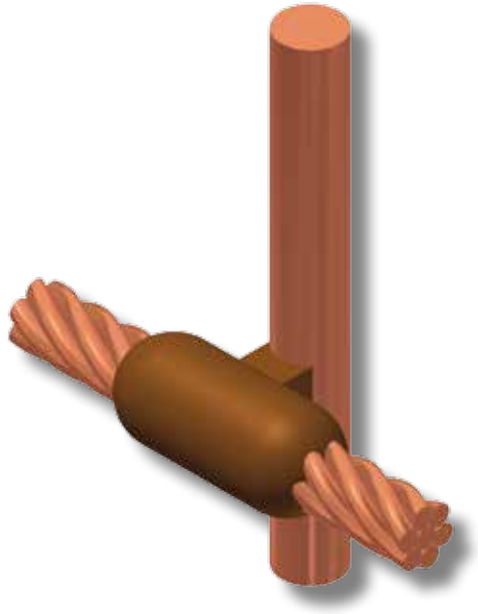
1. Molds listed are for copper clad steel ground rods: ½″ rods are 0.475″ diameter, 5/8″ rods are 0.563″ diameter, ¾″ rods are 0.682″ diameter, and 1″ rods are 0.914″ diameter. **Undersized ground rods may require shim stock or packing material.**
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

- **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 molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

CR-3

TYPE MOLDS

Horizontal Thru Cable to Ground Rod
For Copper-Clad Steel Conductors



NOTES

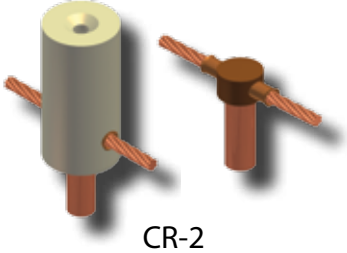
1. Molds listed are for copper clad steel ground rods: ½" rods are 0.475" diameter, 5/8" rods are 0.563" diameter, ¾" rods are 0.682" diameter, and 1" rods are 0.914" diameter. **Undersized ground rods may require shim stock or packing material.**
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

MOLDS FOR COPPER-CLAD STEEL CONDUCTORS

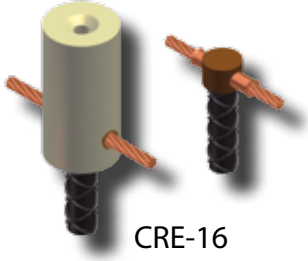
Ground Rod Size	Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2"	7/#10	M-9563	24	90	B-106	4
	7/#8	M-9564	24	115	B-106	4
	7/#7	M-9439	24	115	B-106	4
	7/#6	M-9565	24	150	B-106	4
	7/#5	M-9440	24	150	B-106	4
	19/#9	M-9387	24	150	B-106	4
	19/#8	M-9566	24	200	B-106	4
5/8"	7/#10	M-9567	24	90	B-106	4
	7/#8	M-9278	24	115	B-106	4
	7/#7	M-9568	24	115	B-106	2
	7/#6	M-9276	24	150	B-106	2
	7/#5	M-9143	24	150	B-106	2
	19/#9	M-9336	24	150	B-106	2
	19/#8	M-9569	24	200	B-106	4
	19/#7	M-9335	13	2-150	B-107	4
	19/#6	M-9570	13	2-200	B-107	4
3/4"	7/#10	M-9571	24	90	B-106	2
	7/#8	M-9049	24	115	B-106	4
	7/#7	M-9271	24	115	B-106	4
	7/#6	M-9268	24	150	B-106	4
	7/#5	M-9226	24	200	B-106	2
	19/#9	M-9142	24	200	B-106	2
	19/#8	M-9572	24	250	B-106	4
	19/#7	M-9573	13	2-200	B-107	4
	19/#6	M-9328	13	500	B-107	4
1"	7/#10	M-9574	24	90	B-106	4
	7/#8	M-9349	24	115	B-106	4
	7/#7	M-9575	24	115	B-106	4
	7/#6	M-9576	24	150	B-106	4
	7/#5	M-9577	24	200	B-106	4
	19/#9	M-9578	24	200	B-106	4
	19/#8	M-9579	24	250	B-106	4
	19/#7	M-9580	13	2-200	B-107	4
	19/#6	M-9581	13	500	B-107	4

- **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 connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

Single Shot Molds



CR-2



CRE-16

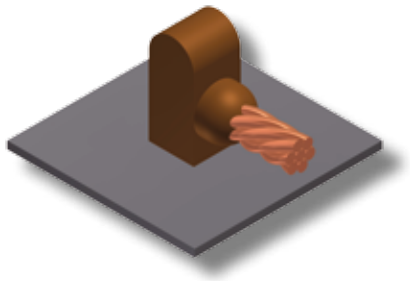
Grd Rod Size	Cable Size	Type	Mold #	Lead Time
5/8"	7/#10	CR-2	M-2022	4

Rebar Size	Cable Size	Type	Mold #	Lead Time
#4	7/#10	CRE-16	M-8946	4

See page 51 or 81 for EZ Lite Remote application.

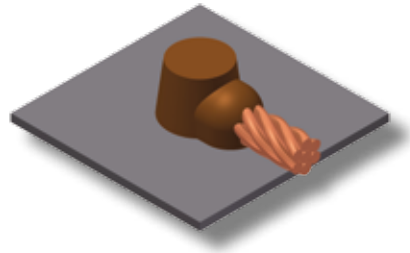
CS-1
TYPE MOLDS
Horizontal Cable to Horizontal Steel Surface
For Copper-Clad Steel Conductors
Note that the cable is OFF the surface

MOLDS FOR COPPER-CLAD STEEL CONDUCTORS										
Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	M-9582	4	90	B-106	4	M-9582-H	4	150	B-106	4
7/#8	M-9583	4	90	B-106	4	M-9583-H	4	150	B-106	4
7/#7	M-9191	4	90	B-106	2	M-9191-H	4	150	B-106	4
7/#6	M-9584	4	115	B-106	2	M-9584-H	4	200	B-106	4
7/#5	M-9144	4	115	B-106	4	M-9144-H	4	200	B-106	4
19/#9	M-9193	4	115	B-106	4	M-9193-H	4	200	B-106	2
19/#8	M-9585	4	150	B-106	4	M-9585-H	4	250	B-106	4
19/#7	M-9192	4	200	B-106	4	M-9192-H	5	2-150	B-107	4
19/#6	M-9698	4	200	B-106	4	M-9698-H	5	2-150	B-107	4



CS-8
TYPE MOLDS
Horizontal Cable to Horizontal Steel Surface
For Copper-Clad Steel Conductors
Note that the cable is ON the surface

MOLDS FOR COPPER-CLAD STEEL CONDUCTORS										
Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	M-9656	3†	65	Included	4	M-9656-H	4	115	B-106	4
7/#8	M-9661	4	90	B-106	4	FOR HEAVY DUTY CONNECTIONS USE CS-1 TYPE MOLDS				
7/#7	M-9270	4	90	B-106	2					
7/#6	M-9668	4	115	B-106	4					
7/#5	M-9326	4	115	B-106	4					
19/#9	M-9341	4	115	B-106	2					
19/#8	M-9675	4	150	B-106	2					
19/#7	M-9676	4	200	B-106	4					
19/#6	M-9677	4	200	B-106	4					



- **For sizes not listed, contact thermOweld®.**
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † Sold Complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (Price Key 3, CS-8 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 7/#8 & Larger Molds (CS-8 Molds Only)

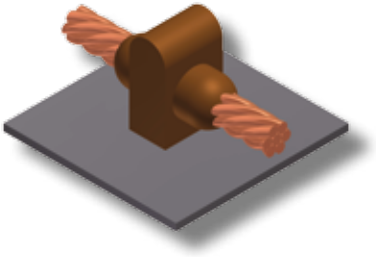
Welding to Horizontal Pipe: To weld to horizontal pipe, add pipe size to mold number. Example: To weld 7/#6 copper-clad steel cable to 6" horizontal pipe, the mold number would be M-9584-6. To weld 7/#8 copper-clad steel cable or smaller to pipe 14" and larger, use flat surface mold. For 7/#7 copper-clad steel cable and larger, use flat surface mold only on pipe 30" and larger.

CS-2

TYPE MOLDS

Horizontal Thru Cable to Horizontal Steel Surface
For Copper-Clad Steel Conductors

Note that the cable is OFF the surface



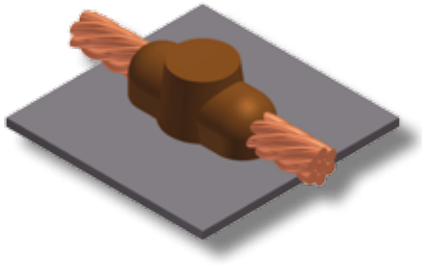
MOLDS FOR COPPER-CLAD STEEL CONDUCTORS										
Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	M-9586	4	90	B-106	4	M-9586-H	4	150	B-106	4
7/#8	M-9587	4	90	B-106	4	M-9587-H	4	150	B-106	4
7/#7	M-9588	4	115	B-106	4	M-9588-H	4	200	B-106	4
7/#6	M-9141	4	150	B-106	2	M-9141-H	4	250	B-106	4
7/#5	M-9140	4	150	B-106	4	M-9140-H	4	250	B-106	4
19/#9	M-9589	4	150	B-106	4	M-9589-H	4	250	B-106	4
19/#8	M-9590	4	200	B-106	4	M-9590-H	5	2-150	B-107	4
19/#7	M-9591	4	250	B-106	4	M-9591-H	5	2-200	B-107	4
19/#6	M-9592	5	2-150	B-107	4	M-9592-H	5	500	B-107	4

CS-9

TYPE MOLDS

Horizontal Thru Cable to Horizontal Steel Surface
For Copper-Clad Steel Conductors

Note that the cable is ON the surface



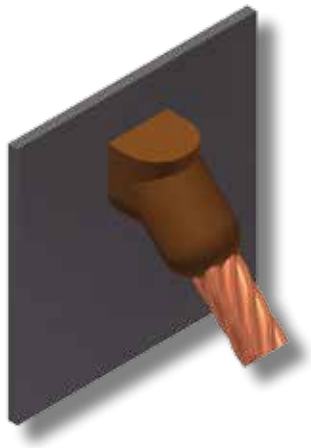
MOLDS FOR COPPER-CLAD STEEL CONDUCTORS										
Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	M-9629	3†	65	Included	4	M-9629-H	4	115	B-106	4
7/#8	M-9630	4	90	B-106	4	M-9630-H	4	150	B-106	4
7/#7	M-9631	4	115	B-106	4	M-9631-H	4	200	B-106	4
7/#6	M-9632	4	150	B-106	4	M-9632-H	4	250	B-106	4
7/#5	M-9633	4	150	B-106	4	M-9633-H	4	250	B-106	4
19/#9	M-9634	4	150	B-106	4	M-9634-H	4	250	B-106	4
19/#8	M-9635	4	200	B-106	4	M-9635-H	5	2-150	B-107	4
19/#7	M-9636	4	250	B-106	4	M-9636-H	5	2-200	B-107	4
19/#6	M-9637	5	2-150	B-107	4	M-9637-H	5	500	B-107	4

- **For sizes not listed, contact thermOweld®.**
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (Price Key 3 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 7/#8 & Larger Molds (CS-9 Molds Only)

Welding to Horizontal Pipe: To weld to horizontal pipe, add pipe size to mold number. Example: To weld 7/#6 copper-clad steel cable to 6" horizontal pipe, the mold number would be M-9141-6. To weld 7/#8 copper-clad steel cable or smaller to pipe 14" and larger, use flat surface mold. For 7/#7 copper-clad steel cable and larger, use flat surface mold only on pipe 30" and larger.

CS-3
TYPE MOLDS
Angular Cable Drop to Vertical Steel Surface
For Copper-Clad Steel Conductors

MOLDS FOR COPPER-CLAD STEEL CONDUCTORS										
Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	M-9112	4	65	B-106	4	M-9112-H	4	115	B-106	4
7/#8	M-9113	4	90	B-106	4	M-9113-H	4	150	B-106	4
7/#7	M-9173	4	90	B-106	3	M-9173-H	4	150	B-106	4
7/#6	M-9114	4	115	B-106	4	M-9114-H	4	200	B-106	2
7/#5	M-9115	4	115	B-106	4	M-9115-H	4	200	B-106	2
19/#9	M-9174	4	115	B-106	2	M-9174-H	4	200	B-106	2
19/#8	M-9116	4	150	B-106	4	M-9116-H	4	250	B-106	4
19/#7	M-9175	4	200	B-106	4	M-9175-H	5	2-150	B-107	4
19/#6	M-9117	4	200	B-106	4	M-9117-H	5	2-150	B-107	4



Welding to Vertical Pipe: To weld to vertical pipe, add pipe size to mold number. Example: To weld 7/#6 copper-clad steel cable to 6" vertical pipe, the mold number would be M-9114-V6. To weld 7/#8 copper-clad steel cable or smaller to pipe 14" and larger, use flat surface mold. For 7/#7 copper-clad steel cable and larger, use flat surface mold only on pipe 30" and larger.

CS-3
TYPE MOLDS
Angular Cable Drop to Vertical Steel Pipe
For Copper-Clad Steel Conductors

MOLDS FOR COPPER-CLAD STEEL CONDUCTORS						
Cable Size	Pipe Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	1 1/4" to 4"	M-9678	4	65	B-106	4
	4" to 6"	M-9679	4	65	B-106	4
	6" to 10"	M-9680	4	65	B-106	4
	12" to 30"	M-9681	4	65	B-106	4
7/#8	1 1/4" to 4"	M-9682	4	90	B-106	2
	4" to 6"	M-9683	4	90	B-106	4
	6" to 10"	M-9684	4	90	B-106	4
	12" to 30"	M-9685	4	90	B-106	4
7/#7	1 1/4" to 4"	M-9686	4	90	B-106	2
	4" to 6"	M-9687	4	90	B-106	2
	6" to 10"	M-9688	4	90	B-106	4
	12" to 30"	M-9689	4	90	B-106	4
7/#6	1 1/4" to 4"	M-9298	4	115	B-106	4
	4" to 6"	M-9691	4	115	B-106	2
	6" to 10"	M-9692	4	115	B-106	4
	12" to 30"	M-9693	4	115	B-106	4
7/#5	1 1/4" to 4"	M-9694	4	115	B-106	4
	4" to 6"	M-9695	4	115	B-106	2
	6" to 10"	M-9696	4	115	B-106	2
	12" to 30"	M-9697	4	115	B-106	4



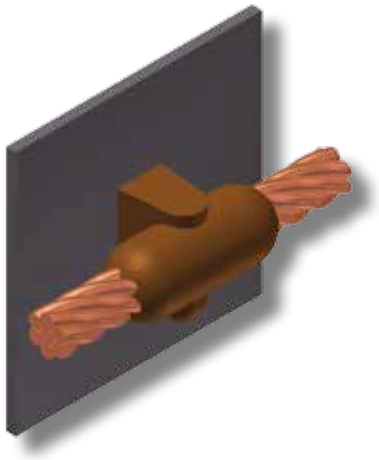
- **For sizes not listed, contact thermOweld®.**
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0106-32 ~ Vertical Chain Clamp w/ B-106 Handles for 4" Pipe & smaller
  40-0106-27 ~ 20" Chain Extension for 4" to 10" Pipe Use (2) 20" Chain Extensions for pipe sizes between 10" and 16"
  40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp

CS-6

TYPE MOLDS

Horizontal Thru Cable to Vertical Steel Surface
For Copper-Clad Steel Conductors

Note that the cable is OFF the surface



MOLDS FOR COPPER-CLAD STEEL CONDUCTORS					
Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	M-9597	4	90	B-106	2
7/#8	M-9598	4	115	B-106	4
7/#7	M-9599	4	115	B-106	4
7/#6	M-9600	4	150	B-106	4
7/#5	M-9266	4	150	B-106	4
19/#9	M-9399	4	150	B-106	4

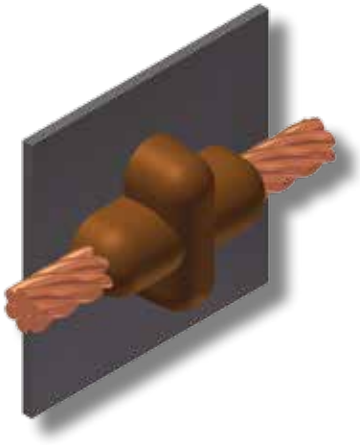
Welding to Vertical Pipe: To weld to vertical pipe, add pipe size to mold number. Example: To weld 7/#6 copper-clad steel cable to 6" vertical pipe, the mold number would be M-9600-V6. To weld 7/#8 copper-clad steel cable or smaller to pipe 14" and larger, use flat surface mold. For 7/#7 copper-clad steel cable and larger, use flat surface mold only on pipe 30" and larger.

CS-27

TYPE MOLDS

Horizontal Thru Cable to Vertical Steel Surface
For Copper-Clad Steel Conductors

Note that the cable is ON the surface



MOLDS FOR COPPER-CLAD STEEL CONDUCTORS					
Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	M-9650	4	65	B-106	4
7/#8	M-9651	4	115	B-106	4
7/#7	M-9652	4	115	B-106	4
7/#6	M-9653	4	150	B-106	4
7/#5	M-9654	4	150	B-106	4
19/#9	M-9655	4	150	B-106	4

Welding to Vertical Pipe: Use Weld Type CS-6 above.

- **For sizes not listed, contact thermOweld®.**
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500 (CS-6 Molds Only)
  40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 7/#8 & Larger Molds (CS-27 Molds Only)

CS-23
TYPE MOLDS
Vertical Cable Drop to Vertical Steel Surface
For Copper-Clad Steel Conductors
Note that the cable is OFF the surface

MOLDS FOR COPPER-CLAD STEEL CONDUCTORS										
Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	M-9438	4	65	B-106	2	M-9438-H	4	115	B-106	4
7/#8	M-9601	4	115	B-106	2	M-9601-H	4	200	B-106	4
7/#7	M-9602	4	115	B-106	2	M-9602-H	4	200	B-106	4
7/#6	M-9412	4	150	B-106	2	M-9412-H	4	250	B-106	4
7/#5	M-9375	4	150	B-106	4	M-9375-H	4	250	B-106	4
19/#9	M-9603	4	200	B-106	2	M-9603-H	17	2-150	B-106	2
19/#8	M-9604	4	200	B-106	4	M-9604-H	17	2-150	B-106	4
19/#7	M-9605	4	250	B-106	4	M-9605-H	5	2-200	B-107	4
19/#6	M-9361	17	2-150	B-106	4	M-9361-H	6	500	B-107	4



CS-7
TYPE MOLDS
Overhead Vertical Tap Cable to Vertical Steel Surface
For Copper-Clad Steel Conductors
Note that the cable is ON the surface

MOLDS FOR COPPER-CLAD STEEL CONDUCTORS										
Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	M-9644	4	90	B-106	4	M-9644-H	4	150	B-106	4
7/#8	M-9645	4	150	B-106	4	M-9645-H	17	250	B-106	4
7/#7	M-9397	4	150	B-106	4	M-9397-H	17	250	B-106	4
7/#6	M-9413	17	200	B-106	4	M-9413-H	6	2-150	B-107	4
7/#5	M-9398	17	200	B-106	4	M-9398-H	6	2-150	B-107	4
19/#9	M-9646	17	200	B-106	2	M-9646-H	6	2-150	B-107	4
19/#8	M-9647	17	250	B-106	4	M-9647-H	6	2-200	B-107	4
19/#7	M-9648	6	2-150	B-107	4	M-9648-H	6	500	B-107	4
19/#6	M-9649	6	2-200	B-107	4	M-9649-H	6	3-200	B-107	4



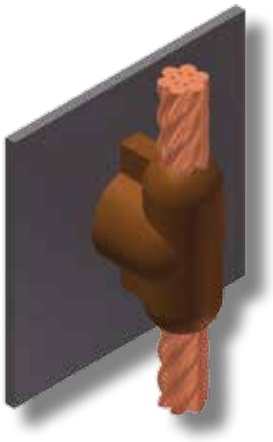
- **For sizes not listed, contact thermOweld®.**
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp

Welding to Vertical Pipe: To weld to vertical pipe, add pipe size to mold number. Example: To weld 7/#6 copper-clad steel cable to 6" vertical pipe, the mold number would be M-9412-V6. To weld 7/#8 copper-clad steel cable or smaller to pipe 14" and larger, use flat surface mold. For 7/#7 copper-clad steel cable and larger, use flat surface mold only on pipe 30" and larger.

CS-4

TYPE MOLDS

Horizontal Thru Cable to Vertical Steel Surface
For Copper-Clad Steel Conductors



MOLDS FOR COPPER-CLAD STEEL CONDUCTORS										
Cable Size	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	M-9118	4	115	B-106	4	M-9118-H	17	250	B-106	4
7/#8	M-9594	17	200	B-106	4	M-9594-H	6	2-200	B-107	4
7/#7	M-9176	17	200	B-106	2	M-9176-H	6	2-200	B-107	4
7/#6	M-9119	17	250	B-106	4	M-9119-H	6	500	B-107	4
7/#5	M-9272	17	250	B-106	4	M-9272-H	6	500	B-107	4
19/#9	M-9177	17	250	B-106	4	M-9177-H	6	500	B-107	4
19/#8	Use Heavy Duty Connections					M-9595-H	6	3-200	B-107	4
19/#7						M-9178-H	6	3-200	B-107	4
19/#6						M-9596-H	6	3-200	B-107	4

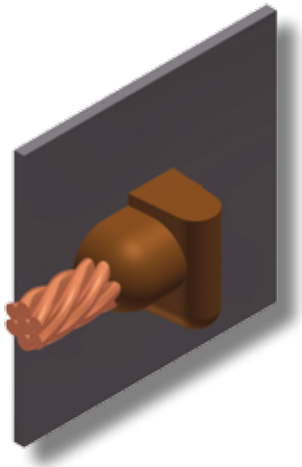
Welding to Vertical Pipe: To weld to vertical pipe, add pipe size to mold number. Example: To weld 7/#6 copper-clad steel cable to 6" vertical pipe, the mold number would be M-9119-V6. To weld 7/#8 copper-clad steel cable or smaller to pipe 14" and larger, use flat surface mold. For 7/#7 copper-clad steel cable and larger, use flat surface mold only on pipe 30" and larger.

CS-18

TYPE MOLDS

Horizontal Tap Cable to Vertical Steel Surface
For Copper-Clad Steel Conductors

Note that the cable is ON the surface





Left Hand Mold



Right Hand Mold

MOLDS FOR COPPER-CLAD STEEL CONDUCTORS					
Cable Size	Mold #†	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	M-9638	4	65	B-106	4
7/#8	M-9639	4	90	B-106	4
7/#7	M-9640	4	90	B-106	4
7/#6	M-9641	4	115	B-106	4
7/#5	M-9642	4	115	B-106	4
19/#9	M-9643	4	115	B-106	4

† Add (RH) to mold number for right hand mold or (LH) for left hand mold. Right hand (RH) mold will be furnished if none specified. EXAMPLE: M-9640-LH

Welding to Horizontal Pipe: To weld to horizontal pipe, add pipe size to mold number. Example: To weld 7/#6 copper-clad steel cable to 6" horizontal pipe, the mold number would be M-9641-L6.

- **For sizes not listed, contact thermOweld®.**
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 7/#8 & Larger Molds (CS-18 Molds Only)

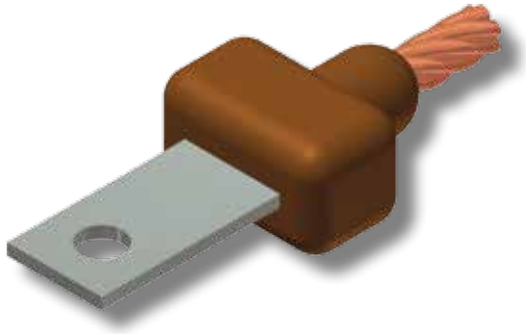
CB-1

TYPE MOLDS

Horizontal Cable Tap to Horizontal Lug or Bus
For Copper-Clad Steel Conductors

See pages 159-160 for Lug part numbers.

MOLDS FOR COPPER-CLAD STEEL CONDUCTORS						
Cable Size	Lug Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7#10	3/16 X 1	M-9607	4	65	B-106	4
7/#8	3/16 X 1	M-9701	4	65	B-106	4
	1/4 X 1	M-9121	4	65	B-106	4
7/#7	3/16 X 1	M-9609	4	90	B-106	4
	1/4 X 1	M-9126	4	90	B-106	4
7/#6	3/16 X 1	M-9410	4	90	B-106	4
	1/4 X 1	M-9613	4	90	B-106	4
	1/4 X 1 1/2	M-9127	4	90	B-106	4
7/#5	3/16 X 1	M-9617	4	90	B-106	2
	1/4 X 1	M-9445	4	90	B-106	4
	1/4 X 1 1/2	M-9228	4	90	B-106	4
19/#9	3/16 X 1	M-9181	4	90	B-106	2
	1/4 X 1	M-9620	4	90	B-106	2
	1/4 X 1 1/2	M-9182	4	90	B-106	2
19/#8	1/4 X 1	M-9129	4	115	B-106	4
	1/4 X 1 1/2	M-9131	4	115	B-106	4
19/#7	1/4 X 1	M-9446	4	150	B-106	2
	1/4 X 1 1/2	M-9185	4	150	B-106	4
19/#6	1/4 X 1	M-9625	4	200	B-106	4
	1/4 X 1 1/2	M-9263	4	200	B-106	4



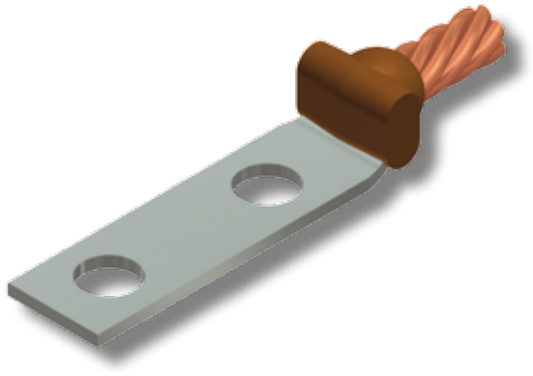
CB-33

TYPE MOLDS

Horizontal Cable Tap to Horizontal Lug or Bus
For Copper-Clad Steel Conductors

See page 161 for Lug part numbers.

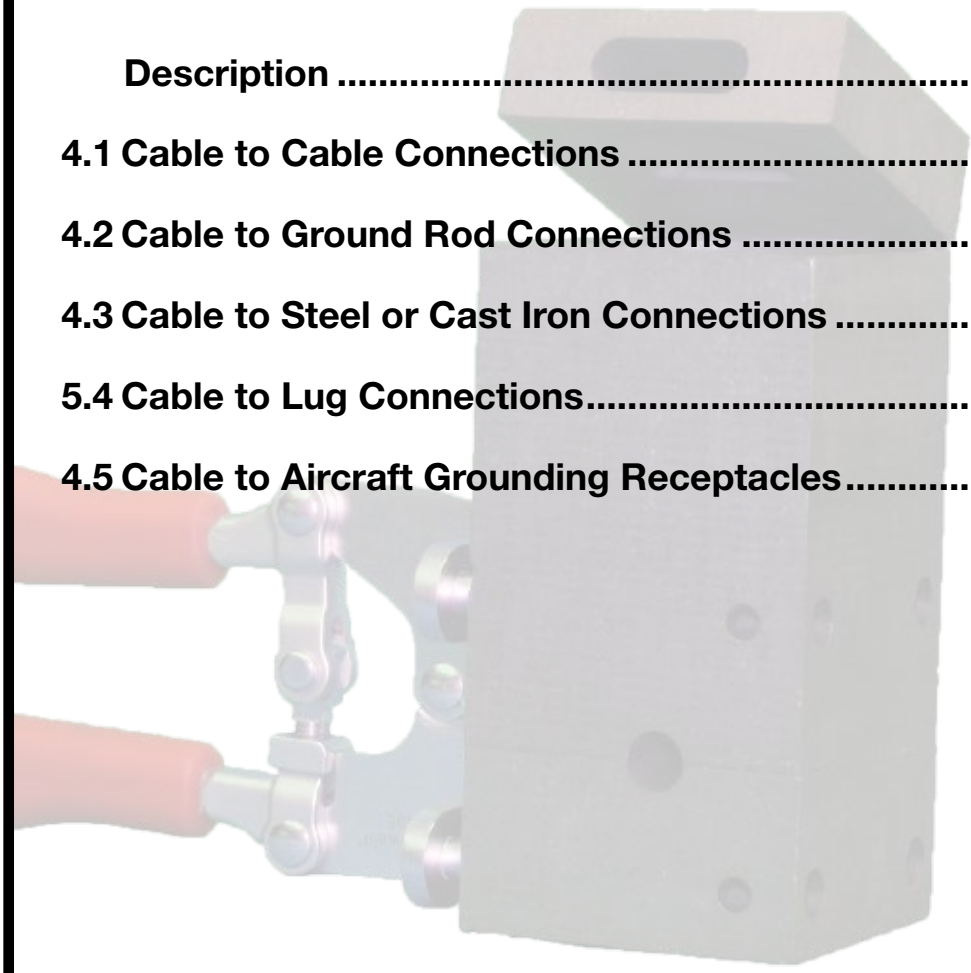
MOLDS FOR COPPER-CLAD STEEL CONDUCTORS						
Cable Size	Lug Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7#10	1/8 X 1	M-9365	4	32	B-106	4
7/#8	1/8 X 1	M-9366	4	45	B-106	4
7/#7	1/8 X 1	M-9367	4	45	B-106	4
7/#6	1/8 X 1	M-9368	4	65	B-106	4
7/#5	1/8 X 1	M-9369	4	65	B-106	4
19/#9	3/16 X 1	M-9370	4	65	B-106	2
19/#8	3/16 X 1	M-9371	4	90	B-106	4
19/#7	3/16 X 1	M-9372	4	90	B-106	4
19/#6	1/4 X 1	M-9373	4	115	B-106	4



- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush



Section 4
Molds
for use with
Lightning Protection Conductors



Description ..... Page #

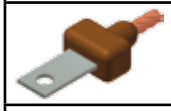
4.1 Cable to Cable Connections 105-107

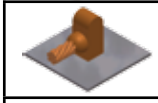
4.2 Cable to Ground Rod Connections 108-112

4.3 Cable to Steel or Cast Iron Connections 113-118

5.4 Cable to Lug Connections..... 119

4.5 Cable to Aircraft Grounding Receptacles..... 120

Weld Type		Page #
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Weld Type		Page #
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Weld Type		Page #
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	CS-9	114
	CS-18	116
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	Rebar Bond	163

See page 20 -29 for additional configurations.

Use the chart below to determine the cable code. Then select the weld connection type needed and then find the corresponding cable code to acquire the mold number, price key and cartridge size.

CABLE CODE	thermOweld	THOMPSON	ROBBINS	INDEPENDENT	AC	EAST COAST	HEARY	HARGER®	PREFERRED	ERICO®
A	36-7563-00, 36-7563-01	14	11A, 10	22	C-150	C14	HB6C	14	C61, C63	
B	36-7563-02, 36-7563-03	509	11		C-152		HB4C	10	C62	
C	36-7562-00, 36-7562-01, 36-7562-02, 36-7562-03, 36-7562-04, 36-7561-00, 36-7561-01	29X, 32	1	32S	C-122, C-122L	C29, C32	HB29-17C, HB32-17C	29, 30, 32, 33	C50, C50T, C51, C52, C52T, C53, C56-19	LPC120, LPC121, LPC122, LPC120L, LPC122L
D	36-7562-06, 36-7561-08, 36-7562-07, 36-7557-00, 36-7557-01	32S, 505, 28R	601, 603	20, 500	C-125, C-126, C-128	C385	HB24-14C, HB28-14C	25, 35, 28	C54, C55, C58	LPC125, LPC126, LPC126L, LPC128
E			604	40, G1						
F	36-7557-02, 36-7557-03, 36-7561-02, 36-7561-03	36S, 506	602	36S	C-123, C-127		HB36-17C, BH28B-13C	20, 36	C56R	LPC123, LPC127
G				501,21, 44S, 40S	C-124		HB40-17C	40		LPC124
H				502						
J				501B						
K		507		G3				38		
L				502A						
Q	36-7561-04*, 36-7561-06*, 36-7561-07*		605*		C-137*	C4/0-19*	HB122-4/0*	54*, 64*	C59-19*, C59-37*	LPC137*

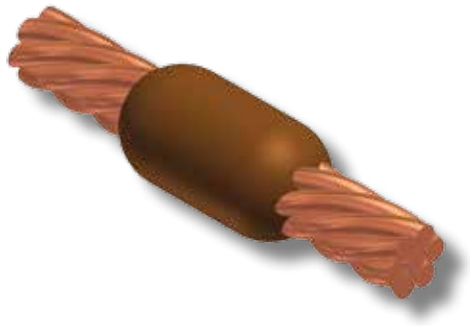
* = 4/0 CONCENTRIC CABLE

CC-1

TYPE MOLDS

Horizontal End to End

For Lightning Protection Conductors



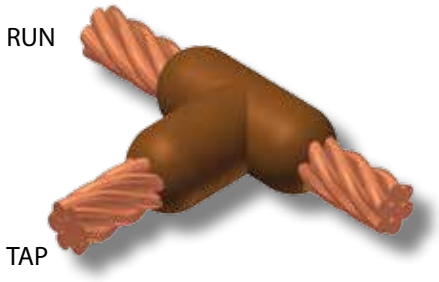
MOLDS FOR LIGHTNING PROTECTION CONDUCTORS					
Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
A	M-5002	4	25	B-106	4
B	M-5006	4	45	B-106	4
C	M-5032	4	65	B-106	2
D	M-5012	4	90	B-106	2
E	M-5013	4	90	B-106	2
F	M-5016	4	90	B-106	2
G	M-5005	4	115	B-106	2
H	M-2176	4	115	B-106	4
J	M-2178	4	115	B-106	4
K	M-2180	4	115	B-106	2
L	M-2182	4	150	B-106	4
Q	M-5077	4	90	B-106	SDS

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections , contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CC-2

TYPE MOLDS

Horizontal Cable Tap to Horizontal Cable Run
For Lightning Protection Conductors



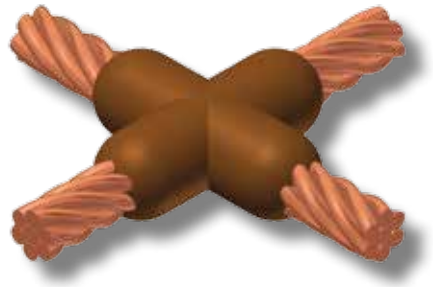
MOLDS FOR LIGHTNING PROTECTION CONDUCTORS

Cable Code		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
A	A	M-5050	4	45	B-106	4
B	B	M-5056	4	65	B-106	2
	A	M-2183	4	45	B-106	4
C	C	M-5048	4	115	B-106	2
	B	M-2186	4	90	B-106	4
	A	M-2184	4	65	B-106	2
D	D	M-5287	4	115	B-106	2
	C	M-5040	4	90	B-106	2
	B	M-2185	4	90	B-106	4
	A	M-5288	4	65	B-106	2
E	E	M-5023	4	150	B-106	2
	D	M-5284	4	150	B-106	2
	C	M-2187	4	115	B-106	2
	B	M-2192	4	90	B-106	4
	A	M-5286	4	90	B-106	4
F	F	M-2193	4	150	B-106	2
	E	M-5014	4	150	B-106	2
	D	M-5015	4	115	B-106	2
	C	M-2194	4	115	B-106	2
	B	M-5019	4	90	B-106	2
	A	M-5017	4	90	B-106	2
	Q	M-5018	4	150	B-106	4
G	G	M-2195	4	150	B-106	2
	F	M-2197	4	150	B-106	4
	E	M-2222	4	150	B-106	4
	D	M-2223	4	115	B-106	4
	C	M-2224	4	115	B-106	4
	B	M-2225	4	90	B-106	4
	A	M-2226	4	90	B-106	4
	Q	M-2227	4	150	B-106	4
H	H	M-2228	4	150	B-106	4
	G	M-2229	4	150	B-106	4
	F	M-2230	4	150	B-106	4
	E	M-2231	4	150	B-106	4
	D	M-2232	4	115	B-106	4
	C	M-2233	4	115	B-106	4
	B	M-2234	4	90	B-106	4
	A	M-2843	4	90	B-106	4
	Q	M-2236	4	150	B-106	4
J	J	M-2237	4	200	B-106	4
	H	M-2238	4	150	B-106	4
	G	M-2239	4	150	B-106	4
	F	M-2240	4	150	B-106	4
	E	M-2241	4	150	B-106	4
	D	M-2242	4	150	B-106	4
	C	M-2243	4	115	B-106	4
	B	M-2244	4	90	B-106	4
	A	M-2245	4	90	B-106	4
	Q	M-2246	4	150	B-106	4

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS

Cable Code		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
K	K	M-2247	4	200	B-106	2
	J	M-2248	4	200	B-106	4
	H	M-2249	4	200	B-106	4
	G	M-2250	4	150	B-106	2
	F	M-2251	4	150	B-106	4
	E	M-2252	4	150	B-106	2
	D	M-2253	4	150	B-106	2
	C	M-2254	4	150	B-106	2
	B	M-2255	4	115	B-106	4
	A	M-2256	4	115	B-106	4
	Q	M-2257	4	150	B-106	4
L	L	M-2258	4	250	B-106	4
	K	M-2259	4	200	B-106	4
	J	M-2260	4	200	B-106	4
	H	M-2261	4	200	B-106	4
	G	M-2262	4	200	B-106	4
	F	M-2263	4	200	B-106	4
	E	M-2264	4	150	B-106	2
	D	M-2265	4	150	B-106	4
	C	M-2266	4	150	B-106	4
	B	M-2267	4	115	B-106	4
	A	M-2268	4	115	B-106	4
	Q	M-2269	4	200	B-106	4
Q	Q	M-5283	4	150	B-106	2
	F	M-5033	4	150	B-106	2
	E	M-5035	4	150	B-106	2
	D	M-5036	4	115	B-106	2
	C	M-5020	4	115	B-106	2
	B	M-2270	4	90	B-106	2
	A	M-5037	4	90	B-106	2

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp



CC-4

TYPE MOLDS

Horizontal to Horizontal Cable Cross
For Lightning Protection Conductors
Tap cable is cut

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS

Cable Code		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
A	A	M-2271	4	65	B-106	4
B	B	M-2272	4	90	B-106	4
	A	M-2273	4	65	B-106	4
C	C	M-2274	4	150	B-106	2
	B	M-2275	4	115	B-106	4
	A	M-2276	4	90	B-106	4
D	D	M-5231	4	150	B-106	2
	C	M-2277	4	150	B-106	2
	B	M-2278	4	115	B-106	4
	A	M-2279	4	90	B-106	4
E	E	M-2280	4	200	B-106	2
	D	M-2281	4	200	B-106	4
	C	M-2282	4	150	B-106	4
	B	M-2283	4	115	B-106	4
	A	M-2284	4	115	B-106	4
F	F	M-5232	4	200	B-106	2
	E	M-2285	4	200	B-106	4
	D	M-2286	4	150	B-106	4
	C	M-2287	4	150	B-106	4
	B	M-2288	4	115	B-106	4
	A	M-2289	4	115	B-106	4
	Q	M-2290	4	200	B-106	4
G	G	M-2291	4	200	B-106	2
	F	M-2292	4	200	B-106	4
	E	M-2293	4	200	B-106	4
	D	M-2294	4	150	B-106	4
	C	M-2295	4	150	B-106	4
	B	M-2296	4	115	B-106	4
	A	M-2297	4	115	B-106	4
	Q	M-2298	4	200	B-106	4
H	H	M-2299	4	200	B-106	4
	G	M-2300	4	200	B-106	4
	F	M-2301	4	200	B-106	4
	E	M-2302	4	200	B-106	4
	D	M-2303	4	150	B-106	4
	C	M-2304	4	150	B-106	4
	B	M-2305	4	115	B-106	4
	A	M-2306	4	115	B-106	4
	Q	M-2307	4	200	B-106	4
J	J	M-2308	4	250	B-106	2
	H	M-2309	4	200	B-106	4
	G	M-2310	4	200	B-106	4
	F	M-2311	4	200	B-106	4
	E	M-2312	4	200	B-106	4
	D	M-2313	4	200	B-106	4
	C	M-2314	4	150	B-106	4
	B	M-2315	4	115	B-106	4
	A	M-2316	4	115	B-106	4
	Q	M-2317	4	200	B-106	4

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS

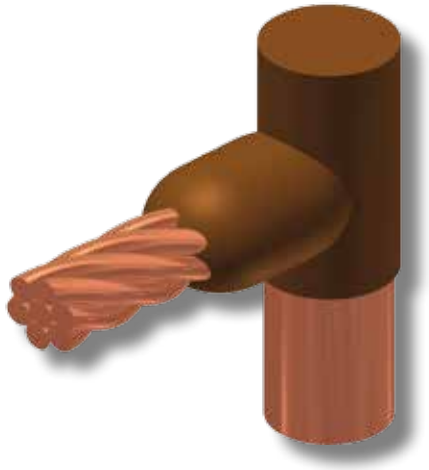
Cable Code		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
K	K	M-2318	4	250	B-106	2
	J	M-2319	4	250	B-106	4
	H	M-2855	4	250	B-106	4
	G	M-2321	4	200	B-106	4
	F	M-2322	4	200	B-106	4
	E	M-2323	4	200	B-106	4
	D	M-2324	4	200	B-106	4
	C	M-2325	4	200	B-106	4
	B	M-2326	4	150	B-106	4
	A	M-2327	4	150	B-106	4
	Q	M-2328	4	200	B-106	4
L	L	M-2329	5	2-150	B-107	4
	K	M-2330	4	250	B-106	4
	J	M-2331	4	250	B-106	4
	H	M-2332	4	250	B-106	4
	G	M-2333	4	250	B-106	4
	F	M-2334	4	250	B-106	4
	E	M-2335	4	200	B-106	4
	D	M-2336	4	200	B-106	4
	C	M-2337	4	200	B-106	4
	B	M-2338	4	150	B-106	4
	A	M-2339	4	150	B-106	4
	Q	M-2340	4	250	B-106	4
Q	Q	M-5201	4	200	B-106	2
	F	M-2341	4	200	B-106	4
	E	M-2342	4	200	B-106	4
	D	M-2343	4	150	B-106	2
	C	M-2344	4	150	B-106	2
	B	M-2345	4	115	B-106	4
	A	M-2346	4	115	B-106	4

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CR-1

TYPE MOLDS

Horizontal Cable Terminal to Ground Rod
For Lightning Protection Conductors



MOLDS FOR LIGHTNING PROTECTION CONDUCTORS						
Ground Rod Size	Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2″	A	M-5060	4	90	B-106	2
	B	M-2347	4	90	B-106	4
	C	M-5064	4	90	B-106	4
	D	M-5061	4	115	B-106	2
	E	M-5062	4	115	B-106	2
	F	M-5063	4	115	B-106	4
	G	M-2348	4	115	B-106	4
	H	M-2349	4	115	B-106	4
	J	M-2350	4	115	B-106	4
	K	M-2351	4	115	B-106	4
	L	M-2352	4	150	B-106	4
	Q	M-5022	4	90	B-106	4
5/8″	A	M-5066	4	90	B-106	2
	B	M-2353	4	90	B-106	4
	C	M-5073	4	115	B-106	2
	D	M-5069	4	115	B-106	2
	E	M-5070	4	115	B-106	2
	F	M-5071	4	115	B-106	2
	G	M-2354	4	115	B-106	2
	H	M-2355	4	115	B-106	4
	J	M-2356	4	115	B-106	4
	K	M-2357	4	115	B-106	2
	L	M-2358	4	150	B-106	4
	Q	M-5038	4	90	B-106	4
3/4″	A	M-5079	4	90	B-106	2
	B	M-5086	4	90	B-106	4
	C	M-5085	4	115	B-106	2
	D	M-5081	4	115	B-106	2
	E	M-5083	4	115	B-106	2
	F	M-5084	4	115	B-106	2
	G	M-2359	4	115	B-106	2
	H	M-2360	4	115	B-106	4
	J	M-2361	4	115	B-106	2
	K	M-2362	4	115	B-106	2
	L	M-2363	4	150	B-106	4
	Q	M-5039	4	90	B-106	4
1″	A	M-2364	4	150	B-106	4
	B	M-2365	4	150	B-106	4
	C	M-2366	4	150	B-106	4
	D	M-2367	4	150	B-106	2
	E	M-5089	4	150	B-106	4
	F	M-2368	4	200	B-106	4
	G	M-2369	4	200	B-106	4
	H	M-2370	4	200	B-106	4
	J	M-2371	4	200	B-106	4
	K	M-2372	4	200	B-106	4
	L	M-2373	4	250	B-106	4
	Q	M-5041	4	150	B-106	4

NOTES

1. Molds listed are for copper clad steel ground rods: ½″ rods are 0.475″ diameter, 5/8″ rods are 0.563″ diameter, ¾″ rods are 0.682″ diameter, and 1″ rods are 0.914″ diameter. Undersized ground rods may require shim stock or packing material.
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

- **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 connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

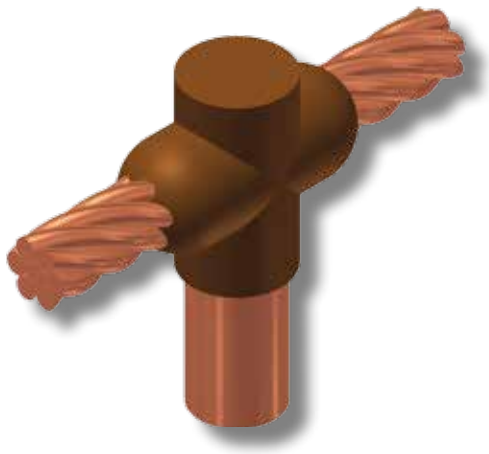
MOLDS

CR-2

TYPE MOLDS

Horizontal Cable to Ground Rod
For Lightning Protection Conductors

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS						
Ground Rod Size	Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2″	A	M-5090	4	90	B-106	4
	B	M-2374	4	90	B-106	4
	C	M-2375	4	115	B-106	2
	D	M-5091	4	115	B-106	2
	E	M-5092	4	115	B-106	4
	F	M-5093	4	115	B-106	4
	G	M-2376	4	150	B-106	4
	H	M-2377	4	150	B-106	4
	J	M-2378	4	150	B-106	4
	K	M-2379	4	150	B-106	4
	L	M-2380	4	200	B-106	4
	Q	M-5088	4	115	B-106	4
5/8″	A	M-5094	4	90	B-106	4
	B	M-2381	4	115	B-106	4
	C	M-5099	4	150	B-106	2
	D	M-5095	4	150	B-106	2
	E	M-5097	4	150	B-106	2
	F	M-5098	4	150	B-106	2
	G	M-2382	4	200	B-106	2
	H	M-2383	4	200	B-106	4
	J	M-2384	4	200	B-106	4
	K	M-2385	4	200	B-106	2
	L	M-2386	4	250	B-106	4
	Q	M-5051	4	115	B-106	2
3/4″	A	M-5100	4	90	B-106	4
	B	M-5106	4	115	B-106	2
	C	M-5105	4	150	B-106	2
	D	M-5102	4	150	B-106	2
	E	M-5103	4	150	B-106	2
	F	M-5104	4	150	B-106	2
	G	M-2387	4	200	B-106	2
	H	M-2388	4	200	B-106	4
	J	M-2389	4	200	B-106	4
	K	M-2390	4	200	B-106	2
	L	M-2391	4	250	B-106	4
	Q	M-5052	4	115	B-106	4
1″	A	M-2392	4	150	B-106	4
	B	M-2393	4	150	B-106	4
	C	M-2394	4	150	B-106	4
	D	M-2395	4	200	B-106	4
	E	M-2396	4	200	B-106	4
	F	M-2397	4	250	B-106	4
	G	M-2398	4	250	B-106	4
	H	M-2399	4	250	B-106	4
	J	M-2400	4	250	B-106	4
	K	M-2401	4	250	B-106	4
	L	M-2402	4	2-150	B-106	4
	Q	M-5055	4	150	B-106	4



NOTES

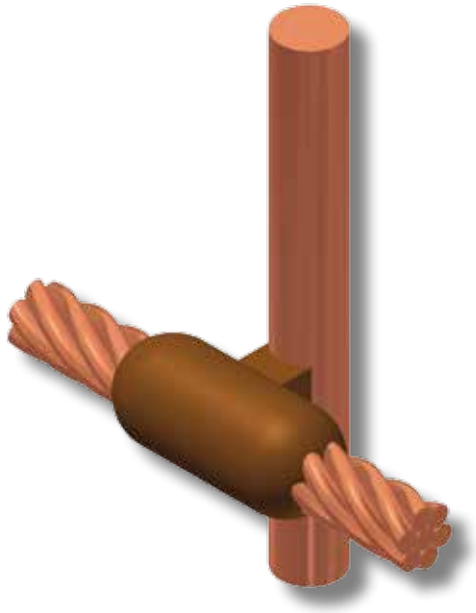
1. Molds listed are for copper clad steel ground rods: ½″ rods are 0.475″ diameter, 5/8″ rods are 0.563″ diameter, ¾″ rods are 0.682″ diameter, and 1″ rods are 0.914″ diameter. **Undersized ground rods may require shim stock or packing material.**
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

- **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 connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

CR-3

TYPE MOLDS

Horizontal Thru Cable to Ground Rod
For Lightning Protection Conductors



MOLDS FOR LIGHTNING PROTECTION CONDUCTORS						
Ground Rod Size	Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2″	A	M-5107	24	90	B-106	4
	B	M-2403	24	115	B-106	4
	C	M-5111	24	150	B-106	2
	D	M-5108	24	150	B-106	4
	E	M-5109	24	150	B-106	4
	F	M-5110	24	150	B-106	4
	G	M-2404	24	200	B-106	4
	H	M-2405	24	200	B-106	4
	J	M-2406	24	200	B-106	4
	K	M-2407	24	200	B-106	4
	L	M-2408	24	250	B-106	4
	Q	M-5057	24	150	B-106	4
5/8″	A	M-5114	24	90	B-106	4
	B	M-2409	24	115	B-106	4
	C	M-5118	24	150	B-106	2
	D	M-5115	24	150	B-106	2
	E	M-5116	24	150	B-106	2
	F	M-5117	24	150	B-106	2
	G	M-2410	24	200	B-106	4
	H	M-2411	24	200	B-106	4
	J	M-2412	24	200	B-106	4
	K	M-2413	24	200	B-106	2
	L	M-2414	24	250	B-106	4
	Q	M-5058	24	150	B-106	4
3/4″	A	M-5119	24	90	B-106	2
	B	M-5125	24	115	B-106	4
	C	M-5124	24	150	B-106	2
	D	M-5120	24	150	B-106	2
	E	M-5121	24	150	B-106	2
	F	M-5123	24	150	B-106	2
	G	M-2415	24	200	B-106	2
	H	M-2416	24	200	B-106	4
	J	M-2417	24	200	B-106	4
	K	M-2418	24	200	B-106	2
	L	M-2419	24	250	B-106	4
	Q	M-2420	24	150	B-106	2
1″	A	M-2421	24	90	B-106	4
	B	M-2422	24	115	B-106	4
	C	M-2423	24	150	B-106	4
	D	M-2424	24	150	B-106	4
	E	M-2174	24	150	B-106	4
	F	M-2425	24	150	B-106	2
	G	M-2426	24	200	B-106	2
	H	M-5122	24	200	B-106	4
	J	M-5132	24	200	B-106	2
	K	M-2427	24	200	B-106	4
	L	M-2428	24	250	B-106	4
	Q	M-2429	24	150	B-106	2

NOTES

1. Molds listed are for copper clad steel ground rods: ½″ rods are 0.475″ diameter, 5/8″ rods are 0.563″ diameter, ¾″ rods are 0.682″ diameter, and 1″ rods are 0.914″ diameter. **Undersized ground rods may require shim stock or packing material.**
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

- **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 connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

CR-18

TYPE MOLDS

Vertical Cable Up to Ground Rod
For Lightning Protection Conductors

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS						
Ground Rod Size	Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2″	A	M-10570	17	90	B-106	4
	B	M-10571	17	90	B-106	4
	C	M-10572	17	115	B-106	4
	D	M-10573	17	150	B-106	4
	E	M-10574	17	150	B-106	4
	F	M-10575	17	150	B-106	4
	G	M-10576	17	150	B-106	4
	H	M-10577	17	150	B-106	4
	J	M-10578	17	200	B-106	4
	K	M-10579	17	200	B-106	4
	L	M-10580	17	250	B-106	4
	Q	M-10581	17	150	B-106	4
5/8″	A	M-10582	17	90	B-106	4
	B	M-10583	17	90	B-106	4
	C	M-5177	17	150	B-106	2
	D	M-8472	17	150	B-106	2
	E	M-10584	17	150	B-106	4
	F	M-10585	17	150	B-106	4
	G	M-10586	17	150	B-106	4
	H	M-10587	17	150	B-106	4
	J	M-10588	17	200	B-106	4
	K	M-10589	17	200	B-106	4
	L	M-10590	17	250	B-106	4
	Q	M-10591	17	150	B-106	4
3/4″	A	M-10592	17	115	B-106	4
	B	M-10593	17	115	B-106	4
	C	M-8177	17	150	B-106	2
	D	M-10594	17	200	B-106	4
	E	M-5490	17	200	B-106	4
	F	M-10595	17	200	B-106	4
	G	M-10596	17	200	B-106	4
	H	M-10597	17	200	B-106	4
	J	M-10598	17	200	B-106	4
	K	M-2138	17	200	B-106	4
	L	M-10599	17	250	B-106	4
	Q	M-10600	17	150	B-106	4
1″	A	M-10601	17	150	B-106	4
	B	M-10602	17	150	B-106	4
	C	M-10603	17	200	B-106	4
	D	M-10604	17	200	B-106	4
	E	M-10605	17	200	B-106	4
	F	M-10606	17	250	B-106	4
	G	M-10607	17	250	B-106	4
	H	M-10608	17	250	B-106	4
	J	M-10609	17	250	B-106	4
	K	M-10610	17	250	B-106	4
	L	M-10611	17	2-150	B-106	4
	Q	M-10612	17	200	B-106	4



NOTES

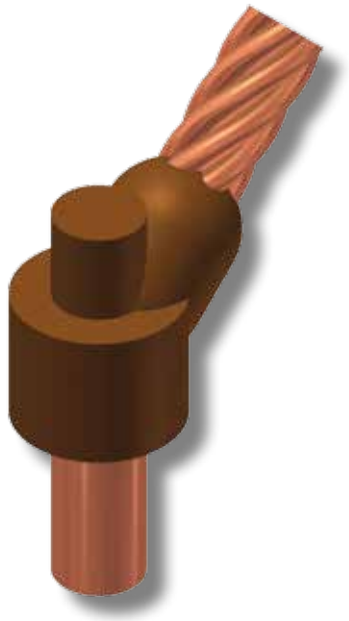
1. Molds listed are for copper clad steel ground rods: ½″ rods are 0.475″ diameter, 5/8″ rods are 0.563″ diameter, ¾″ rods are 0.682″ diameter, and 1″ rods are 0.914″ diameter. **Undersized ground rods may require shim stock or packing material.**
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

- **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 connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

CR-36

TYPE MOLDS

30° Up Cable to Ground Rod
For Lightning Protection Conductors



NOTES

1. Molds listed are for copper clad steel ground rods: ½" rods are 0.475" diameter, 5/8" rods are 0.563" diameter, ¾" rods are 0.682" diameter, and 1" rods are 0.914" diameter. **Undersized ground rods may require shim stock or packing material.**
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

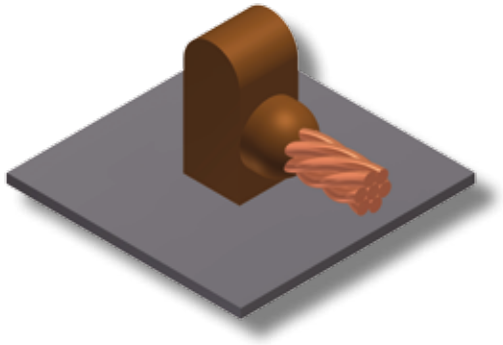
- **For sizes not listed, contact thermOweld®.**
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add suffix "-N" to mold number.
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS

Ground Rod Size	Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2"	A	M-10613	17	90	B-106	4
	B	M-10614	17	90	B-106	4
	C	M-10615	17	115	B-106	4
	D	M-10616	17	150	B-106	4
	E	M-10617	17	150	B-106	4
	F	M-10618	17	150	B-106	4
	G	M-10619	17	150	B-106	4
	H	M-10620	17	150	B-106	4
	J	M-10621	17	200	B-106	4
	K	M-10622	17	200	B-106	4
	L	M-10623	17	250	B-106	4
	Q	M-10624	17	150	B-106	4
5/8"	A	M-10625	17	90	B-106	4
	B	M-10626	17	90	B-106	4
	C	M-10627	17	115	B-106	4
	D	M-10628	17	150	B-106	4
	E	M-10629	17	150	B-106	2
	F	M-10630	17	150	B-106	4
	G	M-10631	17	150	B-106	4
	H	M-10632	17	150	B-106	4
	J	M-10633	17	200	B-106	4
	K	M-10634	17	200	B-106	4
	L	M-10635	17	250	B-106	4
	Q	M-10636	17	150	B-106	4
3/4"	A	M-10637	17	115	B-106	4
	B	M-10638	17	115	B-106	4
	C	M-10639	17	150	B-106	4
	D	M-10640	17	200	B-106	4
	E	M-10641	17	200	B-106	4
	F	M-10642	17	200	B-106	4
	G	M-10643	17	200	B-106	4
	H	M-10644	17	200	B-106	4
	J	M-10645	17	200	B-106	4
	K	M-10646	17	200	B-106	4
	L	M-10647	17	250	B-106	4
	Q	M-10648	17	150	B-106	4
1"	A	M-10649	17	150	B-106	4
	B	M-10650	17	150	B-106	4
	C	M-10651	17	200	B-106	4
	D	M-10652	17	200	B-106	4
	E	M-10653	17	250	B-106	4
	F	M-10654	17	250	B-106	4
	G	M-10655	17	250	B-106	4
	H	M-10656	17	250	B-106	4
	J	M-10657	17	250	B-106	4
	K	M-10658	17	250	B-106	4
	L	M-10659	17	2-150	B-106	4
	Q	M-10660	17	200	B-106	4

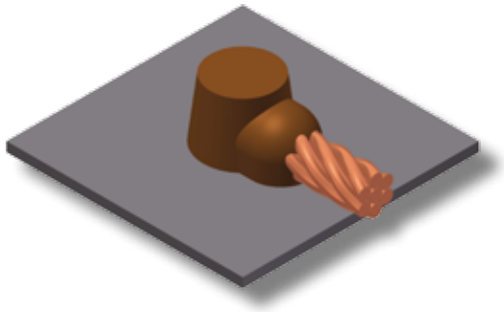
CS-1
TYPE MOLDS
Horizontal Cable to Horizontal Steel Surface
For Lightning Protection Conductors
Note that the cable is OFF the surface

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS					
Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
D	M-5134	4	115	B-106	2
E	M-5135	4	115	B-106	4
F	M-5136	4	115	B-106	4
G	M-2430	4	115	B-106	2
H	M-2431	4	115	B-106	4
J	M-2432	4	150	B-106	4
K	M-2433	4	200	B-106	4
L	M-2434	4	250	B-106	4
Q	M-5290	4	115	B-106	2



CS-8
TYPE MOLDS
Horizontal Cable to Horizontal Steel Surface
For Lightning Protection Conductors
Note that the cable is ON the surface

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS					
Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
A	M-5127	3†	45	Included	4
B	M-2455	3†	65	Included	2
C	M-5133	4	90	B-106	2
D	M-5128	4	115	B-106	2
E	M-5129	4	115	B-106	4
F	M-5131	4	115	B-106	2
G	M-2456	4	115	B-106	4
H	M-2457	4	115	B-106	4
J	M-2458	4	150	B-106	4
K	M-2459	4	200	B-106	4
L	M-2460	4	250	B-106	4
Q	M-5126	4	115	B-106	2



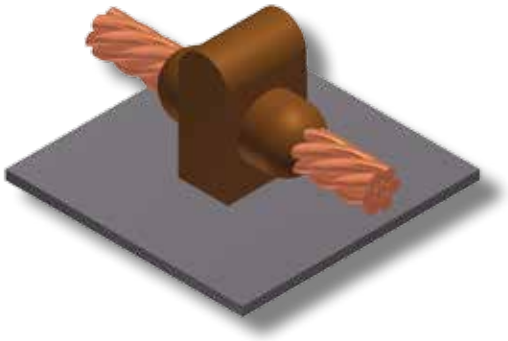
- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (Price Key 3, CS-8 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for cable code "C" & Larger Molds (CS-8 Molds Only)

CS-2

TYPE MOLDS

Horizontal Thru Cable to Horizontal Steel Surface
For Lightning Protection Conductors

Note that the cable is OFF the surface



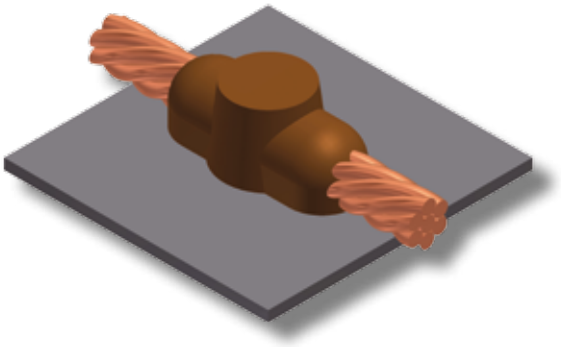
MOLDS FOR LIGHTNING PROTECTION CONDUCTORS					
Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
D	M-5141	4	150	B-106	2
E	M-5142	4	150	B-106	4
F	M-5143	4	150	B-106	2
G	M-2435	4	150	B-106	4
H	M-2436	4	150	B-106	4
J	M-2437	4	200	B-106	4
K	M-2438	4	200	B-106	4
L	M-2439	4	250	B-106	4
Q	M-5137	4	150	B-106	2

CS-9

TYPE MOLDS

Horizontal Thru Cable to Horizontal Steel Surface
For Lightning Protection Conductors

Note that the cable is ON the surface



MOLDS FOR LIGHTNING PROTECTION CONDUCTORS					
Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
A	M-10661	3†	65	Included	4
B	M-10662	3†	65	Included	4
C	M-10663	4	90	B-106	4
D	M-10664	4	150	B-106	4
E	M-10665	4	150	B-106	4
F	M-10666	4	150	B-106	4
G	M-10667	4	150	B-106	4
H	M-10668	4	150	B-106	4
J	M-10669	4	200	B-106	4
K	M-10670	4	200	B-106	4
L	M-10671	4	250	B-106	4
Q	M-10672	4	150	B-106	4

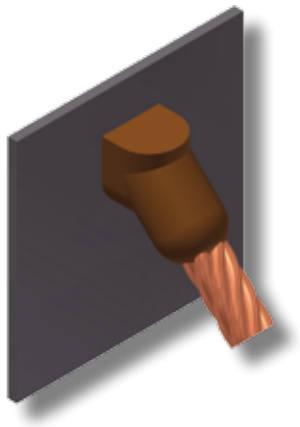
- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (Price Key 3 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for cable code "C" & Larger Molds (CS-8 Molds Only)

CS-3

TYPE MOLDS

Angular Cable Drop to Vertical Steel Surface
For Lightning Protection Conductors

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS					
Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
A	M-5145	4	65	B-106	2
B	M-5150	4	65	B-106	2
C	M-5149	4	90	B-106	2
D	M-5146	4	115	B-106	2
E	M-5147	4	115	B-106	2
F	M-5148	4	115	B-106	2
G	M-2440	4	150	B-106	2
H	M-2441	4	150	B-106	4
J	M-2442	4	150	B-106	4
K	M-2443	4	150	B-106	2
L	M-2444	4	200	B-106	4
Q	M-5138	4	115	B-106	2



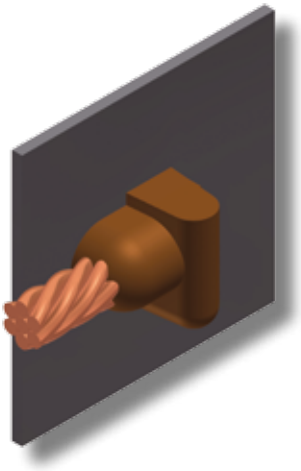
- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for Cart. Size #15-#65 (PK-3 Molds Only)
  40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for cable code "C" & Larger Molds (CS-9 Molds Only)

CS-18

TYPE MOLDS

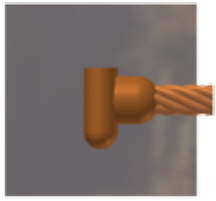
Horizontal Tap Cable to Vertical Steel Surface
For Lightning Protection Conductors

Note that the cable is ON the surface

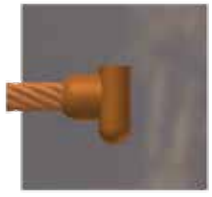


MOLDS FOR LIGHTNING PROTECTION CONDUCTORS					
Cable Code	Mold # †	Price Key	Weld Metal	Handle Clamps	Lead Time
A	M-5054	4	45	B-106	4
B	M-10673	4	65	B-106	4
C	M-5205	4	65	B-106	2
D	M-5202	4	90	B-106	2
E	M-5203	4	115	B-106	4
F	M-5000	4	115	B-106	2
Q	M-11926	4	115	B-106	2

† Add (RH) to mold number for right hand mold or (LH) for left hand mold. Right hand (RH) mold will be furnished if none specified. EXAMPLE: M-5054-LH



Left Hand Mold

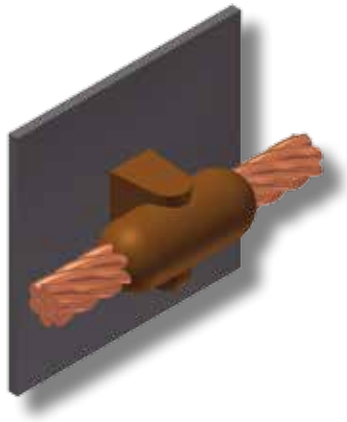


Right Hand Mold

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500 (CS-6 Molds Only)
  40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for cable code "C" & Larger Molds (CS-18 Molds Only)

CS-6
TYPE MOLDS
Horizontal Thru Cable to Vertical Steel Surface
For Lightning Protection Conductors
Note that the cable is OFF the surface

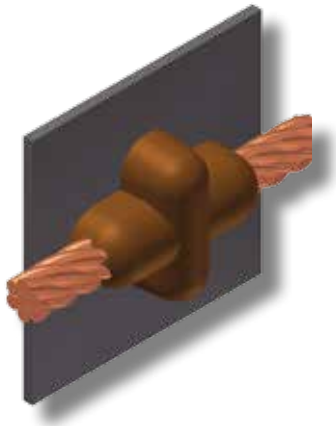
MOLDS FOR LIGHTNING PROTECTION CONDUCTORS					
Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
A	M-5171	4	90	B-106	4
B	M-5176	4	90	B-106	4
C	M-5175	4	115	B-106	2
D	M-5172	4	150	B-106	2
E	M-5173	4	150	B-106	4
F	M-5174	4	150	B-106	2
G	M-2461	4	150	B-106	4
H	M-2462	4	150	B-106	4
J	M-2463	4	200	B-106	4
K	M-2464	4	200	B-106	4
L	M-2465	4	250	B-106	4
Q	M-5179	4	150	B-106	2



- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500 (CS-6 Molds Only)
  40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for cable code "C" & Larger Molds (CS-18 Molds Only)

CS-27
TYPE MOLDS
Horizontal Thru Cable to Vertical Steel Surface
For Lightning Protection Conductors
Note that the cable is ON the surface

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS					
Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
A	M-5162	4	65	B-106	4
B	M-5169	4	90	B-106	4
C	M-5168	4	115	B-106	2
D	M-5163	4	150	B-106	2
E	M-5165	4	150	B-106	4
F	M-5167	4	150	B-106	2
G	M-2856	4	150	B-106	4
H	M-2451	4	150	B-106	4
J	M-2452	4	200	B-106	4
K	M-2453	4	200	B-106	4
L	M-2454	4	250	B-106	4
Q	M-5152	4	150	B-106	2

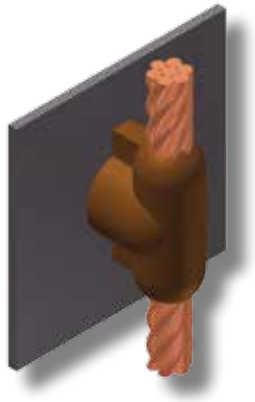


CS-4

TYPE MOLDS

Vertical Thru Cable to Vertical Steel Surface
For Lightning Protection Conductors

Note that the cable is OFF the surface



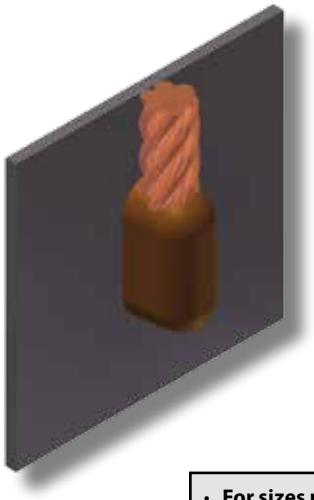
MOLDS FOR LIGHTNING PROTECTION CONDUCTORS					
Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
A	M-5153	4	90	B-106	4
B	M-5160	4	115	B-106	4
C	M-5159	17	200	B-106	2
D	M-5154	17	250	B-106	2
E	M-5156	17	2-150	B-106	2
F	M-5158	17	2-150	B-106	2
G	M-2445	17	2-150	B-106	4
H	M-2446	17	2-150	B-106	4
J	M-2447	6	2-200	B-106	4
K	M-2448	6	2-200	B-106	2
L	M-2449	6	500	B-106	4
Q	M-5144	17	250	B-106	2

CS-7

TYPE MOLDS

Overhead Vertical Tap Cable to Vertical Steel Surface
For Lightning Protection Conductors

Note that the cable is ON the surface



MOLDS FOR LIGHTNING PROTECTION CONDUCTORS					
Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
A	M-5180	4	90	B-106	4
B	M-5200	4	90	B-106	4
C	M-5185	4	115	B-106	2
D	M-5181	17	150	B-106	2
E	M-5182	17	150	B-106	4
F	M-5184	17	150	B-106	2
G	M-2466	17	150	B-106	4
H	M-2467	17	150	B-106	4
J	M-2468	17	200	B-106	4
K	M-2469	17	200	B-106	4
L	M-2470	17	250	B-106	4
Q	M-5161	17	150	B-106	2

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp

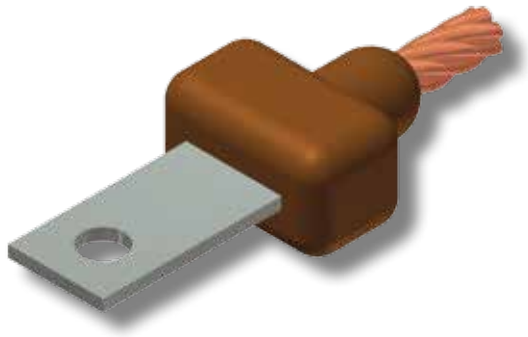
CB-1

TYPE MOLDS

Horizontal Cable Tap to Horizontal Lug or Bus
For Lightning Protection Conductors

See pages 159-160 for Lug part numbers.

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS						
Cable Size	Lug Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
A	1/8″ X 1″	M-2471	4	65	B-106	2
B		M-2472	4	65	B-106	4
C		M-2473	4	90	B-106	2
D		M-2474	4	90	B-106	2
E		M-2475	4	90	B-106	2
F		M-2521	4	90	B-106	4
G		M-5008	4	90	B-106	2
H		M-5009	4	90	B-106	4
J	3/16″ X 1″	M-2201	4	115	B-106	4
K		M-5030	4	115	B-106	2
Q		M-11928	4	90	B-106	2
J	1/4″ X 1″	M-5029	4	115	B-106	4
K		M-5031	4	150	B-106	2
L		M-5034	4	150	B-106	4
Q		M-11927	4	90	B-106	2



- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections , contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush

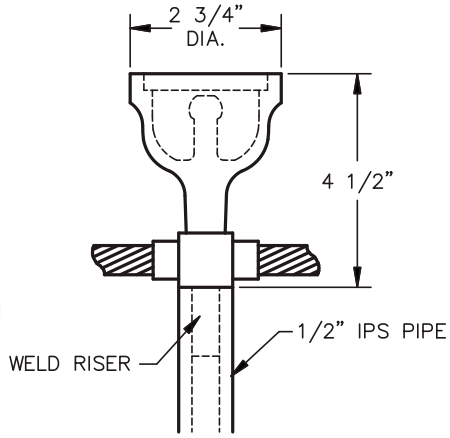
AC-1 / AC-2

TYPE MOLDS

Horizontal Cable to Aircraft Grounding Receptacle

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. See page 126 for Aircraft Grounding Receptacle part numbers.







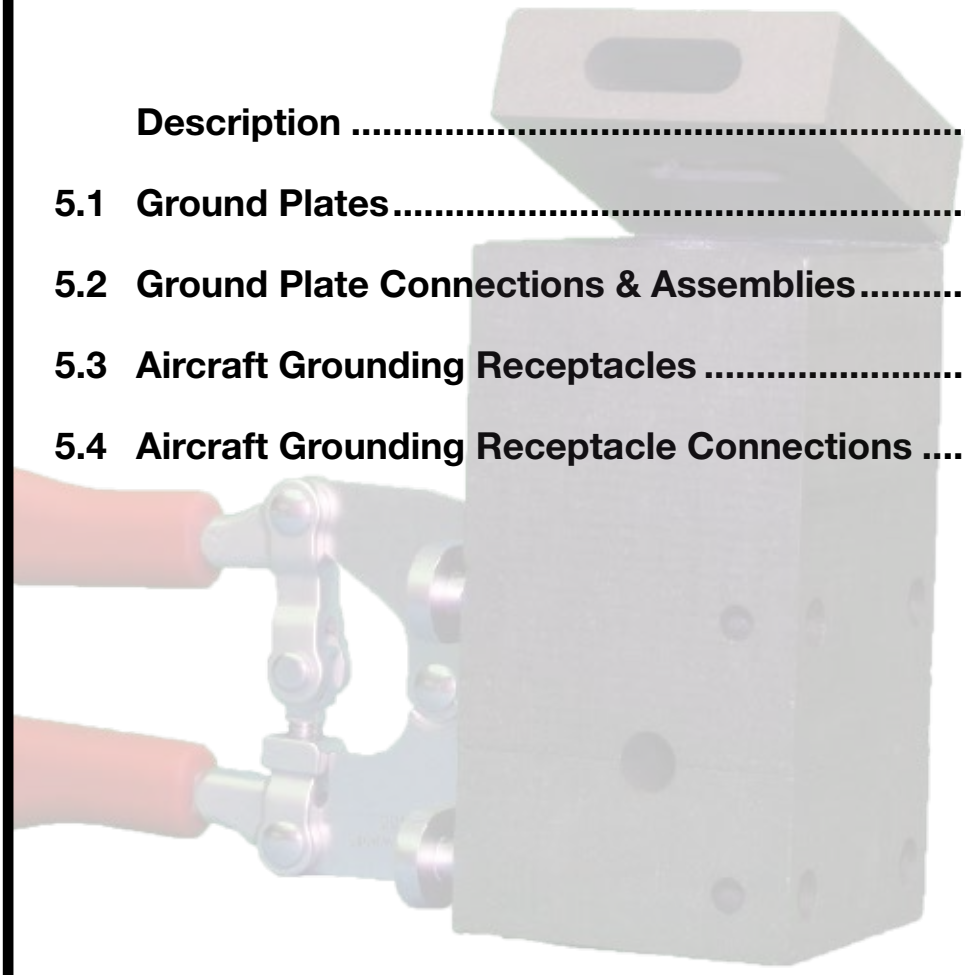
AC-1 **AC-2**

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS										
AC-1					CABLE CODE	AC-2				
MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME		MOLD #	PRICE KEY	WELD METAL	HANDLE CLAMPS	LEAD TIME
M-10674	4	115	B-106	4	A	M-10686	4	115	B-106	4
M-10675	4	115	B-106	4	B	M-10687	4	115	B-106	4
M-10676	4	150	B-106	4	C	M-10688	4	150	B-106	4
M-10677	4	150	B-106	4	D	M-10689	4	200	B-106	4
M-10678	4	150	B-106	4	E	M-10690	4	200	B-106	4
M-10679	4	150	B-106	4	F	M-10691	4	200	B-106	4
M-10680	4	150	B-106	4	G	M-10692	4	200	B-106	4
M-10681	4	150	B-106	4	H	M-10693	4	200	B-106	4
M-10682	4	200	B-106	4	J	M-10694	4	250	B-106	4
M-10683	4	250	B-106	4	K	M-10695	4	2-150	B-106	4
M-10684	4	250	B-106	4	L	M-10696	4	2-150	B-106	4
M-10685	4	150	B-106	4	Q	M-10697	4	200	B-106	4

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush

Section 5

Ground Plates
&
Aircraft Grounding Receptacles



Description ..... Page #

5.1 Ground Plates 123-124

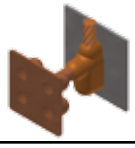
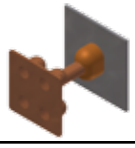
5.2 Ground Plate Connections & Assemblies 125

5.3 Aircraft Grounding Receptacles 126

5.4 Aircraft Grounding Receptacle Connections 126-127

GROUND PLATES & AIRCRAFT GROUNDING RECEPTACLES

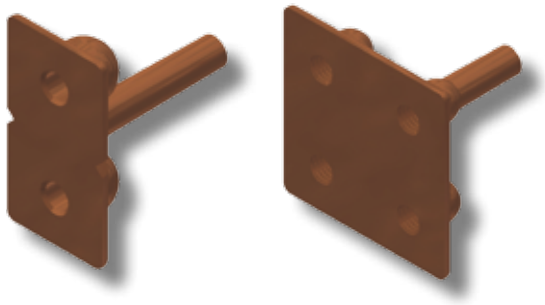
Weld Type		Page #
	AC-1	127
	AC-2	127
	ACR-1	128
	ACR-2	128
	Aircraft Grd Recpt	126
	Aircraft Grd Eyelet	126
	AR-1	128
	CR-27	125

Weld Type		Page #
	CR-30	125
	CR-31	125
	CR-32	125
	CRS-1	124
	CRS-2	124
	Grd Plates	123
	RS-3	124

GROUND PLATES

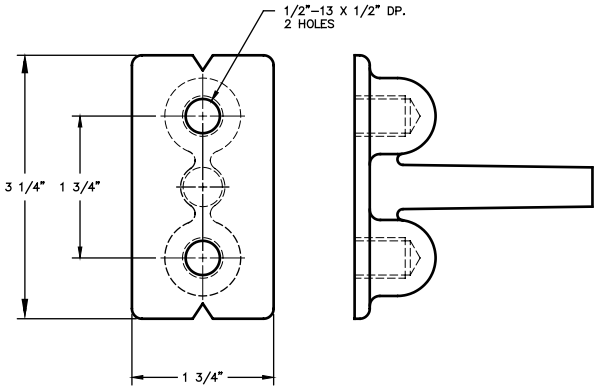
GROUND PLATES

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.



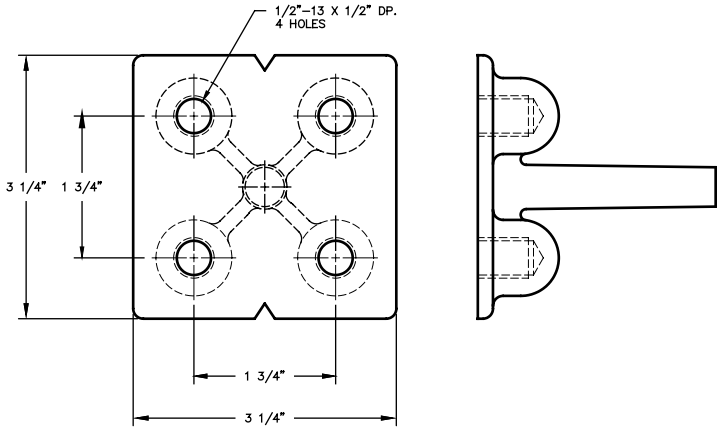
Part #	Stud Size
38-2999-00	4/0

NEMA Spaced Holes

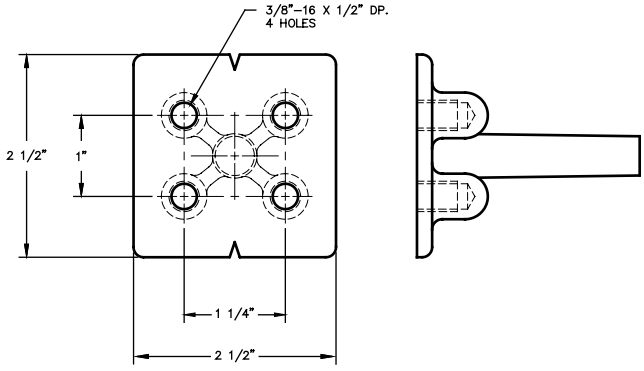


Part #	Stud Size
38-4051-00	4/0
38-4178-00	500 Kcmil

NEMA Spaced Holes



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.

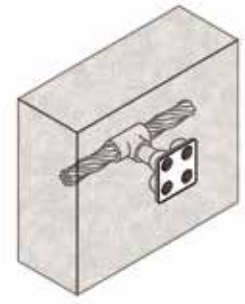
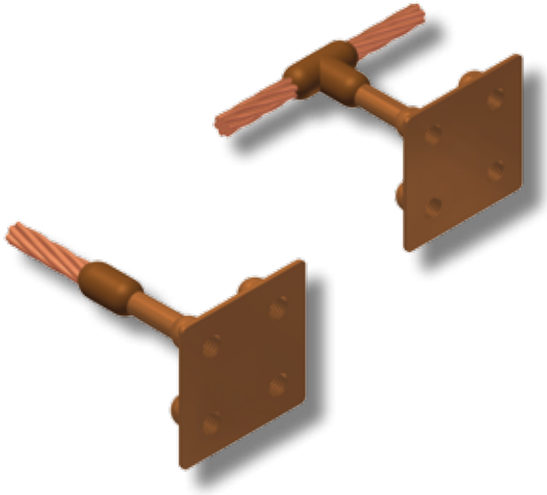
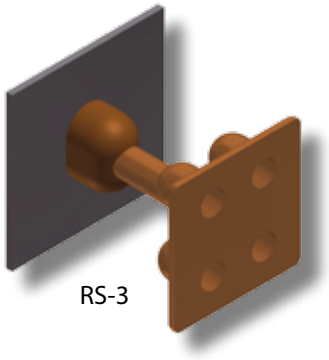
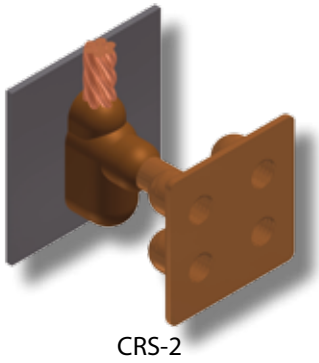


Illustration at left shows a ground plate installed in a concrete wall.

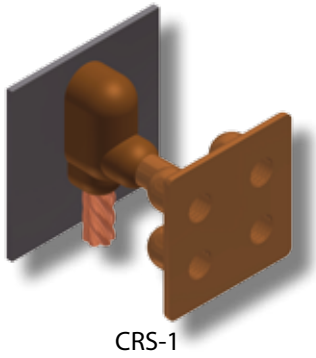




RS-3



CRS-2



CRS-1

MOLDS FOR AWG CONDUCTORS					
Ground Plate Part #	RS-3 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

* To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.

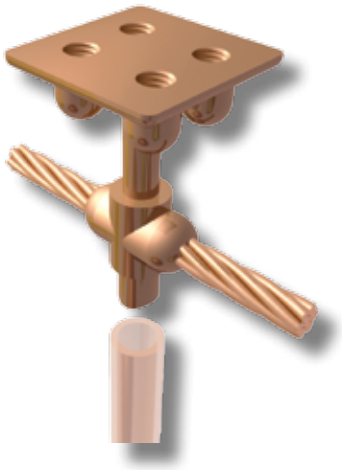
NOTE:
For structural purposes, weld types RS-3, CRS-1 and CRS-2 should only be used when the ground plate is to be encased in concrete.

MOLDS FOR AWG CONDUCTORS										
CRS-1† Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Cable Size	CRS-2† 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	2	2/0	M-6102	17	200	B-106	4
M-6095	17	250	B-106	2	3/0	M-6103	17	250	B-106	4
M-6096	17	250	B-106	2	4/0	M-6104	17	250	B-106	2
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	2
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.

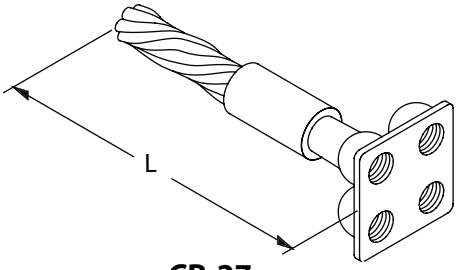
* To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.

GROUND PLATES



GROUND PLATE ASSEMBLY

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.

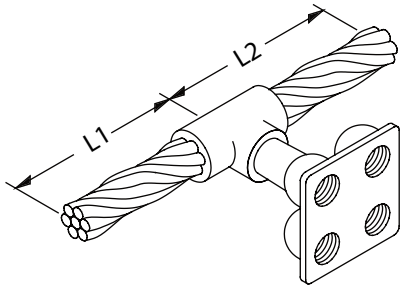


CR-27

Ground Plate	Type CR-27 Assy.
38-2864-00	38-4529-†‡
38-2999-00	38-4531-†‡
38-4051-00	38-4532-†‡
38-4178-00	38-4533-†‡

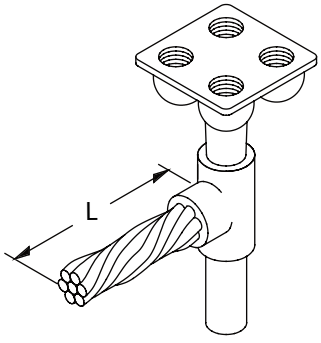
For the complete part number replace with corresponding number for cable size and corresponding letter for cable length. Contact thermOweld® for cable sizes and lengths not shown.

Example: 38-4524-5C would be a CR-32 type with a 38-2864-00 ground plate and a 4/0 str pigtail, 18" (L1) + 18" (L2) long for a total length of 36".



CR-30

Ground Plate	Type CR-30 Assy.
38-2864-00	38-4534-†‡
38-2999-00	38-4536-†‡
38-4051-00	38-4537-†‡
38-4178-00	38-4538-†‡

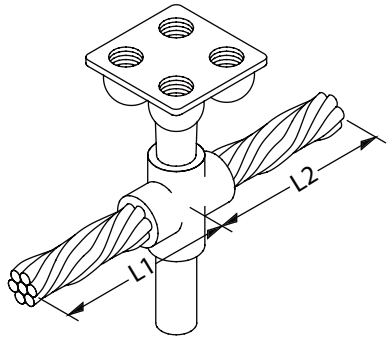


CR-31

Ground Plate	Type CR-31 Assy.
38-2864-00	38-4519-†‡
38-2999-00	38-4521-†‡
38-4051-00	38-4522-†‡
38-4178-00	38-4523-†‡

† = 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

‡ = LENGTH IN INCHES	
A = 6"	D = 24"
B = 12"	E = 36"
C = 18"	F = 48"
G = 10"	H = 96"
J = 60"	K = 72"
L = 144"	M = 30"
N = 120"	P = 240"
	R = 180"



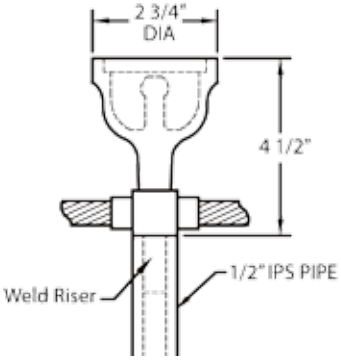
CR-32

Ground Plate	Type CR-32 Assy.
38-2864-00	38-4524-†‡
38-2999-00	38-4526-†‡
38-4051-00	38-4527-†‡
38-4178-00	38-4528-†‡

AIRCRAFT GROUNDING RECEPTACLE

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 studs available, part #38-0119-13.







Aircraft Grounding Eyelet

Cast bronze grounding eyelet designed with threads to screw onto sectional ground rods. Eyelet provides a static discharge tie down point for aircraft. Can withstand 9000 lbs. of pulling force. UL Listed.

Aircraft Eyelet Grounding	
Catalog Number	**Description**
38-7702-00	Bronze Eyelet with 1/2" Internal Threads
38-7702-01	Bronze Eyelet with 5/8" Internal Threads
38-7702-02	Bronze Eyelet with 3/4" Internal Threads



AIRCRAFT GROUNDING RECEPTACLE

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.

MOLDS FOR AWG 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	2
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	2
M-6335	4	150	B-106	2	2/0	M-6342	4	150	B-106	2
M-6336	4	150	B-106	2	3/0	M-6343	4	200	B-106	2
M-6337	4	150	B-106	2	4/0	M-6344	4	200	B-106	2



AC-2



AC-1

- **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 connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush

AIRCRAFT GROUNDING RECEPTACLE

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.



ACR-1



ACR-2



AR-1

MOLDS FOR AWG CONDUCTORS

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	2
	3/0	M-6307	8	2-200	B-107	2
	4/0	M-6309	8	2-200	B-107	4
3/4″	1/0	M-6310	8	2-200	B-107	2
	2/0	M-6311	8	2-200	B-107	2
	3/0	M-6312	8	2-200	B-107	2
	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	2
	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	2
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	2
	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

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

- **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 connections, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles), 38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

Section 6

Weld Metal, Tools & Accessories

	Description	Page #
6.1	Ignition Systems	130-131
6.2	Weld Metal	132
6.3	Tools & Accessories	133-134
6.4	Adapter Sleeves & Shim Stock	135
6.5	Wear Plates	135
6.6	Handle Clamps & Chain Clamps	136-138

FLINT IGNITOR 38-0309-00

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.



FLINT IGNITOR EXTENSION 38-0904-00

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



ELECTRONIC FLINT TRIGGER 38-8253-00

thermOweld's new Electronic Flint Trigger is designed to ignite the starting powder by generating time delayed sparks of 5, 10 or 15 seconds, igniting the starting powder on top on the mold. The Trigger mount to the side of the any size mold with a magnet.



EZ Lite Remote® Electric Ignition System

Mission Critical jobs require the versatility of thermOweld's EZ Lite Remote® System so you can finish without delays. Our remote system is the only system that gives you 2 ignition options so you can finish your job on time.

- Use your Flint Ignitor or the EZ Lite Remote® and never be stuck out on the job!
- Have 100% confidence that you will get your connections done when you want!
- Reliable ignitor - 100% guaranteed to ignite
- Use with existing thermOweld® EZ Lite® Mold and Weld Metal
- Uses 4 Alkaline "D" size batteries (we recommend a high quality brand battery such as Duracell® or Energizer®).

EZ Lite Remote® Electric Ignition Catalog #'s		Lead Time
Catalog #	Description	
38-EZLT-RU	EZ Lite Remote® Unit, ready to use with batteries installed at the factory	SDS
38-EZLT-15	EZ Lite Remote® Unit with 15 ft lead, ready to use with batteries installed at the factory	3
38-EZLT-IG	(10) 38-EZLT-IG EZ Lite Remote® Ignitors for use with existing thermOweld® EZ Lite® Molds and weld metal on your shelf, in your truck or at the job site.	SDS
38-EZLT-SK	Starter Kit complete with; (1) 38-EZLT-RU EZ Lite Remote® Unit, ready to use with batteries installed at the factory (20) 38-EZLT-IG EZ Lite Remote® Ignitors for use with existing thermOweld® EZ Lite® Molds and weld metal on your shelf, in your truck or at the job site	SDS
38-EZLT-SS	EZ-Lite Remote adapter for Single Shot Molds	SDS
38-EZLT-CA	6 ft. Replacement lead	3
38-EZLT-CX	15 ft. Replacement lead	3
38-EZLT-CY	20 ft. Replacement lead	3
38-EZLT-CW	Cold Weather Kit	2

Pre-packaged Weld Metal with Ignitors		
Standard	Cast Iron	Packed per box
TW15EZ	—	20
TW25EZ	TW25CIEZ	20
TW32EZ	TW32CIEZ	10
TW45EZ	TW45CIEZ	20
TW65EZ	TW65CIEZ	20
TW90EZ	TW90CIEZ	10
TW115EZ	TW115CIEZ	10
TW150EZ	—	10
TW200EZ	—	10
TW250EZ	—	10
TW500EZ	—	10
thermOweld® Weld Metal is sold in box quantities only		



12 CM
(Weld Metal)

QR Code to YouTube EZ Lite Remote® video

EZ Lite Remote® Cold Weather Kit Instructions

When using thermOweld®'s EZ Lite Remote® in temperatures below 32° F (freezing) we recommend using our Cold Weather Kit 38-EZLT-CW. The Kit includes 4 adapters and 12 AA Batteries (we recommend a high quality brand battery such as Duracell® or Energizer®).



WELD METAL

thermOweld ® weld metal is the most reliable and consistently-performing weld metal available worldwide. Our continuous-improvement manufacturing process is supplemented with multiple quality validation steps for every lot we produce. Upon final acceptance, our weld metal is specially packaged in moisture-resistant plastic cartridges with special closure caps. Then the cartridges and required metal discs are packaged in moisture-resistant boxes with unique manufacturing lot codes. These lot codes are a thermOweld® innovation, providing complete traceability from raw material origination, through our multiple processing stages to shipment. Finally, thermOweld® applies special shrink-wrap plastic to every weld metal box, insuring reliable storage, positive field ignition and superior welds every time.

Every individual weld metal cartridge is marked with the size and weight in grams for easy identification, even when separated from the host box. thermOweld® weld metal is shipped worldwide to more than 50 countries via ground, air and ocean freight. All sizes of weld metal are available immediately with thermOweld's Same Day Service (SDS) shipment program.

Our engineers have formulated and created various weld metal types for application-specific use, including our standard formulations:

1) copper-to-copper, copper-to-steel and copper-to-copper-clad steel
2) copper-to-ductile (cast) iron



Standard Cartridge Size	Low Emission Cartridge* Size	Cast Iron Cartridge Size	Packed Per Box
#15	LE#15	—	20
#25	LE#25	#25CI	20
#32	LE#32	#32CI	10
#45	LE#45	#45CI	20
#65	LE#65	#65CI	20
#90	LE#90	#90CI	10
#115	LE#115	#115CI	10
#150	LE#150	—	10
#200	LE#200	—	10
#250	LE#250	—	10
—	LE#300	—	4*
—	LE#400	—	4*
#500	LE#500	—	10
thermOweld® Weld Metal is sold in box quantities only			

*Low Emission Weld Metal cartons contain four (4) cartridges; four (4) ignitors; gasket(s), and one (1) filter. **

Weld Metal Discs

Weld Metal Discs are used to hold the weld metal in place until the reaction occurs. One disc per weld is required. Discs are included with the weld metal.

Part #37-0320-01 ¾" Dia. Disc (For use w/ #15 thru #65 Weld Metal Cartridges) 20 pack
Part #37-0320-02 1" Dia. Disc (For use w/ #90 thru #115 Weld Metal Cartridges) 10 pack
Part #37-0320-03 1 ½" Dia. Disc (For use w/ #150 thru #500 Weld Metal Cartridges) 10 pack
Part #37-6127-00 Disc Kit (Kit consists of a tube with 25 each of the above discs)



ACCESSORIES

TOOL KIT

38-0302-00 ~ Tool Kit with Tools
(includes the following items)
- 38-0304-00 ~ 8" File
- 38-0307-00 ~ Crimping Tool
- 38-3922-00 ~ Mold Cleaning Brush
- 38-0308-00 ~ Screwdriver
- 38-0306-00 ~ Card Cloth Brush
- 38-0305-00 ~ Wire Cleaning Brush

38-0302-02 ~ Tool Kit with Tools listed above plus
- 38-0101-00 ~ Rasp
- 38-4129-00 ~ 1 lb. Packing Material

38-0303-00 ~ Tool Box Only



Items included in tool kit 38-0302-00



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.



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.

Part #38-4129-00 for 1 lb package
Part #38-4129-05 for 5 lb package

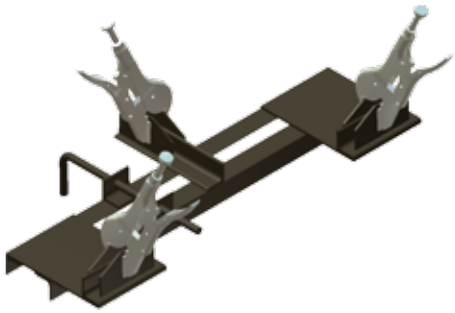
Note: This packing material to be used on outside of mold only. If packing gets into weld cavity, gassy welds will result.



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.

Catalog #	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.

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



38-0135-00



38-0306-00



38-3922-00



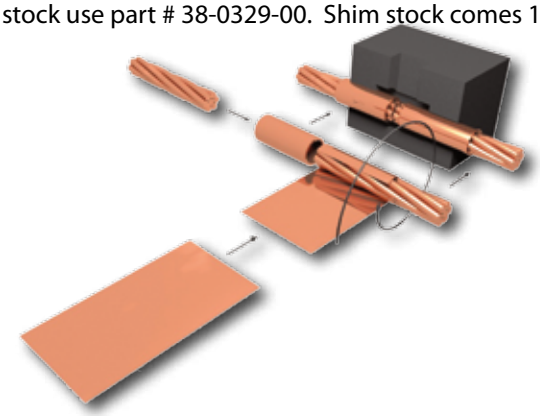
MOLD CLEANERS

Mold Cleaners are used to clean the slag from molds that are not split through the crucible.
40-0319-01.....for cartridge sizes #15 thru #65
40-0319-03.....for cartridge sizes #90 thru #500

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		Catalog #	Use In Mold Size	Sleeve Dimensions		
Stranded	Solid			O.D.	I.D.	Length
#12, #14	#10, #12, #14	38-0200-00	#6 STR & Sol	.156	.111	1.00
#9, #10	#8, #9, #10	38-0208-00	#4 Sol	.203	.140	1.00
2.5, 6 mm^2	2.5 mm	38-4590-00	16 mm^2	.203	.140	1.00
10 mm^2	4 mm	38-4588-00	25 mm^2	.250	.200	1.00
#7, #8, #10	#6, #8	38-0201-00	#4	.227	.177	1.00
#6	#5	38-0202-00	#2	.292	.198	1.00
#4, #5	#3, #4	38-0207-00	#2	.287	.246	1.00
16 mm^2		38-4589-00	32 mm^2	.303	.209	1.00
#4	#2	38-0204-00	#1	.328	.265	1.00
#2	#1	38-0203-00	1/0	.370	.307	1.00
#1	1/0	38-0209-00	2/0	.420	.359	1.00
1/0, #1	2/0	38-0205-00	3/0 & 4/0 Sol	.452	.389	1.00
2/0, 1/0	3/0	38-0240-00	4/0	.524	.437	1.50

WEAR PLATES

WEAR PLATES

The average life of a mold is 50 plus welds depending on the care and treatment it receives. The maximum wear on a mold takes place at the mold openings due to forcing the mold shut over "out-of-round" conductors, hitting and then chipping openings with ends of conductors, etc. To increase the mold life, "Wear Plates" can be factory installed around the mold openings. They can be supplied for all molds for cable sizes; 1/0 AWG through 500 MCM and Copper-Clad Steel cable 7/#10 through 19/#6. To order, simply add the suffix "-W" to the mold catalog number such as M-241-W.



Weld Type	No. Wear Plates Req'd	Weld Type	No. Wear Plates Req'd	Weld Type	No. Wear Plates Req'd	Weld Type	No. Wear Plates Req'd
AC-1	1	CS-1	1	CC-1	2	CR-1	1
AC-2	2	CS-2	2	CC-2	3	CR-2	2
ACR-1	1	CS-3	1	CC-6†	3	CR-3	2
ACR-2	2	CS-4	1	CC-7†	4	CRE-3	2
CB-1	1	CS-6	2	CC-11	4	CRE-4	2
CB-5	2	CB-33	1				

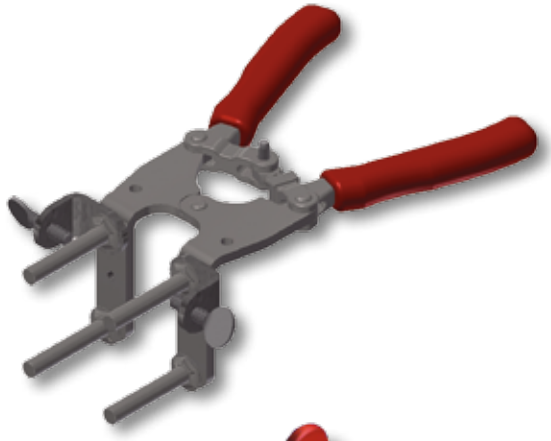
† Wear plates only available on 1/0 Str or 7/#10 and larger cable.

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 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 3, 10, 12, 14, 15, 16 or 33 have an attached frame; separate handles are not required.



PK-3 MAGNETIC CLAMP

The PK-3 integral magnetic clamp is adaptable to all thermOweld® price key 3 molds. A strong, 48 lb. magnet holds the mold in place and prevents leakage. Works on both cast iron and steel and can be used to weld to both pipe as well as flat surfaces. Designed for remote welding, using our thermOweld® EZ Lite Remote® ignition system. See page 232 for more information.

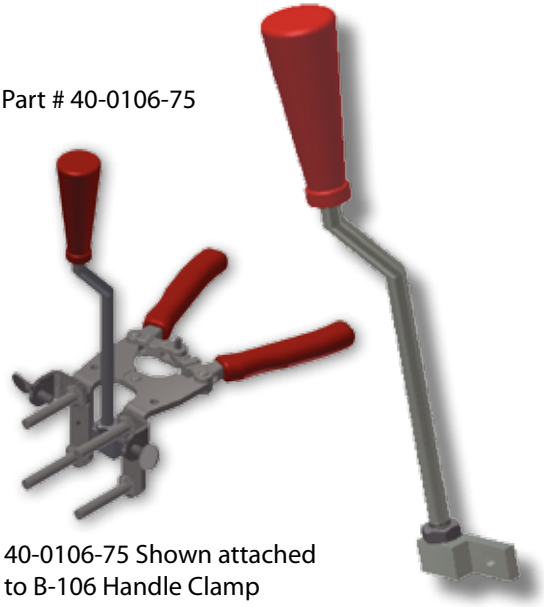
Part # 40-7202-00
SHOWN WITH HANDLE



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

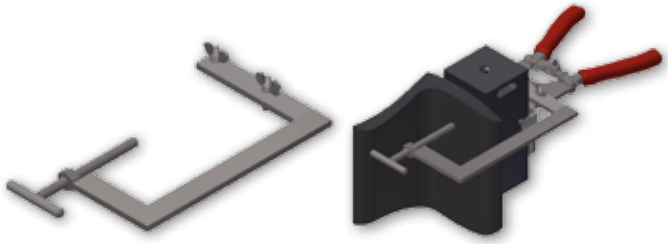


40-0106-75 Shown attached to B-106 Handle Clamp

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

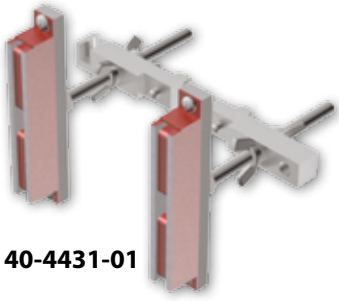


40-3657-00 Shown in use with the B-106 Handle Clamp.

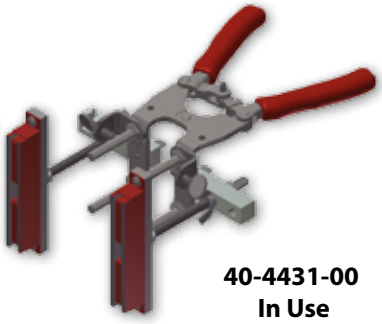
HANDLE CLAMPS

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.



40-4431-01



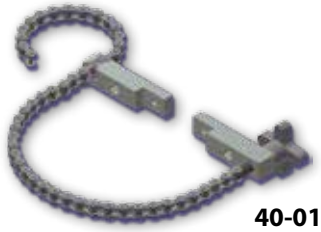
40-4431-00 In Use

Vertical Magnetic Handle Clamps (Complete with B-106 Handle Clamp)		
Catalog #	**Fits Molds w/ Price Key**	**For Use With Weld Types**
40-4431-00	4 & 17	CS-3, 4, 7 & 23
Vertical Magnetic Clamp Only (Handle Clamp Not Included)		
Catalog #	**Fits Handle Clamp**	**For Use With Weld Types**
40-4431-01	B-106/B-107	CS-3, 4, 7 & 23

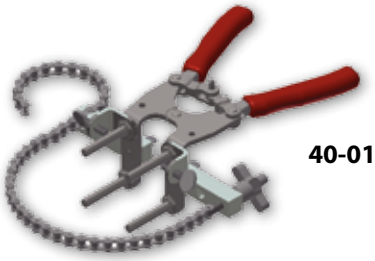
HORIZONTAL & VERTICAL CHAIN CLAMPS

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 attach to your existing thermOweld® Handle Clamps. 20" Chain Extension part #40-0106-27.

Chain Clamps (Complete wit Handle Clamps)			
Catalog #	**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)			
Catalog #	**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



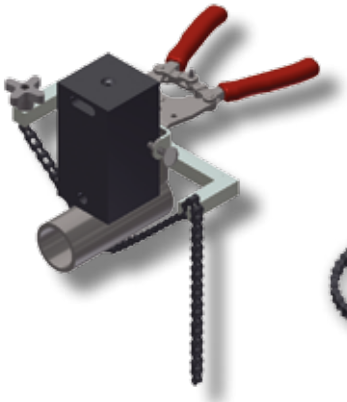
40-0106-76



40-0106-32



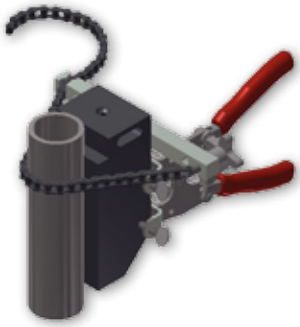
40-0106-78



40-0106-37 In Use



40-0106-77

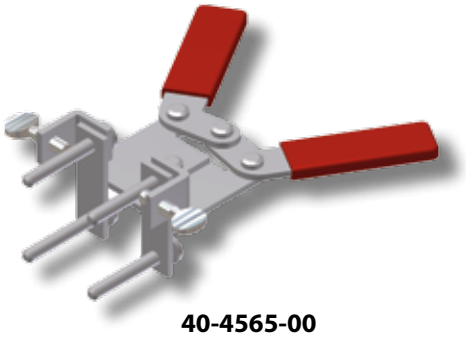


40-0106-41 In Use

MINI HANDLE CLAMPS

MINI HANDLE CLAMPS

thermOweld® Mini Handle Clamps are used PK-18, 19 and 20 Molds.



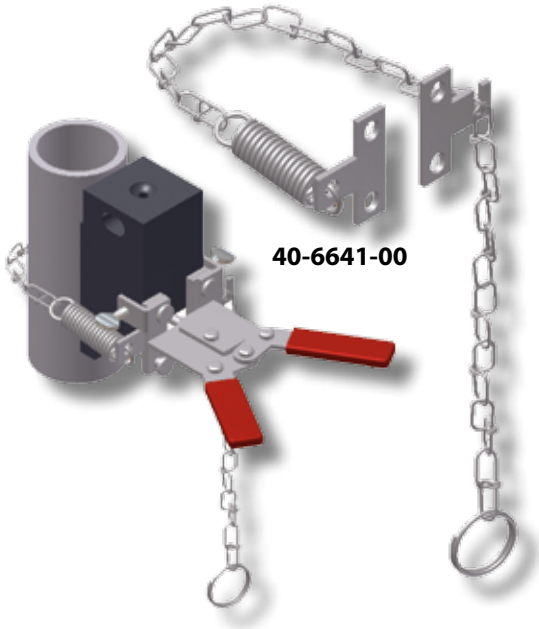
40-4565-00

Mini Handle Clamps	
Catalog #	**Fits Molds w/ Price Key**
40-4565-00	18, 19, 20

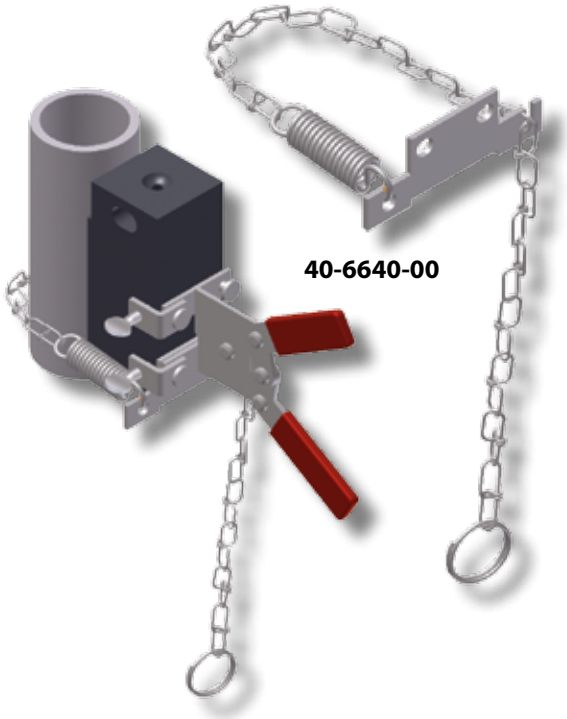
HORIZONTAL & VERTICAL CHAIN CLAMPS

thermOweld® Chain Clamps for use with the Mini Handle Clamps are used to hold a mold in position on horizontal or vertical pipe up to 4" in diameter. The mounting assembly easily attaches to your existing thermOweld® Mini Handle Clamps.

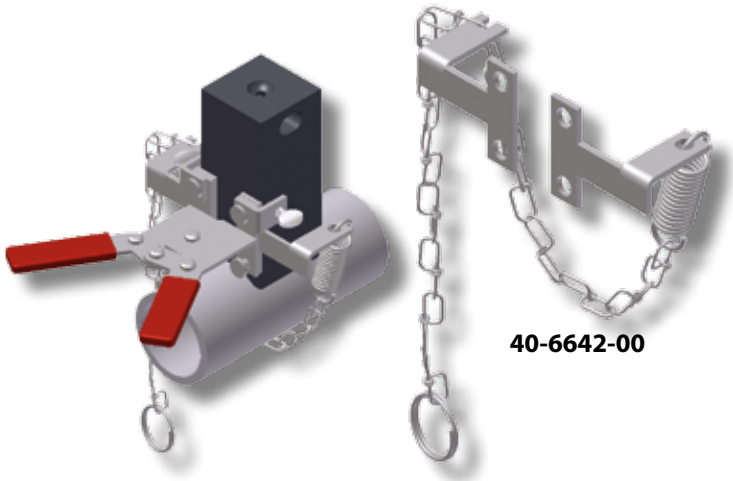
Chain Clamps Only (Handle Clamps Not Included)			
Catalog #	**Fits Molds w/ Price Key**	**For Use With Weld Types**	**Pipe Position**
40-6641-00	18, 19 & 20	CS-3, 4, 7, 23, 36, 37 & CRE-6	Vertical
40-6640-00	18, 19 & 20	CS-6, 18, 27 & CRE-3	Vertical
40-6642-00	18, 19 & 20	CS-1, 2, 5, 8, 9 & CRE-4	Horizontal



40-6641-00



40-6640-00



40-6642-00

Section 7
UL Lightning Protection Products

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For Lightning Protection Molds see Section 4

UL LISTED LIGHTNING PROTECTION CONDUCTORS

UL Listed Conductors

Catalog #	MATERIAL	AWG	STRAND CONFIGURATION	NO. OF STRANDS	STRAND DIAMETER	TIN PLATED	LBS PER 1000 FT	CIRCULAR MILLS	CABLE CODES
36-7562-00	Copper	LP Class I	Smooth Weave	29	.046″	NO	189	61,350	C
36-7562-01	Copper	LP Class I	Smooth Weave	29	.046″	YES	189	61,350	C
36-7562-02	Copper	LP Class I	Smooth Weave	30	.046″	NO	191	63,450	C
36-7573-00	Aluminum	LP Class I	Smooth Weave	24	.065"	NO	98	98,640	N/A
36-7562-03	Copper	#2	Smooth Weave	32	.046″	NO	206	67,700	C
36-7562-04	Copper	#2	Smooth Weave	32	.046″	YES	206	67,700	C
36-7562-06	Copper	1/0	Smooth Weave	24	.067″	NO	340	105,600	D
36-7562-07	Copper	1/0	Smooth Weave	24	.067″	YES	340	105,600	D
36-7573-02	Aluminum	1/0	Smooth Weave	26	.065"	NO	103	109,850	N/A
36-7573-01	Aluminum	1/0	Smooth Weave	28	.065"	NO	109	118,300	N/A
36-7561-08	Copper	1/0	Concentric	19	.075″	NO	325	106,850	D
36-7557-00	Copper	LP Class II	Rope Lay	28	.067″	NO	380	125,600	D
36-7557-01	Copper	LP Class II	Rope Lay	28	.067″	YES	380	125,600	D
36-7557-02	Copper	2/0	Rope Lay	30	.067″	NO	420	134,600	F
36-7557-03	Copper	2/0	Rope Lay	30	.067″	YES	420	134,600	F
36-7561-00	Copper	2/0	Concentric	19	.0837″	NO	410	133,100	C
36-7561-01	Copper	2/0	Concentric	19	.0837″	YES	410	133,100	C
36-7573-03	Aluminum	2/0	Smooth Weave	32	.065"	NO	124	135,200	N/A
36-7561-02	Copper	3/0	Concentric	19	.094″	NO	518	167,800	F
36-7561-03	Copper	3/0	Concentric	19	.094″	YES	518	167,800	F
36-7561-04	Copper	4/0	Concentric	19	.1057″	NO	653	211,600	Q
36-7561-05	Copper	4/0	Concentric	19	.1057″	YES	653	211,600	Q
36-7561-06	Copper	4/0	Concentric	37	.0757″	NO	653	211,600	Q
36-7561-07	Copper	4/0	Concentric	37	.0757″	YES	653	211,600	Q
36-7559-00	Aluminum	4/0	Concentric	19	.1057"	NO	204	211,700	N/A



Smooth Weave



Rope Lay



Concentric



Smooth Weave Aluminum

c UL us
LISTED
6GA3
Lightning
Conductor

UL LISTED LIGHTNING PROTECTION CONDUCTORS

UL Listed Secondary Conductors

Catalog #	MATERIAL	AWG	STRAND CONFIGURATION	NO. OF STRANDS	STRAND DIAMETER	TIN PLATED	LBS PER 1000 FT	CIRCULAR MILLS	CABLE CODE
36-7563-00	Copper	#6	Smooth Weave	14	.046″	NO	92	29,600	A
36-7563-01	Copper	#6	Smooth Weave	14	.046″	YES	92	29,600	A
36-7563-02	Copper	#4	Smooth Weave	10	.067″	NO	130	44,800	B
36-7563-03	Copper	#4	Smooth Weave	10	.067″	YES	130	44,800	B
36-7573-04	Aluminum	#2	Smooth Weave	16	.065"	NO	62	67,600	N/A
36-7558-01	Copper	#6	Solid	1	.162″	NO	80	26,240	N/A
36-7558-00	Copper	#6	Solid	1	.162″	YES	80	26,240	N/A
36-7558-02	Copper	#4	Solid	1	.2044″	NO	127	41,740	N/A
36-7558-03	Copper	#4	Solid	1	.2044″	YES	127	41,740	N/A
36-7560-00	Aluminum	#4	Solid	1	.2044"	NO	40	41,740	N/A
36-7558-04	Copper	#2	Solid	1	.2577″	NO	204	66,360	N/A
36-7558-05	Copper	#2	Solid	1	.2577″	YES	204	66,360	N/A
36-7560-01	Aluminum	#2	Solid	1	.2577"	NO	60	66,360	B
36-7559-01	Aluminum	#4	Concentric	10	.065"	NO	41	42,200	N/A

c UL us LISTED
6GA3 Lightning Conductor



Solid Copper



Smooth Weave



Solid Aluminum

UL Listed Aluminum Steel Reinforced Conductors for Catenary LP Systems

Catalog #	MATERIAL	AWG	STRAND CONFIGURATION	NO. OF STRANDS	STRAND DIAMETER	TIN PLATED	LBS PER 1000 FT	CIRCULAR MILLS	CABLE CODE
36-8193-01	Aluminum Steel Reinforced	1/0	Concentric	7	.1327	NO	145	105,656	A
36-8193-03	High Strength Aluminum Steel Reinforced	Class II	Concentric	19	.1327	NO	527	211,311	A



UL LISTED AIR TERMINALS

UL Listed Air Terminals

UL Listed Air Terminals are made of solid aluminum, copper, nickel plated, stainless steel, lead dipped or tinned* rod. They can be ordered with a standard 2" taper or safety tipped. *Tinned rod only available up to 24" lengths.





Catalog #	Product Description	Diameter (in)	Length (in)	Material
38-7237-00	2" Tapered Tip Air Terminal	1/2"	12"	Aluminum
38-7237-05		1/2"	15"	Aluminum
38-7237-04		1/2"	18"	Aluminum
38-7237-01		1/2"	24"	Aluminum
38-7237-10		1/2"	48"	Aluminum
38-7237-11		1/2"	60"	Aluminum
38-7613-03		5/8"	12"	Aluminum
38-7613-00		5/8"	15"	Aluminum
38-7613-12		5/8"	18"	Aluminum
38-7613-02		5/8"	24"	Aluminum
38-7613-08		5/8"	48"	Aluminum
38-7613-10		5/8"	60"	Aluminum
38-7321-01		1/2"	12"	Copper
38-7321-13		1/2"	15"	Copper
38-7321-10		1/2"	18"	Copper
38-7321-00		1/2"	24"	Copper
38-7321-03		1/2"	48"	Copper
38-7321-11		1/2"	60"	Copper
38-7425-23		5/8"	12"	Copper
38-7425-18		5/8"	15"	Copper
38-7425-20		5/8"	18"	Copper
38-7425-13		5/8"	24"	Copper
38-7425-24		5/8"	48"	Copper
38-7425-05		5/8"	60"	Copper

Catalog #	Product Description	Diameter (in)	Length (in)	Material
38-7237-09	Safety Tipped Air Terminal	1/2"	12"	Aluminum
38-7237-08		1/2"	15"	Aluminum
38-7237-02		1/2"	18"	Aluminum
38-7237-07		1/2"	24"	Aluminum
38-7237-03		1/2"	48"	Aluminum
38-7237-12		1/2"	60"	Aluminum
38-7613-04		5/8"	12"	Aluminum
38-7613-05		5/8"	15"	Aluminum
38-7613-06		5/8"	18"	Aluminum
38-7613-07		5/8"	24"	Aluminum
38-7613-09		5/8"	48"	Aluminum
38-7613-11		5/8"	60"	Aluminum
38-7347-01		1/2"	12"	Copper
38-7321-14		1/2"	15"	Copper
38-7321-15		1/2"	18"	Copper
38-7347-00		1/2"	24"	Copper
38-7321-16		1/2"	48"	Copper
38-7321-17		1/2"	60"	Copper
38-7425-17		5/8"	12"	Copper
38-7425-19		5/8"	15"	Copper
38-7425-21		5/8"	18"	Copper
38-7425-04		5/8"	24"	Copper
38-7425-16		5/8"	48"	Copper
38-7425-22		5/8"	60"	Copper

Other lengths and materials available, contact thermOweld. 3/8" Copper rod available upon request.

UL LISTED AIR TERMINAL ACCESSORIES

UL Listed Air Terminal Extension Rods

Solid Aluminum, Copper or Stainless Steel rod threaded at each end for use as a main conductor or air terminal extension. Available in lengths up to (12'). Specify length in feet, by replacing the "L" with the length in feet when ordering. UL Listed Example: 38-7594-48 = 1/2" Copper 48" long.

Catalog #	Product Description	Diameter (in)	Material
38-7590-"L"	Extension Rod	1/2"	Aluminum
38-7591-"L"	Extension Rod	5/8"	Aluminum
38-7593-"L"	Extension Rod	3/8"	Copper
38-7594-"L"	Extension Rod	1/2"	Copper
38-7595-"L"	Extension Rod	5/8"	Copper
38-7596-"L"	Extension Rod	3/4"	Copper

"L" = Length of Extension Rod in Feet.



UL Listed Swivels

Cast aluminum or brass swivel action allows air terminals to level on most surfaces. Added jam nut allows swivel to be locked in place. UL Listed.

Catalog #	Product Description	Size	Material
38-7751-01	Swivel	1/2" female to 1/2" male	Aluminum
38-7751-00	Swivel	1/2" female to 5/8" male	Aluminum
38-7751-02	Swivel	1/2" male to 5/8" female	Aluminum
38-7751-03	Swivel	5/8" female to 5/8" male	Aluminum
38-7752-00	Swivel	3/8" female to 3/8" male	Brass
38-7752-01	Swivel	3/8" female to 1/2" male	Brass
38-7752-02	Swivel	3/8" male to 1/2" female	Brass
38-7752-03	Swivel	1/2" female to 1/2" male	Brass
38-7752-04	Swivel	1/2" female to 5/8" male	Brass
38-7752-05	Swivel	1/2" male to 5/8" female	Brass
38-7752-06	Swivel	5/8" female to 5/8" male	Brass



UL LISTED AIR TERMINAL ACCESSORIES

UL Listed Tripod Brace

Galvanized tripod brace is made of mild steel. Can be attached with screw or adhesive. For all air terminals over 24" in length. Fits 3/8", 1/2" & 5/8" rods. UL Listed.

Catalog #	Product Description	Use with Air Terminal
38-7494-18	Tripod Brace	30"
38-7494-24	Tripod Brace	36"
38-7494-36	Tripod Brace	48"
38-7494-48	Tripod Brace	60"
38-7494-60	Tripod Brace	72"
38-7494-72	Tripod Brace	84"
38-7494-84	Tripod Brace	96"

Other Sizes available upon request.



UL LISTED AIR TERMINAL BASES

UL Listed Cast Multi-Purpose Point Base

UL Listed Cast Multi-Purpose Base is a cast base threaded for mounting on horizontal and/or vertical surfaces using screws, 1/4" bolts, 1/4" drive-in anchors or an adhesive. Bolt tension cap can be turned so cables can run horizontal or vertical. Accepts up to two conductors.

Catalog #	Product Description	Material
38-7806-11	Cast Multi-Purpose Point Base - For 1/2" Air Terminals	Brass
38-7806-01	Cast Multi-Purpose Point Base - For 1/2" Air Terminals	Aluminum
38-7806-12	Cast Multi-Purpose Point Base - For 5/8" Air Terminals	Brass
38-7806-02	Cast Multi-Purpose Point Base - For 5/8" Air Terminals	Aluminum



UL Listed Dual Mount Base

UL Listed Dual Mount Bases are cast and threaded for mounting on horizontal or vertical surfaces using screws, 1/4" bolts, 1/4" drive-in anchors, or an adhesive. Bolt tension cap can be turned so cables can run horizontal or vertical.

Catalog #	Product Description	Material
38-7239-01	Dual Mount Bases - for 1/2" Air Terminal	Aluminum
38-7239-02	Dual Mount Bases - for 5/8" Air Terminal	Aluminum
38-7239-10	Dual Mount Bases - for 3/8" Air Terminal	Bronze
38-7239-11	Dual Mount Bases - for 1/2" Air Terminal	Bronze
38-7239-12	Dual Mount Bases - for 5/8" Air Terminal	Bronze
38-7239-20	Dual Mount Bases - for 3/8" Air Terminal	Tinned
38-7239-21	Dual Mount Bases - for 1/2" Air Terminal	Tinned
38-7239-22	Dual Mount Bases - for 5/8" Air Terminal	Tinned



UL Listed Dual Mount Narrow Base

UL Listed Dual Mount Bases are cast and can be mounted either horizontally or vertically with screws, 1/4" bolt, or 1/4" drive-in-anchor. Bolt tension cap can be turned so cables run horizontal or vertical. Furnished for air terminal size 3/8" or 1/2".

Catalog #	Product Description	Material
38-7244-01	Dual Mount Bases - for 1/2" Air Terminal	Aluminum
38-7244-10	Dual Mount Bases - for 3/8" Air Terminal	Bronze
38-7244-11	Dual Mount Bases - for 1/2" Air Terminal	Bronze
38-7244-21	Dual Mount Bases - for 3/8" Air Terminal	Tinned
38-7244-22	Dual Mount Bases - for 1/2" Air Terminal	Tinned

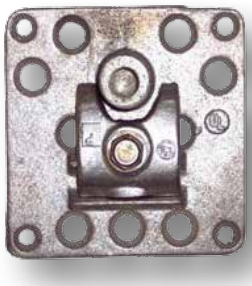


Suitable for use with lightning protection cable range of approximately 29,000 to 212,000 circular mils.

UL LISTED AIR TERMINAL BASES

UL Listed Adhesive Base

UL Listed Adhesive Bases are designed with bolt tension cable clamping and can be used on any surface with an adhesive. It is available for all air terminals sizes 3/8", 1/2", and 5/8"



Catalog #	Product Description	Material
38-7242-01	Adhesive Bases - for 1/2" Air Terminal	Aluminum
38-7242-02	Adhesive Bases - for 5/8" Air Terminal	Aluminum
38-7242-10	Adhesive Bases - for 3/8" Air Terminal	Bronze
38-7242-11	Adhesive Bases - for 1/2" Air Terminal	Bronze
38-7242-12	Adhesive Bases - for 5/8" Air Terminal	Bronze
38-7242-20	Adhesive Bases - for 3/8" Air Terminal	Tinned
38-7242-21	Adhesive Bases - for 1/2" Air Terminal	Tinned
38-7242-22	Adhesive Bases - for 5/8" Air Terminal	Tinned

UL Listed Side Mount Narrow Base

This cast base can be mounted vertically with screws, 1/4 " bolts, or 1/4 " drive- in anchors. Bolt tension cap can be turned so cables can run horizontal or vertical. Furnished for all air terminal sizes 3/8", 1/2", and 5/8". Specify when ordering. UL listed.



Catalog #	Product Description	Material
38-7496-01	Side Mount Base - for 1/2" Air Terminal	Aluminum
38-7496-02	Side Mount Base - for 5/8" Air Terminal	Aluminum
38-7496-10	Side Mount Base - for 3/8" Air Terminal	Bronze
38-7496-11	Side Mount Base - for 1/2" Air Terminal	Bronze
38-7496-12	Side Mount Base - for 5/8" Air Terminal	Bronze
38-7496-20	Side Mount Base - for 3/8" Air Terminal	Tinned
38-7496-21	Side Mount Base - for 1/2" Air Terminal	Tinned
38-7496-22	Side Mount Base - for 5/8" Air Terminal	Tinned

Suitable for use with lightning protection cable range of approximately 29,000 to 212,000 circular mils.

UL LISTED AIR TERMINAL BASES

UL Listed Top Mount Narrow Base

This cast base can be mounted horizontally with screws, 1/4 " bolts, or 1/4" drive- in anchors. Bolt tension cap can be turned so cables can run horizontal or vertical. Furnished for all air terminal sizes 3/8", 1/2", and 5/8". Specify when ordering. UL listed.

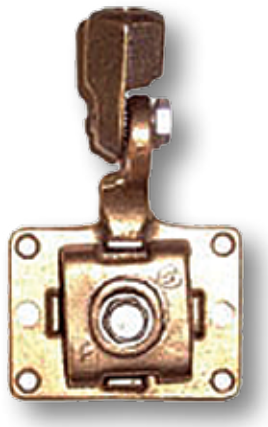
Catalog #	Product Description	Material
38-7495-01	Top Mount Base - for 1/2" Air Terminal	Aluminum
38-7495-02	Top Mount Base - for 5/8" Air Terminal	Aluminum
38-7495-10	Top Mount Base - for 3/8" Air Terminal	Bronze
38-7495-11	Top Mount Base - for 1/2" Air Terminal	Bronze
38-7495-12	Top Mount Base - for 5/8" Air Terminal	Bronze
38-7495-20	Top Mount Base - for 3/8" Air Terminal	Tinned
38-7495-21	Top Mount Base - for 1/2" Air Terminal	Tinned
38-7495-22	Top Mount Base - for 5/8" Air Terminal	Tinned



UL Listed Universal Swivel Base

This is the most universal base in the industry. The swivel adaptor allows the air terminal to level under most conditions. It can be secured with screws, nails, 1/4" bolts, 1/4" drive-in anchors, or an adhesive. Bolt tension cap can be turned so the cable can run horizontal or vertical. Perfect for skylights, domed or gently sloping roofs, or any uneven surface. Furnished for all air terminal sizes 3/8", 1/2", and 5/8". Specify when ordering. UL Listed.

Catalog #	Product Description	Material
38-7491-01	Universal Swivel Base - for 1/2" Air Terminal	Aluminum
38-7491-02	Universal Swivel Base - for 5/8" Air Terminal	Aluminum
38-7491-10	Universal Swivel Base - for 3/8" Air Terminal	Bronze
38-7491-11	Universal Swivel Base - for 1/2" Air Terminal	Bronze
38-7491-12	Universal Swivel Base - for 5/8" Air Terminal	Bronze
38-7491-20	Universal Swivel Base - for 3/8" Air Terminal	Tinned
38-7491-21	Universal Swivel Base - for 1/2" Air Terminal	Tinned
38-7491-22	Universal Swivel Base - for 5/8" Air Terminal	Tinned



UL LISTED AIR TERMINAL BASES

UL Listed Narrow Surface Base

This strap base can be mounted on a narrow surface or ridge roof with screws or nails. Base can be modified to accept other anchors. Bolt tension cap provides maximum cable support. Furnished for all air terminal sizes - 3/8", 1/2", and 5/8". Specify when ordering. UL listed.

Catalog #	Product Description	Material
38-7499-01	Narrow Surface Base - for 1/2" Air Terminal	Aluminum
38-7499-02	Narrow Surface Base - for 5/8" Air Terminal	Aluminum
38-7499-10	Narrow Surface Base - for 3/8" Air Terminal	Copper
38-7499-11	Narrow Surface Base - for 1/2" Air Terminal	Copper
38-7499-12	Narrow Surface Base - for 5/8" Air Terminal	Copper
38-7499-20	Narrow Surface Base - for 3/8" Air Terminal	Tinned
38-7499-21	Narrow Surface Base - for 1/2" Air Terminal	Tinned
38-7499-22	Narrow Surface Base - for 5/8" Air Terminal	Tinned



UL Listed Offset Base

A cast base with a 2" offset to clear an overhang when mounted on a vertical surface using screws, 1/4 " bolts, or 1/4 " drive- in anchors. Bolt tension cap can be turned so cables can run horizontal or vertical. Furnished for all air terminal sizes 3/8", 1/2", and 5/8". Specify when ordering. UL listed

Catalog #	Product Description	Material
38-7444-01	Offset Base - for 1/2" Air Terminal	Aluminum
38-7444-02	Offset Base - for 5/8" Air Terminal	Aluminum
38-7444-10	Offset Base - for 3/8" Air Terminal	Bronze
38-7444-11	Offset Base - for 1/2" Air Terminal	Bronze
38-7444-12	Offset Base - for 5/8" Air Terminal	Bronze
38-7444-20	Offset Base - for 3/8" Air Terminal	Tinned
38-7444-21	Offset Base - for 1/2" Air Terminal	Tinned
38-7444-22	Offset Base - for 5/8" Air Terminal	Tinned

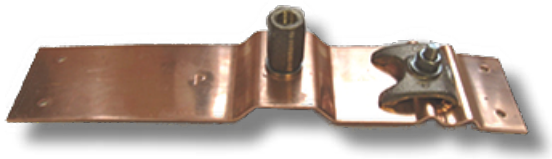


UL LISTED AIR TERMINAL BASES

UL Listed Ridge Mount Base

This strap base can be mounted on ridge roof with screws or nails. Base can be modified to accept other anchors. Bolt tension cap provides maximum cable support. Furnished for point sizes - 3/8", 1/2", and 5/8". Specify when ordering. UL listed.

Catalog #	Product Description	Material
38-7501-01	Ridge Mount Base - for 1/2" Air Terminal	Aluminum
38-7501-02	Ridge Mount Base - for 5/8" Air Terminal	Aluminum
38-7501-10	Ridge Mount Base - for 3/8" Air Terminal	Copper
38-7501-11	Ridge Mount Base - for 1/2" Air Terminal	Copper
38-7501-12	Ridge Mount Base - for 5/8" Air Terminal	Copper
38-7501-20	Ridge Mount Base - for 3/8" Air Terminal	Tinned
38-7501-21	Ridge Mount Base - for 1/2" Air Terminal	Tinned
38-7501-22	Ridge Mount Base - for 5/8" Air Terminal	Tinned



UL Listed Cast Straight Base

Cast straight base. Two bolts or set screws hold cable firmly and air terminal screws into top to keep cable and air terminal in straight line. Available for air terminal sizes 3/8", 1/2" and 5/8". Specify when ordering. Hex Rod for all air terminal sizes and with set screws in lieu of bolts. UL Listed

Catalog #	Product Description	Material
38-7505-21	Cast Straight Base - Hex Rod - for 1/2" Air Terminal	Aluminum
38-7505-22	Cast Straight Base - Hex Rod - for 5/8" Air Terminal	Aluminum
38-7505-30	Cast Straight Base - Hex Rod - for 3/8" Air Terminal	Bronze
38-7505-31	Cast Straight Base - Hex Rod - for 1/2" Air Terminal	Bronze
38-7505-32	Cast Straight Base - Hex Rod - for 5/8" Air Terminal	Bronze



UL LISTED AIR TERMINAL BASES

UL Listed Standing Seam Base

This cast base for standing seam roof has 3/4" groove to fit over most seams. Provided with a swivel adapter for leveling air terminals. Cable holder is adjustable so cables can run parallel or perpendicular. Two set screws secure base to seam. Available for air terminal sizes 3/8", 1/2", and 5/8". Specify when ordering. UL Listed



Catalog #	Product Description	Material
38-7507-01	Standing Seam Base - for 1/2" Air Terminal	Aluminum
38-7507-02	Standing Seam Base - for 5/8" Air Terminal	Aluminum
38-7507-10	Standing Seam Base - for 3/8" Air Terminal	Bronze
38-7507-11	Standing Seam Base - for 1/2" Air Terminal	Bronze
38-7507-12	Standing Seam Base - for 5/8" Air Terminal	Bronze
38-7507-20	Standing Seam Base - for 3/8" Air Terminal	Tinned
38-7507-21	Standing Seam Base - for 1/2" Air Terminal	Tinned
38-7507-22	Standing Seam Base - for 5/8" Air Terminal	Tinned

UL Listed Stamped Vent Base

Stamped vent air terminal base with no cable holder. Over 3 square inches of contact to direct mount air terminal on continuous metal surface. Furnished for all air terminal sizes 3/8", 1/2", and 5/8". Specify when ordering. UL listed



Catalog #	Product Description	Material
38-7523-01	Stamped Vent Base - for 1/2" Air Terminal	Aluminum
38-7523-02	Stamped Vent Base - for 5/8" Air Terminal	Aluminum
38-7523-10	Stamped Vent Base - for 3/8" Air Terminal	Copper
38-7523-11	Stamped Vent Base - for 1/2" Air Terminal	Copper
38-7523-12	Stamped Vent Base - for 5/8" Air Terminal	Copper
38-7523-20	Stamped Vent Base - for 3/8" Air Terminal	Tinned
38-7523-21	Stamped Vent Base - for 1/2" Air Terminal	Tinned
38-7523-22	Stamped Vent Base - for 5/8" Air Terminal	Tinned

UL LISTED AIR TERMINAL BASES

UL Listed U-Bolt Pipe Mount Bases with Cable Connector

UL Listed cast aluminum, brass or tinned u-bolt pipe mount base. Can be configured for top or side mount. Size 3" O.D. or above can be provided with a cable connection. Fits O.D. pipes from 1.315" O.D. to 8.625" O.D. Available for air terminal sizes 3/8", 1/2", or 5/8".



UL Listed U-Bolt Pipe Mount Base with Cable Connector 1.900" to 3.00"Range

Catalog #	Product Description	Material
38-7685-21	1/2" Terminal U-Bolt Dual Mount Base - Fits 1.9" to 3.0" OD Pipe, w/cable connector	Aluminum
38-7685-22	5/8" Terminal U-Bolt Dual Mount Base - Fits 1.9" to 3.0" OD Pipe, w/cable connector	Aluminum
38-7685-34	3/8" Terminal U-Bolt Dual Mount Base - Fits 1.9" to 3.0" OD Pipe, w/cable connector	Tinned
38-7685-35	1/2" Terminal U-Bolt Dual Mount Base - Fits 1.9" to 3.0" OD Pipe, w/cable connector	Tinned
38-7685-36	5/8" Terminal U-Bolt Dual Mount Base - Fits 1.9" to 3.0" OD Pipe, w/cable connector	Tinned

UL Listed U-Bolt Pipe Mount Base with Cable Connector 2.75" to 4.50"Range

Catalog #	Product Description	Material
38-7686-21	1/2" Terminal U-Bolt Dual Mount Base - Fits 2.75" to 4.5" OD Pipe, w/cable connector	Aluminum
38-7686-22	5/8" Terminal U-Bolt Dual Mount Base - Fits 2.75" to 4.5" OD Pipe, w/cable connector	Aluminum
38-7686-34	3/8" Terminal U-Bolt Dual Mount Base - Fits 2.75" to 4.5" OD Pipe, w/cable connector	Tinned
38-7686-35	1/2" Terminal U-Bolt Dual Mount Base - Fits 2.75" to 4.5" OD Pipe, w/cable connector	Tinned
38-7686-36	5/8" Terminal U-Bolt Dual Mount Base - Fits 2.75" to 4.5" OD Pipe, w/cable connector	Tinned

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UL LISTED AIR TERMINAL BASES

UL Listed U-Bolt Pipe Mount Bases with Cable Connector Continued

UL Listed U-Bolt Pipe Mount Base with Cable Connector 4.50" to 6.75" Range

Catalog #	Product Description	Material
38-7687-21	1/2" Terminal U-Bolt Dual Mount Base - Fits 4.5" to 6.75" OD Pipe, w/cable connector	Aluminum
38-7687-22	5/8" Terminal U-Bolt Dual Mount Base - Fits 4.5" to 6.75" OD Pipe, w/cable connector	Aluminum
38-7687-34	3/8" Terminal U-Bolt Dual Mount Base - Fits 4.5" to 6.75" OD Pipe, w/cable connector	Tinned
38-7687-35	1/2" Terminal U-Bolt Dual Mount Base - Fits 4.5" to 6.75" OD Pipe, w/cable connector	Tinned
38-7687-36	5/8" Terminal U-Bolt Dual Mount Base - Fits 4.5" to 6.75" OD Pipe, w/cable connector	Tinned

UL Listed U-Bolt Pipe Mount Base with Cable Connector 6.00" to 8.625" Range

Catalog #	Product Description	Material
38-7688-21	1/2" Terminal U-Bolt Dual Mount Base - Fits 6.0" to 8.625" OD Pipe, w/cable connector	Aluminum
38-7688-22	5/8" Terminal U-Bolt Dual Mount Base - Fits 6.0" to 8.625" OD Pipe, w/cable connector	Aluminum
38-7688-34	3/8" Terminal U-Bolt Dual Mount Base - Fits 6.0" to 8.625" OD Pipe, w/cable connector	Tinned
38-7688-35	1/2" Terminal U-Bolt Dual Mount Base - Fits 6.0" to 8.625" OD Pipe, w/cable connector	Tinned
38-7688-36	5/8" Terminal U-Bolt Dual Mount Base - Fits 6.0" to 8.625" OD Pipe, w/cable connector	Tinned



UL LISTED CONDUCTOR SPLICERS

UL Listed Parallel Splicers

UL Listed Parallel Cable Splicers are cast and is designed with one carriage bolt and 1-1/2" of contact on cables or wires. Designed so the bolt does not come through bottom of the splicer and penetrate roof membrane. May be used with full size cables and secondary bonding wire.

Catalog #	Product Description	Material
38-7248-00	Parallel Splicers (Single Carriage Bolt, 1-1/2" of contact)	Aluminum
38-7248-10	Parallel Splicers (Single Carriage Bolt, 1-1/2" of contact)	Bronze
38-7248-11	Parallel Splicers (Single Carriage Bolt, 1-1/2" of contact)	Tinned



UL Listed Parallel Splicers

UL Listed Cast Parallel Cable Splicers are designed with a double carriage bolt tension and 2" of contact on cables or wires. May be used with full size cables and secondary bonding wire.

Catalog #	Product Description	Material
38-7250-00	Parallel Splicers (Double Carriage Bolts, 2" of contact)	Aluminum
38-7250-10	Parallel Splicers (Double Carriage Bolts, 2" of contact)	Bronze
38-7250-11	Parallel Splicers (Double Carriage Bolts, 2" of contact)	Tinned



UL Listed Parallel Splicer

UL Listed Parallel Cable Splicers are cast and is designed with one carriage bolt. This splicer may be used with rod, cable, or bonding wire where less contact is acceptable.

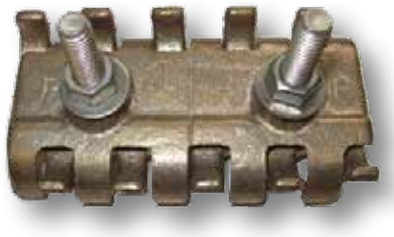
Catalog #	Product Description	Material
38-7297-00	Parallel Splicers (Single Carriage Bolt, 1" of contact)	Aluminum
38-7297-10	Parallel Splicers (Single Carriage Bolt, 1" of contact)	Bronze
38-7297-11	Parallel Splicers (Single Carriage Bolt, 1" of contact)	Tinned



UL LISTED CONDUCTOR SPLICERS

UL Listed Cast Parallel Splicer

UL Listed Cast Parallel Cable Splicers are designed with double bolt tension and 4" of contact on cable or wires. Splicer may be used with full size cables or secondary bonding wires.



Catalog #	Product Description	Material
38-7300-00	Cast Parallel Splicers (Double Carriage Bolts, 4" of contact)	Aluminum
38-7300-10	Cast Parallel Splicers (Double Carriage Bolts, 4" of contact)	Bronze
38-7300-11	Cast Parallel Splicers (Double Carriage Bolts, 4" of contact)	Tinned

UL Listed Cast Parallel Splicer

UL Listed Cast Parallel Cable Splicers are designed with double bolt tension and 2" of contact on cable or wires. Splicer may be used with full size cables or secondary bonding wires.



Catalog #	Product Description	Material
38-7301-00	Cast Parallel Splicers (Single Carriage Bolt, 2" of contact)	Aluminum
38-7301-10	Cast Parallel Splicers (Single Carriage Bolt, 2" of contact)	Bronze
38-7301-11	Cast Parallel Splicers (Single Carriage Bolt, 2" of contact)	Tinned

UL Listed Cast Straight Splicer

UL Listed Straight Cable Splicers are cast and is designed with four bolt cable tension - two per cable. This splicer is used to butt ends of cable in straight line. It is also available with set screws in lieu of bolts.



Catalog #	Product Description	Material
38-7299-00	Cast Straight Splicers	Aluminum Hex
38-7299-10	Cast Straight Splicers	Brass Hex

Suitable for use with lightning protection cable range of approximately 29,000 to 212,000 circular mils.

UL LISTED CONDUCTOR SPLICERS

UL Listed Cast Tee Splicer

Cast tee cable splicer has bolt tension for connections with all main size conductors. UL listed

Catalog #	Product Description	Material
38-7492-00	Cast Tee Splicer	Aluminum
38-7492-10	Cast Tee Splicer	Bronze
38-7492-11	Cast Tee Splicer	Tinned



UL Listed Cross Run Splicer

Cast cross run cable splicer has 1-1/2" of contact with four bolt tension. For use with all full size cables. UL listed

Catalog #	Product Description	Material
38-7445-00	Cross Run Splicer	Aluminum
38-7445-10	Cross Run Splicer	Bronze
38-7445-11	Cross Run Splicer	Tinned



UL Listed Cast Bimetallic Splicer

UL Listed Cast Bimetallic Cable Splicers are designed for making connections between aluminum and copper cables in a straight line. Two-bolt tension on each cable for making a strong connection. Use with all main size conductors.

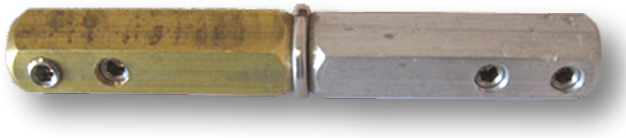
Catalog #	Product Description	Material
38-7346-00	Bimetallic Splicer - Cast	Aluminum to Copper



UL Listed Machined Bimetallic Splicer

Machined bimetallic cable splicer for making connections between aluminum and copper cables in a straight line. Used to make connections inside 1" PVC conduit. Use with all main size conductors. UL Listed

Catalog #	Product Description	Material
38-7346-10	Bimetallic Splicer - Machined	Aluminum to Copper



Suitable for use with lightning protection cable range of approximately 29,000 to 212,000 circular mils.

UL LISTED CONDUCTOR SPLICERS

UL Listed Aluminum and Brass Cast Bimetallic 1-Bolt Parallel Splicer

Cast bimetallic cable splicer for making connections between Aluminum and Copper cables. Single bolt tension cap allows the cables to come from a variety of directions. Use with all main size conductors. Eliminates the use of an additional splicer. UL Listed



Catalog #	Product Description	Material
38-7764-00	Bimetallic Splicer - Cast	Aluminum to Brass

UL Listed Cable Disconnects

Cast cable disconnects are used for testing system continuity or ground resistance. Single bolt caps allow for easy disconnection. UL Listed



UL Listed Cable Disconnects

Catalog #	Product Description	Material
38-7530-10	Brass Cast Cable Disconnect	Brass
38-7530-00	Aluminum Cast Cable Disconnect	Aluminum

Suitable for use with lightning protection cable range of approximately 29,000 to 212,000 circular mils.

UL LISTED BONDING PLATES

UL Listed Cast Bonding Plate

Cast bonding plate with 3 square inches of contact. Bolt tension cap can be turned so cables can run horizontal or vertical. For use with all full size cables. UL listed.

Catalog #	Product Description	Material
38-7532-00	Cast Bonding Plate	Aluminum
38-7532-10	Cast Bonding Plate	Bronze
38-7532-11	Cast Bonding Plate	Tinned
38-7532-50	Cast Bonding Plate - Bimetallic	Alum/Brass



UL Listed Cast Bonding Plate

Cast bonding plate with 8 square inches of contact surface. Holes provided for 1/4" bolts or smaller screws. Bolt tension cap can be turned so cables can run any direction. For use with all full size cables. UL listed

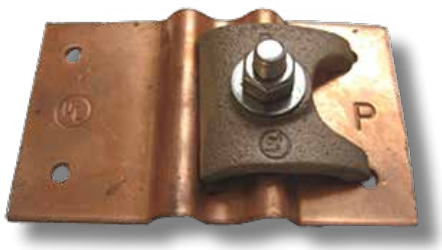
Catalog #	Product Description	Material
38-7471-00	Cast Bonding Plate	Aluminum
38-7471-10	Cast Bonding Plate	Bronze
38-7471-11	Cast Bonding Plate	Tinned
38-7471-50	Cast Bonding Plate - Bimetallic	Alum/Brass



UL Listed Stamped Bonding Plate

Stamped bonding plate with 8 square inches of contact. Bolt tension cap provides maximum cable support. For use with all full size cables. UL listed

Catalog #	Product Description	Material
38-7533-00	Stamped Bonding Plate	Aluminum
38-7533-10	Stamped Bonding Plate	Bronze
38-7533-11	Stamped Bonding Plate	Tinned



UL LISTED BONDING LUGS

UL Listed Cast Bonding Lug

Cast bonding lug with 3 square inches of contact surface. Available for bolt sizes #10 to 7/8" diameter. Anchor hole drilled in center. Bolt tension cap can turn so cable can be connected from any direction. For use with all full size cables. Specify bolt size when ordering. UL Listed



Catalog #	Product Description	Material
38-7535-00	1/4" Cast Bonding Lug	Aluminum
38-7535-01	3/8" Cast Bonding Lug	Aluminum
38-7535-02	1/2" Cast Bonding Lug	Aluminum
38-7535-10	1/4" Cast Bonding Lug	Bronze
38-7535-11	3/8" Cast Bonding Lug	Bronze
38-7535-12	1/2" Cast Bonding Lug	Bronze
38-7535-20	1/4" Cast Bonding Lug	Tinned
38-7535-21	3/8" Cast Bonding Lug	Tinned
38-7535-22	1/2" Cast Bonding Lug	Tinned
38-7535-50	1/4" Cast Bonding Lug - Bimetallic	Alum/Bronze
38-7535-51	3/8" Cast Bonding Lug - Bimetallic	Alum/Bronze
38-7535-52	1/2" Cast Bonding Lug - Bimetallic	Alum/Bronze

UL Listed Cast Bonding Lug

Cast bonding lug with 3 square inches of contact surface. Available for bolt sizes #10 to 1/2" diameter. Anchor hole drilled at top. Bolt tension cap can turn so cable can be connected from any direction. For use with all full size cables. Specify bolt size when ordering. UL Listed



Catalog #	Product Description	Material
38-7536-00	1/4" Cast Bonding Lug	Aluminum
38-7536-01	3/8" Cast Bonding Lug	Aluminum
38-7536-02	1/2" Cast Bonding Lug	Aluminum
38-7536-10	1/4" Cast Bonding Lug	Bronze
38-7536-11	3/8" Cast Bonding Lug	Bronze
38-7536-12	1/2" Cast Bonding Lug	Bronze
38-7536-20	1/4" Cast Bonding Lug	Tinned
38-7536-21	3/8" Cast Bonding Lug	Tinned
38-7536-22	1/2" Cast Bonding Lug	Tinned
38-7536-50	1/4" Cast Bonding Lug - Bimetallic	Alum/Bronze
38-7536-51	3/8" Cast Bonding Lug - Bimetallic	Alum/Bronze
38-7536-52	1/2" Cast Bonding Lug - Bimetallic	Alum/Bronze

UL LISTED BONDING LUGS

UL Listed Secondary Cast Bonding Lug

Cast terminal bonding lug with 2 bolt tension on secondary wires. Lug can be secured with a screw, 1/4" drive- in anchor, or 1/4" bolt. For use with all secondary wires. UL listed

Catalog #	Product Description	Material
38-7540-00	Secondary Cast Bonding Lug	Aluminum
38-7540-10	Secondary Cast Bonding Lug	Bronze
38-7540-20	Secondary Cast Bonding Lug	Stainless Steel
38-7540-11	Secondary Cast Bonding Lug	Tinned



UL LISTED BONDING CLAMPS

UL Listed C-Clamp Bonding Clamp

Cast bonding clamp has 8 square inches of surface contact. C-type clamp allows easy installation on I-beams or other flat areas up to 1" thickness. Bolt tension cap has 1-1/2" of cable contact. For use with all full size cables. UL Listed

Catalog #	Product Description	Material
38-7537-00	C-Clamp Bonding Clamp	Aluminum
38-7537-10	C-Clamp Bonding Clamp	Bronze
38-7537-11	C-Clamp Bonding Clamp	Tinned



UL Listed C-Clamp Bonding Clamp

Cast bonding clamp has 8 square inches of surface contact. C-type allows easy installation on I-beams or other flat areas up to 3" thickness. Bolt tension cap has 1-1/2" of cable contact. For use with all full size cables. UL listed

Catalog #	Product Description	Material
38-7538-00	C-Clamp Bonding Clamp	Aluminum
38-7538-10	C-Clamp Bonding Clamp	Bronze
38-7538-11	C-Clamp Bonding Clamp	Tinned



UL LISTED BONDING CLAMPS

UL Listed Bonding Clamp

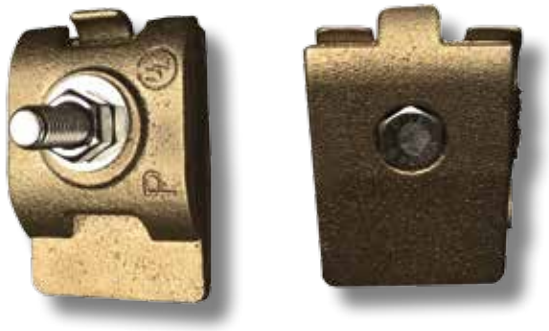
Cast bolt tension bonding clamp with 3 square inches of contact secures to i-beams, purlin flange, etc. For use with all full size cables and secondary wires. UL listed



Catalog #	Product Description	Material
38-7541-00	Bonding Clamp	Aluminum
38-7541-10	Bonding Clamp	Bronze
38-7541-11	Bonding Clamp	Tinned

UL Listed Bonding Clamp

Cast bolt tension bonding clamp secures to i -beams, purlin flange, etc. For use with all full size cables and secondary wires. For secondary bond only. UL listed



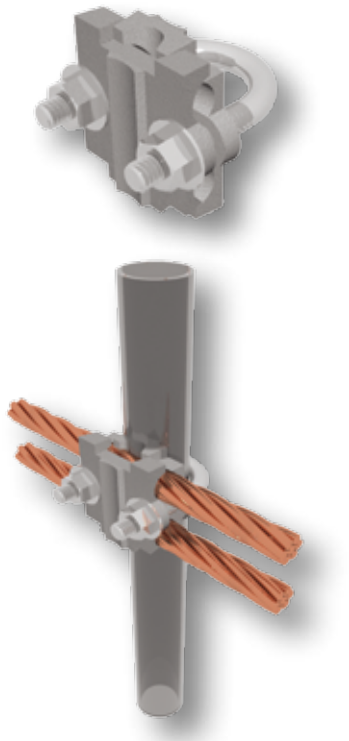
Catalog #	Product Description	Material
38-7542-00	Bonding Clamp	Aluminum
38-7542-10	Bonding Clamp	Bronze
38-7542-11	Bonding Clamp	Tinned

UL LISTED BONDING CLAMPS

UL Listed 1” U-Bolt Bonding Clamp

1” Cast U-Bolt Bonding Clamps for use with pipe or round bar sizes .400” to 1.315”. Can be used with cable and wire sizes form #6 to 250 MCM. UL Listed.

Catalog Number	Material	Description
38-7420-00	Aluminum	1" U-Bolt Bonding Clamp - Fits .400" to 1.375" O.D. Pipe
38-7420-10	Bronze	1" U-Bolt Bonding Clamp - Fits .400" to 1.375" O.D. Pipe
38-7420-11	Tinned	1" U-Bolt Bonding Clamp - Fits .400" to 1.375" O.D. Pipe

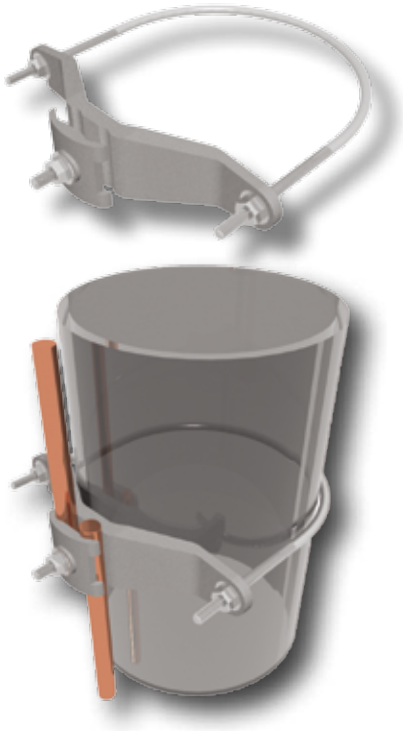


Pipe Range 0.375" - 1"

UL Listed 2”-8” U-Bolt Bonding Clamp

2”-8” Cast U-Bolt Bonding Clamps provide 1-1/2” of contact on pipe or cable. Use with all full size conductors. Fits pipe sizes 1.315” to 8.625”. Used to bond any metal body including grade level water pipe. UL Listed.

Catalog Number	Material	Description
38-7421-00	Aluminum	2" U-Bolt Bonding Clamp - Fits 1.315" to 2.000" O.D. Pipe
38-7421-10	Bronze	2" U-Bolt Bonding Clamp - Fits 1.315" to 2.000" O.D. Pipe
38-7421-11	Tinned	2" U-Bolt Bonding Clamp - Fits 1.315" to 2.000" O.D. Pipe
38-7422-00	Aluminum	3" U-Bolt Bonding Clamp - Fits 1.900" to 3.000" O.D. Pipe
38-7422-10	Bronze	3" U-Bolt Bonding Clamp - Fits 1.900" to 3.000" O.D. Pipe
38-7422-11	Tinned	3" U-Bolt Bonding Clamp - Fits 1.900" to 3.000" O.D. Pipe
38-7423-00	Aluminum	4" U-Bolt Bonding Clamp - Fits 2.750" to 4.500" O.D. Pipe
38-7423-10	Bronze	4" U-Bolt Bonding Clamp - Fits 2.750" to 4.500" O.D. Pipe
38-7423-11	Tinned	4" U-Bolt Bonding Clamp - Fits 2.750" to 4.500" O.D. Pipe
38-7424-00	Aluminum	6" U-Bolt Bonding Clamp - Fits 4.500" to 6.750" O.D. Pipe
38-7424-10	Bronze	6" U-Bolt Bonding Clamp - Fits 4.500" to 6.750" O.D. Pipe
38-7424-11	Tinned	6" U-Bolt Bonding Clamp - Fits 4.500" to 6.750" O.D. Pipe
38-7711-00	Aluminum	8" U-Bolt Bonding Clamp - Fits 6.000" to 8.625" O.D. Pipe
38-7711-10	Bronze	8" U-Bolt Bonding Clamp - Fits 6.000" to 8.625" O.D. Pipe
38-7711-11	Tinned	8" U-Bolt Bonding Clamp - Fits 6.000" to 8.625" O.D. Pipe



Pipe Range 2" - 8"

UL LISTED BONDING CLAMPS

UL Listed Secondary Bonding Clamp

Cast bolt tension secondary bonding lug for connections to VTR's (Vent Through Roof), roof drains, flashings, etc. For use with secondary wire. UL listed



Catalog #	Product Description	Material
38-7539-00	Secondary Bonding Clamp	Aluminum
38-7539-10	Secondary Bonding Clamp	Bronze
38-7539-11	Secondary Bonding Clamp	Tinned

UL Listed Ground Rod Clamp

Cast bronze ground rod clamp has 1 1/2" of contact and two bolt tension. UL listed



Catalog #	Product Description	Material
38-7461-00	Ground Rod Clamp for 1/2" Rod	Bronze
38-7461-02	Ground Rod Clamp for 5/8" to 3/4" Rod	Bronze

UL Listed Flexible Bonding Strap

Extra Flexible Bonding Strap for use in moving or vibrating metal objects. The size of the Flexible bonding Strap is 3/4"-1"wide x 1/8" thick and comes in standard lengths of 10" and 12". Other lengths available upon request. UL listed



Catalog #	Product Description	Material
38-7709-10	10" Flexible Bonding Strap	Aluminum
38-7710-10	10" Flexible Bonding Strap	Tinned Copper
38-7709-12	12" Flexible Bonding Strap	Aluminum
38-7710-12	12" Flexible Bonding Strap	Tinned Copper

UL LISTED THRU ROD ASSEMBLIES & ACCESSORIES

UL Listed Thru Rod Assembly with Two Cable Connectors

Threaded 1/2" rod with parallel cable connectors on each end. Comes standard with 1/2" Neoprene washer for weatherproofing the outside terminal end. UL Listed.

UL Listed Thru Rod Assembly with One Cable Connector

Threaded rod furnished with a parallel cable connector and swivel air terminal adaptor. Comes standard with 1/2" Neoprene washer for weatherproofing the outside terminal end. UL Listed.

UL Listed Thru Rod Assembly with Two Cable Connectors

Catalog #	Product Description	Length	Material
38-7754-00	1/2" Rod Assembly	12"	Aluminum
38-7755-00	1/2" Rod Assembly	18"	Aluminum
38-7614-00	1/2" Rod Assembly	24"	Aluminum
38-7754-10	1/2" Rod Assembly	12"	Brass
38-7755-10	1/2" Rod Assembly	18"	Brass
38-7614-10	1/2" Rod Assembly	24"	Brass
38-7754-20	1/2" Rod Assembly	12"	Bimetallic
38-7755-20	1/2" Rod Assembly	18"	Bimetallic
38-7614-20	1/2" Rod Assembly	24"	Bimetallic

UL Listed Thru Rod Assembly with One Cable Connector

Catalog #	Product Description	Swivel Adaper Size	Material
38-7756-01	12" Thru Rod Assembly	1/2"	Aluminum
38-7757-01	18" Thru Rod Assembly	1/2"	Aluminum
38-7758-01	24" Thru Rod Assembly	1/2"	Aluminum
38-7756-02	12" Thru Rod Assembly	5/8"	Aluminum
38-7757-02	18" Thru Rod Assembly	5/8"	Aluminum
38-7758-02	24" Thru Rod Assembly	5/8"	Aluminum
38-7756-11	12" Thru Rod Assembly	1/2"	Brass
38-7757-11	18" Thru Rod Assembly	1/2"	Brass
38-7758-11	24" Thru Rod Assembly	1/2"	Brass
38-7756-12	12" Thru Rod Assembly	5/8"	Brass
38-7757-12	18" Thru Rod Assembly	5/8"	Brass
38-7758-12	24" Thru Rod Assembly	5/8"	Brass
38-7756-21	12" Thru Rod Assembly	1/2"	Bimetallic
38-7757-21	18" Thru Rod Assembly	1/2"	Bimetallic
38-7758-21	24" Thru Rod Assembly	1/2"	Bimetallic
38-7756-22	12" Thru Rod Assembly	5/8"	Bimetallic
38-7757-22	18" Thru Rod Assembly	5/8"	Bimetallic
38-7758-22	24" Thru Rod Assembly	5/8"	Bimetallic



Thru Rod Assembly with Two Cable Connectors
(Bimetallic shown)



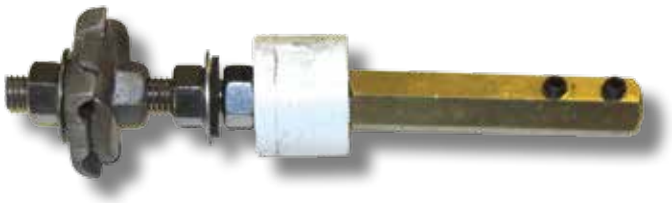
Thru Rod Assembly with One Cable Connectors
(Aluminum shown)

UL LISTED THRU ROD ASSEMBLIES & ACCESSORIES

UL Listed Thru Rod Assembly with PVC Cap

The thru rod assembly with PVC cap is designed with 1/2" threaded rod furnished with a parallel cable connector, conductor inside the conduit. The assembly fits over 1" conduit in order to form a water-tight connection to the connector inside the conduit. UL Listed.

Catalog #	Product Description	Material
38-7402-00	Thru Rod Assembly with 1" PVC Cap	Aluminum
38-7402-10	Thru Rod Assembly with 1" PVC Cap	Brass
38-7402-20	Thru Rod Assembly with 1" PVC Cap	Bimetallic



PVC Protector Pipe

PVC protector pipe for use where cable are subject to displacement or damage. Schedule 40 and sunlight resistant.



Catalog #	Product Description
38-7647-04	PVC Protector Pipe 3/4" x 4'
38-7647-10	PVC Protector Pipe 3/4" x 10'
38-7648-10	PVC Protector Pipe 1" x 10'

UL Listed Protector Pipe Strap

Galvanized EMT 1-hole strap. Used to secure protector pipes Fits pipe up to 1" i.D. UL Listed



Catalog #	Product Description	Material
38-7646-01	1-Hole Strap for 1" Schedule 40 PVC	Galvanized

UL LISTED FASTENERS

UL Listed Loop Fastener

1/2" wide loop–secure with a single nail or screw. For use with all main conductors. UL Listed

Catalog #	Product Description	Material
38-7544-00	1/2" Loop Fastener	Aluminum
38-7544-10	1/2" Loop Fastener	Copper
38-7544-11	1/2" Loop Fastener	Tinned



UL Listed Loop Fastener

5/8" wide loop–secure with a single nail, screw, 1/4" bolt, or 1/4" drive-in anchor. For use with all main conductors. UL Listed

Catalog #	Product Description	Material
38-7446-00	5/8" Loop Fastener with 1/4" holes	Aluminum
38-7446-01	5/8" Loop Fastener with 3/8" holes	Aluminum
38-7446-10	5/8" Loop Fastener with 1/4" holes	Copper
38-7446-11	5/8" Loop Fastener with 3/8" holes	Copper
38-7446-20	5/8" Loop Fastener with 1/4" holes	Tinned
38-7446-21	5/8" Loop Fastener with 3/8" holes	Tinned



UL Listed Stamped Adhesive Cable Clip

Stamped adhesive cable clip with three compression type fingers to hold the cable securely to the roof. Middle finger stamped so the adhesive does not interfere with the anchoring process. For use with all main size cables and secondary bonding wires. UL Listed.

Catalog #	Product Description	Material
38-7549-00	Stamped Finger Bonding Plate	Aluminum
38-7549-10	Stamped Finger Bonding Plate	Brass
38-7549-20	Stamped Finger Bonding Plate	Copper
38-7549-11	Stamped Finger Bonding Plate	Tinned



UL Listed Class II Cast Adhesive Cable Holder

Our cast adhesive cable holder is designed with a bolt tension cable clip. It is designed for use with all #6 to 4/0 AWG full and secondary cable sizes. UL Listed.

Catalog #	Product Description	Material
38-7632-00	Cast Adhesive Cable Holder	Aluminum
38-7632-10	Cast Adhesive Cable Holder	Bronze
38-7632-11	Cast Adhesive Cable Holder	Tinned



LIGHTNING PROTECTION STRUCTURAL ADHESIVE

M-1 Structural Adhesive/Sealant

M-1 Structural Adhesive/Sealant–10.1 oz. tube is available in 3 colors; Aluminum Gray, Black and White.

Catalog #	Product Description	Color
38-7547-00	M-1 Structural Adhesive/Sealant 10.1 oz.	Aluminum/Gray
38-7547-01	M-1 Structural Adhesive/Sealant 10.1 oz.	White
38-7547-02	M-1 Structural Adhesive/Sealant 10.1 oz.	Black



GROUND ACCESS WELLS

PVC Ground Access Well

PVC Ground Access Wells are available in 10" or12" diameter. Galvanized Steel lid included with "Ground" tag on lid.



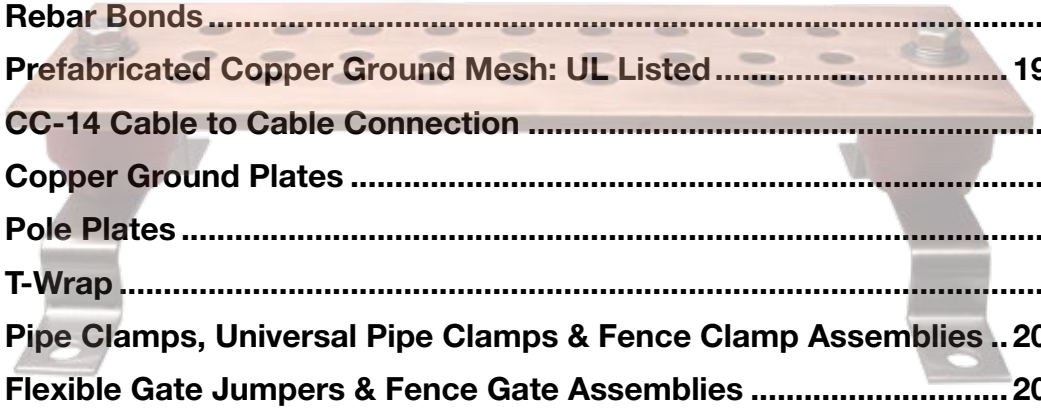
UL Listed Ground Well

Catalog #	Product Description	Material
38-7804-01	PVC Ground Well w/Galvanized Lid - 10" x 12", Schedule 40	PVC/Steel
38-7804-11	PVC Ground Well w/Galvanized Lid - 12" x 12", Schedule 40	PVC/Steel
38-7804-02	PVC Ground Well w/Galvanized Lid - 10" x 18", Schedule 40	PVC/Steel
38-7804-12	PVC Ground Well w/Galvanized Lid - 12" x 18", Schedule 40	PVC/Steel
38-7804-00	PVC Ground Well w/Galvanized Lid - 10" x 24", Schedule 40	PVC/Steel
38-7804-10	PVC Ground Well w/Galvanized Lid - 12" x 24, Schedule 40	PVC/Steel
38-7804-03	PVC Ground Well w/Galvanized Lid - 10" x 36", Schedule 40	PVC/Steel
38-7804-13	PVC Ground Well w/Galvanized Lid - 12" x 36", Schedule 40	PVC/Steel

Section 8

Grounding Products

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QUIKTAP™

NEW

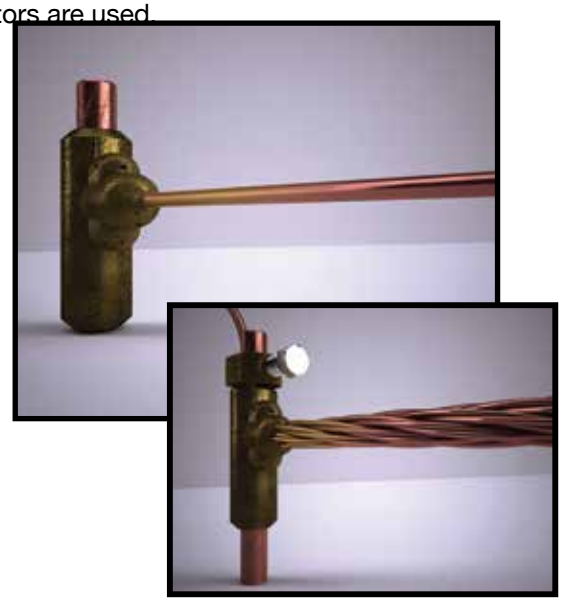
Introducing thermOweld's QuikTap™ Ground Rod Connection

The QuikTap™ is a multi functional grounding solution that allows you to connect to a ground rod using a irreversible connection.

Whether you want to connect multiple grounding conductors to create a grounding grid, ground/bus bars, fences, or lightning protection systems, QuikTap™ is the quick and easy way to install your grounding system in the field without the need for a burn permit or concern around volatile or hazardous job sites.

QuikTap™ is a conductor exothermally welded to a coupling (either compression or threaded) on one end. The other end of the conductor can have various solutions, such a; blank, another QuikTap™, ground bar, or fence clamp For lightning protection systems LP conductors are used.

The length is specified by the customer.



Features and Benefits:

- Irreversible connection no maintenance
- No need to weld in the field
- No burn permit needed
- Perfect for volatile or hazardous jobsites
- Pigtail conductor lengths available from 1' - 995'
- Compatible with all ground rod types & configurations
- Available with threaded or compression
- Doesn't require installation driving head
- Can be used for lightning protection systems
- Quick and easy to install











QUIKTAP™

QuikTap™ for Grounding Grid Applications

QuikTap™ is designed to allow the installer to stack multiple QuikTaps onto each other. This allow the installer to direct the conductors in various directions off of the ground rod. See figure 1 and 2 in the catalog number chart page 171

QuikTap™ for Lightning Protection

QuikTap™ for lightning protection uses LP conductors to connect the lightning protection system to the grounding grid. See figure 1 and 2 in the catalog number chart page 171

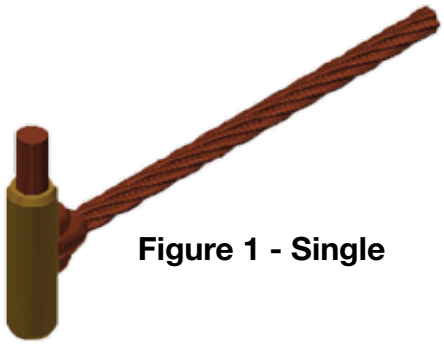


Figure 1 - Single

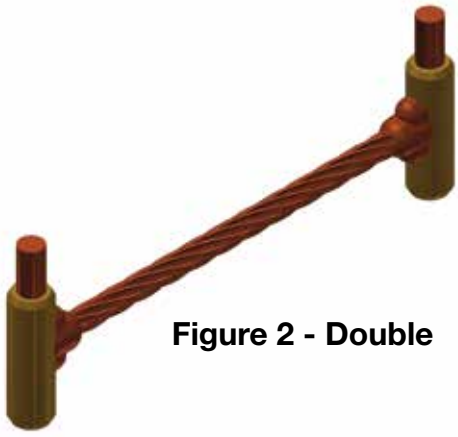


Figure 2 - Double



QuikTap™ stacked for multiple direction application.

QUIKTAP™

QuikTap™ for Grounding ground/Bus Bars Applications

QuikTap™ is used with a ground bar exothermically welded to the opposite end to allow lug bonds to be attached to the grounding grid. See figure 3 in the catalog number chart page 171





Figure 3 - Single to Ground Bar

QuikTap™ for Fencing Applications

When you need to ground your fence to ensure sufficient electrical contact for both ground fault and lightning current. See figure 4 in the catalog number chart page 171



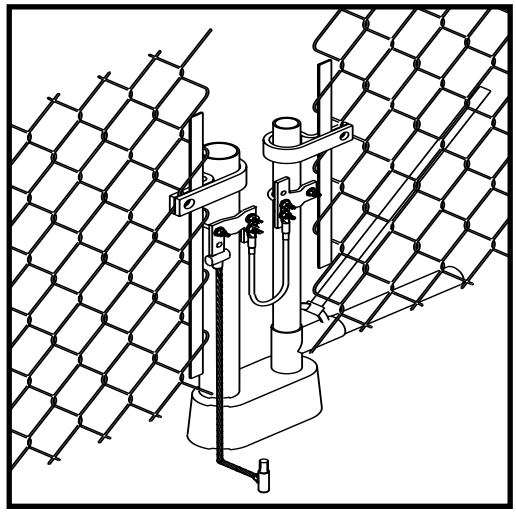


Figure 4 - Single to Pipe Clamp

QUIKTAP™

QuikTap™ Catalog Numbers

When determining your catalog number replace the †‡ with the necessary length of conductor in the chart to the right.

Catalog #	Description	Figure
38-7958-†‡	1/2" QuikTap™ (Single) X 2/0 Stranded	1
38-7959-†‡	1/2" QuikTap™ (Single) X 4/0 Stranded	1
38-7960-†‡	1/2" QuikTap™ (Double) X 2/0 Stranded	2
38-7961-†‡	1/2" QuikTap™ (Double) X 4/0 Stranded	2
38-7962-†‡	1/2" QuikTap™ (Single) X 2/0 Stranded To Ground Bar	3
38-7963-†‡	1/2" QuikTap™ (Single) X 4/0 Stranded To Ground Bar	3
38-7964-†‡	5/8" QuikTap™ (Single) X 2/0 Stranded	1
38-7965-†‡	5/8" QuikTap™ (Single) X 4/0 Stranded	1
38-7966-†‡	5/8" QuikTap™ (Double) X 2/0 Stranded	2
38-7967-†‡	5/8" QuikTap™ (Double) X 4/0 Stranded	2
38-7968-†‡	5/8" QuikTap™ (Single) X 2/0 Stranded To Ground Bar	3
38-7969-†‡	5/8" QuikTap™ (Single) X 4/0 Stranded To Ground Bar	3
38-7970-†‡	3/4" QuikTap™ (Single) X 2/0 Stranded	1
38-7971-†‡	3/4" QuikTap™ (Single) X 4/0 Stranded	1
38-7972-†‡	3/4" QuikTap™ (Double) X 2/0 Stranded	2
38-7973-†‡	3/4" QuikTap™ (Double) X 4/0 Stranded	2
38-7974-†‡	3/4" QuikTap™ (Single) X 2/0 Stranded To Ground Bar	3
38-7975-†‡	3/4" QuikTap™ (Single) X 4/0 Stranded To Ground Bar	3
38-7976-†‡	1" QuikTap™ (Single) X 2/0 Stranded	1
38-7977-†‡	1" QuikTap™ (Single) X 4/0 Stranded	1
38-7978-†‡	1" QuikTap™ (Double) X 2/0 Stranded	2
38-7979-†‡	1" QuikTap™ (Double) X 4/0 Stranded	2
38-7980-†‡	1" QuikTap™ (Single) X 2/0 Stranded To Ground Bar	3
38-7981-†‡	1" QuikTap™ (Single) X 4/0 Stranded To Ground Bar	3
38-7982-†‡	1/2" QuikTap™ (Single) X 36-7562-00 LP Class I Cable	1
38-7983-†‡	5/8" QuikTap™ (Single) X 36-7562-00 LP Class I Cable	1
38-7984-†‡	3/4" QuikTap™ (Single) X 36-7562-00 LP Class I Cable	1
38-7985-†‡	1" QuikTap™ (Single) X 36-7562-00 LP Class I Cable	1
38-8201-†‡	5/8" QuikTap™ (Single) X #6 Solid To 3/4"-1 1/4" Pipe Clamp	4
38-8202-†‡	5/8" QuikTap™ (Single) X #6 Solid To 1 1/2"-2" Pipe Clamp	4
38-8203-†‡	5/8" QuikTap™ (Single) X #6 Solid To 2 1/2"-3" Pipe Clamp	4
38-8204-†‡	5/8" QuikTap™ (Single) X #6 Solid To 3 1/2"-4" Pipe Clamp	4
38-8205-†‡	5/8" QuikTap™ (Single) X #6 Solid To 5"-6" Pipe Clamp	4
38-8206-†‡	3/4" QuikTap™ (Single) X #6 Solid To 3/4"-1 1/4" Pipe Clamp	4
38-8207-†‡	3/4" QuikTap™ (Single) X #6 Solid To 1 1/2"-2" Pipe Clamp	4
38-8208-†‡	3/4" QuikTap™ (Single) X #6 Solid To 2 1/2"-3" Pipe Clamp	4
38-8209-†‡	3/4" QuikTap™ (Single) X #6 Solid To 3 1/2"-4" Pipe Clamp	4
38-8210-†‡	3/4" QuikTap™ (Single) X #6 Solid To 5"-6" Pipe Clamp	4
38-8221-†‡	5/8" QuikTap™ (Single) X 4/0 Stranded To 3/4"-1 1/4" Pipe Clamp	4
38-8222-†‡	5/8" QuikTap™ (Single) X 4/0 Stranded To 1 1/2"-2" Pipe Clamp	4
38-8223-†‡	5/8" QuikTap™ (Single) X 4/0 Stranded To 2 1/2"-3" Pipe Clamp	4
38-8224-†‡	5/8" QuikTap™ (Single) X 4/0 Stranded To 3 1/2"-4" Pipe Clamp	4
38-8225-†‡	5/8" QuikTap™ (Single) X 4/0 Stranded To 5"-6" Pipe Clamp	4
38-8226-†‡	3/4" QuikTap™ (Single) X 4/0 Stranded To 3/4"-1 1/4" Pipe Clamp	4
38-8227-†‡	3/4" QuikTap™ (Single) X 4/0 Stranded To 1 1/2"-2" Pipe Clamp	4
38-8228-†‡	3/4" QuikTap™ (Single) X 4/0 Stranded To 2 1/2"-3" Pipe Clamp	4
38-8229-†‡	3/4" QuikTap™ (Single) X 4/0 Stranded To 3 1/2"-4" Pipe Clamp	4
38-8230-†‡	3/4" QuikTap™ (Single) X 4/0 Stranded To 5"-6" Pipe Clamp	4

† = Feet	‡ = Feet	
0	0	
1	1	
2	2	
3	3	
4	4	
5	5	
6	6	
7	7	
8	8	
9	9	
	A =	0
	B =	5
	C =	10
	D =	15
	E =	20
	F =	25
	G =	30
	H =	35
	J =	40
	K =	45
	L =	50
	M =	55
	N =	60
	P =	65
	R =	70
	S =	75
	T =	80
	V =	85
	W =	90
	X =	95

EXAMPLES

38-7958-†‡ : † = 1 ft., ‡ = 5 ft.
38-7958-15 = 1/2" QuikTap™ (Single) with 15' long 2/0 Stranded Pigtail

38-8209-†‡ : † = 1 ft., F = 25 ft.
38-8209-1F = 3/4" QuikTap™ (Single) with 125 foot long #6 Solid To 3 1/2"-4" Pipe Clamp

GROUND RODS



Copper Bonded Ground Rods

Manufactured from high tensile low carbon steel by molecularly bonding 99.9% pure electrolytic copper. These ground rods are UL-467 listed and have a minimum copper thickness of 10 mils.

Copper Bonded Ground Rods			
Catalog #	Rod Dia	Length	Copper Thickness
38-4635-01	5/8"	8'	10 mils
38-4635-00	5/8"	10'	10 mils
38-4635-03	3/4"	8'	10 mils
38-4635-04	3/4"	10'	10 mils

Other sizes available upon request

UL Listed



Sectional Copper Bonded Ground Rods

Manufactured from high tensile low carbon steel by molecularly bonding 99.9% pure electrolytic copper. These ground rods are UL-467 listed and have a minimum copper thickness of 10 mils. The rods are threaded by rolling threading process.

Copper Bonded Ground Rods				
Catalog #	Rod Dia (in)	Length (ft)	Thread Dia	Copper Thickness
38-4635-71	5/8"	8'	5/8"	10 mils
38-4635-21	5/8"	10'	5/8"	10 mils
38-4635-24	3/4"	10'	3/4"	10 mils

Other sizes available upon request

UL Listed

GROUND ROD ACCESSORIES

Threaded Coupling

Threaded couplings are made of high grade material for higher strength with counter bores for protecting the rod threads from damage.

Threaded Coupling, Bronze	
Catalog #	Rod Dia
38-6313-02	5/8"
38-6313-04	3/4"



Compression Coupling

Compression couplings are made of high grade material for higher strength.

Compression Coupling, Bronze	
Catalog #	Rod Dia
38-6313-09	5/8"
38-6313-08	3/4"



Driving Stud for Threaded Coupling

Suitable for both manual and power hammering. Can be reused.

Driving Stud	
Catalog #	Thread Dia
38-6607-03	5/8"
38-6607-04	3/4"



Ground Rod Clamp

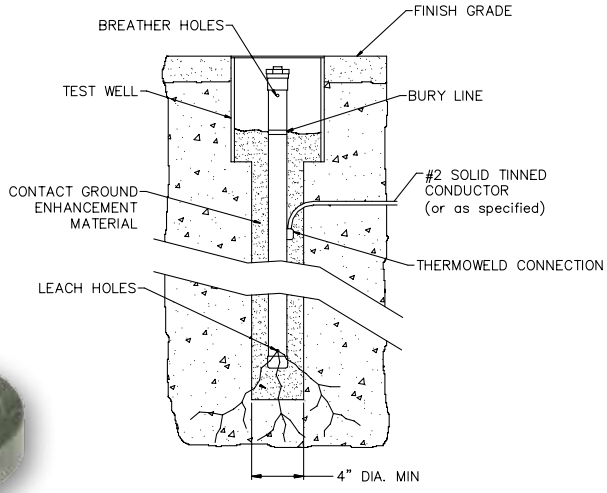
These clamps are used for joining ground rods to copper cables.

Ground Rod Clamp	
Catalog #	Rod Dia (in)
38-6598-02	1/2" - 5/8"
38-6598-03	3/4"



UL LISTED CHEMICAL GROUND ROD KITS VERTICAL









Catalog Number	Length	Inspection Well	Contact GF 25# Bag	Pigtail
38-6050-01	5'	No	~	5' - 4/0 STR
38-6050-31	5'	Yes	2	5' - 4/0 STR
38-6050-02	10'	No	~	5' - #2 SOL (Tinned)
38-6050-32	10'	Yes	4	5' - #2 SOL (Tinned)
38-6050-03	10'	No	~	5' - 2/0 STR
38-6050-33	10'	Yes	4	5' - 2/0 STR
38-6050-04	10'	No	~	5' - 4/0 STR
38-6050-34	10'	Yes	4	5' - 4/0 STR
38-6050-05	20'	No	~	5' - #2 SOL (Tinned)
38-6050-35	20'	Yes	8	5' - #2 SOL (Tinned)
38-6050-06	20'	No	~	5' - 2/0 STR
38-6050-36	20'	Yes	8	5' - 2/0 STR
38-6050-07	20'	No	~	5' - 4/0 STR
38-6050-37	20'	Yes	8	5' - 4/0 STR

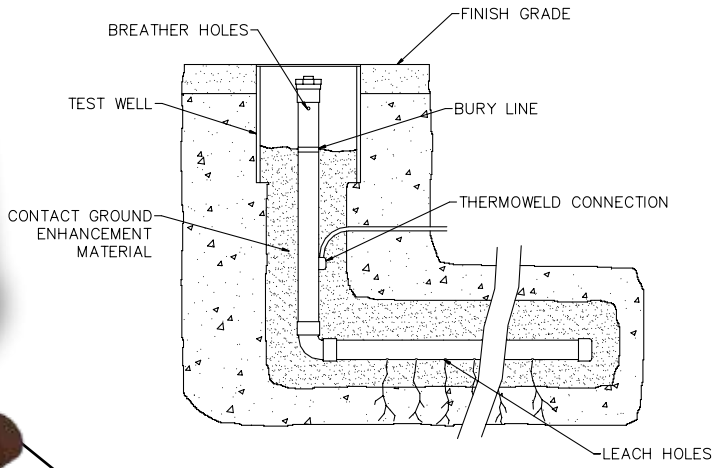
- Other sizes and conductor types available. Contact the factory for details.

APPLICATION NOTES:

- Supplied Pre-Filled.
- Chemical Ground Rods 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 LISTED CHEMICAL GROUND ROD KITS HORIZONTAL L-SHAPED







Catalog Number	Length	Inspection Well	Contact GF 25# Bag	Pigtail
38-6051-02	2′ X 10′	No	~	5′ - #2 SOL (Tinned)
38-6051-32	2′ X 10′	Yes	4	5′ - #2 SOL (Tinned)
38-6051-03	2' X 10'	No	~	5' - 2/0 STR
38-6051-33	2′ X 10′	Yes	4	5′ - 2/0 STR
38-6051-04	2' X 10'	No	~	5' - 4/0 STR
38-6051-34	2′ X 10′	Yes	4	5′ - 4/0 STR
38-6051-05	2' X 20'	No	~	5' - #2 SOL (Tinned)
38-6051-35	2′ X 20′	Yes	8	5′ - #2 SOL (Tinned)
38-6051-06	2 X 20'	No	~	5' - 2/0 STR
38-6051-36	2′ X 20′	Yes	8	5′ - 2/0 STR
38-6051-07	2' X 20'	No	~	5' - 4/0 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:

- Supplied Pre-Filled.
- Chemical Ground Rods are used in high resistivity soil conditions and when low resistance ground electrode systems are critical.
- L-shaped Chemical 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".

thermOweld® CONTACT-GM GROUND ENHANCEMENT MATERIAL

CONTACT-GM

CONTACT-GF

thermOweld® CONTACT-GF is an 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.

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

CONTACT-GF Advantages:

- Easy 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-GF Material Required Per Linear Foot of Trench

DEPTH of CONTACT-GF (Inches)	WIDTH OF TRENCH (Inches)										
	4	6	8	10	12	14	16	18	20	22	24
2	4.1	6.2	8.1	10.1	12.1	14.1	16.2	18.2	20.2	22.2	24.2
3	6.2	9.3	12.1	15.2	18.2	21.2	24.2	27.3	30.3	33.3	36.4
4	8.2	12.3	16.2	20.2	24.2	28.3	32.3	36.4	40.4	44.5	48.5
5	10.3	15.4	20.2	25.3	30.3	35.4	40.4	45.5	50.5	55.6	60.6
6	12.3	18.5	24.2	30.3	36.4	42.4	48.5	54.6	60.6	66.7	72.7
7	14.4	21.6	28.3	35.4	42.4	49.5	56.6	63.7	70.7	77.8	84.9
8	16.4	24.7	32.3	40.4	48.5	56.0	64.7	72.7	80.8	88.9	97.0
9	18.5	27.8	36.4	45.5	54.6	63.7	72.7	81.8	90.9	100.0	109.1
10	20.6	30.8	40.4	50.5	60.6	70.7	80.8	90.9	101.0	111.1	121.2

To calculate the lbs of material required to-fill a trench

1. Determine desired thickness
2. Move to the right until you are under the known width of the trench. This number will be the weight of the material lbs/linear ft.
3. Take this number and multiply by the length of the trench in feet. Your answer will be the amount of **CONTACT-GF** material required to fill the trench to the desired level in lbs.

Example:

Depth of **CONTACT-GF**	=	6 inches
Width of trench	=	18 inches
Length of trench	=	25 ft.
Answer	=	1,365 lbs of **CONTACT-GF**

1,365 lbs. = 54.6 lbs* per linear ft or 28 (50 lb) bags of **CONTACT-GF**

* From chart above.

CONTACT-GM

CONTACT-GS

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 to 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-GS Advantages:

- Easy 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 - GS 25lb	38-6502-25
CONTACT - GS 50lb	38-6502-50

CONTACT-GS Material Required Per Linear Foot of Trench

DEPTH of CONTACT-GS (Inches)	Width of Trench (Inches)										
	4	6	8	10	12	14	16	18	20	22	24
2	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.0	19.7	21.5
3	5.4	8.1	10.8	13.5	16.2	18.8	21.5	24.2	26.9	29.6	32.3
4	7.2	10.8	14.4	18.0	21.5	25.1	28.7	32.3	35.9	39.5	43.1
5	9.0	13.5	18.0	22.4	26.9	31.4	35.9	40.4	44.9	49.4	53.9
6	10.8	16.3	21.5	26.9	32.3	37.7	43.1	48.5	53.9	59.2	64.6
7	12.6	19.0	25.1	31.4	37.7	44.0	50.3	56.5	62.8	69.1	75.4
8	14.4	21.7	28.7	35.9	43.1	50.3	57.4	64.6	71.8	79	86.2
9	16.3	24.4	32.3	40.4	48.5	56.5	64.6	72.7	80.8	88.9	96.9
10	18.1	27.1	35.9	44.9	53.9	62.8	71.8	80.8	89.8	98.7	107.7

To calculate the lbs of material required to-fill a trench

1. Determine desired thickness
2. Move to the right until you are under the known width of the trench. This number will be the weight of the material lbs/linear ft.
3. Take this number and multiply by the length of the trench in feet. Your answer will be the amount of **CONTACT-GS** material required to fill the trench to the desired level in lbs.

Example:

Depth of **CONTACT-GS**	=	6 inches
Width of trench	=	18 inches
Length of trench	=	25 ft.
Answer	=	1,212 lbs of **CONTACT-GS**

1,212 lbs. = 48.5 lbs* per linear ft. or 24 (50 lb) bags of **CONTACT-GF**

* From chart above.

GROUND ACCESS WELLS

Light Duty Ground Access Well

Catalog Number	Diameter (in)	Length (in)	Cover Type
38-8128-00	6	9	HDPE
38-8129-00	9	10	HDPE
38-6627-00	10	10	HDPE
38-8130-00	10	18.875	HDPE
38-8130-01	10	18.25	Steel
38-8130-02	10	19	Steel with Steel/PC Ring



Access Well with Cast Iron Cover

Catalog Number	Diameter	Length	Cover Type
38-6344-12*	12″	12″	Cast Iron
38-6343-36	10″	36″	Cast Iron
38-6343-42	10″	42″	Cast Iron

- Schedule 80 PVC well.
- Four 27" slots allow for ground electrode connections to be made before installation of test well. * No Slots
- Cast iron cover fits into cast iron ring for extra support.



Heavy Duty Well with Cast Iron Cover

Catalog Number	Diameter	Length	Cover Type
38-6344-18	12"	18"	Cast Iron
38-6344-24	12"	24"	Cast Iron
38-6344-30	12″	30″	Cast Iron
38-6344-36	12"	36"	Cast Iron

- 12" diameter Schedule 80 PVC well.
- Cast iron cover fits into cast iron ring for extra support.
- Tier 22: Driveway, Parking lot, and off-roadway applications subject to occasional non deliberate heavy vehicular traffic.



Contact thermOweld for other options

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.

GROUND ACCESS WELLS

thermOweld® polymer concrete enclosures meet or exceed the test provisions of ANSI/SCTE 77 2013.

Testing requirements for ANSI/SCTE 77 2013 are:

- Three-Position Load testing to simulate actual application performance
- UV Degradation per ASTM G-154
- Fire Resistance per RUS 7CFR 1755.919 (PE-91)
- Chemical Resistance per ASTM D-543
- Water Absorption per ASTM D-570
- Impact Resistance per ASTM D2444
- Accelerated Service per ASTM D-756, procedure E

Stackable Access Wells

Stackable access wells are designed so they can be stacked to increase the well depth. Used for a variety of purposes, such as a splice box, pull box, equipment enclosure, or for any application requiring easy access to an underground service. The straight sides allow for easy adjustment of the box should the grade level change.



Rectangular Stackable Access Well

Catalog Number	Width	Length	Depth	Cover Type	Tier
38-8175-00	13"	24"	18"	Polymer Concrete	15
38-8171-00	13"	24"	12"	Polymer Concrete	15

Other sizes and tiers available upon request.

Tier 15: Driveway, parking lot, and off-roadway applications subject to occasional non-deliberate heavy vehicular traffic.

Square Stackable Access Well

Catalog Number	Width	Length	Depth	Cover Type	Tier
38-8131-00	8"	8"	12"	Polymer Concrete	15
38-8132-00	8"	8"	18"	Polymer Concrete	15
38-8145-00	12"	12"	12"	Polymer Concrete	15
38-8147-00	12"	12"	24"	Polymer Concrete	15

Other sizes and tiers available upon request.

Tier 15: Driveway, parking lot, and off-roadway applications subject to occasional non-deliberate heavy vehicular traffic.



GROUND ACCESS WELLS

Nestable Access Wells

Nestable access wells are designed for compact storage and are excellent for service box assemblies and offer flared design to prevent frost heave.

Nestable Access Well

Catalog Number	Width	Length	Depth	Cover Type	Tier
38-8166-00	12"	12"	24"	Polymer Concrete	15

Other sizes and tiers available upon request.
Tier 15: Driveway, parking lot, and off-roadway applications subject to occasional non-deliberate heavy vehicular traffic.



Cylindrical Access Wells

Cylindrical access wells prevent the enclosure cover from falling into the box.

Cylindrical Access Well

Catalog Number	Diameter	Depth	Cover Type	Tier
38-8185-00	27"	36"	Polymer Concrete	8

Other sizes and tiers available upon request.
Tier 8: Sidewalk applications with a safety factor for non-deliberate vehicular traffic.

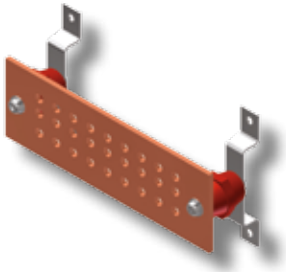


BUS BARS/GROUND BARS

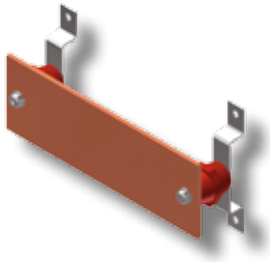
Series CB, TCB and SSB

Proper bonding is essential to create an isopotential plane between service grounds and equipment during fault and transient conditions. This isopotential plane provides a near zero voltage differential and serves to protect people and equipment during these events. The most popular bonding product in use today is the ground bar or bonding bar.

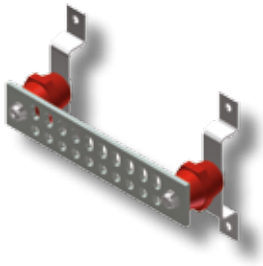
thermOweld®'s ground bars and bus bars are UL approved and produced on our state-of-the-art automated production line to give you thermOweld's famous rapid shipment and excellent quality. Virtually endless sizes and configurations, hole and slot patterns, unplated copper or tin plated, as well as stainless steel and other options with and without brackets and insulators. Customers worldwide are taking advantage of thermOweld's ground bars for a wide range of applications and unique requirements, from telecom sites to energy facilities. Please contact us with your specific needs!



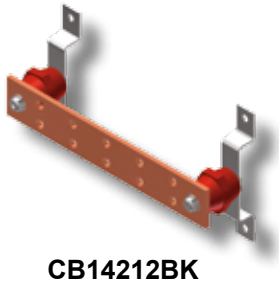
CB14412JK



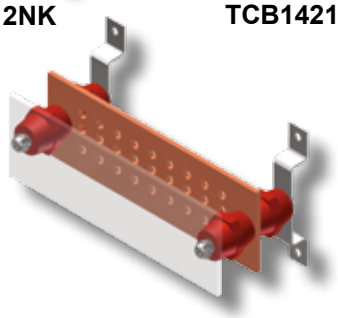
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TCB14210PK

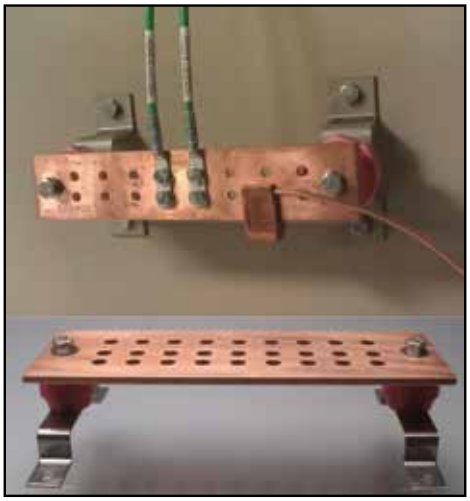


CB14212BK



CB14412JP:
Ground Bar with Plexiglas Cover

c UL us
LISTED
Grounding Equipment
12 CM



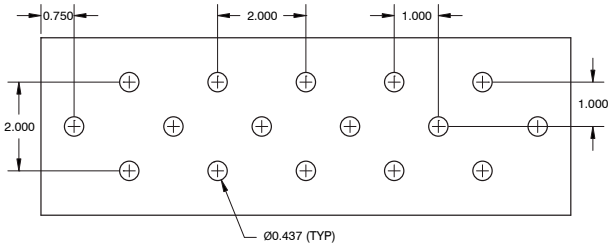
Call Today, Ship Today!

Same Day Service

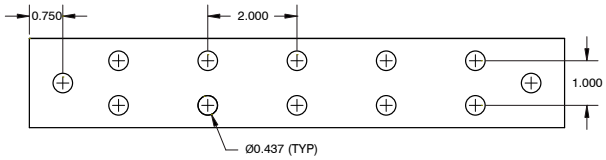
GROUND BARS BUS BARS

Catalog Number	Hole Pattern	Tinned	Bar Size	# of Holes
CB14412JK	Pattern J w/ Insulators & Brackets	No	1/4" X 4" X 12"	27
CB14412M	Pattern M	No	1/4" X 4" X 12"	48
CB14412MK	Pattern M w/ Insulators & Brackets	No	1/4" X 4" X 12"	48
CB14210P	Pattern P	No	1/4" X 2" X 10"	26
CB14210PK	Pattern P w/ Insulators & Brackets	No	1/4" X 2" X 10"	26
CB14212P	Pattern P	No	1/4" X 2" X 12"	26
CB14212PK	Pattern P w/ Insulators & Brackets	No	1/4" X 2" X 12"	26

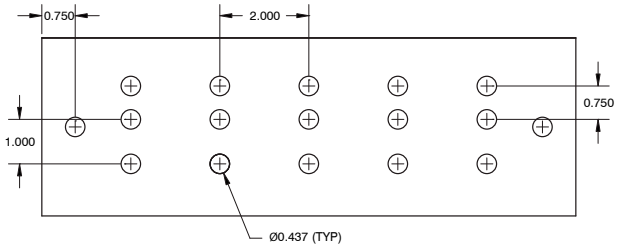
GROUND BAR HOLE PATTERNS



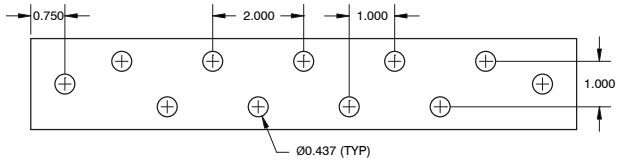
Pattern A



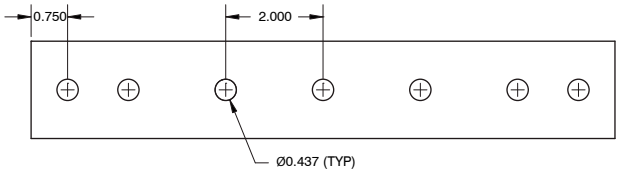
Pattern B



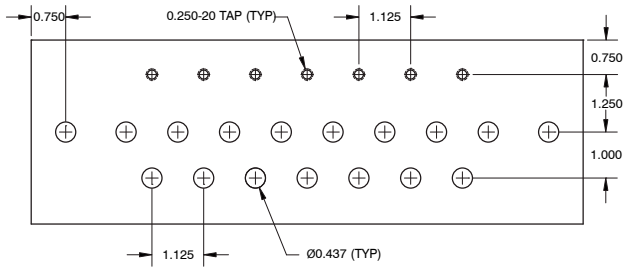
Pattern C



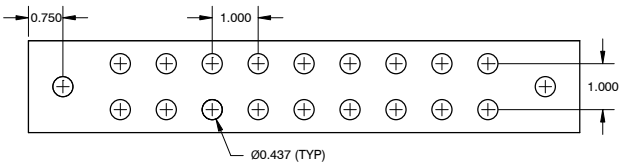
Pattern D



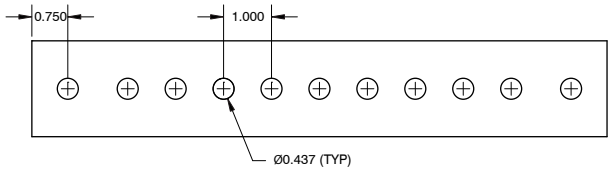
Pattern E



Pattern F



Pattern G

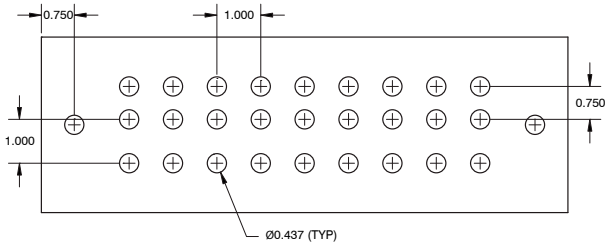


Pattern H

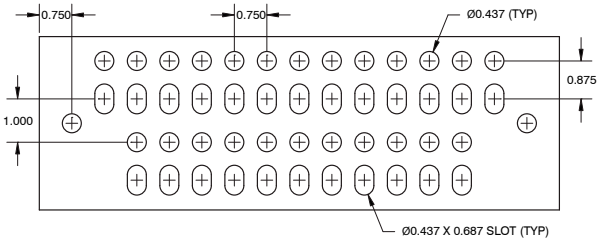
NOTES:

- 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.

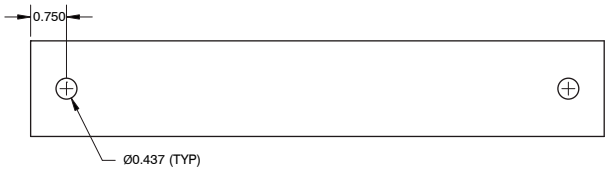
GROUND BAR HOLE PATTERNS



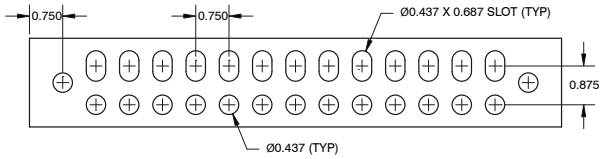
Pattern J



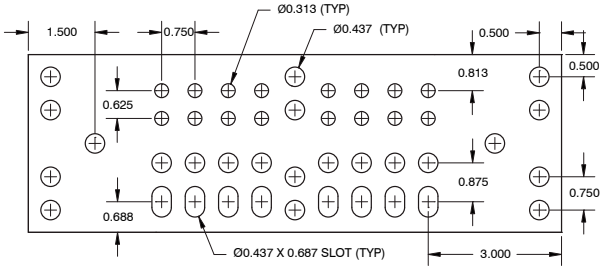
Pattern M



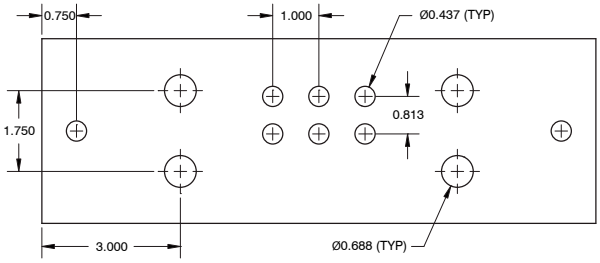
Pattern N



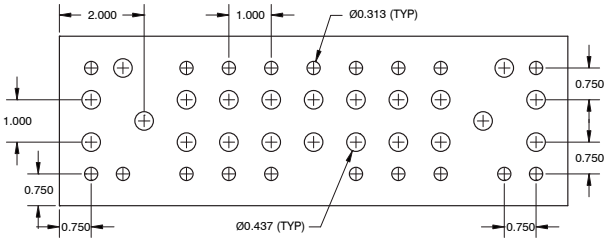
Pattern P



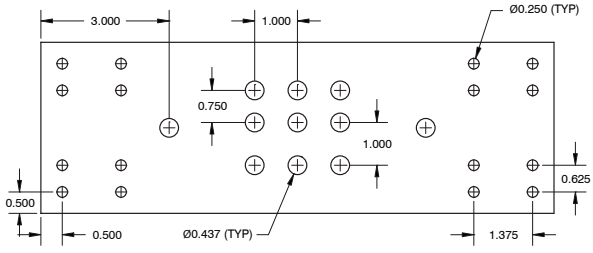
Pattern Q



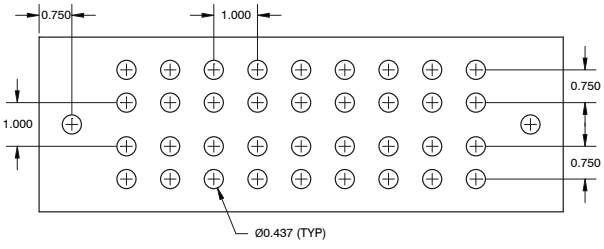
Pattern R



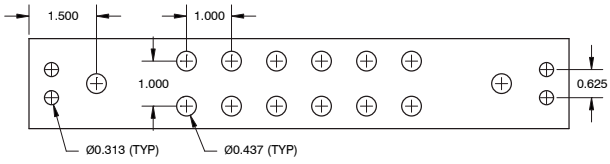
Pattern T



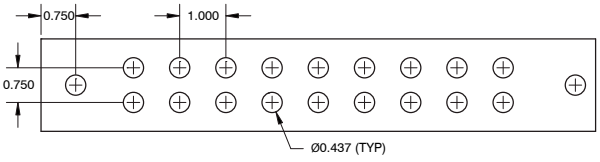
Pattern V



Pattern W



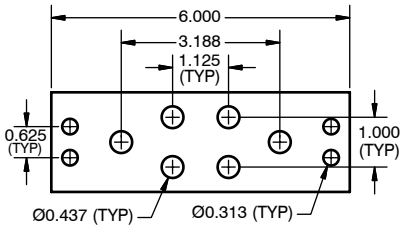
Pattern X



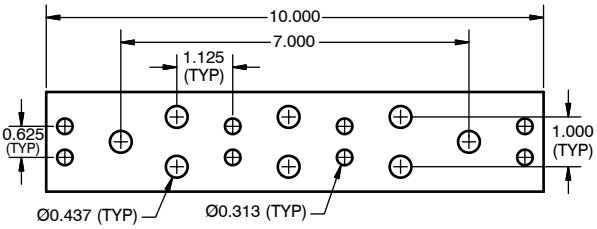
Pattern Z

NOTE: For telecom ground bar patterns (Pattern S, BICSI) See pages 184-185

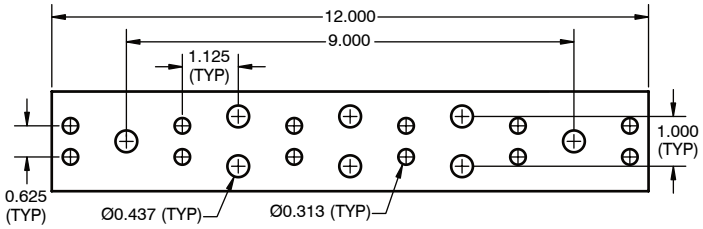
TELECOM GROUND BAR HOLE PATTERNS 2" BARS



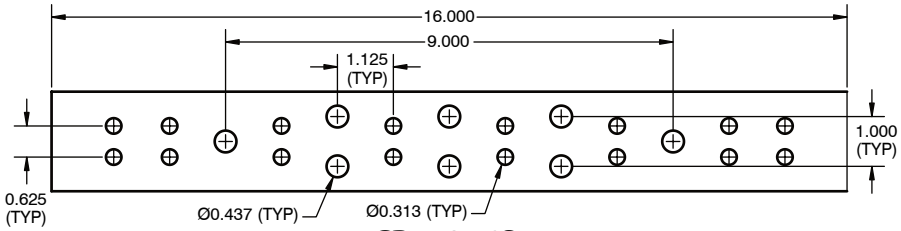
CB1426S



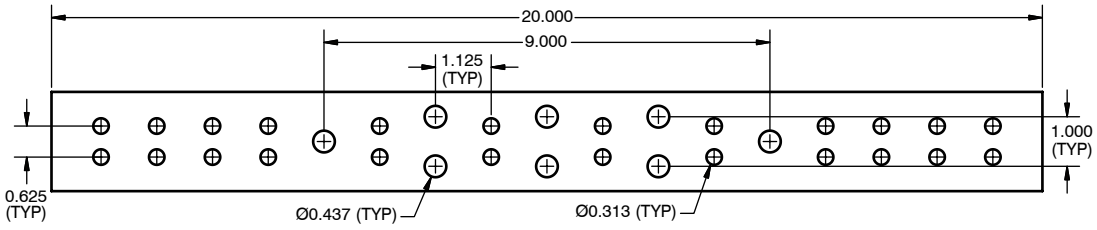
CB14210S



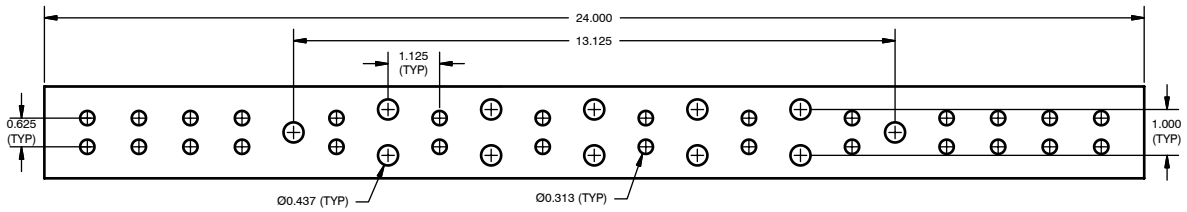
CB14212S



CB14216S

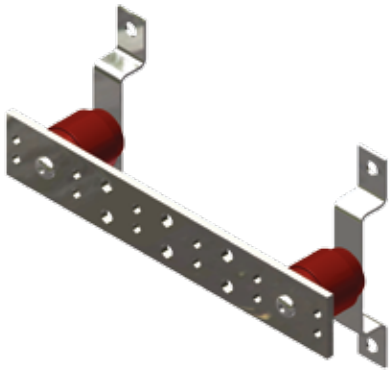


CB14220S



CB14224S

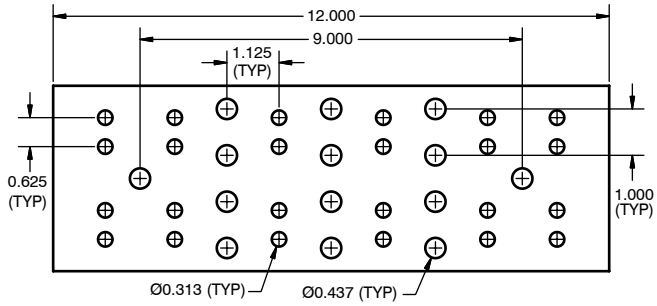
Catalog number shown is for the bar only if a kit is need add a K to the end of the catalog number.



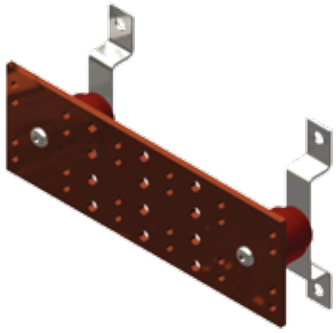
TCB14212SK

TELECOM GROUND BAR HOLE PATTERNS 4" BARS

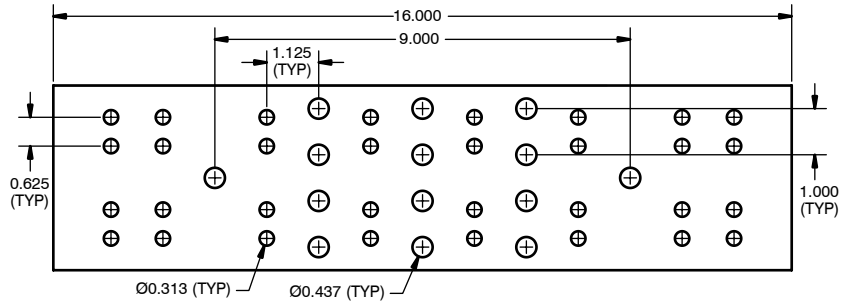
Catalog number shown is for the bar only if a kit is need add a K to the end of the catalog number.



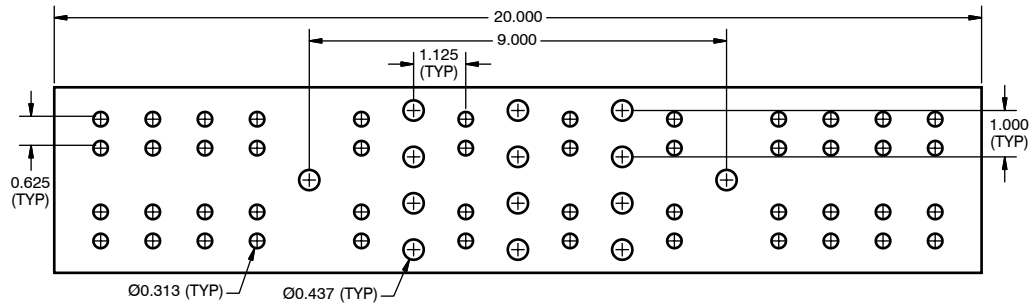
CB14412S



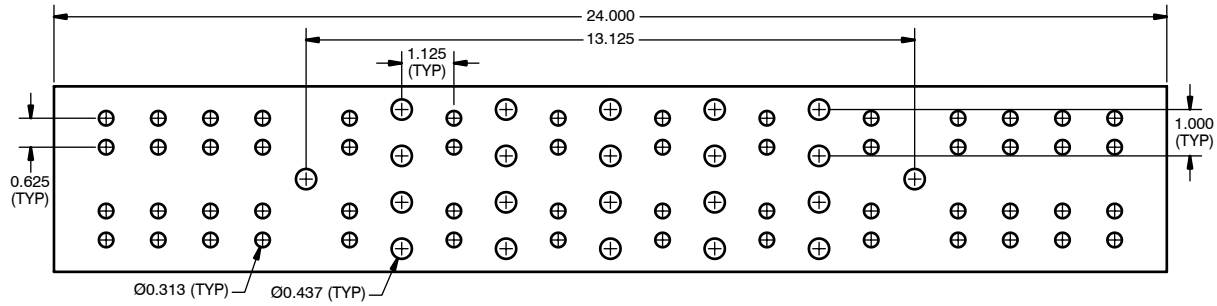
CB14412SK



CB14416S



CB14420S

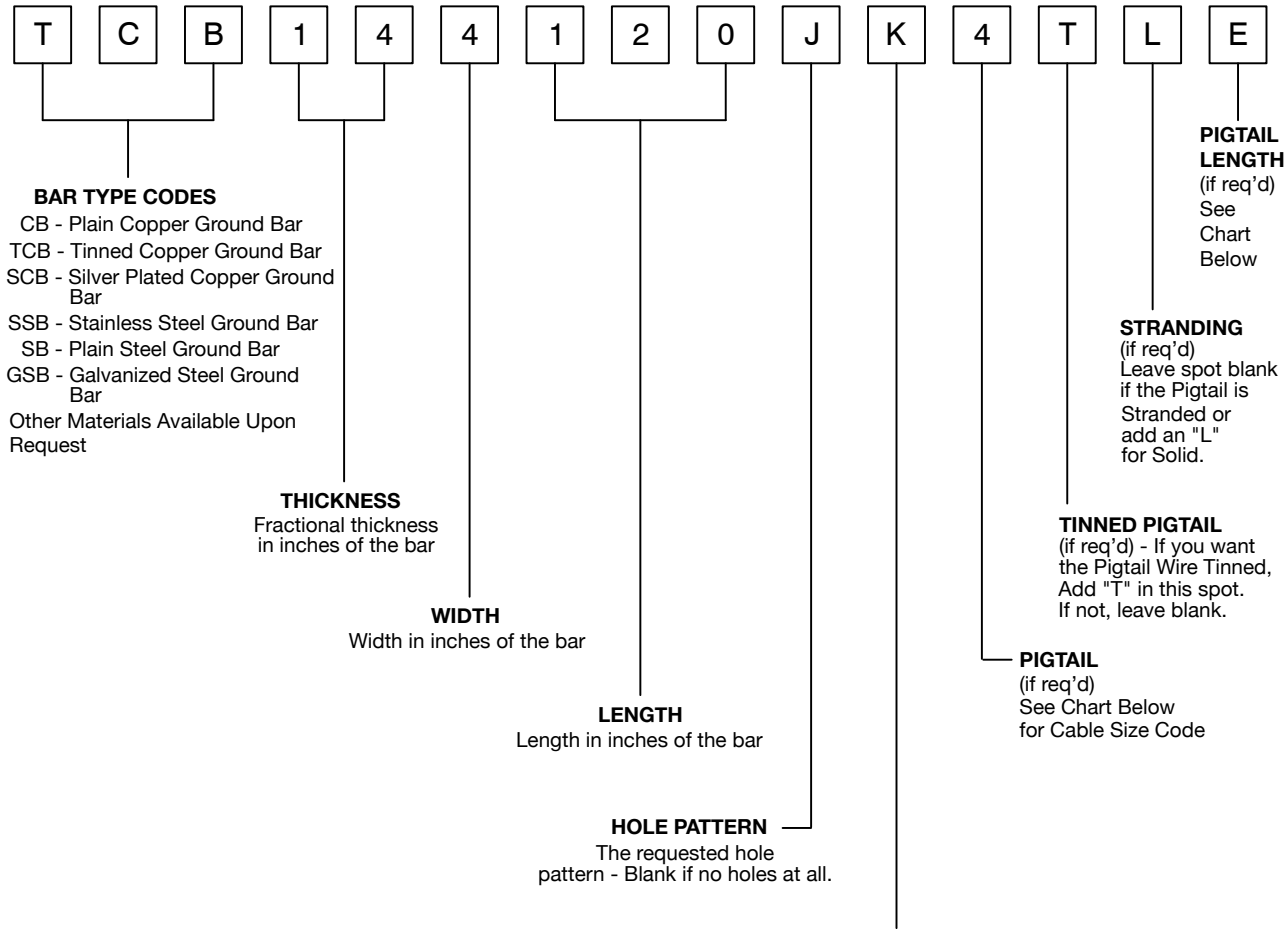


CB14424S

GROUND BARS

GROUND BAR NUMBERING SYSTEM

Below is a guide on how to understand thermOweld's ground bar numbering system. Each digit of the catalog number represents specific details of our ground bars. Please note that other sizes are available. Contact thermOweld for details.



Pigtail Cable Size Chart

Pigtail No.	Size
1	#6
2	#4
3	250 mcm
4	#2
5	#1
6	1/0
7	2/0
8	500 mcm
9	4/0

Pigtail Cable Length Chart

Pigtail Length	Length in Feet*
A	2'
B	5'
C	10'
D	15'
E	20'
F	25'
G	30'
H	35'

*Custom lengths available upon request, contact thermOweld for details.

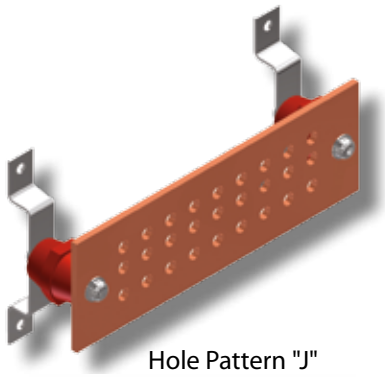
ASSEMBLY TYPE CODES

K = Brackets & Insulators
B = Brackets Only
I = Insulators Only
C = Beam Clamps & Insulators
A = Brackets & Insulators with Anti-Theft Bolts
P = Plexiglass Cover (Includes Brackets & Insulators)
T = TMGB (Telecom Main Ground Bar) Plexiglass Cover (Includes Brackets & Insulators)
M = MGB (Main Ground Bar) Plexiglass Cover (Includes Brackets & Insulators)
U = Universal (Includes Brackets, Insulators, Beam Clamps & Drive-In Anchors)
Blank for Nothing (no Brakets or Insulators- Bar Only)

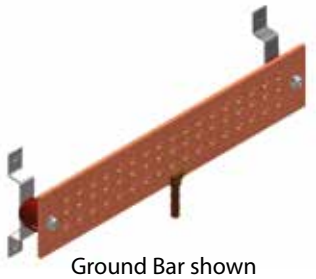
GROUND BARS

Pattern "J"				
Catalog Number	**Kit**	**Tinned**	**Bar Size**	**# of Holes**
CB14412J	Bar Only	No	1/4" X 4" X 12"	27
TCB14412J		Yes	1/4" X 4" X 12"	27
CB14412JK	Bar w/ Insulators & Brackets	No	1/4" X 4" X 12"	27
TCB14412JK		Yes	1/4" X 4" X 12"	27
CB14420J	Bar Only	No	1/4" X 4" X 20"	51
TCB14420J		Yes	1/4" X 4" X 20"	51
CB14420JK	Bar w/ Insulators & Brackets	No	1/4" X 4" X 20"	51
TCB14420JK		Yes	1/4" X 4" X 20"	51
CB14424J	Bar Only	No	1/4" X 4" X 24"	63
TCB14424J		Yes	1/4" X 4" X 24"	63
CB14424JK	Bar w/ Insulators & Brackets	No	1/4" X 4" X 24"	63
TCB14424JK		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 pigtails.
- Tamper proof bolts available.
- Plexiglas cover available.
- Other sizes available. Contact factory for details.



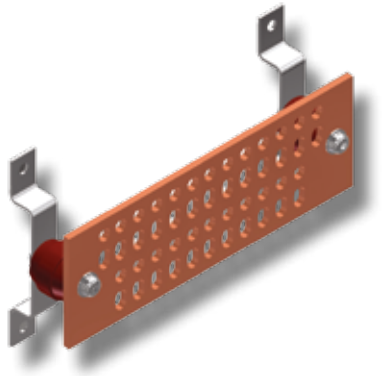
Hole Pattern "J"



Ground Bar shown with optional pigtail.

Pattern "M"				
Catalog Number	**Kit**	**Tinned**	**Bar Size**	**# of Holes**
CB14412M	Bar Only	No	1/4" X 4" X 12"	48
TCB14412M		Yes	1/4" X 4" X 12"	48
CB14412MK	Bar w/ Insulators & Brackets	No	1/4" X 4" X 12"	48
TCB14412MK		Yes	1/4" X 4" X 12"	48
CB14420M	Bar Only	No	1/4" X 4" X 20"	88
TCB14420M		Yes	1/4" X 4" X 20"	88
CB14420MK	Bar w/ Insulators & Brackets	No	1/4" X 4" X 20"	88
TCB14420MK		Yes	1/4" X 4" X 20"	88
CB14424M	Bar Only	No	1/4" X 4" X 24"	112
TCB14424M		Yes	1/4" X 4" X 24"	112
CB14424MK	Bar w/ Insulators & Brackets	No	1/4" X 4" X 24"	112
TCB14424MK		Yes	1/4" X 4" X 24"	112

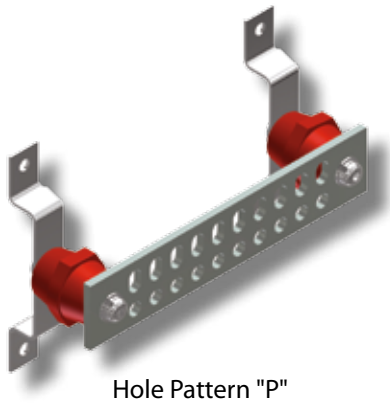
- Mounting holes not included in total.
- Accommodates two hole lugs spaced 3/4" and 1" on center.
- 12" bar pictured. Holes are 7/16" diameter and slots are 7/16" x 11/16".
- Bars available electro-tin plated.
- Tamper proof bolts available.
- Plexiglas cover available.
- Other sizes available. Contact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



Hole Pattern "M"

Pattern "P"				
Catalog Number	**Kit**	**Tinned**	**Bar Size**	**# of Holes**
CB14212P	Bar Only	No	1/4" X 2" X 12"	26
TCB14212P		Yes	1/4" X 2" X 12"	26
CB14212PK	Bar w/ Insulators & Brackets	No	1/4" X 2" X 12"	26
TCB14212PK		Yes	1/4" X 2" X 12"	26

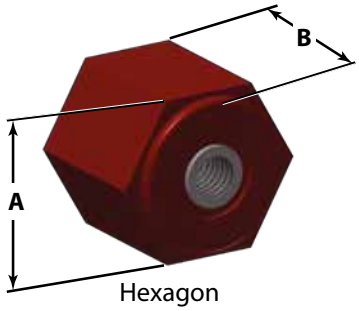
- Mounting holes not included in total.
- Accommodates two hole lugs spaced 3/4" and 1" on center.
- 12" bar pictured. Holes are 7/16" diameter and slots are 7/16" x 11/16".
- Bars available electro-tin plated.
- Tamper proof bolts available.
- Plexiglas cover available.
- Other sizes available. Contact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



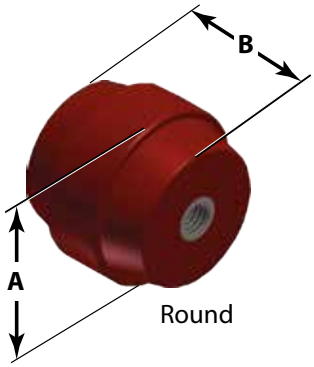
Hole Pattern "P"

c UL us
LISTED
Grounding Equipment
12 CM

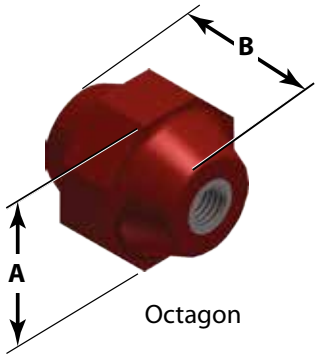
STANDOFF INSULATORS - RED



Hexagon



Round

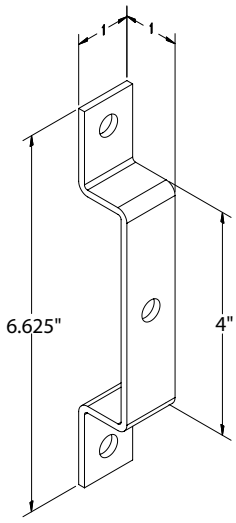


Octagon

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 5/16" AL	600
38-6330-01	1"	1 1/4"	Hex	1/4"-20 x 5/16" AL	600
38-6331-00	2"	1 1/2"	Octagon	1/4" - 20 X 7/16" STL	1500
38-6333-00	1 3/4"	2"	Round	3/8" - 16 X 9/16" STL	2500
38-6334-00	2"	2"	Octagon	1/2" - 13 X 5/8" STL	2500
38-6334-01	2"	2"	Octagon	3/8" - 16 X 9/16" STL	2500
38-7725-00	2"	2 1/4"	Octagon	3/8" - 16 X 9/16" STL	2700
38-7725-01	2"	2 1/4"	Octagon	1/2" - 13 X 5/8" STL	2700
38-6335-00	2 1/2"	2 5/8"	Octagon	5/8" - 11 X 3/4" AL	3400

MOUNTING BRACKETS



38-7228-00



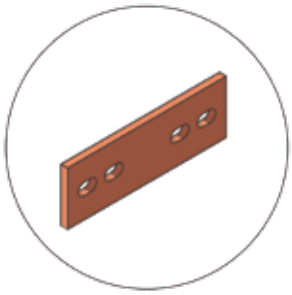
Catalog Number	Mounting Hole Size	"H"	Kit
38-7230-00	7/16"	1"	Yes
38-7228-00	7/16"	1"	No

- 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.
- Mounting Kit uses 38-6333-00 insulators

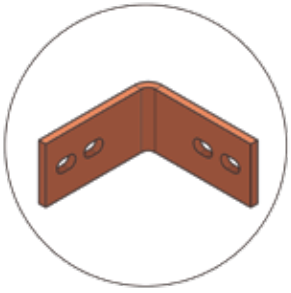
PERIMETER BUS BARS

NEW

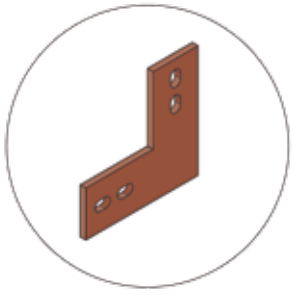
thermOweld's perimeter bus bar system is designed to terminate ground wires and cables from equipment and other devices within a structure. The system encompasses straight bars, elbows, splicers, insulators and mounting brackets. This versatile system is great for clean rooms, data centers and laboratories when designing around corners and doors. thermOweld's technical support can help with the designing of your system to meet your design criteria.



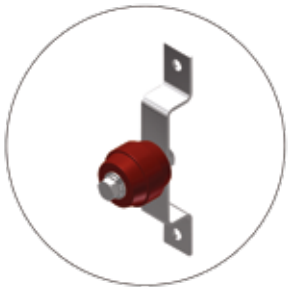
SPB Splice Plate



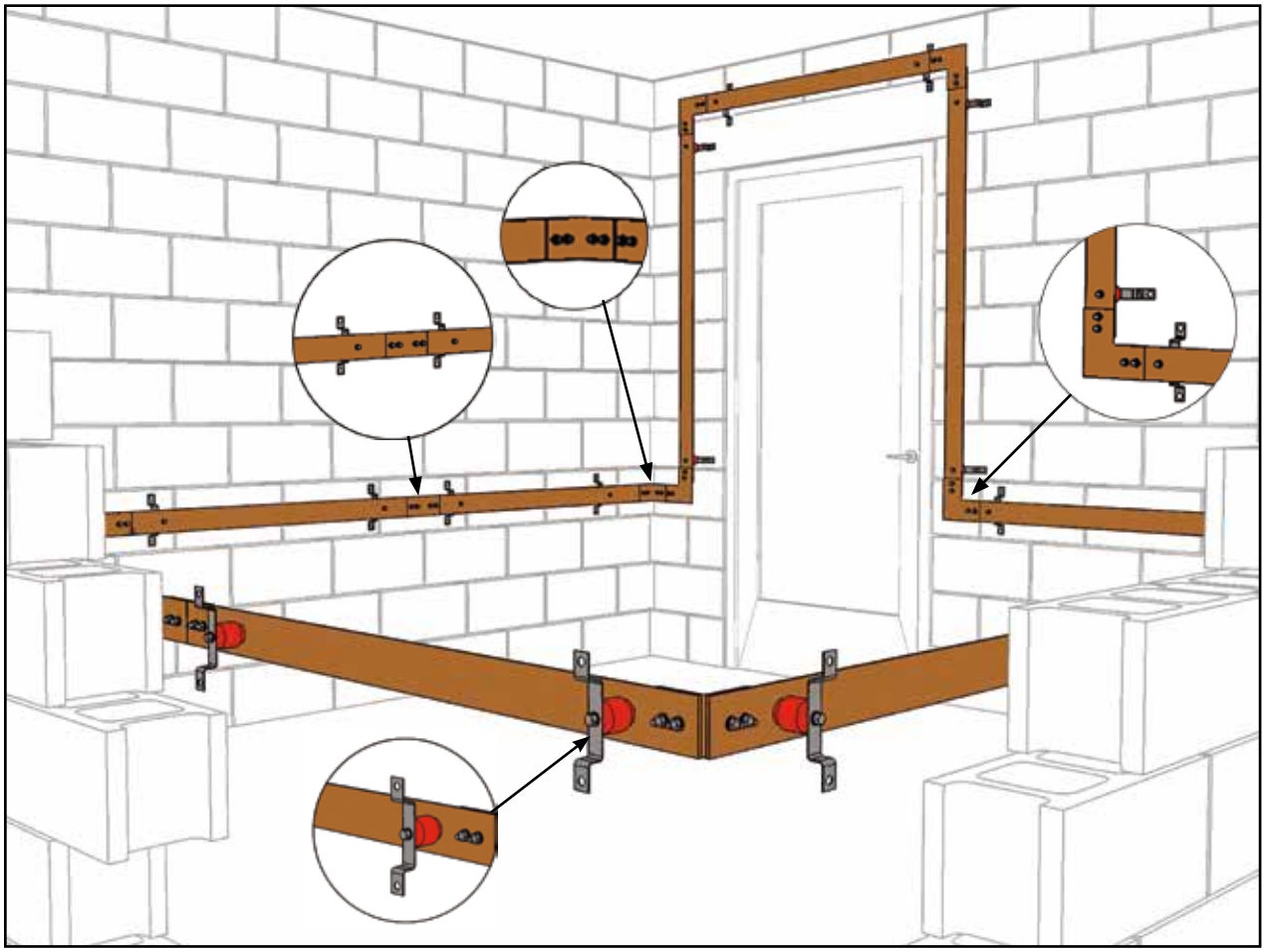
90SPB Splice Plate



PLB Splice Plate



Mounting Kit

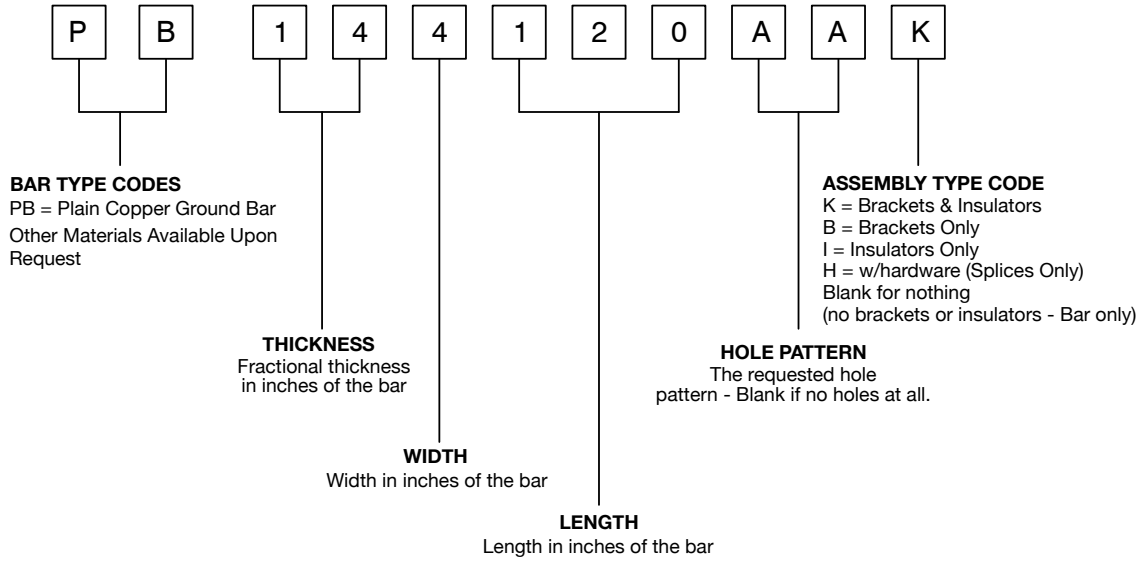


PERIMETER BUS BARS

PERIMETER BAR NUMBERING SYSTEM

Below is a guide on how to understand thermOweld's perimeter bus bar numbering system. Each digit of the catalog number represents specific details of our ground bars. Please note that other sizes are available. Contact thermOweld for details.

The example below indicates a plain copper ground bar, 1/4" thick, 10' (120") long, with hole pattern AA, with brackets and insulators.



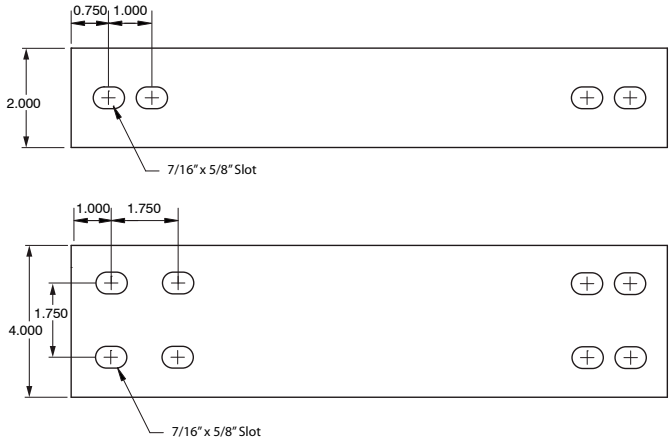
Perimeter Bus Bar Splices	
Catalog Number	**Description**
SPB1426N	2" SPB Splice Plate
SPB1426NH	2" SPB Splice Plate with Hardware*
SPB1449N	4" SPB Splice Plate
SPB1449NH	4" SPB Splice Plate with Hardware*
90PB1424N	2" 90SPB Splice Plate
90PB1424NH	2" 90SPB Splice Plate with Hardware*
90PB1446N	4" 90SPB Splice Plate
90PB1446NH	4" 90SPB Splice Plate with Hardware*
PLB1425N	2" PLB Splice Plate
PLB1425NH	2" PLB Splice Plate with Hardware*
PLB1448N	4" PLB Splice Plate
PLB1448NH	4" PLB Splice Plate with Hardware*

* Hardware consists of nuts, bolts and washers



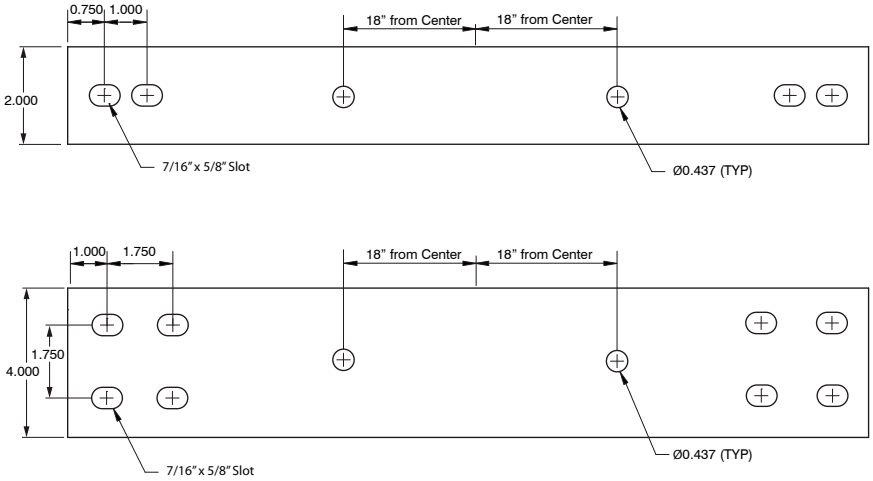
Mounting Kit
38-7230-01

PERIMETER BUS BARS



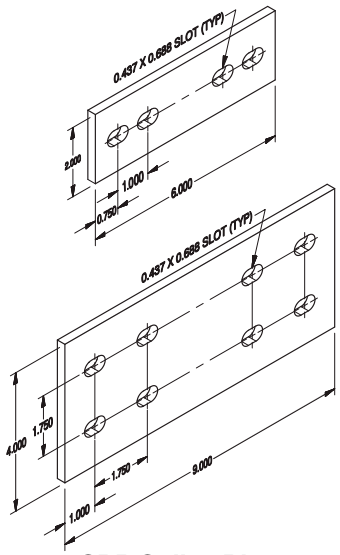
NN Pattern

No hole pattern, except mounting holes, can be made to any length.

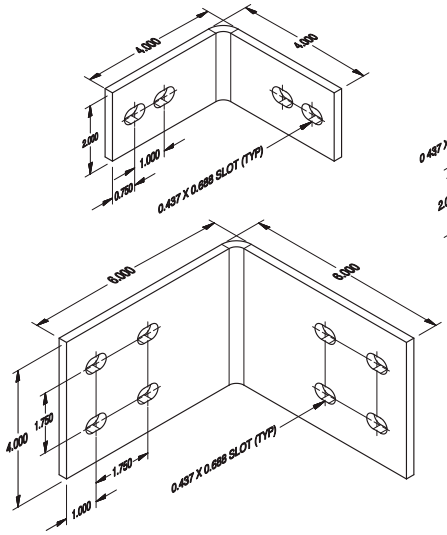


AA Pattern

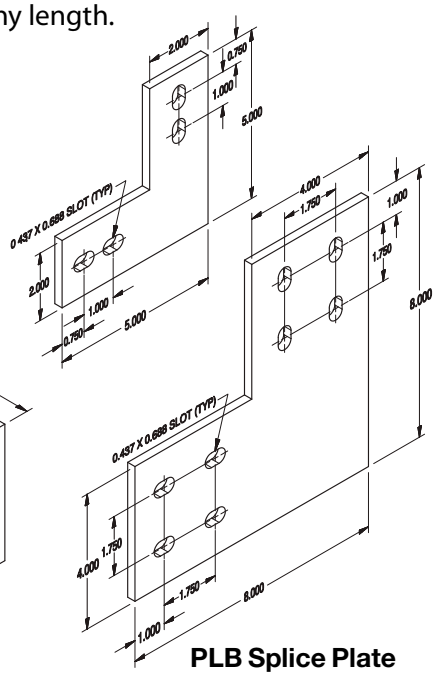
Holes are spaced 36" apart, can be made to any length.



SPB Splice Plate

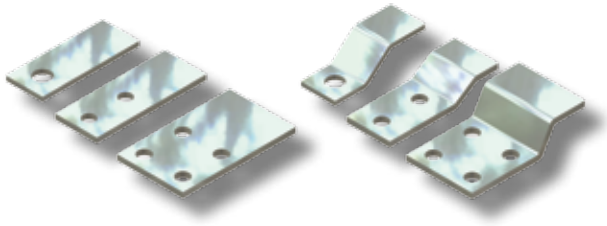


90SPB Splice Plate



PLB Splice Plate

COPPER LUGS

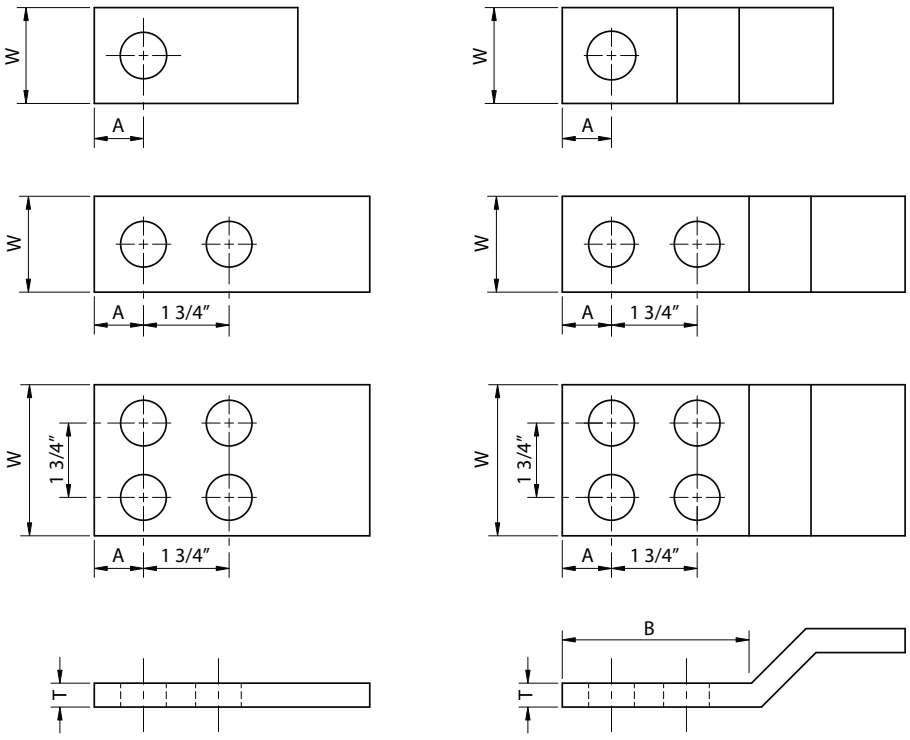


STRAIGHT AND OFFSET COPPER LUGS

thermOweld® straight & offset lugs are designed to be used with CB-1 Type Molds listed on page 62. The lugs are made from electrolytic grade copper bar stock and are tin plated. 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
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	38-4217-00	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

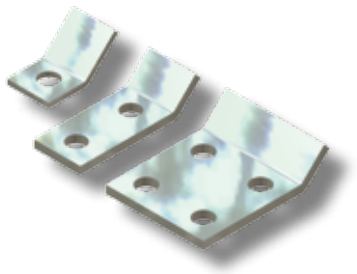
For sizes not listed, contact thermOweld®.



STRAIGHT LUG

OFFSET LUG

COPPER LUGS

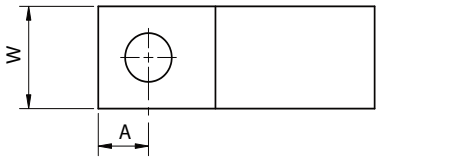


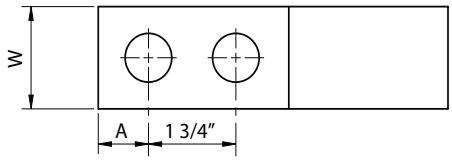
45° COPPER LUGS

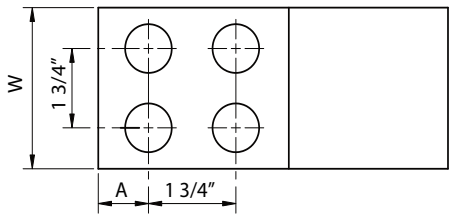
thermOweld® 45˚ lugs are designed to be used with CB-1 Type Molds listed on page 62. The lugs are made from electrolytic grade copper bar stock and tin plated. The lugs are available with one, two or four bolt holes with NEMA spacing. For lug sizes not listed, contact thermOweld®.

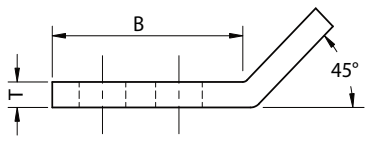
Lug Size	45° Lug Part #	# Of Holes	Bolt Size	T	W	A	B
1/8 X 1	38-4227-00	1	3/8	1/8	1	7/16	7/8
1/8 X 1	38-4229-00	2	1/2	1/8	1	5/8	3
3/16 X 1	38-4230-00	1	1/2	3/16	1	5/8	1-1/4
3/16 X 1	38-4232-00	2	1/2	3/16	1	5/8	3
1/4 X 1	38-4233-00	1	1/2	1/4	1	5/8	1-1/4
1/4 X 1	38-4235-00	2	1/2	1/4	1	5/8	3
1/4 X 1-1/2	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

For sizes not listed, contact thermOweld®.









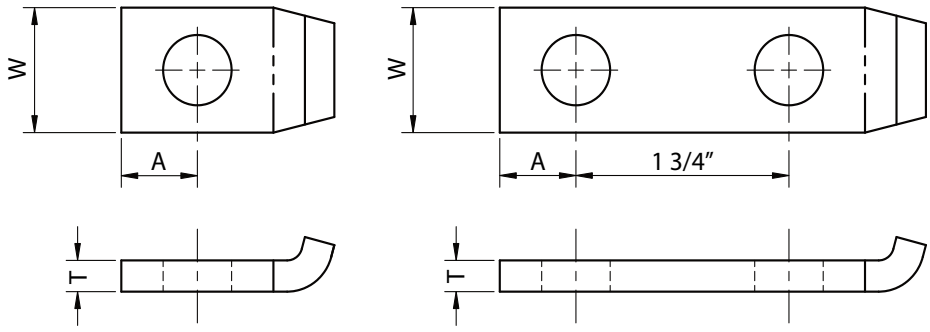
COPPER LUGS

CB-33 STYLE COPPER LUGS

thermOweld® CB-33 Style lugs are designed to be used with CB-33 Type Molds (page 63). The lugs are made from electrolytic grade copper bar stock and are tin plated. The lugs are available with one or two bolt holes with NEMA spacing. For lug sizes not listed, contact thermOweld®.

Lug Size	Lug Part #	# Of Holes	Bolt Size	T	W	A
1/8 X 1	38-4294-00	1	1/2	1/8	1	5/8
1/8 X 1	38-3575-00	2	1/2	1/8	1	5/8
3/16 X 1	38-4293-00	1	1/2	3/16	1	5/8
3/16 X 1	38-4297-00	2	1/2	3/16	1	5/8
1/4 X 1	38-4295-00	1	1/2	1/4	1	5/8
1/4 X 1	38-4298-00	2	1/2	1/4	1	5/8
1/4 X 1-1/2	38-4296-00	1	1/2	1/4	1-1/2	5/8
1/4 X 1-1/2	38-4299-00	2	1/2	1/4	1-1/2	5/8

For sizes not listed, contact thermOweld®.



PREFABRICATED LUG BONDS

COPPER LUG BONDS

Prefabricated Lug Bonds and Lug Stub Bonds are made to your specifications. Typical uses for Prefabricated Lug Bonds include cable tray bonding and grounding, structure bonds, surge arrester leads and power jumpers.

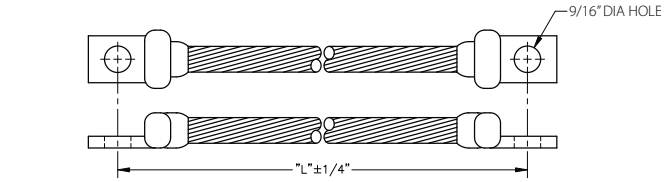


Figure 1

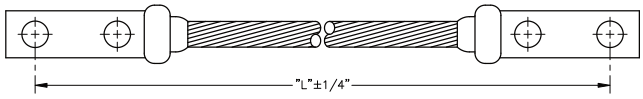


Figure 2

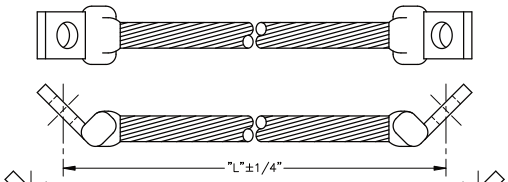


Figure 3

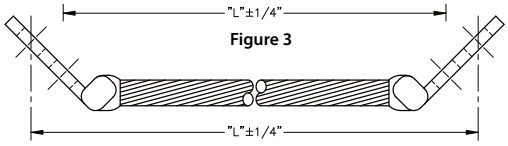


Figure 4

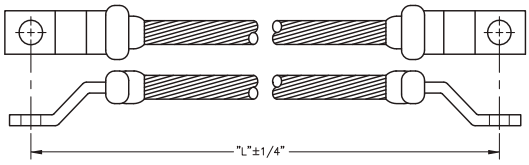


Figure 5

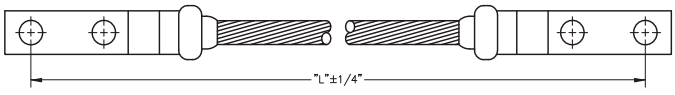
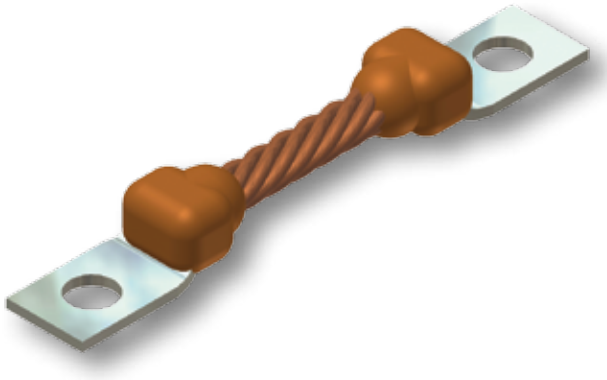


Figure 6



LUG BONDS							
Cable Size	Lug Size	One Hole Figure 1	Two Hole Figure 2	One Hole 45° Figure 3	Two Hole 45° Figure 4	One Hole Offset Figure 5	Two Hole Offset Figure 6
#4	1/8 X 1	38-5672-"L"	38-5673-"L"	38-5674-"L"	38-5675-"L"	38-7311-"L"	TBD
#2	1/8 X 1	38-5676-"L"	38-5677-"L"	38-5678-"L"	38-5679-"L"	TBD	TBD
#1	1/8 X 1	38-5680-"L"	38-5681-"L"	38-5682-"L"	38-5683-"L"	TBD	TBD
1/0	1/8 X 1	38-5684-"L"	38-5685-"L"	38-5686-"L"	38-5687-"L"	TBD	TBD
2/0	1/8 X 1	38-5688-"L"	38-5689-"L"	38-5690-"L"	38-5691-"L"	TBD	TBD
4/0	3/16 X 1	38-5692-"L"	38-5693-"L"	38-5694-"L"	38-5695-"L"	TBD	TBD
250 MCM	3/16 X 1	38-5696-"L"	38-5697-"L"	38-5698-"L"	38-5699-"L"	TBD	TBD

"L" = Length of Bond in inches

For sizes not listed, contact thermOweld®

PREFABRICATED LUG BONDS

COPPER LUG STUB BONDS

Prefabricated Lug Bonds and Lug Stub Bonds are made to your specifications. Typical uses for Prefabricated Lug Bonds include cable tray bonding and grounding, structure bonds, surge arrester leads and power jumpers.



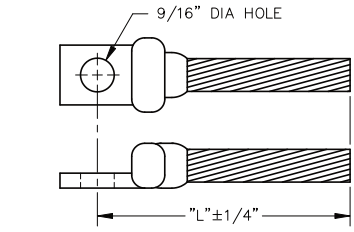


FIGURE 1

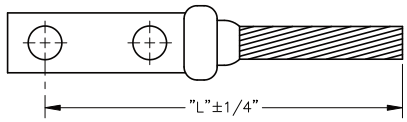


FIGURE 2

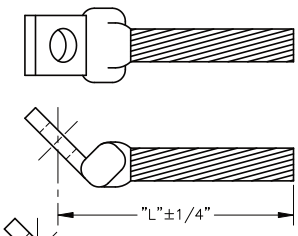


FIGURE 3

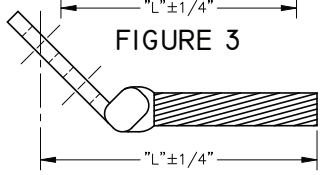


FIGURE 4

LUG STUB BONDS					
Cable Size	Lug Size	One Hole Figure 1	Two Hole Figure 2	One Hole 45° Figure 3	Two Hole 45° Figure 4
#4	1/8 X 1	38-5700-"L"	38-5701-"L"	38-5702-"L"	38-5703-"L"
#2	1/8 X 1	38-5704-"L"	38-5705-"L"	38-5706-"L"	38-5707-"L"
#1	1/8 X 1	38-5708-"L"	38-5709-"L"	38-5710-"L"	38-5711-"L"
1/0	1/8 X 1	38-5712-"L"	38-5713-"L"	38-5714-"L"	38-5715-"L"
2/0	1/8 X 1	38-5716-"L"	38-5717-"L"	38-5718-"L"	38-5719-"L"
4/0	3/16 X 1	38-5720-"L"	38-5721-"L"	38-5722-"L"	38-5723-"L"
250 MCM	3/16 X 1	38-5724-"L"	38-5725-"L"	38-5726-"L"	38-5727-"L"

"L" = Length of Bond in inches
For sizes not listed, contact thermOweld®

REBAR BONDS

Rebar Bonding Assemblies consist of Rebar cut to 18" long, with 5' long copper wire attached to the center of the rebar using our CRE-1 exothermic connection.



Rebar Size	Cable Size\Code	Catalog #
#4 x 18"	Q* x 5'	38-7319-00
#4 x 18"	D* x 5'	38-7304-00
#4 x 18"	4/0 x 5'	38-6875-00

* See page 104 for lightning protection cable code.
Contact thermOweld for other cable sizes and custom configurations

UL LISTED PREFABRICATED COPPER GROUND MESH

Prefabricated wire mesh is a simple and cost effective method of enhancing ground systems. Our Prefabricated wire mesh is used in the telecommunication industry to improve grounding and reduce electromagnetic interference. It is also used in power plants and sub-station facilities to reduce potential injury due to electrical discharge.

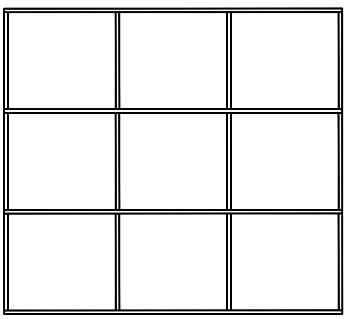
We manufacture our ground mesh from solid copper or copper clad steel wire. The wire size range from #10 AWG to #4 AWG. We offer ground mesh with no overhang and overlapping ends typical .

Otherwise known as:

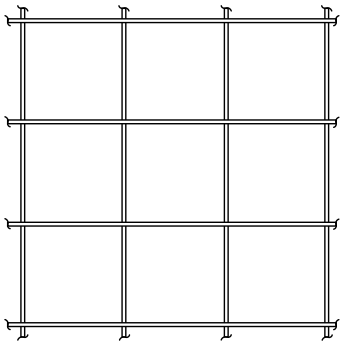
Gradient Mesh: Canadian Standards & US -Pipeline
Equipotential Mesh: NEC - Swimming Pools
Personnel Safety Mat: IEEE80
Ground Mesh: UL467

Overlapping Ends

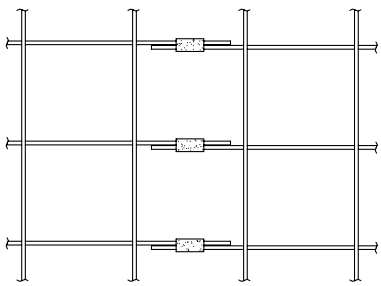
This configuration is designed to allow for side by side connections of adjoining mats; thus providing the easiest method of joining two mesh sections. Adding 2" to one half the conductor spacing provides the overlapping ends. For example, if the mesh size is 6" square, the overlapping end length is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



Without Overhang



With Overhang

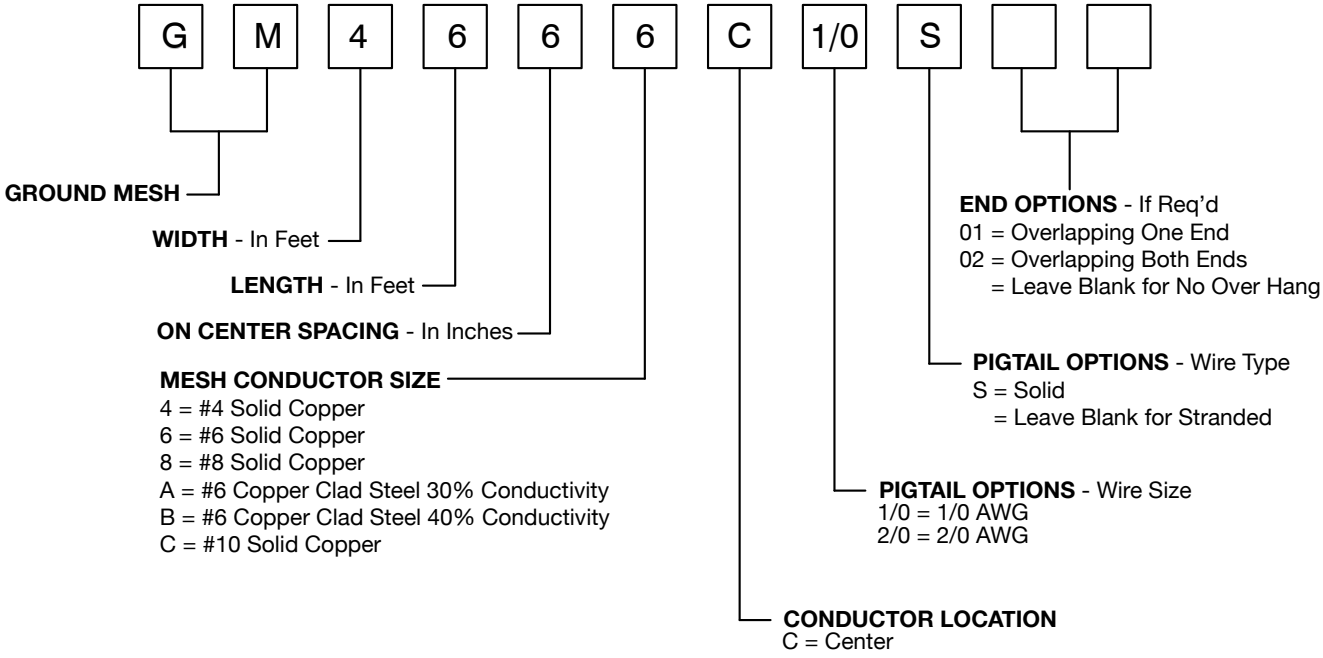


"Overlapping" ends

UL LISTED PREFABRICATED COPPER GROUND MESH

GROUND MESH NUMBERING SYSTEM

Example



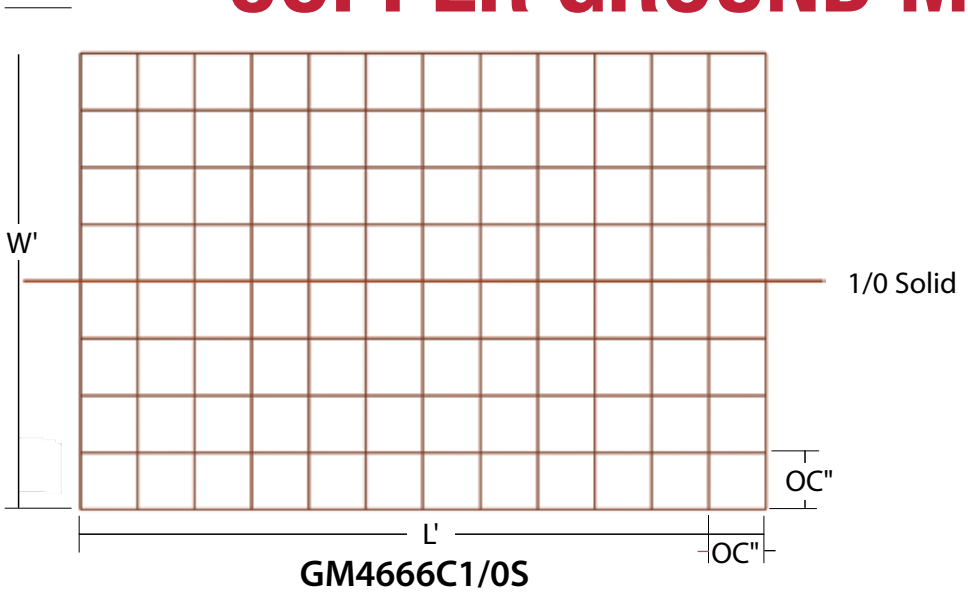
Catalog No.	Description
GM4666C1/0S	4' x 6' x 6" On Center - #6 Solid Copper - Center Conductor 1/0 Solid Pigtail
GM4666	4' x 6' x 6" On Center - #6 Solid Copper
GM468B	4' x 6' x 8" On Center - #6 Copper Clad Steel 40% Conductivity
GM105012801	10' x 50' x 12" On Center - #8 Solid Copper - with Over Hang One End
GM1230126	12' x 30' x 12" On Center - #6 Solid Copper

*Custom sizes and options available upon request, contact thermOweld for details.

NOTES:

- Overlapping ends are equal to 1/2 the spacing plus 2" Don't count overhang for total dimensions.
- Center wire conductors overhang 6" on each end.
- Typical Sizes: 4' x 4', and 4' x 6', Mesh is also available on rolls. Contact factory for details
- Silver Solder Brazed
- Minimum spacing available is 2". UL467 allows 4" to 24" spacing for listing

UL LISTED PREFABRICATED COPPER GROUND MESH

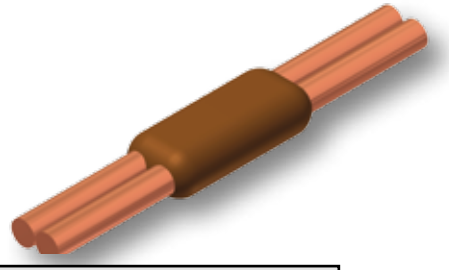


GM4666C1/0S

Type	Width (W)	Length (L)	O.C. Spacing	Conductor	Pigtail Options
G M	4	6	6	6	C 1 / 0 S
Ground Mesh	Width in Feet	Length in Feet	On Center Spacing in Inches	Conductor Size and Type	Pigtail Conductor Location, Size and Type

CC-14
TYPE MOLDS
Horizontal Parallel through Cables
For AWG Conductors

MOLDS FOR AWG CONDUCTORS						
Cable		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
#8	#8	M-1929-S	18†	15	40-4565-00	2
#8 CCS	#8 CCS	M-6210-S	18†	15	40-4565-00	2
#6	#6	M-5618-S	18†	25	40-4565-00	2
#6 CCS	#6 CCS	M-6207	18†	15	40-4565-00	2

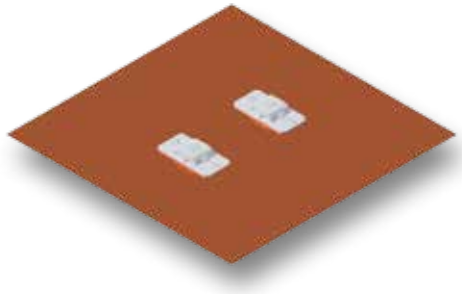


- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- CCS = Copper Clad Steel
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
  † ~ Sold complete with handles
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

COPPER GROUND PLATES

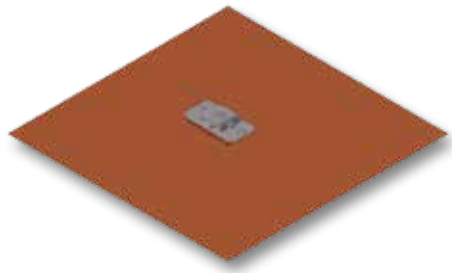
Catalog Number	Ground Plate Size	Thickness (Inches)
38-6338-00	18" X 18"	.032
38-6339-00	24" X 24"	.032

- 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.



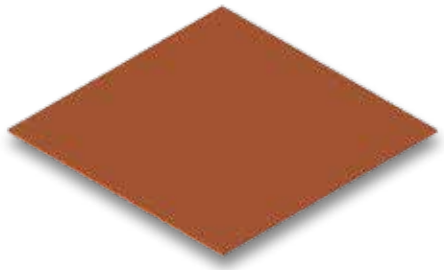
Note - "X" When ordering, please specify type of conductor to be used.

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: 38-6340-30 = 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.

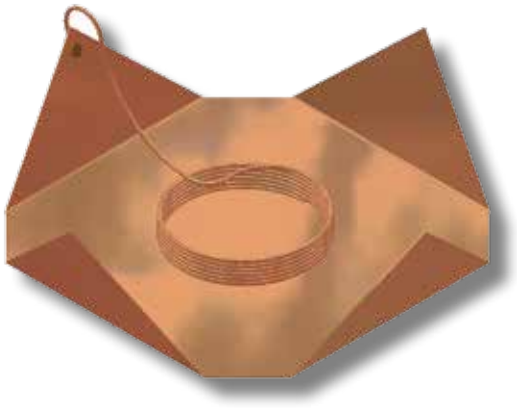
POLE PLATES

With "One Step Pole Plates," grounding pole equipment is possible without the problems of having to drive a ground rod. Just place the plate in the hole with six inches of Contact GF back fill material below and above the copper plate. Then connect the wire to the pole above the ground line. This easy process is a quick and efficient way to get the job done. See page 145 for Contact GF back fill material.

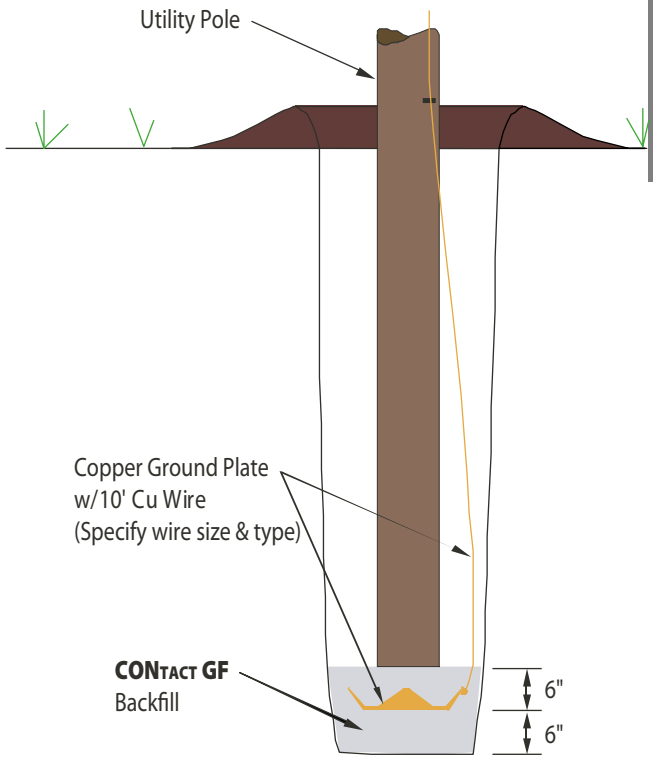
This installation is equivalent to a ground rod driven into undisturbed soil.

Features

- No need to drive a ground rod when installed as directed.
- Reduces strain and injuries.
- Reduces installation time.
- Reduces grounding errors.
- 100% Copper plate with thermOweld® pigtail.
- Saves time and money.
- Used for grounding Class 5 and larger poles.
- Different configurations available to fit smaller diameter holes.
- Meets the NESC 1997 94.c for ground plates



Catalog Number	Pigtail Size
38-5955-00	10 ft of #6 Solid
38-5955-03	10 ft of #4 Solid
38-5955-04	10 ft of #2 Stranded



T-WRAP

Part Number 38-6558-00

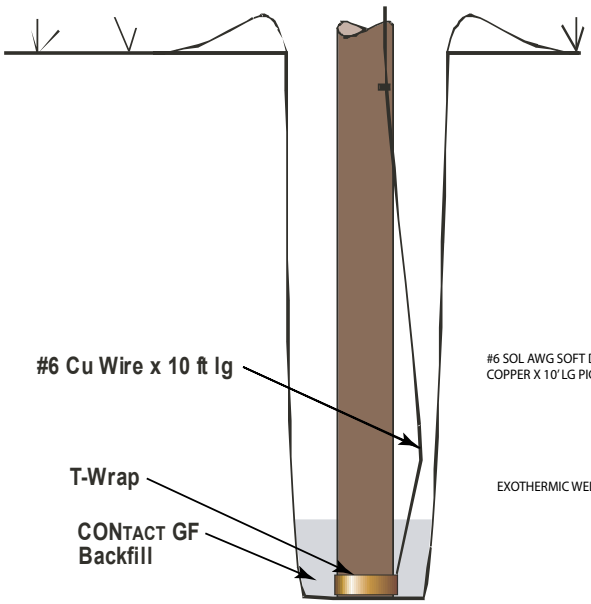
The National Electric Safety Code (NESC) requires a separate ground at any pole with a transformer installed on it. Many power companies also require a second ground at any pole with equipment. Common practice is to install a ground rod with #6 wire attached to it. This task can sometimes be a problem.

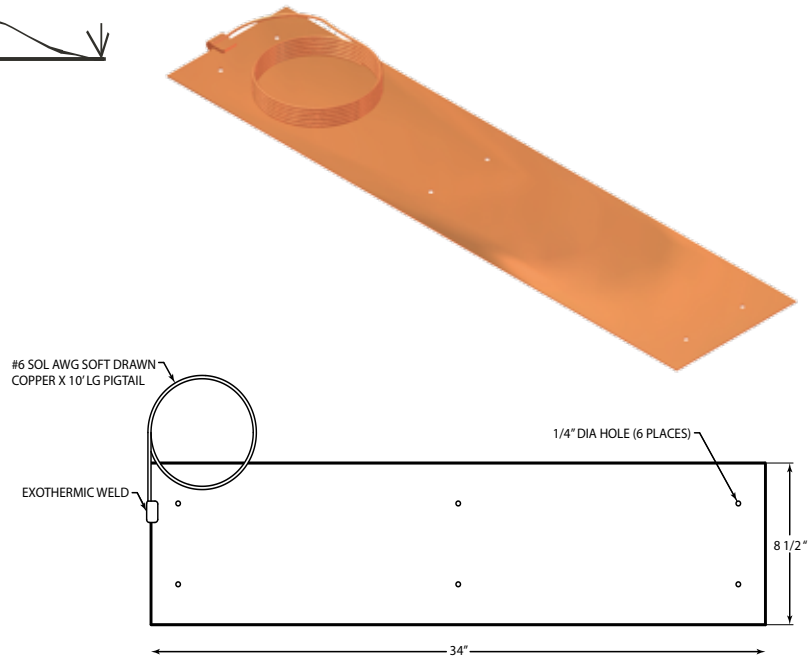
With the T-Wrap you can satisfy this requirement without the problems of driving a ground rod. Just place the plate in the pole hole with 6 inches of Contact GF back fill material below and on top of the T-Wrap. Set the pole on top of the T-Wrap and attach the #6 wire to the pole above the ground line.

This installation is equivalent to a ground rod driven into undisturbed soil.

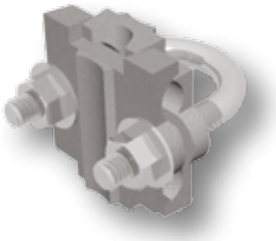
- Will fit any size wood, concrete or composite pole
- Hole does not need to be augured deeper than normal
- Does not require a larger auger than the one needed to fit pole
- Can be prepped at the yard before transfer to site
- Meets the NESC 1997 94.c for ground plates
- Reduces labor (no need to drive ground rod)
- Reduces impedance
- Works well with ground enhancing products
- Could be used to ground slab mounted transformers

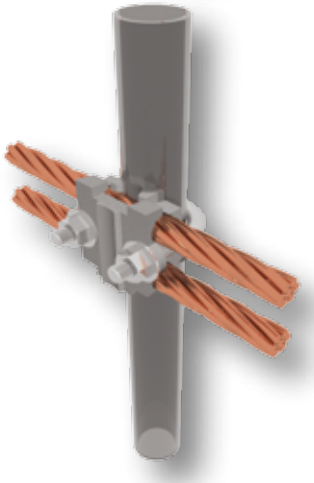






BONDING/PIPE CLAMPS





Pipe Range 0.375" - 1"

Cast U-Bolt Pipe Clamps for use with pipe or round bar.

- Manufactured from electroplated tinned bronze or aluminum.
- Wider conductor range; #6 through 250 MCM.
- Features "quick connect", bidirectional design.
- PEM® stud ensures a flush mounting surface.
- Suitable for Direct Burial.

Catalog Number	Material	Description
38-7420-00	Aluminum	1" U-Bolt Bonding Clamp - Fits .400" to 1.375" O.D. Pipe
38-7420-10	Bronze	1" U-Bolt Bonding Clamp - Fits .400" to 1.375" O.D. Pipe
38-7420-11	Tinned	1" U-Bolt Bonding Clamp - Fits .400" to 1.375" O.D. Pipe





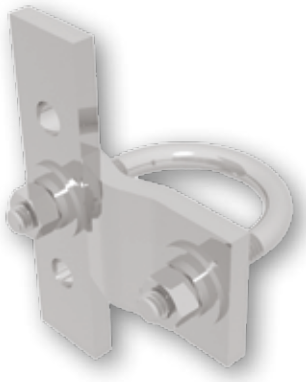
Pipe Range 2" - 8"

Catalog Number	Material	Description
38-7421-00	Aluminum	2" U-Bolt Bonding Clamp - Fits 1.315" to 2.000" O.D. Pipe
38-7421-10	Bronze	2" U-Bolt Bonding Clamp - Fits 1.315" to 2.000" O.D. Pipe
38-7421-11	Tinned	2" U-Bolt Bonding Clamp - Fits 1.315" to 2.000" O.D. Pipe
38-7422-00	Aluminum	3" U-Bolt Bonding Clamp - Fits 1.900" to 3.000" O.D. Pipe
38-7422-10	Bronze	3" U-Bolt Bonding Clamp - Fits 1.900" to 3.000" O.D. Pipe
38-7422-11	Tinned	3" U-Bolt Bonding Clamp - Fits 1.900" to 3.000" O.D. Pipe
38-7423-00	Aluminum	4" U-Bolt Bonding Clamp - Fits 2.750" to 4.500" O.D. Pipe
38-7423-10	Bronze	4" U-Bolt Bonding Clamp - Fits 2.750" to 4.500" O.D. Pipe
38-7423-11	Tinned	4" U-Bolt Bonding Clamp - Fits 2.750" to 4.500" O.D. Pipe
38-7424-00	Aluminum	6" U-Bolt Bonding Clamp - Fits 4.500" to 6.750" O.D. Pipe
38-7424-10	Bronze	6" U-Bolt Bonding Clamp - Fits 4.500" to 6.750" O.D. Pipe
38-7424-11	Tinned	6" U-Bolt Bonding Clamp - Fits 4.500" to 6.750" O.D. Pipe
38-7711-00	Aluminum	8" U-Bolt Bonding Clamp - Fits 6.000" to 8.625" O.D. Pipe
38-7711-10	Bronze	8" U-Bolt Bonding Clamp - Fits 6.000" to 8.625" O.D. Pipe
38-7711-11	Tinned	8" U-Bolt Bonding Clamp - Fits 6.000" to 8.625" O.D. Pipe

UNIVERSAL PIPE CLAMPS

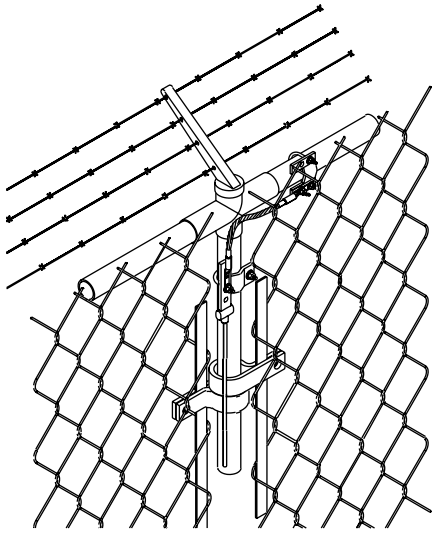
Catalog Number	Nominal Pipe Size
38-6352-00	.75″ to 1.25″
38-6353-00	1.5″ to 2″
38-6353-01	2.5″ to 3″
38-6353-02	3.5″ to 4″
38-6353-03	5″ to 6″

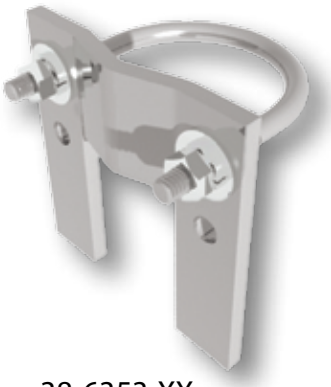
- All clamps provide 1-1/2" of contact area to ensure sufficient electrical contact for both ground fault and lightning current.
- These clamps can be connected to ground conductors via exothermic connections and/or standard compression lugs.
- Lug ends are 1/4" x 1" and have holes that are 3/8" diameter 1" on center spacing.
- The Universal Pipe Clamp 38-6352-00 provides bidirectional 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.



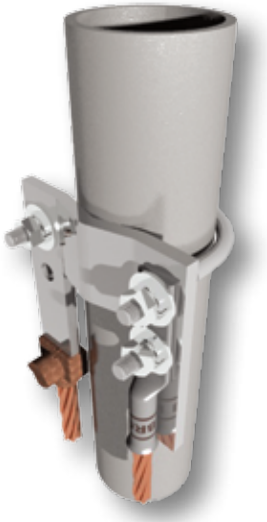
38-6352-00

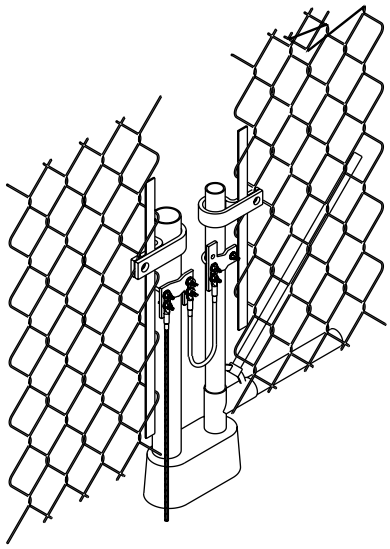






38-6353-XX





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

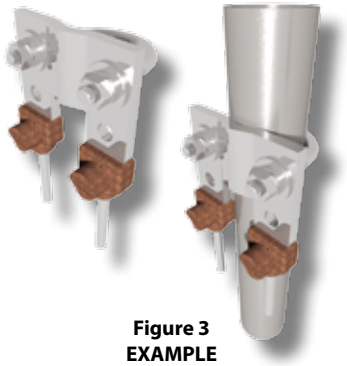


Figure 3
EXAMPLE
0000-38-6013-1D
1.5" Post
Left Ground Conductor is
#2 AWG Tinned Solid x 24" long
Right Ground Conductor is
#2 AWG Tinned Solid x 24" long

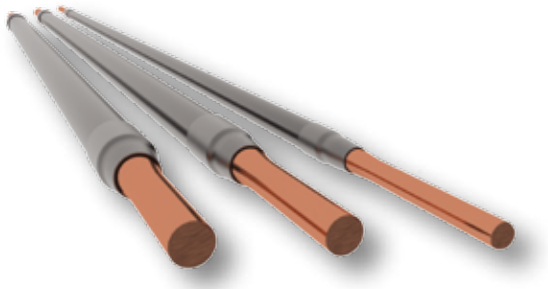
Catalog Number	Nominal Pipe Size	Figure
38-6003-†‡	Fits 3/4" to 1 1/4" Post - Left Hand	1
38-6004-†‡	Fits 3/4" to 1 1/4" Post - Right Hand	2
38-6005-†‡	Fits 1 1/2" to 2" Post - Left Hand	1
38-6006-†‡	Fits 1 1/2" to 2" Post - Right Hand	2
38-6007-†‡	Fits 2 1/2" to 3" Post - Left Hand	1
38-6008-†‡	Fits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

FLEXIBLE GATE JUMPERS



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

- 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.





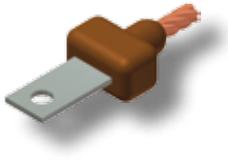
CB-1 Weld Type

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

CS-23 Weld Type

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

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



CB-1



CS-23

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	1 1/4" to 3 1/2" Pipe	M-5495	#90	4
	2" to 4" Pipe	M-7202	#90	4
4/0	1 1/4" to 4" Pipe	M-5622	#150	4

FENCE GATE ASSEMBLIES
(EXOTHERMICALLY WELDED)

0000-38-5990-D0
4" Fence Post
1.5" Gate Post
Fence Post is on the **Right**
4/0 Welding Cable Jumper x 24" 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 flexible jumper size. Contact factory for sizes not listed.

Catalog Number	Description
38-5987-D‡	24" Length, Fits 3 1/2" to 4" Gate Post X 3/4" to 1 1/4" Gate Frame - LH
38-5988-D‡	24" Length, Fits 3 1/2" to 4" Gate Post X 3/4" to 1 1/4" Gate Frame - RH
38-5989-D‡	24" Length, Fits 3 1/2" to 4" Gate Post X 1 1/2" to 2" Gate Frame - LH
38-5990-D‡	24" Length, Fits 3 1/2" to 4" Gate Post X 1 1/2" to 2" Gate Frame - RH
38-5991-D‡	24" Length, Fits 2 1/2" to 3" Gate Post X 3/4" to 1 1/4" Gate Frame - LH
38-5992-D‡	24" Length, Fits 2 1/2" to 3" Gate Post X 3/4" to 1 1/4" Gate Frame - RH
38-5993-D‡	24" Length, Fits 2 1/2" to 3" Gate Post X 1 1/2" to 2" Gate Frame - LH
38-5994-D‡	24" Length, Fits 2 1/2" to 3" Gate Post X 1 1/2" to 2" Gate Frame - RH
38-5995-D‡	24" Length, Fits 1 1/2" to 2" Gate Post X 3/4" to 1 1/4" Gate Frame - LH
38-5996-D‡	24" Length, Fits 1 1/2" to 2" Gate Post X 3/4" to 1 1/4" Gate Frame - RH

Chart A (‡)
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)



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.

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

Catalog Number	Flexible Jumper	Description	Left/Right Hand
38-6356-†‡	4/0 W/C	Fits 1 1/2" to 2" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
38-7356-†‡			Right Hand
38-6357-†‡		Fits 2 1/2" to 3" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
38-7357-†‡			Right Hand
38-6358-†‡		Fits 2 1/2" to 3" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
38-7358-†‡			Right Hand
38-6359-†‡		Fits 3 1/2" to 4" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
38-7359-†‡			Right Hand
38-6360-†‡		Fits 3 1/2" to 4" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
38-7360-†‡			Right Hand
38-6361-†‡	2/0 W/C	Fits 1 1/2" to 2" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
38-7361-†‡			Right Hand
38-6362-†‡		Fits 2 1/2" to 3" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
38-7362-†‡			Right Hand
38-6363-†‡		Fits 2 1/2" to 3" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
38-7363-†‡			Right Hand
38-6364-†‡		Fits 3 1/2" to 4" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
38-7364-†‡			Right Hand
38-6365-†‡		Fits 3 1/2" to 4" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
38-7365-†‡			Right Hand
38-6366-†‡	#2 W/C	Fits 1 1/2" to 2" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
38-7366-†‡			Right Hand
38-6367-†‡		Fits 2 1/2" to 3" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
38-7367-†‡			Right Hand
38-6368-†‡		Fits 2 1/2" to 3" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
38-7368-†‡			Right Hand
38-6369-†‡		Fits 3 1/2" to 4" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
38-7369-†‡			Right Hand
38-6370-†‡		Fits 3 1/2" to 4" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
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 come with a 24" long flexible jumper.

FENCE GATE ASSEMBLIES
(COMPRESSION LUGS)





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

- 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.

FENCE FABRIC GROUND CLAMPS

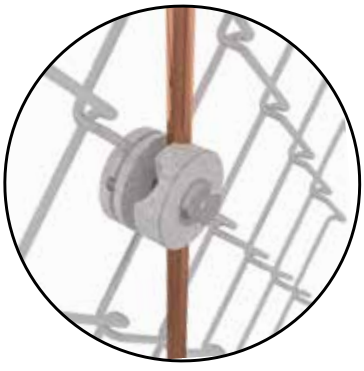
Catalog Number	Conductor Size
38-6354-00	#2
38-6354-01	#2 THRU 4/0
38-6354-02	#8
38-6354-03	#6
38-6354-04	#4
38-6354-05	2/0

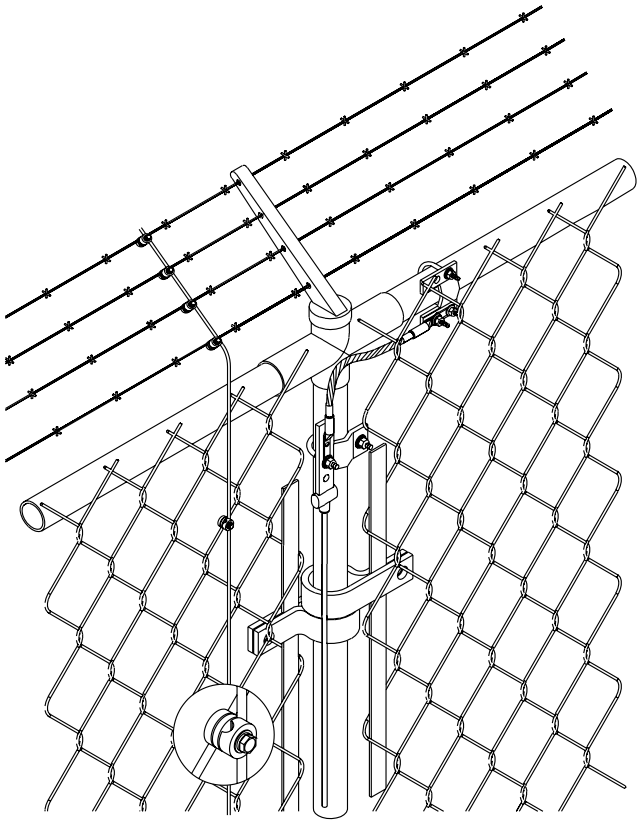


- Unique design allows clamp to form connections at most any angle.
- Specific uses include connection to both fence fabric and barbed wire.
- The conductor maintains a direct path to ground while connected to an object that is parallel, perpendicular or in any degree in between.
- Electroplated tinned 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.





SIGNAL REFERENCE GRID (SRG)

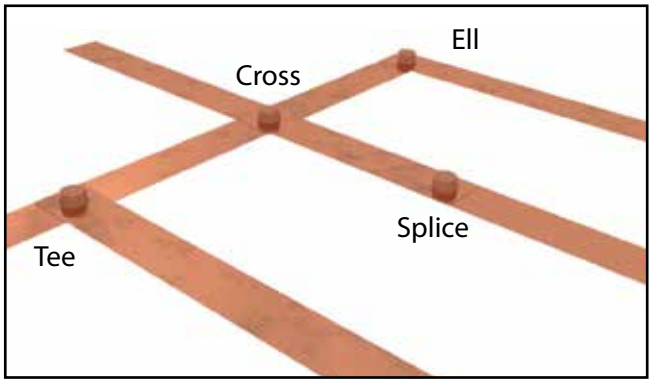
SIGNAL REFERENCE GRIDS ARE:

- Manufactured from 2" x 26 Gage copper strips
- Spaced on 2 ft centers
- Factory welded at each crossover
- Furnished in sections with widths from 4 ft to 18 ft (length limited by weight, approx. 200 lbs)
- Shipped on tubes and protected for transporting
- Interconnected in the field using thermOweld® molds and powder

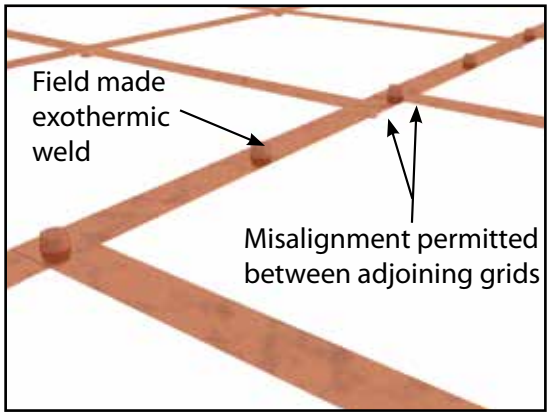
MOLDS NEEDED TO MAKE SRG CONNECTIONS

SRG Size	Weld Type	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
26 Gage X 2"	BB-46	M-6164 †	17	#32	B-106	2
26 Gage X 2"	BB-46	LE-6164 †	17	LE#32	B-106	2
1 x 40 mm & Wider	BB-46	M-9790	17	#45	B-106	2
1 x 40 mm & Wider	BB-46	LE-9790	17	LE#45	B-106	2

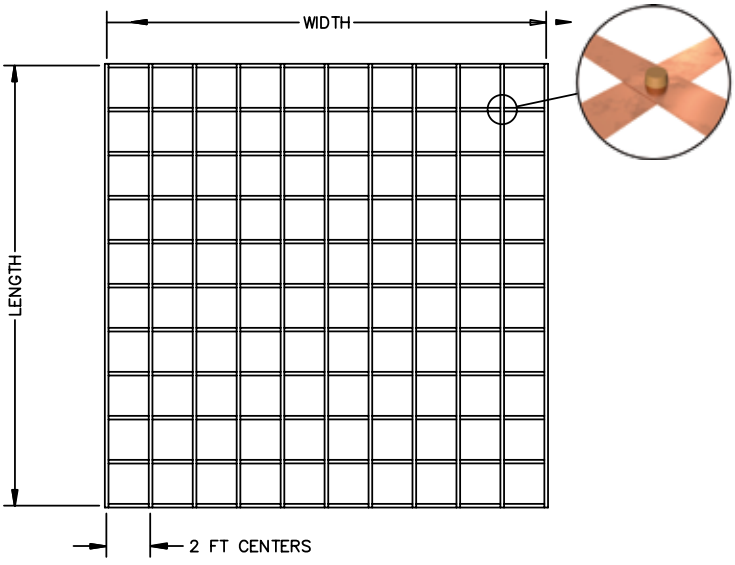
† ~ UL Listed



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



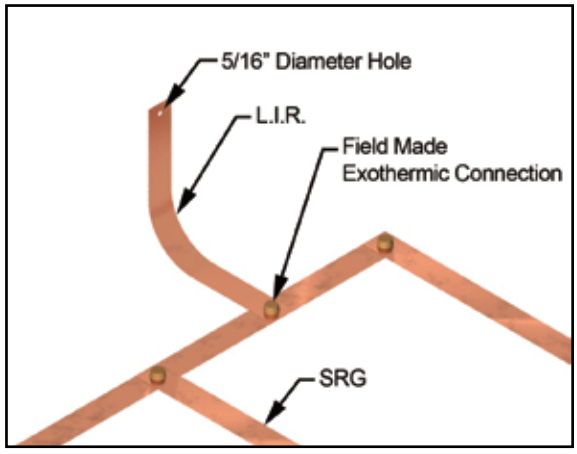
Adjoining sections of SRG are to be exothermically welded by installer using thermOweld® molds and powder



LOW IMPEDENCE RISERS (L.I.R.)

Catalog Number	Description
38-5101-"L"	Low Impedance Riser

"L" = 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.



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

CABLE TO FLOOR PEDESTALS

MOLDS FOR AWG CONDUCTORS							
Cable Size	Pedestal Type	Weld Type	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6	1" ROUND	CS-6	M-6124	33	#15	40-4565-00	2
#6	1" ROUND	CS-6	LE-6124	33	LE#15	40-4565-00	4
#6	7/8" SQUARE	CS-27	M-6125	33	#15	40-4565-00	2
#6	7/8" SQUARE	CS-27	LE-6125	33	LE#15	40-4565-00	4
#6	1" ROUND	CS-3	M-6609	33	#15	40-4565-00	2
#6	1" ROUND	CS-3	LE-6609	33	LE#15	40-4565-00	4
#6	7/8" SQUARE	CS-3	M-6610	33	#15	40-4565-00	2
#6	7/8" SQUARE	CS-3	LE-6610	33	LE#15	40-4565-00	4
#4	1" ROUND	CS-6	M-6252	33	#15	40-4565-00	2
#4	1" ROUND	CS-6	LE-6252	33	LE#15	40-4565-00	4
#4	7/8" SQUARE	CS-27	M-8502	33	#15	40-4565-00	2
#4	7/8" SQUARE	CS-27	LE-8502	33	LE#15	40-4565-00	4
#4	1" ROUND	CS-3	M-6783	33	#15	40-4565-00	4
#4	1" ROUND	CS-3	LE-6783	33	LE#15	40-4565-00	4
#4	7/8" SQUARE	CS-3	M-6784	33	#15	40-4565-00	4
#4	7/8" SQUARE	CS-3	LE-6784	33	LE#15	40-4565-00	4
#2	1" ROUND	CS-6	M-8863	33	#15	40-4565-00	2
#2	1" ROUND	CS-6	LE-8863	33	LE#15	40-4565-00	4
#2	7/8" SQUARE	CS-27	M-8743	33	#15	40-4565-00	4
#2	7/8" SQUARE	CS-27	LE-8743	33	LE#15	40-4565-00	4
#2	1" ROUND	CS-3	M-6785	33	#15	40-4565-00	4
#2	1" ROUND	CS-3	LE-6785	33	LE#15	40-4565-00	4
#2	7/8" SQUARE	CS-3	M-6786	33	#15	40-4565-00	4
#2	7/8" SQUARE	CS-3	LE-6786	33	LE#15	40-4565-00	4



Bonding conductor exothermically welded to round and square floor pedestals

CABLE TO (SRG)CONNECTIONS



MOLDS FOR AWG CONDUCTORS						
Cable Size	Weld Type	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6	CB-34	M-2763	4	#25	B-106	2
#6	CB-34	LE-2763	4	LE#25	B-106	4
#4	CB-34	M-6253	4	#32	B-106	2
#4	CB-34	LE-6253	4	LE#32	B-106	4
#2	CB-34	M-6254	4	#32	B-106	2
#2	CB-34	LE-6254	4	LE#32	B-106	4
1/0	CB-34	M-5454	4	65	B-106	2
1/0	CB-34	LE-5454	4	LE65	B-106	4
2/0	CB-34	M-8583	4	#65	B-106	2
2/0	CB-34	LE-8583	4	LE#65	B-106	4

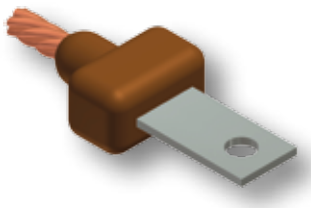
CABLE TO VERTICAL STEEL CONNECTIONS



MOLDS FOR AWG CONDUCTORS						
Cable Size	Weld Type	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6	CS-3	M-8848 †	18	#25	40-4565-00	2
#6	CS-3	LE-8848 †	19	LE#25	40-4565-00	4
#4	CS-3	M-586	4	#45	B-106	2
#4	CS-3	LE-586	4	LE#45	B-106	4
#2	CS-3	M-588	4	#45	B-106	SDS
#2	CS-3	LE-588	4	LE#45	B-106	4

† Requires 38-0202-00 copper adapter sleeve

CABLE TO LUG CONNECTION



MOLDS FOR AWG CONDUCTORS						
Cable Size	Weld Type	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6	CB-1	M-6255	18	#25	40-4565-00	2
#6	CB-1	LE-6255	19	LE#25	40-4565-00	4
#4	CB-1	M-6257	18	#25	40-4565-00	4
#4	CB-1	LE-6257	19	LE#25	40-4565-00	4
#2	CB-1	M-6258	18	#32	40-4565-00	4
#2	CB-1	LE-6258	19	LE#3	40-4565-00	2

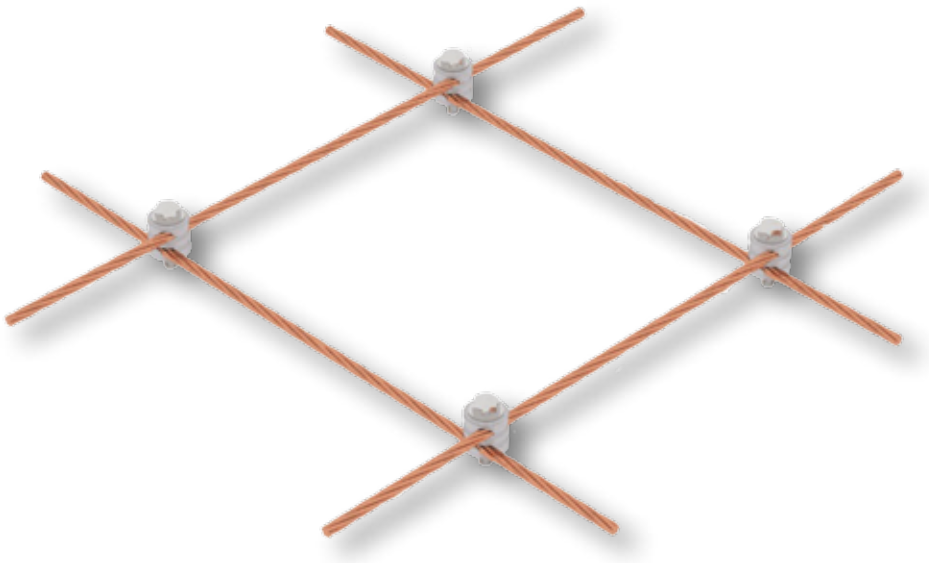
1/16" x 1/2" lug with 1/4" dia hole - Part #38-4709-00
Contact factory for other lug sizes.

COMPUTER ROOM GROUND CLAMPS



Catalog Number	Conductor Size
38-6348-00	#6 STR
38-6348-01	#4 STR
38-6348-02	#2 STR

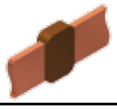
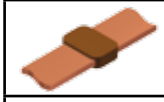
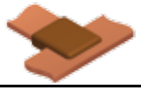
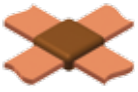
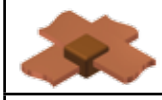
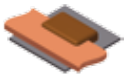
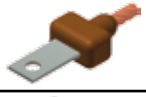
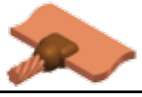
Used when welded connections are not feasible.
Unique design allows clamps to form connections at most any angle.
Specific uses include fabrication under an existing computer room floor.

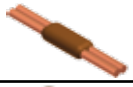
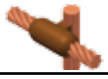


Section 9
Molds for use with Metric Conductors

	Description	Page #
9.1	Cable to Cable Connections	217-221
9.2	Cable to Ground Rod Connections	222-224
9.3	Ground Rod to Ground Rod Connections	224
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MOLDS - METRIC

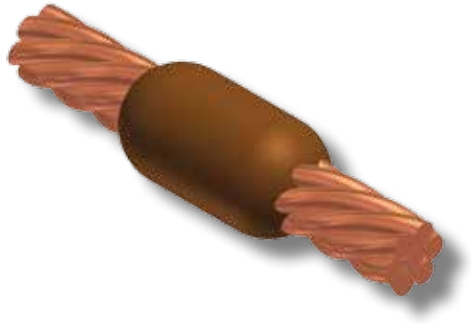
Weld Type		Page #
	BB-1	247
	BB-2	249
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	BB-14	248
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Weld Type		Page #
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Weld Type		Page #
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	CP Weld Metal	242

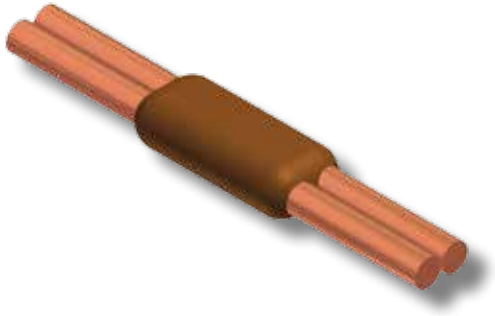
CC-1
TYPE MOLDS
Horizontal End to End
For Metric Conductors

MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm^2)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	M-10038	4	15	B-106	2
16	M-10040	4	25	B-106	2
25	M-3004	4	32	B-106	2
30	M-2842	4	32	B-106	2
35	M-3005	4	32	B-106	2
50	M-3006	4	45	B-106	2
8 mm Ø	M-2849	4	45	B-106	2
70	M-3008	4	65	B-106	2
10 mm Ø	M-2910	4	65	B-106	2
95	M-3010	4	90	B-106	2
120	M-3011	4	115	B-106	2
150	M-3012	4	115	B-106	2
185	M-3013	4	150	B-106	2
240	M-3014	4	200	B-106	2
300	M-3015	4	250	B-106	2



CC-14
TYPE MOLDS
Horizontal Parallel through Cables
For Metric Conductors

MOLDS FOR METRIC CONDUCTORS						
Cable (mm^2)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
10	10	M-10698	4	45	B-106	4
16	16	M-10699	4	65	B-106	4
25	25	M-10700	4	45	B-106	4
30	30	M-10701	4	45	B-106	4
35	35	M-10702	4	65	B-106	2
	25	M-10703	4	65	B-106	4
8 mm Ø	8 mm Ø	M-10704	4	90	B-106	4
50	50	M-10237	4	90	B-106	4
	35	M-3128	4	90	B-106	4
	25	M-10705	4	90	B-106	4
10 mm Ø	10 mm Ø	M-10706	4	115	B-106	4
70	70	M-4689	4	90	B-106	2
	50	M-10707	4	90	B-106	4
	35	M-10708	4	90	B-106	2
	25	M-10709	4	90	B-106	2
95	95	M-3126	4	200	B-106	4
	70	M-10710	4	150	B-106	4
	50	M-3127	4	150	B-106	4
	35	M-10711	4	115	B-106	4
120	120	M-8677	4	200	B-106	2
	95	M-10239	4	200	B-106	4
	70	M-10712	4	200	B-106	4
	50	M-10238	4	150	B-106	4

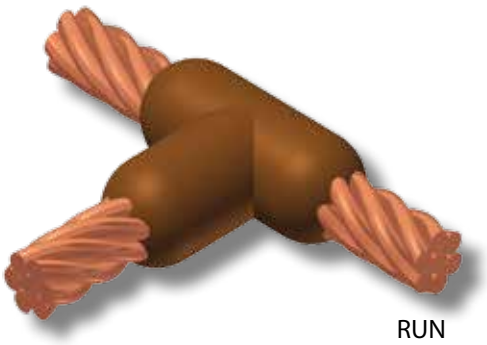


- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CC-2

TYPE MOLDS

Horizontal Cable Tap to Horizontal Cable Run
For Metric Conductors



TAP RUN

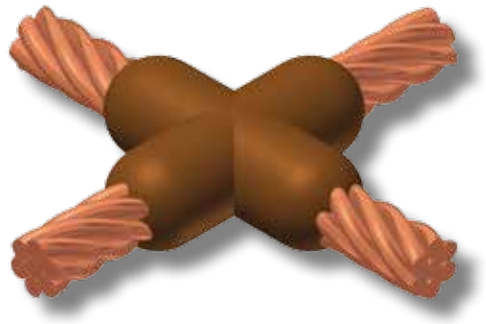
MOLDS FOR METRIC CONDUCTORS						
Cable (mm^2)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
10	10	M-10780	4	32	B-106	4
16	16	M-10781	4	32	B-106	2
25	25	M-3021	4	45	B-106	2
5.6 mm Ø	5.6 mm Ø	M-2914	4	45	B-106	4
30	30	M-2915	4	45	B-106	4
35	35	M-3022	4	45	B-106	2
	25	M-3023	4	45	B-106	2
8 mm Ø	8 mm Ø	M-2949	4	65	B-106	2
50	50	M-3024	4	90	B-106	2
	35	M-3025	4	65	B-106	2
	25	M-3026	4	65	B-106	2
10 mm Ø	10 mm Ø	M-2916	4	90	B-106	2
70	70	M-3031	4	90	B-106	2
	50	M-3033	4	90	B-106	2
	35	M-3034	4	65	B-106	2
	25	M-3035	4	65	B-106	2
	16	M-4777	4	65	B-106	4
95	95	M-3041	4	115	B-106	2
	70	M-3043	4	90	B-106	2
	50	M-3045	4	90	B-106	2
	35	M-3046	4	90	B-106	2
120	120	M-3047	4	150	B-106	2
	95	M-3048	4	150	B-106	2
	70	M-3051	4	90	B-106	2
	50	M-3052	4	90	B-106	2
	35	M-4403	4	90	B-106	4
	25	M-4353	4	90	B-106	4
	16	M-3113	4	115	B-106	4
150	150	M-3053	4	200	B-106	2
	120	M-3054	4	150	B-106	2
	95	M-3055	4	150	B-106	2
	70	M-3057	4	90	B-106	2
185	185	M-3059	4	200	B-106	2
	150	M-3060	4	200	B-106	2
	120	M-3061	4	200	B-106	2
	95	M-3062	4	150	B-106	2
	70	M-4528	4	115	B-106	4
240	240	M-3065	4	2-150	B-106	2
	185	M-3066	4	200	B-106	2
	150	M-3067	4	200	B-106	2
	120	M-3068	4	200	B-106	2
	95	M-4561	4	150	B-106	4
	70	M-4890	4	90	B-106	4
	50	M-4661	4	90	B-106	4
	25	M-4639	4	90	B-106	4
	16	M-3352	4	90	B-106	4
300	300	M-3071	5	2-200	B-107	2
	240	M-3072	5	2-200	B-107	2
	185	M-3073	4	250	B-106	2
	150	M-3074	4	200	B-106	2
	120	M-3878	4	200	B-106	4

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before andbEZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CC-4

TYPE MOLDS

Horizontal to Horizontal Cable Cross
For Metric Conductors
Tap cable is cut



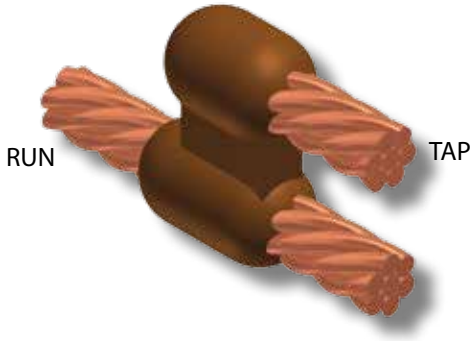
MOLDS FOR METRIC CONDUCTORS						
Cable (mm^2)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
10	10	M-10856	4	32	B-106	4
16	16	M-10782	4	45	B-106	2
25	25	M-3147	4	45	B-106	2
30	30	M-2926	4	45	B-106	4
35	35	M-3148	4	65	B-106	2
	25	M-3149	4	65	B-106	2
8 mm Ø	8 mm Ø	M-2950	4	90	B-106	2
50	50	M-3150	4	90	B-106	2
	35	M-3151	4	90	B-106	2
	25	M-3152	4	90	B-106	2
10 mm Ø	10 mm Ø	M-2928	4	115	B-106	2
70	70	M-3157	4	115	B-106	2
	50	M-3159	4	115	B-106	2
	35	M-3160	4	115	B-106	2
	25	M-3161	4	115	B-106	2
95	95	M-3167	4	150	B-106	2
	70	M-3169	4	150	B-106	2
	50	M-3171	4	115	B-106	2
	35	M-3172	4	115	B-106	2
120	120	M-3173	4	200	B-106	2
	95	M-3174	4	200	B-106	2
	70	M-3176	4	150	B-106	2
	50	M-3178	4	150	B-106	2
150	150	M-3179	4	250	B-106	2
	120	M-3180	4	250	B-106	2
	95	M-3181	4	200	B-106	2
	70	M-3183	4	150	B-106	2
185	185	M-3185	4	250	B-106	2
	150	M-3186	4	250	B-106	2
	120	M-3187	4	250	B-106	2
	95	M-3188	4	200	B-106	2
240	240	M-3191	5	500	B-107	2
	185	M-3192	5	2-200	B-107	2
	150	M-3193	5	2-200	B-107	2
	120	M-3194	5	2-150	B-107	2
300	300	M-3197	5	3-200	B-107	2
	240	M-3198	5	3-200	B-107	2
	185	M-3199	5	500	B-107	2
	150	M-3200	5	500	B-107	4
	120	M-3201	5	2-200	B-107	2
	95	M-3202	5	2-200	B-107	2

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before andbEZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CC-6

TYPE MOLDS

Horizontal Parallel Tap
For Metric Conductors

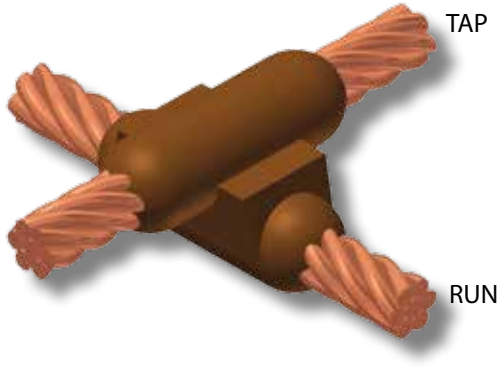


MOLDS FOR METRIC CONDUCTORS						
Cable (mm^2)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
10	10	M-10783	4	25	B-106	4
16	16	M-9993	4	32	B-106	2
25	25	M-2971	4	45	B-106	4
30	30	M-3269	4	65	B-106	4
35	35	M-3432	4	65	B-106	4
	25	M-4254	4	65	B-106	4
50	50	M-4260	4	90	B-106	2
	35	M-4290	4	65	B-106	4
	25	M-4291	4	65	B-106	4
70	70	M-3234	4	115	B-106	2
	50	M-4292	4	115	B-106	2
	35	M-3237	4	90	B-106	4
	25	M-3238	4	90	B-106	2
95	95	M-4302	4	150	B-106	2
	70	M-4303	4	115	B-106	2
	50	M-4311	4	115	B-106	2
	35	M-4319	4	115	B-106	4
120	120	M-4325	4	200	B-106	2
	95	M-4337	4	200	B-106	2
	70	M-4338	4	150	B-106	2
	50	M-4347	4	115	B-106	2

CC-11

TYPE MOLDS

Horizontal to Horizontal Cable Cross
For Metric Conductors



MOLDS FOR METRIC CONDUCTORS						
Cable (mm^2)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
25	25	M-8762	4	65	B-106	4
35	35	M-4980	4	90	B-106	2
50	50	M-4981	22	150	B-106	2
70	70	M-4060	22	200	B-106	2
95	95	M-3732	22	250	B-106	4
120	120	M-4289	22	2-150	B-106	2
150	150	M-4749	23	2-200	B-107	2
185	185	M-4145	23	500	B-107	2
240	240	M-3044	23	3-200	B-107	2
300	300	M-3392	23	2-500	B-107	2

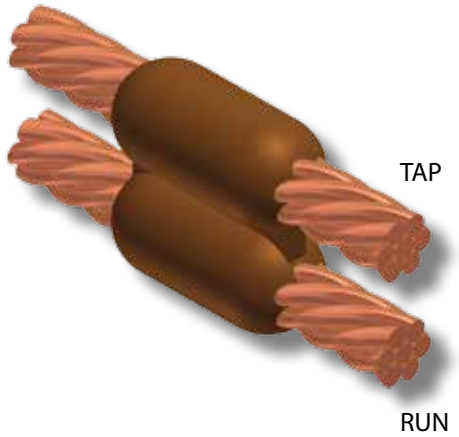
- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (CC-11 Molds Only)
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500 (CC-11 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CC-7

TYPE MOLDS

Horizontal Parallel through Cables
For Metric Conductors

MOLDS FOR METRIC CONDUCTORS						
Cable (mm^2)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
10	10	M-10784	4	25	B-106	4
16	16	M-10785	4	32	B-106	4
25	25	M-3254	4	45	B-106	2
30	30	M-4348	4	45	B-106	4
35	35	M-3255	4	65	B-106	2
	25	M-3256	4	65	B-106	4
8 mm Ø	8 mm Ø	M-4643	4	90	B-106	2
50	50	M-3257	4	90	B-106	2
	35	M-3258	4	90	B-106	4
	25	M-3259	4	65	B-106	4
10 mm Ø	10 mm Ø	M-4350	4	115	B-106	4
70	70	M-3264	4	115	B-106	2
	50	M-3266	4	115	B-106	2
	35	M-3267	4	90	B-106	2
	25	M-3268	4	90	B-106	2
95	95	M-3274	4	150	B-106	2
	70	M-3276	4	115	B-106	4
	50	M-3278	4	115	B-106	2
	35	M-3279	4	115	B-106	4
120	120	M-3280	4	200	B-106	2
	95	M-3281	4	200	B-106	2
	70	M-3283	4	150	B-106	2
	50	M-3285	4	150	B-106	4
150	150	M-3286	5	2-150	B-107	2
	120	M-3287	4	250	B-106	2
	95	M-3288	4	200	B-106	2
	70	M-3290	4	150	B-106	4
185	185	M-3292	5	2-150	B-107	2
	150	M-3293	5	2-150	B-107	2
	120	M-3294	4	250	B-106	2
	95	M-3295	4	200	B-106	4
240	240	M-3298	5	2-200	B-107	2
	185	M-3299	5	2-150	B-107	4
	150	M-3300	5	2-150	B-107	4
	120	M-3301	4	250	B-106	2
300	300	M-3304	5	500	B-107	2
	240	M-3305	5	500	B-107	2
	185	M-3306	5	2-200	B-107	4
	150	M-3307	5	2-150	B-107	2

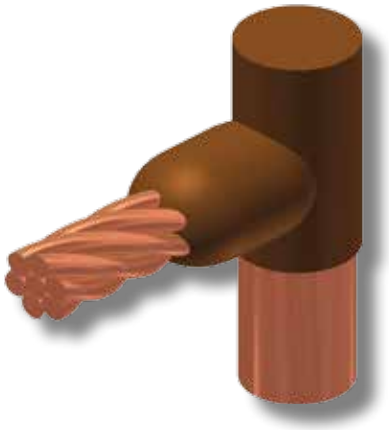


- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0330-00 ~ Cable Clamp

CR-1

TYPE MOLDS

Horizontal Cable Terminal to Ground Rod
For Metric Conductors



MOLDS FOR METRIC CONDUCTORS						
Ground Rod Size (mm)	Cable Size (mm^2)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
12.8	10	M-10786	4	45	B-106	4
	16	M-10787	4	65	B-106	4
	25	M-3321	4	65	B-106	4
	5.6 mm Ø	M-4351	4	65	B-106	4
	30	M-4352	4	65	B-106	4
	35	M-3322	4	65	B-106	2
	50	M-3323	4	65	B-106	2
	8 mm Ø	M-4644	4	65	B-106	4
	70	M-3325	4	90	B-106	4
	95	M-3327	4	90	B-106	4
	120	M-3328	4	90	B-106	4
14.3	5.6 mm Ø	M-4381	4	65	B-106	4
	25	M-3336	4	65	B-106	2
	30	M-4392	4	65	B-106	2
	35	M-3337	4	65	B-106	2
	50	M-3338	4	90	B-106	2
	8 mm Ø	M-4412	4	90	B-106	2
	70	M-3340	4	90	B-106	2
	95	M-3342	4	90	B-106	2
	120	M-3343	4	90	B-106	2
	150	M-3344	4	115	B-106	2
	185	M-3345	4	115	B-106	2
	240	M-3346	4	150	B-106	2
17.2	25	M-3354	4	90	B-106	2
	30	M-4413	4	90	B-106	2
	35	M-3355	4	90	B-106	2
	50	M-3356	4	90	B-106	2
	8 mm Ø	M-4414	4	90	B-106	4
	70	M-3358	4	90	B-106	2
	95	M-3360	4	90	B-106	2
	120	M-3361	4	90	B-106	2
	150	M-3362	4	115	B-106	2
	185	M-3363	4	115	B-106	2
	240	M-3364	4	150	B-106	2
	300	M-3365	4	200	B-106	2

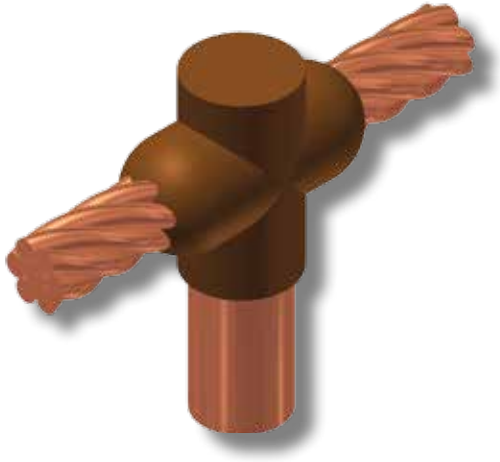
- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weldmetal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

CR-2

TYPE MOLDS

Horizontal Cable to Ground Rod
For Metric Conductors

MOLDS FOR METRIC CONDUCTORS						
Ground Rod Size (mm)	Cable Size (mm^2)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
12.8	10	M-10788	4	65	B-106	4
	16	M-10789	4	90	B-106	4
	25	M-3372	4	90	B-106	2
	5.6 mm Ø	M-4486	4	90	B-106	4
	30	M-4503	4	90	B-106	4
	35	M-3373	4	90	B-106	2
	50	M-3374	4	90	B-106	2
	8 mm Ø	M-4881	4	90	B-106	2
	70	M-3376	4	90	B-106	2
	95	M-3378	4	115	B-106	4
	120	M-3379	4	150	B-106	2
14.3	5.6 mm Ø	M-4505	4	90	B-106	4
	25	M-3387	4	90	B-106	2
	30	M-4513	4	90	B-106	4
	35	M-3388	4	90	B-106	2
	50	M-3389	4	90	B-106	2
	8 mm Ø	M-4515	4	90	B-106	2
	70	M-3391	4	115	B-106	2
	95	M-3393	4	115	B-106	2
	120	M-3394	4	150	B-106	2
	150	M-3395	4	200	B-106	2
	185	M-3396	4	200	B-106	2
	240	M-3397	4	250	B-106	2
17.2	25	M-3405	4	90	B-106	2
	30	M-4518	4	90	B-106	4
	35	M-3406	4	90	B-106	2
	50	M-3407	4	115	B-106	2
	8 mm Ø	M-4645	4	115	B-106	4
	70	M-3409	4	115	B-106	2
	95	M-3411	4	115	B-106	2
	120	M-3412	4	150	B-106	2
	150	M-3413	4	200	B-106	2
	185	M-3414	4	200	B-106	2
	240	M-3415	4	250	B-106	2
	300	M-3416	5	2-150	B-107	2

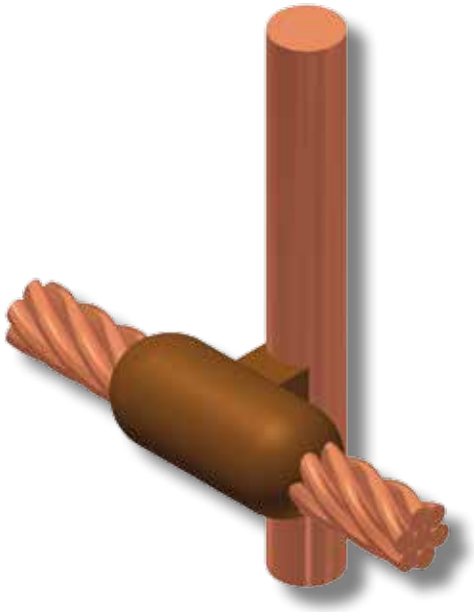


- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

CR-3

TYPE MOLDS

Horizontal Thru Cable to Ground Rod
For Metric Conductors



MOLDS FOR METRIC CONDUCTORS						
Ground Rod Size (mm)	Cable Size (mm^2)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
12.8	10	M-10790	24	65	B-106	4
	16	M-10791	24	90	B-106	4
	25	M-2804	24	90	B-106	2
	5.6 mm Ø	M-2805	24	90	B-106	4
	30	M-2808	24	90	B-106	4
	35	M-2813	24	90	B-106	2
	50	M-2815	24	115	B-106	2
	8 mm Ø	M-2816	24	115	B-106	4
	70	M-2818	24	115	B-106	2
	95	M-2819	24	115	B-106	2
	120	M-2821	24	150	B-106	4
14.3	5.6 mm Ø	M-2823	24	90	B-106	4
	30	M-2824	24	90	B-106	4
	35	M-2826	24	115	B-106	2
	50	M-2827	24	115	B-106	2
	8 mm Ø	M-2828	24	115	B-106	4
	70	M-2829	24	115	B-106	2
	95	M-2831	24	115	B-106	2
	120	M-2837	24	150	B-106	2
	150	M-2838	24	150	B-106	2
	185	M-2839	24	250	B-106	4
	240	M-2840	13	2-200	B-107	2
17.2	30	M-2841	24	90	B-106	4
	35	M-2844	24	90	B-106	2
	50	M-2845	24	115	B-106	2
	8 mm Ø	M-2846	24	115	B-106	4
	70	M-2847	24	150	B-106	2
	95	M-2848	24	150	B-106	2
	120	M-4882	24	200	B-106	2
	150	M-2850	24	250	B-106	2
	185	M-2851	13	2-200	B-107	2
	240	M-2852	13	500	B-107	2
	300	M-2853	13	3-200	B-107	2

RR-1

TYPE MOLDS

Ground Rod to Ground Rod



MOLDS FOR METRIC CONDUCTORS					
Ground Rod Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
12.8	M-3624-H	17	250	B-106	4
14.3	M-3625-H	17	2-150	B-106	4
17.2	M-4522-H	17	2-200	B-106	4

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush (pg 40)
  38-0304-00 ~ File

SINGLE SHOT MOLDS

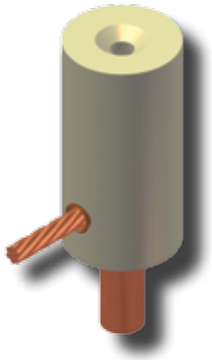
SINGLE SHOT MOLDS

thermOweld® Single Shot Molds are an economical way to make cable connections to 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 or EZ Lite Adapter (See page 218) must be purchased separately.

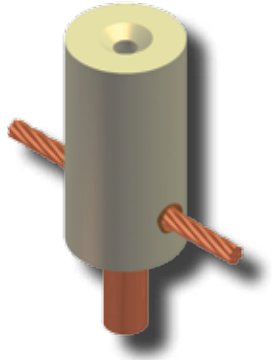
Ground Rod Size (mm)	Cable Size (mm^2)	Type	Mold #	Lead Time
12.8	2.5-6	CR-1	M-8968	4
	10-16	CR-1	M-8969	4
	25-35	CR-1	M-8970	4
	2.5-6	CR-2	M-8971	4
	10-16	CR-2	M-8972	4
	25-35	CR-2	M-8973	4

Ground Rod Size (mm)	Cable Size (mm^2)	Type	Mold #	Lead Time
14.3	2.5-6	CR-1	M-8974	4
	10-16	CR-1	M-8975	4
	25-35	CR-1	M-8976	4
	50	CR-1	M-8977	4
	2.5-6	CR-2	M-8979	4
	10-16	CR-2	M-8980	4
	25-35	CR-2	M-8981	4
	50	CR-2	M-8982	4
	10-16	CR-25	M-8984	4
	25-35	CR-25	M-8985	4
	50	CR-25	M-8986	4

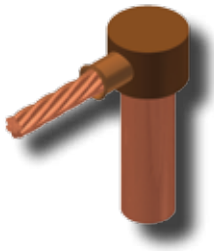
Ground Rod Size (mm)	Cable Size (mm^2)	Type	Mold #	Lead Time
17.2	2.5-6	CR-1	M-8987	4
	10-16	CR-1	M-8988	4
	25-35	CR-1	M-8989	4
	50	CR-1	M-8990	4
	70	CR-1	M-8991	4
	2.5-6	CR-2	M-8992	4
	10-16	CR-2	M-8993	4
	25-35	CR-2	M-8994	4
	50	CR-2	M-8995	4
	2.5-6	CR-25	M-8996	4
	10-16	CR-25	M-8997	4
	25-35	CR-25	M-8998	4
	50	CR-25	M-8999	4

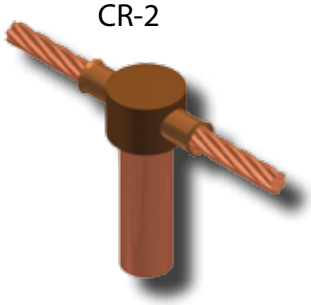


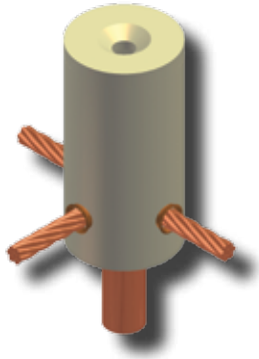
CR-1



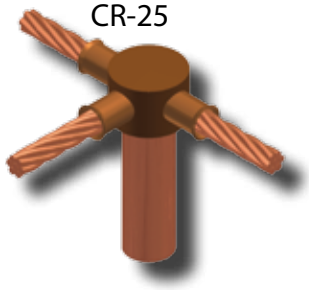
CR-2







CR-25



SINGLE SHOT MOLD

EZ Lite Remote Adapter

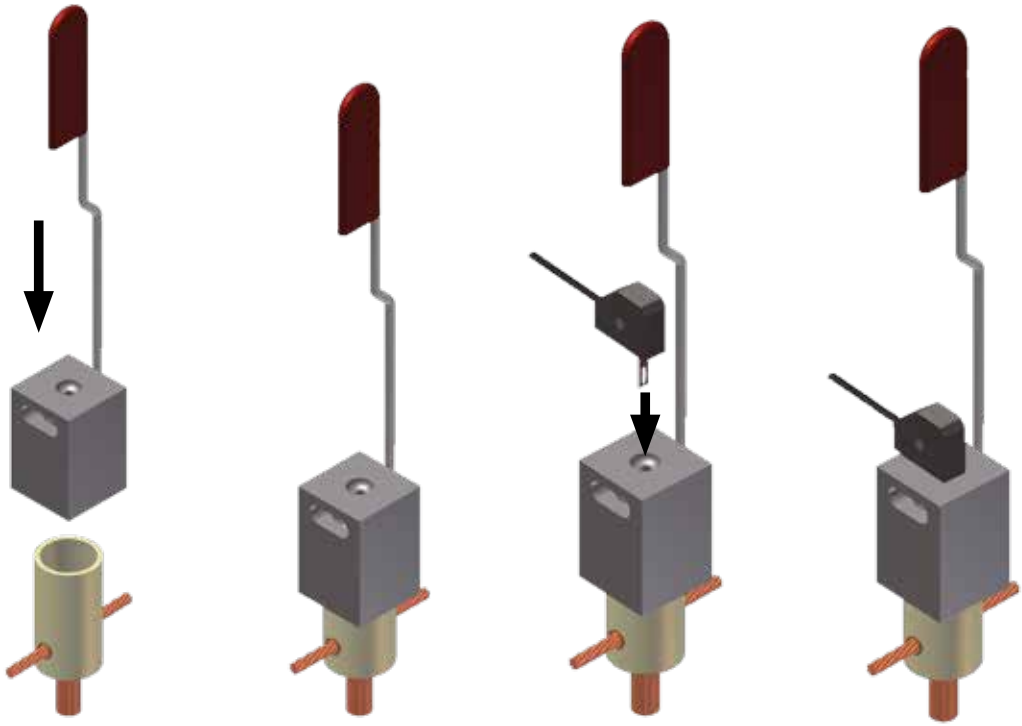
Follow steps 1 thru 10 in the Welding Instructions "Weld Procedures" that comes with the Single Shot Mold for proper installation of mold onto ground rod and how to place weld metal into mold.

Replace step 11 in the Welding Instructions "Weld Procedures" with the following;

11. Discard ceramic lid included with mold. Slide EZ Lite Remote® Single Shot Adapter over mold as shown.

Continue the instructions steps 12 through 14 in the Welding Instructions "Weld Procedures" that comes with the Single Shot Mold to complete weld.

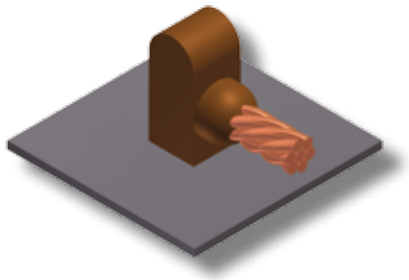
Part Number: 38-EZLT-SS





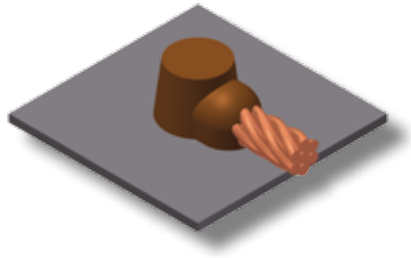
CS-1
TYPE MOLDS
Horizontal Cable to Horizontal Steel Surface
For Metric Conductors
Note that the cable is OFF the surface

MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm^2)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
8 mm Ø	M-4527	4	90	B-106	2
50	M-3419	4	90	B-106	2
10 mm Ø	M-4529	4	90	B-106	4
70	M-3421	4	90	B-106	2
95	M-3423	4	115	B-106	2
120	M-3424	4	115	B-106	2
150	M-3425	4	150	B-106	2
185	M-3426	4	200	B-106	4
240	M-3427	4	200	B-106	2
300	M-3428	4	250	B-106	4



CS-8
TYPE MOLDS
Horizontal Cable to Horizontal Steel Surface
For Metric Conductors
Note that the cable is ON the surface

MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm^2)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	M-10792	3†	45	Included	4
16	M-10264	3†	45	Included	4
25	M-3479	3†	45	Included	2
30	M-4530	3†	45	Included	4
35	M-3480	3†	45	Included	2
8 mm Ø	M-4534	3†	45	Included	4
50	M-3481	3†	45	Included	2
10 mm Ø	M-4536	3†	65	Included	4
70	M-3483	3†	65	Included	2
95	M-3485	4	90	Included	2
120	M-3486	4	115	B-106	2
150	M-3487	4	150	B-106	4
185	M-3488	4	200	B-106	2
240	M-3489	4	200	B-106	2
300	M-3490	4	250	B-106	4



- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (Price Key 3 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 50 mm^2 & Larger Molds (CS-8 Molds Only)

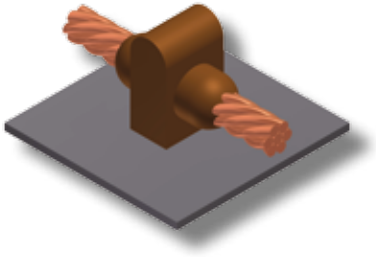
CS-2

TYPE MOLDS

Horizontal Thru Cable to Horizontal Steel Surface

For Metric Conductors

Note that the cable is OFF the surface



MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm^2)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
8 mm Ø	M-4537	4	90	B-106	2
50	M-4538	4	90	B-106	2
10 mm Ø	M-4551	4	115	B-106	4
70	M-4552	4	115	B-106	2
95	M-4560	4	115	B-106	2
120	M-4585	4	150	B-106	2
150	M-4592	4	200	B-106	4
185	M-4602	4	250	B-106	4
240	M-4617	5	2-150	B-107	4
300	M-4622	5	2-200	B-107	4

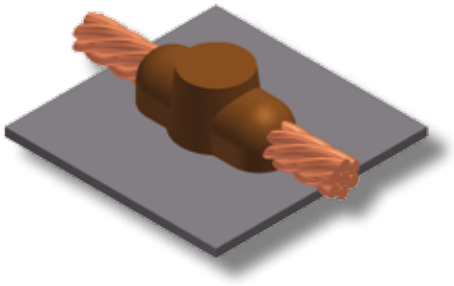
CS-9

TYPE MOLDS

Horizontal Thru Cable to Horizontal Steel Surface

For Metric Conductors

Note that the cable is ON the surface

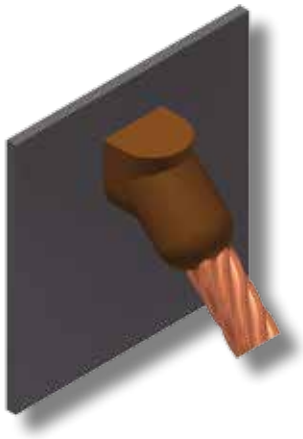


MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm^2)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	M-10793	3†	45	Included	4
16	M-10794	3†	45	Included	4
25	M-3496	3†	45	Included	2
30	M-4638	3†	45	Included	4
35	M-3497	3†	45	Included	4
8 mm Ø	M-4641	4	90	B-106	4
50	M-3498	4	90	B-106	2
10 mm Ø	M-4653	4	115	B-106	4
70	M-3500	4	115	B-106	2
95	M-3502	4	115	B-106	2
120	M-3503	4	150	B-106	4
150	M-3504	4	200	B-106	4
185	M-3505	4	250	B-106	4
240	M-3506	5	2-150	B-107	4
300	USE TYPE CS-2				

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (Price Key 3 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 50 mm^2 & Larger Molds (CS-9 Molds Only)

CS-3
TYPE MOLDS
Angular Cable Drop to Vertical Steel Surface
For Metric Conductors

MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm^2)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	M-10795	4	45	B-106	4
16	M-10796	4	45	B-106	4
25	M-3445	4	45	B-106	2
30	M-4670	4	45	B-106	4
35	M-3446	4	45	B-106	2
8 mm Ø	M-4672	4	90	B-106	2
50	M-3447	4	90	B-106	2
10 mm Ø	M-4691	4	115	B-106	2
70	M-3449	4	90	B-106	2
95	M-3451	4	115	B-106	2
120	M-3452	4	115	B-106	2
150	M-3453	4	115	B-106	4
185	M-3454	4	200	B-106	2
240	M-3455	4	200	B-106	2
300	M-3456	4	250	B-106	4

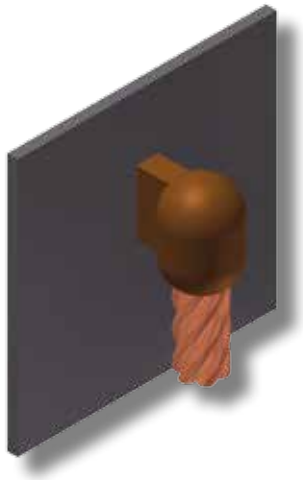




For connections to pipe, contact thermOweld®.

CS-23
TYPE MOLDS
Vertical Cable Drop to Vertical Steel Surface
For Copper-Clad Steel Conductors
Note that the cable is OFF the surface

MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm^2)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	M-3070	4	45	B-106	4
16	M-10797	4	65	B-106	4
25	M-4679	4	65	B-106	2
30	M-10798	4	65	B-106	2
35	M-4114	4	65	B-106	2
8 mm Ø	M-10799	4	65	B-106	4
50	M-3140	4	115	B-106	2
70	M-4678	4	115	B-106	2
95	M-4601	4	150	B-106	2
120	M-3747	4	200	B-106	2
150	M-3080	4	200	B-106	4
185	M-9823	4	250	B-106	2
240	M-10800	17	2-150	B-106	4
300	M-10801	17	2-150	B-106	4



- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-4431-00 ~ Magnetic Handle Clamp w/ B-106 Handles
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp

CS-7

TYPE MOLDS

Overhead Vertical Tap Cable to Vertical Steel Surface
For Metric Conductors



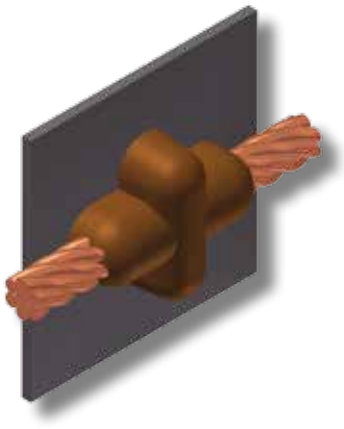
MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm^2)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	M-10802	4	65	B-106	4
16	M-10803	4	65	B-106	4
25	M-3462	4	65	B-106	4
30	M-4701	4	65	B-106	4
35	M-3463	4	65	B-106	4
8 mm Ø	M-4752	4	90	B-106	4
50	M-3464	4	90	B-106	2
10 mm Ø	M-4769	17	150	B-106	4
70	M-3466	17	150	B-106	2
95	M-3468	17	200	B-106	2
120	M-3469	17	200	B-106	2
150	M-3470	17	250	B-106	2
185	M-3471	6	2-150	B-107	2
240	M-3472	6	2-150	B-107	2
300	M-3473	6	2-200	B-107	4

CS-27

TYPE MOLDS

Horizontal Thru Cable to Vertical Steel Surface
For Metric Conductors

Note that the cable is ON the surface



MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm^2)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	M-10804	4	45	B-106	4
16	M-3522	4	45	B-106	4
25	M-3523	4	45	B-106	2
30	M-4779	4	45	B-106	4
35	M-3524	4	45	B-106	2
8 mm Ø	M-4780	4	65	B-106	4
50	M-3525	4	65	B-106	2
10 mm Ø	M-4833	4	115	B-106	4
70	M-3527	4	115	B-106	2
95	M-3529	4	150	B-106	4
120	M-3530	4	150	B-106	4
150	M-4757	17	200	B-106	4
185	M-4834	5	250	B-107	4
240	M-4835	5	2-150	B-107	4
300	M-2803	5	2-200	B-107	4

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (Price Key 3 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 50 mm^2 & Larger Molds (CS-27 Molds Only)

CS-32

TYPE MOLDS

Cathodic Protection
Horizontal Cable to Horizontal Steel Pipe
For Metric Conductors

MOLDS FOR METRIC CONDUCTORS						
Cable Size (mm^2)	Pipe Dia. in mm	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2.5, 4 & 6	up to 125	M-4146‡	3†	15CP	Included Optional: Magnetic Mold Support, Catalog Number 40-7202-00, See Page 136	2
2.5, 4 & 6	over 125	M-4147‡	3†	15CP		2
10	up to 125	M-4148	3†	15CP		2
	over 125	M-4149	3†	15CP		2
16	up to 125	M-4146	3†	15CP		2
	over 125	M-4147	3†	15CP		2
25	up to 70	M-4152	3†	25CP		2
	70 to 165	M-4153	3†	25CP		2
	over 165	M-4154	3†	25CP		2
30	up to 70	M-2833	3†	32CP		4
	70 to 165	M-2834	3†	32CP		4
	165 to 250	M-2835	3†	32CP		4
	over 250	M-2836	3†	32CP		4
35	up to 70	M-4155	3†	32CP		2
	70 to 165	M-4156	3†	32CP		2
	165 to 250	M-4157	3†	32CP		2
	over 250	M-4158	3†	32CP		2
50	up to 70	M-4159	3†	45CP		4
	70 to 165	M-4160	3†	45CP		2
	165 to 250	M-4161	3†	45CP		2
	over 250	M-4162	3†	45CP		2
70	up to 70	M-4163	3†	65CP		2
	70 to 165	M-4164	3†	65CP		2
	165 to 250	M-4165	3†	65CP		2
	over 250	M-4166	3†	65CP		2
‡ 38-4590 Sleeve/Weld Req'd						





- **For sizes not listed, contact thermOweld®.**
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (Price Key 3 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 50 mm^2 & Larger Molds

APPLICATION NOTES:

When specifying and applying thermOweld® products for cathodic protection of buried piping systems, it is the specifier and buyer's responsibility to respect the following ASME guidelines in conjunction with ASTM, NACE and applicable country, state, municipality and local guidelines:

ASME B31.8-2000, "Gas Transmission and Distribution Piping Systems"
862.115 Para (b)1 (steel pipe) 15 grams maximum weld metal cartridge

ASME B31.8-2000, "Gas Transmission and Distribution Piping Systems"
862.223 Para (a) (ductile / cast iron pipe) 32 grams maximum weld metal cartridge

CS-32

TYPE MOLDS

Cathodic Protection
Horizontal Cable to Horizontal Steel Surface
For AWG Conductors



NOTE
Welding To Ductile Iron Pipe: When welding to ductile iron pipe, use weld metal and molds designated for cast iron.

MOLDS FOR AWG CONDUCTORS						
Cable Size	Surface	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6 Sol‡	Flat (4" & Larger pipe)	M-100	3†	15CP	Included Optional: Magnetic Mold Support, Catalog Number 40-7202-00, See Page 136	SDS
	3/4" to 3 1/2" pipe	M-101	3†	15CP		SDS
#6	Flat (4" & Larger pipe)	M-102	3†	15CP		SDS
	3/4" to 3 1/2" pipe	M-103	3†	15CP		2
#4 Sol	Flat (6" & Larger pipe)	M-104	3†	15CP		SDS
	3/4" to 3 1/2" pipe	M-105	3†	15CP		2
	4" to 5" pipe	M-130	3†	15CP		2
#4	Flat (6" & Larger pipe)	M-106	3†	15CP		SDS
	3/4" to 3 1/2" pipe	M-107	3†	15CP		2
	4" to 5" pipe	M-108	3†	15CP		2
#2 Sol	Flat (10" & Larger pipe)	M-109	3†	25CP		2
	1" to 3 1/2" pipe	M-110	3†	25CP		2
	4" to 8" pipe	M-111	3†	25CP		2
#2	Flat (10" & Larger pipe)	M-112	3†	32CP		2
	1" to 3 1/2" pipe	M-113	3†	32CP		2
	4" to 8" pipe	M-114	3†	32CP		2
	10" to 14" pipe	M-115	3†	32CP		2
#1	Flat (16" & Larger pipe)	M-116	3†	45CP		2
	1 1/2" to 3 1/2" pipe	M-117	3†	45CP		2
	4" to 8" pipe	M-118	3†	45CP		2
	10" to 14" pipe	M-119	3†	45CP		2
1/0	Flat (20" & Larger pipe)	M-120	3†	65CP		2
	2 1/2" to 3 1/2" pipe	M-121	3†	65CP		2
	4" to 8" pipe	M-122	3†	65CP		2
	10" to 18" pipe	M-123	3†	65CP		2
2/0	Flat (20" & Larger pipe)	M-124	3†	65CP		2
	2 1/2" to 3 1/2" pipe	M-125	3†	65CP		2
	4" to 8" pipe	M-126	3†	65CP		2
	10" to 18" pipe	M-127	3†	65CP		2
‡ For Wire Size #14 to #10 Solid, 38-0200-00 Sleeve/Weld Req'd						

- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame If frame not required, specify MOLD NUMBER followed by suffix "-G"
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 1/0 & Larger Molds

CS-33
TYPE MOLDS
Cathodic Protection
Horizontal Cable to Horizontal Cast Iron Pipe For Metric Conductors

MOLDS FOR METRIC CONDUCTORS						
Cable Size (mm^2)	Pipe Dia. in mm	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2.5, 4 & 6	Flat Surface or 750 Dia and above pipe	M-4188‡	3†	25CI	Included Optional: Magnetic Mold Support, Catalog Number 40-7202-00, See Page 136	2
10		M-10024	3†	25CI		2
16		M-10805	3†	45CI		4
25		M-4191	3†	45CI		2
35		M-4192	3†	45CI		2
50		M-4193	3†	45CI		4
70		M-2868	3†	65CI		4
‡ 38-4590 Sleeve/Weld Req'd						



DO NOT use Type CS-33 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 metallugical effects.

CS-33
TYPE MOLDS
Cathodic Protection
Horizontal Cable to Horizontal Cast Iron Surface For AWG Conductors

MOLDS FOR AWG CONDUCTORS						
Cable Size	Surface	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6 Sol‡	Flat (30" & larger pipe)	M-156	3†	25CI	Included Optional: Magnetic Mold Support, Catalog Number 40-7202-00, See Page 136	SDS
#6	Flat (30" & larger pipe)	M-157	3†	25CI		2
#4 Sol	Flat (30" & larger pipe)	M-158	3†	45CI		2
#4	Flat (30" & larger pipe)	M-159	3†	45CI		2
#2 Sol	Flat (30" & larger pipe)	M-160	3†	45CI		2
#2	Flat (30" & larger pipe)	M-161	3†	45CI		2
#1	Flat (30" & larger pipe)	M-163	3†	65CI		2
‡ For Wire Size #14 to #10 Solid, 38-0200-00 Sleeve/Weld Req'd						



Welding To Horizontal Pipe: To weld to 4" to 24" horizontal pipe, add pipe size to mold number. Example: To weld #1 str cable to 6" horizontal pipe, the mold number would be M-163-6. To weld to pipe 30" and larger, use flat surface mold.

- **For sizes not listed, contact thermOweld®.**
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (Price Key 3 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 50 mm^2 & Larger Molds

CS-34

TYPE MOLDS

Cathodic Protection
Horizontal Thru Cable to Horizontal Steel Pipe
For Metric Conductors



MOLDS FOR METRIC CONDUCTORS						
Cable Size (mm^2)	Pipe Dia. in mm	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2.5, 4 & 6	up to 105	M-4167‡	3†	25CP	Included Optional: Magnetic Mold Support, Catalog Number 40-7202-00, See Page 136	2
2.5, 4 & 6	over 105	M-4168‡	3†	25CP		2
10	up to 105	M-10806	3†	25CP		4
	over 105	M-10807	3†	25CP		4
16	up to 105	M-10808	3†	25CP		4
	over 105	M-10809	3†	25CP		2
25	up to 70	M-4173	3†	32CP		4
	70 to 165	M-4174	3†	32CP		4
	over 165	M-4175	3†	32CP		2
35	up to 70	M-4176	3†	45CP		2
	70 to 165	M-4177	3†	45CP		2
	165 to 250	M-4178	3†	45CP		2
	over 250	M-4179	3†	45CP		2
50	up to 70	M-4180	3†	65CP		4
	70 to 165	M-4181	3†	65CP		4
	165 to 250	M-4182	3†	65CP		4
	over 250	M-4183	3†	65CP		2
‡ (2) 38-4590 Sleeve/Weld Req'd						

- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame If frame not required, specify MOLD NUMBER followed by suffix "-G"
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 1/0 & Larger Molds

CS-34

TYPE MOLDS

Cathodic Protection

Horizontal Thru Cable to Horizontal Steel Surface

For AWG Conductors

MOLDS FOR AWG CONDUCTORS						
Cable Size	Surface	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6 Sol‡	Flat (12" & Larger pipe)	M-1955	3†	25CP	Included Optional: Magnetic Mold Support, Catalog Number 40-7202-00, See Page 136	2
	3/4" to 2" pipe	M-5666	3†	25CP		2
	2 1/2" to 5" pipe	M-3097	3†	25CP		2
	6" to 10" pipe	M-3141	3†	25CP		2
#6	Flat (12" & Larger pipe)	M-5661	3†	25CP		2
	3/4" to 2" pipe	M-5662	3†	25CP		4
	2 1/2" to 5" pipe	M-5663	3†	25CP		2
	6" to 10" pipe	M-5664	3†	25CP		2
#4 Sol	Flat (12" & Larger pipe)	M-1956	3†	25CP		4
	3/4" to 2" pipe	M-1957	3†	25CP		2
	2 1/2" to 5" pipe	M-1958	3†	25CP		2
	6" to 10" pipe	M-1966	3†	25CP		4
#4	Flat (12" & Larger pipe)	M-6000	3†	25CP		2
	3/4" to 2" pipe	M-1967	3†	25CP		2
	2 1/2" to 5" pipe	M-5501	3†	25CP		2
	6" to 10" pipe	M-5503	3†	25CP		2
#2 Sol	Flat (14" & Larger pipe)	M-5505	3†	32CP		4
	2" to 3 1/2" pipe	M-5507	3†	32CP		4
	4" to 8" pipe	M-5510	3†	32CP		2
	10" to 16" pipe	M-5514	3†	32CP		2
#2	Flat (14" & Larger pipe)	M-5518	3†	45CP		2
	2" to 3 1/2" pipe	M-5986	3	45CP		2
	4" to 8" pipe	M-5605	3†	45CP		2
	10" to 16" pipe	M-5988	3†	45CP		4
#1	Flat (18" & Larger pipe)	M-5519	3†	45CP		4
	2" to 3 1/2" pipe	M-5520	3†	45CP		4
	4" to 8" pipe	M-5521	3†	45CP		4
	10" to 16" pipe	M-5523	3†	45CP		4
1/0	Flat (30" & Larger pipe)	M-5524	3†	65CP		4
	3" to 4" pipe	M-5525	3†	65CP		4
	5" to 6" pipe	M-5526	3†	65CP		4
	8" to 10" pipe	M-5527	3†	65CP		2
	12" to 28" pipe	M-5529	3†	65CP		4
2/0	Flat (30" & Larger pipe)	M-6251	3†	65CP		4
	3" to 4" pipe	M-5530	3†	65CP		4
	5" to 6" pipe	M-5531	3†	65CP		4
	8" to 10" pipe	M-5532	3†	65CP		2
	12" to 28" pipe	M-5533	3†	65CP		4
‡ For Wire Size #14 to #10 Solid, (2) 38-0200-00 Sleeves/Weld Req'd						



NOTE
Welding To Ductile Iron Pipe: When welding to ductile iron pipe, use weld metal and molds designated for cast iron.

- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame If frame not required, specify MOLD NUMBER followed by suffix "-G"
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 1/0 & Larger Molds

CS-35

TYPE MOLDS

Cathodic Protection
Horizontal Thru Cable to Horizontal Cast Iron Pipe
For Metric Conductors



MOLDS FOR METRIC CONDUCTORS						
Cable Size (mm^2)	Pipe Dia. in mm	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2.5, 4 & 6	Flat	M-2876‡	3†	32CI	Included Optional: Magnetic Mold Support, Catalog Number 40-7202-00, See Page 136	4
10	Surface	M-10810	3†	32CI		4
16	or	M-10811	3†	45CI		4
25	750 Dia	M-2884	3†	45CI		4
35	&	M-2887	3†	45CI		2
50	larger	M-2889	3†	65CI		4
70	pipe	M-2890	3†	65CI		4
‡ (2) 38-4590 Sleeve/Weld Req'd						

DO NOT use Type CS-35 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 metallugical effects.

CS-35

TYPE MOLDS

Cathodic Protection
Horizontal Thru Cable to Horizontal Cast Iron Pipe
For AWG Conductors



MOLDS FOR AWG CONDUCTORS						
Cable Size	Surface	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6 Sol‡	Flat surface or 30" Dia. & larger pipe	M-5316	3	32CI	Included Optional: Magnetic Mold Support, Catalog Number 40-7202-00, See Page 136	4
#6		M-5535	3	32CI		4
#4 Sol		M-5536	3	45CI		4
#4		M-5537	3	45CI		2
#2 Sol		M-5538	3	45CI		4
#2		M-5540	3	45CI		2
#1		M-5542	3	65CI		4
‡ For Wire Size #14 to #10 Solid, (2) 38-0200-00 Sleeves/Weld Req'd						

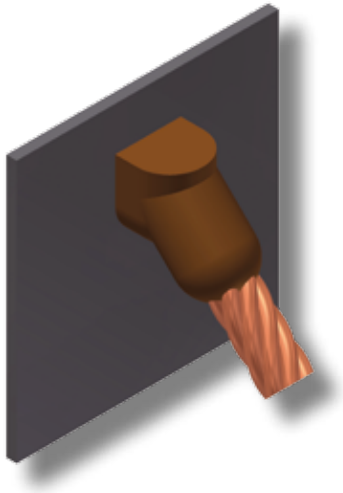
Welding To Horizontal Pipe: To weld to 4" to 24" horizontal pipe, add pipe size to mold number. Example: To weld #1 str cable to 6" horizontal pipe, the mold number would be M-163-6. To weld to pipe 30" and larger, use flat surface mold.

- **For sizes not listed, contact thermOweld®.**
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame If frame not required, specify MOLD NUMBER followed by suffix "-G"
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (Price Key 3 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 50 mm^2 & Larger Molds

CS-36

TYPE MOLDS

Cathodic Protection
Angular Cable Drop to Vertical Steel Surface
For Metric Conductors





For connections to pipe, contact thermOweld®.

MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm^2)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	M-10721	18†	15CP	40-4565-00	2
16	M-10722	18†	25CP	40-4565-00	2
25	M-4274	18†	32CP	40-4565-00	2
30	M-10723	18†	32CP	40-4565-00	4
35	M-9878	18†	32CP	40-4565-00	2
50	M-10724	18†	65CP	40-4565-00	4
70	M-10725	18†	65CP	40-4565-00	4

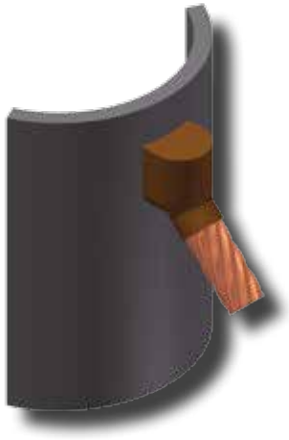
- **For sizes not listed, contact thermOweld®.**
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame If frame not required, specify MOLD NUMBER followed by suffix "-G"
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (Price Key 3 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 50 mm^2 & Larger Molds

Welding To Horizontal Pipe: To weld to 4" to 24" horizontal pipe, add pipe size to mold number. Example: To weld #1 str cable to 6" horizontal pipe, the mold number would be M-163-6. To weld to pipe 30" and larger, use flat surface mold.

CS-36

TYPE MOLDS

Cathodic Protection
Cable to Vertical Steel Surface
For AWG Conductors



NOTE
Welding To Ductile Iron Pipe: When welding to ductile iron pipe, use weld metal and molds designated for cast iron.

MOLDS FOR AWG CONDUCTORS

Cable Size	Surface	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6 Sol‡	Flat (12" & Larger pipe)	M-142	18 †	15CP	40-4565-00	2
	3/4" to 3 1/2" pipe	M-150	18 †	15CP	40-4565-00	2
	4" to 10" pipe	M-151	18 †	15CP	40-4565-00	2
#6	Flat (12" & Larger pipe)	M-144	18 †	15CP	40-4565-00	2
	3/4" to 3 1/2" pipe	M-152	18 †	15CP	40-4565-00	2
	4" to 10" pipe	M-153	18 †	15CP	40-4565-00	2
#4 Sol	Flat (12" & Larger pipe)	M-145	18 †	25CP	40-4565-00	2
	3/4" to 1 1/2" pipe	M-186	18 †	25CP	40-4565-00	2
	2" to 4" pipe	M-187	18 †	25CP	40-4565-00	2
	5" to 10" pipe	M-188	18 †	25CP	40-4565-00	2
#4	Flat (12" & Larger pipe)	M-146	18 †	25CP	40-4565-00	2
	3/4" to 1 1/2" pipe	M-189	18 †	25CP	40-4565-00	2
	2" to 4" pipe	M-190	18 †	25CP	40-4565-00	2
	5" to 10" pipe	M-191	18 †	25CP	40-4565-00	2
#2 Sol	Flat (14" & Larger pipe)	M-147	18 †	25CP	40-4565-00	2
	1" to 1 1/2" pipe	M-192	18 †	25CP	40-4565-00	2
	2" to 4" pipe	M-193	18 †	25CP	40-4565-00	2
	5" to 12" pipe	M-194	18 †	25CP	40-4565-00	2
#2	Flat (14" & Larger pipe)	M-148	18 †	32CP	40-4565-00	2
	1" to 1 1/2" pipe	M-195	18 †	32CP	40-4565-00	2
	2" to 3" pipe	M-196	18 †	32CP	40-4565-00	2
	4" to 6" pipe	M-197	18 †	32CP	40-4565-00	2
	8" to 12" pipe	M-198	18 †	32CP	40-4565-00	2
#1	Flat (18" & Larger pipe)	M-6117	19 †	45CP	40-4565-00	4
	1 1/2" to 2 1/2" pipe	M-6118	19 †	45CP	40-4565-00	2
	3" to 4" pipe	M-6119	19 †	45CP	40-4565-00	2
	5" to 10" pipe	M-6120	19 †	45CP	40-4565-00	2
	12" to 16" pipe	M-6121	19 †	45CP	40-4565-00	2
‡ For Wire Size #14 to #10 Solid, 38-0200-00 Sleeve/Weld Req'd						

Welding To Horizontal Pipe: To weld to 4" to 24" horizontal pipe, add pipe size to mold number. Example: To weld #1 str cable to 6" horizontal pipe, the mold number would be M-163-6. To weld to pipe 30" and larger, use flat surface mold.

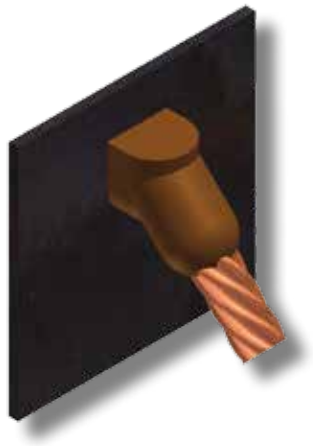
- **For sizes not listed, contact thermOweld®.**
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame If frame not required, specify MOLD NUMBER followed by suffix "-G"
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (Price Key 3 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0101-00 ~ Rasp
  38-4129-00 ~ Packing Material for 50 mm^2 & Larger Molds

CS-37
TYPE MOLDS
Cathodic Protection
Angular Cable Drop to Vertical Cast Iron Surface
For Metric Conductors

MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm^2)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	M-10726	18	45CI	40-4565-00	4
16	M-10727	18	45CI	40-4565-00	4
25	M-10728	18	45CI	40-4565-00	4
30	M-10729	18	45CI	40-4565-00	4
35	M-10730	18	45CI	40-4565-00	4
8 mm Ø	M-10731	18	65CI	40-4565-00	4
50	M-10732	18	65CI	40-4565-00	2
10 mm Ø	M-10733	18	65CI	40-4565-00	4
70	M-10734	18	2-45CI	40-4565-00	4



For connections to pipe, contact thermOweld®.



DO NOT use Type CS-37 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-37
TYPE MOLDS
Cathodic Protection
Cable to Vertical Cast Iron
For AWG Conductors

MOLDS FOR AWG CONDUCTORS						
Cable Size	Surface	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6 Sol‡	Flat (30" & larger pipe)	M-2594-S	18 †	25CI	40-4565-00	2
#6	Flat (30" & larger pipe)	M-2594	18 †	25CI	40-4565-00	2
#4 Sol	Flat (30" & larger pipe)	M-2595-S	18 †	32CI	40-4565-00	4
#4	Flat (30" & larger pipe)	M-2595	18 †	32CI	40-4565-00	2
#2 Sol	Flat (30" & larger pipe)	M-2596-S	19 †	45CI	40-4565-00	4
#2	Flat (30" & larger pipe)	M-2596	19 †	45CI	40-4565-00	2
#1	Flat (30" & larger pipe)	M-2597	19 †	65CI	40-4565-00	4
‡ For Wire Size #14 to #10 Solid, 38-0200-00 Sleeve/Weld Req'd						



- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  - † ~ Sold complete with handles. If not required, specify MOLD NUMBER followed by suffix "-G".
  - 38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  - 40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  - 38-3922-00 ~ Mold Cleaning Brush
  - 38-0135-00 ~ Cable Cleaning Brush
  - 38-0101-00 ~ Rasp

Welding To Vertical Pipe (CS-37 only): To weld to 4" to 24" vertical pipe, add pipe size to mold number. Example: To weld #1 str cable to 6" vertical pipe, the mold number would be M-2597-V6. To weld to pipe 30" and larger, use flat surface mold.

CP KIT



Each CP Kit Contains			
Flat to 125mm & Larger Pipe	Flat to 4" & Larger Pipe	3/4" to 3 1/2" & Larger Pipe	Flat 4" & Larger Pipe
(1) M-4147 Mold	(1) M-100 Mold	(1) M-101 Mold	(1) M-102
(80) 15PS Cartridges*	(80) 15CPS Cartridges*	(80) 15CPS Cartridges*	(80) 15CPS Cartridges*
Flint Ignitor	Flint Ignitor	Flint Ignitor	Flint Ignitor
Mold Cleaner	Mold Cleaner	Mold Cleaner	Mold Cleaner
Part #	Part #	Part #	Part #
38-4518-00	38-4350-00	38-4351-00	38-7280-00

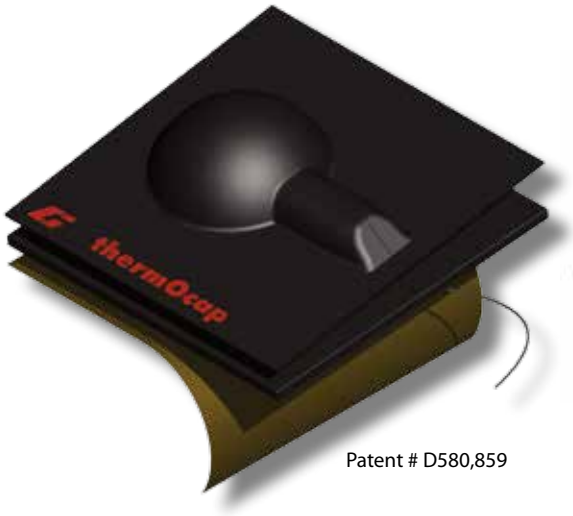
* Sleeves are included in weld metal.

Specialty kits are available for other infrastructure applications and unique contractor needs. The NACE-trained staff at thermOweld® is ready to help you with your cathodic protection project.

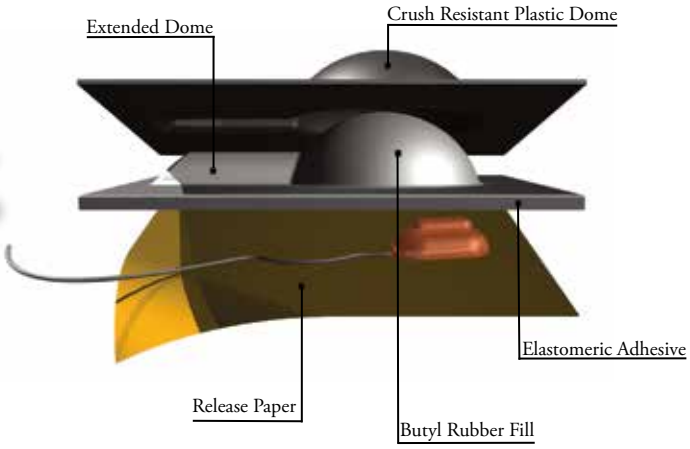
Ci thermOcap®

thermOweld®'s Ci thermOcap® and Ci thermOcap PC® are designed to cover your cathodic protection wire connections on metal pipe and tanks.

- Thick outer shell designed to resist puncture.
- Folds in plastic allow the cap to conform easier to the pipe.
- Butyl rubber filled dome for added corrosion protection for the weld.
- Superior resistance to aging shown through accelerated aging testing.
- Adheres to Ductile Iron, Steel, Stainless Steel, Copper, Aluminum, PVC, PP, PE, FBE powder coating, natural and synthetic rubbers, and Epoxy.
- Outstanding shelf life, resistant to dry rot and cracking.
- Packaged in boxes of 20 with immediate delivery available.
- Works with exothermic and brazed connections
- Ci thermOcap PC® is designed to adhere without spray primer. "***Simply peel and stick"!***



Patent # D580,859



thermOcap and thermOcap Specifications

PROPERTIES		CI THERMOCAP®	CI THERMOCAP PC®
Part Number		38-6687-00	38-6687-02
Dimensions	Overall	4" x 4" (102 mm x 102 mm)	4" x 4" (102 mm x 102 mm)
	Dome	1.75" Dia. 0.75" tall (44.5 mm Dia. 19 mm tall)	1.75" Dia. 0.75" tall (44.5 mm Dia. 19 mm tall)
	Elastomeric Adhesive	0.125" thick (3.2 mm thick)	0.125" thick (3.2 mm thick)
	Plastic Backing	0.021" thick (0.5 mm thick)	0.021" thick (0.5 mm thick)
Primer Required		YES	NO
Application Temperature		35 °F to 125 °F (2 °C to 52 °C)	35 °F to 150 °F (2 °C to 66 °C)
Service Temperature		-20 °F to 225 °F (-29 °C to 107 °C)	-20 °F to 180 °F (-29 °C to 82 °C)
*Adhesion to Steel		15 lb/in (26 N/cm)	15 lb/in (26 N/cm)

*Determined per ASTM D1000/IEC 6045-2, testing method with minor deviations.

Information contained in this document is for reference only. Customers are responsible for determination of this product's suitability for their application. No liability for any loss related to the use or misuse of the material contained herein is accepted.

CP WELD METAL

thermOweld® Cathodic Protection weld metal is the most reliable and consistently-performing weld metal available worldwide. Our continuous-improvement manufacturing process is supplemented with multiple quality validation steps for every lot we produce. Upon final acceptance, our weld metal is specially packaged in moisture-resistant plastic cartridges with special closure caps. Then the cartridges and required metal discs are packaged in moisture-resistant boxes with unique manufacturing lot codes. These lot codes are a thermOweld® innovation, providing complete traceability from raw material origination, through our multiple processing stages to shipment. Finally, thermOweld® applies special shrink-wrap plastic to every weld metal box, insuring reliable storage, positive field ignition and superior welds every time.

Every individual weld metal cartridge is marked with the size and weight in grams for easy identification, even when separated from the host box. thermOweld® weld metal is shipped worldwide to more than 50 countries via ground, air and ocean freight. All sizes of weld metal are available immediately with thermOweld's Same Day Service (SDS) shipment program.

Our engineers have formulated our weld metal for cathodic protection application use.



12 CM
(Weld Metal)

Standard Cartridge Size	Cathodic Protection Cartridge Size	Cast Iron Cartridge Size	Packed Per Box
#15	#15CP, 15CPS*	—	20
#25	#25CP	#25CI	20
#32	#32CP	#32CI	10
#45	#45CP	#45CI	20
#65	#65CP	#65CI	20
thermOweld® Weld Metal is sold in box quantities only			

* 15CPS includes: 20 sleeves.

EZ Lite Remote® Electric Ignition System CP Weld Metal



12 CM
(Weld Metal)

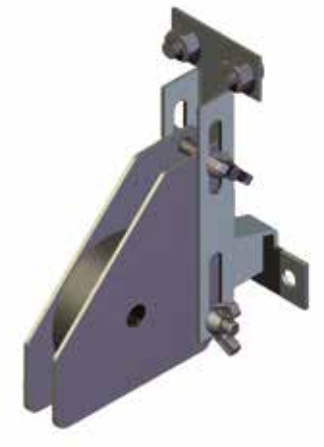
Pre-packaged Weld Metal with Ignitors		
Cathodic Protection	Cast Iron	Packed per box
TW15CPEZ	—	20
TW25CPEZ	TW25CIEZ	20
TW32CPEZ	TW32CIEZ	10
TW45CPEZ	TW45CIEZ	20
TW65CPEZ	TW65CIEZ	20
thermOweld® Weld Metal is sold in box quantities only		

Cathodic Protection Molds with Magnetic Mold Support

New magnetic mold support is adaptable to all thermOweld® price key 3 molds.

- Designed for remote welding use with the thermOweld® EZ Lite Remote® ignition system
- Strong, 48 lb. Magnet Holds Mold in Place and Prevents Leakage
- Adjustable Height
- Works on Both Cast Iron and Steel Pipe as well as Flat Surfaces
- Available as an accessory which can be attached to any existing thermOweld® Price Key 3 mold in your stock, on your truck, or at the jobsite

Catalog #	Description
40-7202-00	Price Key 3 Mold Magnet Assembly
To order molds complete with Magnet Assembly, add suffix -M to mold number. Ex. M-100-M	



40-7202-00 ~ Price Key 3 Mold Magnet Assembly



EZ Lite Remote® Electric Ignition System for Cathodic Protection

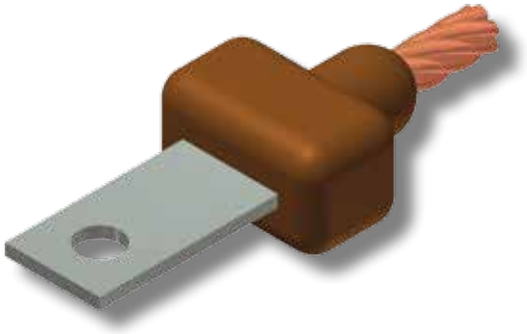
38-EZLT-SK



CB-1

TYPE MOLDS

Horizontal Cable Tap to Horizontal Lug or Bus
For Metric Conductors

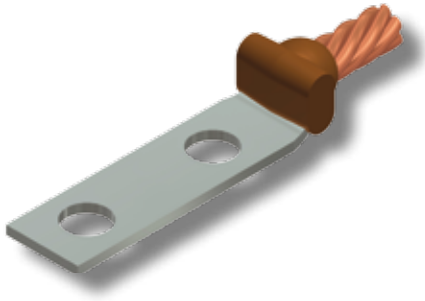


MOLDS FOR METRIC CONDUCTORS						
Cable Size (mm^2)	Lug Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	2 X 20	M-10812	4	32	B-106	4
16	2 X 20	M-10813	4	32	B-106	4
25	2 X 20	M-3534	4	32	B-106	4
35	2 X 20	M-3535	4	32	B-106	4
30	2 X 25	M-3536	4	45	B-106	4
50	2 X 25	M-3537	4	45	B-106	2
	3 X 25	M-3538	4	65	B-106	2
8 mm Ø	2 X 25	M-3539	4	45	B-106	4
	3 X 25	M-3540	4	65	B-106	2
70	3 X 25	M-3541	4	65	B-106	2
	4 X 25	M-3544	4	65	B-106	2
10 mm Ø	3 X 25	M-3545	4	65	B-106	4
	4 X 25	M-3548	4	65	B-106	4
95	4 X 25	M-3549	4	90	B-106	4
	5 X 25	M-3550	4	90	B-106	4
120	5 X 25	M-3551	4	90	B-106	2
	5 X 30	M-3552	4	115	B-106	2
150	5 X 30	M-3553	4	115	B-106	4
	5 X 40	M-3554	4	150	B-106	4
185	5 X 40	M-3555	4	150	B-106	2
	5 X 50	M-3556	5	200	B-107	4
240	5 X 50	M-3557	5	200	B-107	4
	6 X 50	M-3558	5	2-150	B-107	2
300	6 X 50	M-3559	5	2-150	B-107	2
	8 X 50	M-3560	5	2-200	B-107	4

CB-33

TYPE MOLDS

Horizontal Cable Tap to Horizontal Lug or Bus
For Metric Conductors



MOLDS FOR METRIC CONDUCTORS								
Cable Size (mm^2)	Lug Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	One Hole Lug #	Two Hole Luge #
25	3.18 X 25.4	M-10735	4	32	B-106	4	38-4294-00	38-3575-00
35	3.18 X 25.4	M-10736	4	32	B-106	4	38-4294-00	38-3575-00
50	3.18 X 25.4	M-10737	4	45	B-106	4	38-4294-00	38-3575-00
70	3.18 X 25.4	M-4915	4	45	B-106	2	38-4294-00	38-3575-00
95	4.76 X 25.4	M-10738	4	65	B-106	4	38-4293-00	38-4297-00
120	4.76 X 25.4	M-4284	4	65	B-106	4	38-4293-00	38-4297-00
150	6.35 X 25.4	M-10739	4	90	B-106	4	38-4295-00	38-4298-00
185	6.35 X 25.4	M-10740	4	90	B-106	4	38-4295-00	38-4298-00
240	6.35 X 25.4	M-10741	4	150	B-106	4	38-4295-00	38-4298-00

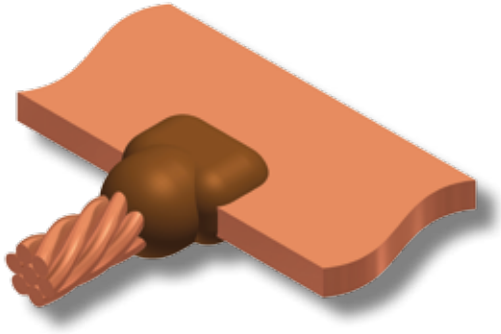
- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush

CB-4

TYPE MOLDS

For Metric Conductors
Horizontal Cable Tap to Horizontal Bus
For AWG Conductors

MOLDS FOR METRIC CONDUCTORS						
Cable Size (mm^2)	Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	2 X 20	M-10814	4	25	B-106	4
16	2 X 20	M-10815	4	32	B-106	4
25	2 X 20	M-3563	4	25	B-106	2
35	2 X 20	M-3565	4	32	B-106	2
30	2 X 25	M-3566	4	45	B-106	4
50	2 X 25	M-3567	4	45	B-106	2
	3 X 25	M-3568	4	45	B-106	2
8 mm Ø	2 X 25	M-3569	4	45	B-106	4
	3 X 25	M-3570	4	45	B-106	2
70	3 X 25	M-3571	4	65	B-106	2
	4 X 25	M-3572	4	65	B-106	2
10 mm Ø	3 X 25	M-3575	4	65	B-106	2
	4 X 25	M-3576	4	65	B-106	2
95	4 X 25	M-3579	4	90	B-106	2
	5 X 25	M-3580	4	90	B-106	4
120	5 X 25	M-3581	4	90	B-106	2
	5 X 30	M-3582	4	115	B-106	2
150	5 X 30	M-3583	4	115	B-106	2
	5 X 40	M-3584	4	115	B-106	2
185	5 X 40	M-3585	4	150	B-106	4
	5 X 50	M-3586	4	150	B-106	2
240	5 X 50	M-3587	4	200	B-106	2
	6 X 50	M-3588	4	250	B-106	2
300	6 X 50	M-3589	5	2-150	B-107	2
	8 X 50	M-3590	5	2-200	B-107	2

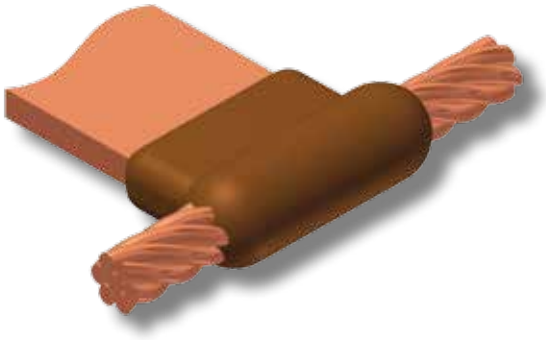


- **For sizes not listed, contact thermOweld®.**
- Molds listed are for concentric stranded cable.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush

CB-5

TYPE MOLDS

Horizontal Bus Tap to Horizontal Cable Run
For Metric Conductors



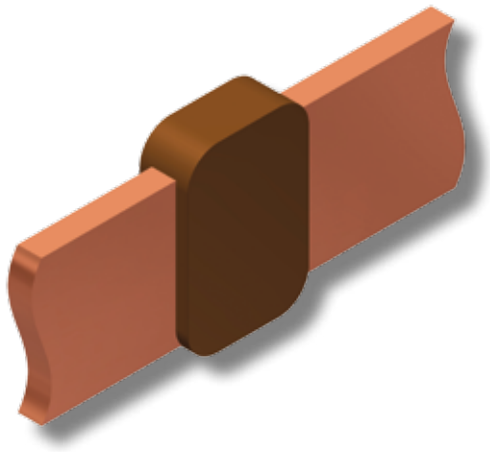
MOLDS FOR METRIC CONDUCTORS						
Cable Size (mm^2)	Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	2 X 20	M-10816	4	45	B-106	4
16	2 X 20	M-10817	4	45	B-106	4
25	2 X 20	M-3595	4	45	B-106	4
35	2 X 20	M-3596	4	45	B-106	2
30	2 X 25	M-3597	4	65	B-106	4
50	2 X 25	M-3598	4	65	B-106	4
	3 X 25	M-3599	4	65	B-106	2
8 mm Ø	2 X 25	M-3600	4	65	B-106	4
	3 X 25	M-3601	4	65	B-106	4
70	3 X 25	M-3602	4	90	B-106	2
	4 X 25	M-3603	4	115	B-106	2
10 mm Ø	3 X 25	M-3606	4	115	B-106	4
	4 X 25	M-3607	4	150	B-106	4
95	4 X 25	M-3610	4	150	B-106	4
	5 X 25	M-3611	4	150	B-106	4
120	5 X 25	M-3612	4	150	B-106	4
	5 X 30	M-3613	4	200	B-106	4
150	5 X 30	M-3614	4	200	B-106	4
	5 X 40	M-3615	4	250	B-106	4
185	5 X 40	M-3616	4	250	B-106	4
	5 X 50	M-3617	5	2-150	B-107	4
240	5 X 50	M-3618	5	2-150	B-107	2
	6 X 50	M-3619	5	2-200	B-107	2
300	6 X 50	M-3620	5	2-250	B-107	2
	8 X 50	M-3621	5	2-250	B-107	2

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For molds with wear plates, see page 135.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush

BB-1

TYPE MOLDS

Horizontal Bus End to End

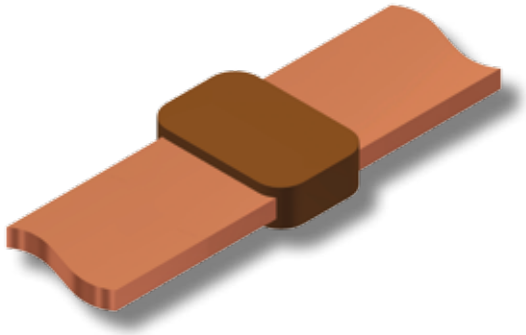


MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-3628	4	45	B-106	4
2 X 25	M-3629	4	65	B-106	4
2 X 30	M-3630	4	65	B-106	2
3 X 20	M-3631	4	45	B-106	4
3 X 25	M-3632	4	65	B-106	2
3 X 30	M-3633	4	90	B-106	4
3 X 40	M-3634	4	115	B-106	4
4 X 25	M-3635	4	90	B-106	4
4 X 30	M-3636	4	115	B-106	4
4 X 40	M-3637	4	150	B-106	4
5 X 30	M-3638	4	115	B-106	2
5 X 40	M-3639	4	150	B-106	2
5 X 50	M-3640	4	200	B-106	2
6 X 40	M-3641	4	200	B-106	2
6 X 50	M-3642	4	250	B-106	2
6 X 60	M-3643	4	250	B-106	4
6 X 80	M-3644	5	2-200	B-107	4
8 X 50	M-3645	5	2-150	B-107	2
8 X 60	M-3646	5	2-200	B-107	4
8 X 80	M-3647	5	500	B-107	4
10 X 60	M-3648	5	500	B-107	4
10 X 80	M-3649	5	3-200	B-107	4

BB-7

TYPE MOLDS

Horizontal Flat Bus End to End



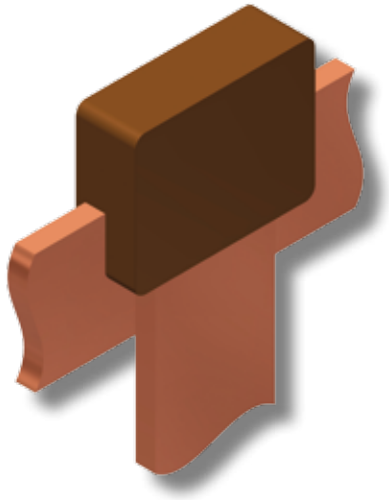
MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-3804	4	45	B-106	4
2 X 25	M-3805	4	45	B-106	4
2 X 30	M-3806	4	65	B-106	2
3 X 20	M-3807	4	45	B-106	2
3 X 25	M-3808	4	65	B-106	2
3 X 30	M-3809	4	65	B-106	2
3 X 40	M-3810	4	65	B-106	4
3 X 50	M-3811	4	90	B-106	2
4 X 20	M-3812	4	65	B-106	4
4 X 25	M-3813	4	90	B-106	4
4 X 30	M-3814	4	90	B-106	2
4 X 40	M-3815	4	115	B-106	2
5 X 20	M-3816	4	90	B-106	4
5 X 25	M-3817	4	90	B-106	4
5 X 30	M-3818	4	115	B-106	2
5 X 40	M-3819	4	150	B-106	2
5 X 50	M-3820	5	200	B-107	2
6 X 25	M-3821	4	115	B-106	2
6 X 30	M-3822	4	150	B-106	4
6 X 40	M-3823	4	200	B-106	2
6 X 50	M-3824	5	250	B-107	2
6 X 60	M-3825	5	2-150	B-107	4
8 X 50	M-3826	5	2-150	B-107	2
8 X 60	M-3827	5	2-200	B-107	4
10 X 50	M-3828	5	2-200	B-107	4
10 X 60	M-3829	5	500	B-107	4

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (BB-7 Molds Only)
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500 (BB-7 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0305-00 ~ Card Cloth Brush

BB-3

TYPE MOLDS

Vertical Drop Tap to Horizontal Run
For Metric Conductors

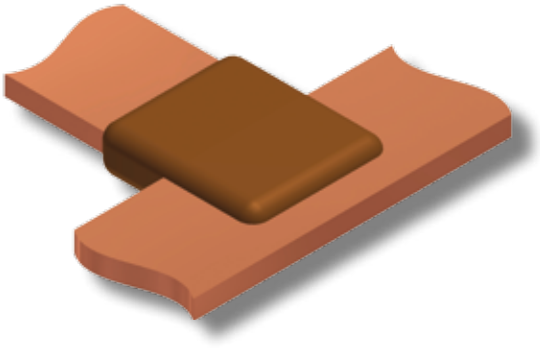


MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-3703	4	45	B-106	4
2 X 25	M-3704	4	65	B-106	4
2 X 30	M-3705	4	65	B-106	2
3 X 20	M-3706	4	65	B-106	2
3 X 25	M-3707	4	65	B-106	2
3 X 30	M-3708	4	90	B-106	4
3 X 40	M-3709	4	115	B-106	4
4 X 25	M-3710	4	90	B-106	2
4 X 30	M-3711	4	115	B-106	2
4 X 40	M-3712	4	150	B-106	2
5 X 30	M-3713	4	115	B-106	2
5 X 40	M-3714	4	150	B-106	4
5 X 50	M-3715	4	200	B-106	4
6 X 40	M-3716	4	200	B-106	2
6 X 50	M-3717	4	250	B-106	2
6 X 60	M-3718	5	2-150	B-107	4
6 X 80	M-3719	6	2-200	B-107	4
8 X 50	M-3720	4	2-150	B-106	2
8 X 60	M-3721	5	2-200	B-107	4
8 X 80	M-3722	6	500	B-107	4
10 X 60	M-3723	5	500	B-107	4
10 X 80	M-3724	6	3-200	B-107	4

BB-14

TYPE MOLDS

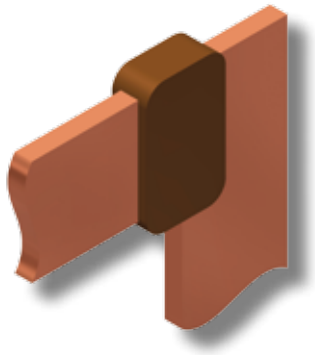
Horizontal Flat Bus Run and Tap
For Metric Conductors



MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-3831	4	45	B-106	4
2 X 25	M-3832	4	45	B-106	4
2 X 30	M-3833	4	65	B-106	2
3 X 20	M-3834	4	45	B-106	4
3 X 25	M-3835	4	65	B-106	2
3 X 30	M-3836	4	65	B-106	2
3 X 40	M-3837	4	90	B-106	4
4 X 20	M-3838	4	65	B-106	2
4 X 25	M-3839	4	90	B-106	2
4 X 30	M-3840	4	90	B-106	2
4 X 40	M-3841	4	115	B-106	2
5 X 20	M-3842	4	90	B-106	2
5 X 25	M-3843	4	90	B-106	2
5 X 30	M-3844	4	115	B-106	2
5 X 40	M-3845	4	150	B-106	2
5 X 50	M-3846	5	200	B-107	2
6 X 40	M-3847	4	200	B-106	2
6 X 50	M-3848	5	250	B-107	2
6 X 60	M-3849	5	2-150	B-107	4
8 X 50	M-3850	5	2-150	B-107	2
8 X 60	M-3851	5	2-200	B-107	4
10 x 40	M-9200	5	150	B-107	4
10 X 60	M-3852	5	500	B-107	4

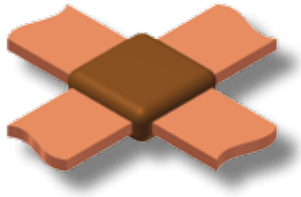
- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (BB-41 Molds Only)
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500 (BB-41 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0305-00 ~ Card Cloth Brush

BB-2
TYPE MOLDS
Horizontal to Vertical at Right Angle



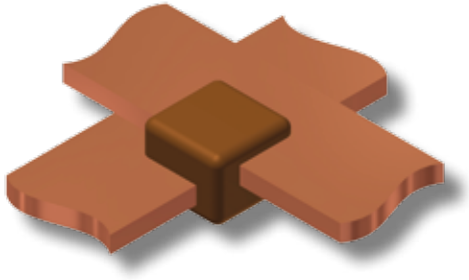
MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-10831	4	45	B-106	4
2 X 25	M-10832	4	45	B-106	4
2 X 30	M-10833	4	45	B-106	4
3 X 20	M-4514	4	45	B-106	2
3 X 25	M-4509	4	45	B-106	2
3 X 30	M-10834	4	65	B-106	4
3 X 40	M-5977	4	65	B-106	4
4 X 25	M-10835	4	90	B-106	4
4 X 30	M-10836	4	90	B-106	4
4 X 40	M-10837	4	115	B-106	4
5 X 30	M-10838	4	115	B-106	4
5 X 40	M-9976	4	150	B-106	2
5 X 50	M-10839	4	200	B-106	4
6 X 40	M-10840	4	200	B-106	4
6 X 50	M-4472	4	250	B-106	2
6 X 60	M-10841	5	2-150	B-107	4
6 X 80	M-10842	5	2-200	B-107	4
8 X 50	M-10843	5	2-200	B-107	4
8 X 60	M-10844	5	500	B-107	4
8 X 80	M-10845	6	3-200	B-107	4
10 X 60	M-10846	5	500	B-107	4
10 X 80	M-10847	6	3-200	B-107	4

BB-40
TYPE MOLDS
Horizontal Flat Bus Cross



MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
3 X 25	M-3748	4	150	B-106	2
6 X 25	M-4966	5	2-150	B-107	2

BB-41
TYPE MOLDS
Horizontal to Horizontal Flat Bus



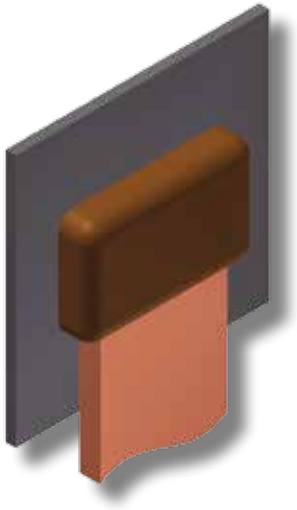
MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-9807	4	45	B-106	4
2 X 25	M-4344	4	65	B-106	2
2 X 30	M-9796	4	65	B-106	4
3 X 20	M-9797	4	65	B-106	2
3 X 25	M-4935	4	65	B-106	2
3 X 30	M-9798	4	90	B-106	4
3 X 40	M-10848	4	115	B-106	2
3 X 50	M-4123	5	115	B-106	4
4 X 20	M-9811	4	115	B-106	2
4 X 25	M-9800	4	90	B-106	2
4 X 30	M-9801	4	90	B-106	2
4 X 40	M-9802	4	150	B-106	2
5 X 20	M-10849	4	115	B-106	4
5 X 25	M-6902	4	115	B-106	4
5 X 30	M-9803	4	115	B-106	2
5 X 40	M-9804	4	150	B-106	4
5 X 50	M-9805	5	200	B-106	2
6 X 25	M-9386	4	200	B-106	2
6 X 30	M-10850	4	200	B-106	4
6 X 40	M-9767	4	200	B-106	2
6 X 50	M-3370	5	250	B-107	2
6 X 60	M-10851	5	2-150	B-107	4
8 X 50	M-10852	5	2-200	B-107	4
8 X 60	M-10853	5	500	B-107	4
10 X 50	M-10854	5	500	B-107	4
10 X 60	M-10855	5	3-200	B-107	4

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65 (BB-41 Molds Only)
  40-0319-03 ~ Mold Cleaner for cartridge sizes #90-#500 (BB-41 Molds Only)
  38-3922-00 ~ Mold Cleaning Brush
  38-0305-00 ~ Card Cloth Brush

BS-1

TYPE MOLDS

Vertical Tap to Vertical Steel Surface
For Metric Conductors

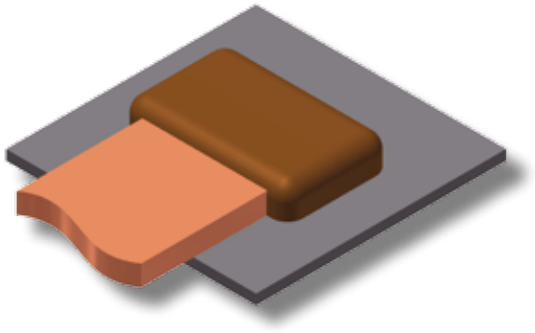


MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-4066	4	65	B-106	4
2 X 25	M-4067	4	90	B-106	4
2 X 30	M-4068	4	90	B-106	2
3 X 20	M-4069	4	65	B-106	4
3 X 25	M-4070	4	90	B-106	2
3 X 30	M-4071	4	90	B-106	4
3 X 40	M-4072	4	150	B-106	4
4 X 25	M-4073	4	90	B-106	2
4 X 30	M-4074	4	115	B-106	4
4 X 40	M-4075	4	200	B-106	4
5 X 30	M-4076	4	150	B-106	2
5 X 40	M-4077	4	200	B-106	2
5 X 50	M-4078	4	250	B-106	2
6 X 40	M-4079	4	250	B-106	4
6 X 50	M-4080	5	2-150	B-107	4
6 X 60	M-4081	5	2-200	B-107	4
6 X 80	M-4082	5	500	B-107	4
8 X 50	M-4083	5	2-200	B-107	4
8 X 60	M-4084	5	500	B-107	4
8 X 80	M-4085	5	3-200	B-107	4
10 X 60	M-4086	5	3-200	B-107	4
10 X 80	M-4087	5	3-250	B-107	4

BS-2

TYPE MOLDS

Horizontal Tap to Horizontal Steel Surface
For Metric Conductors



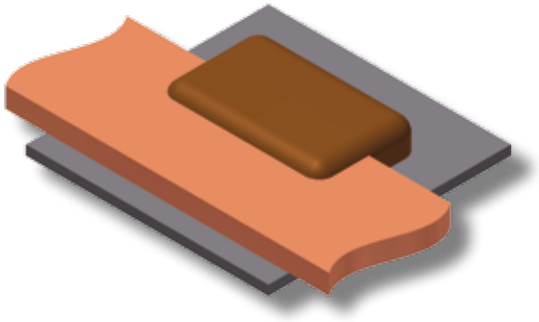
MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-4090	4	65	B-106	4
2 X 25	M-4091	4	90	B-106	4
3 X 20	M-4092	4	90	B-106	4
3 X 25	M-4093	4	90	B-106	2
3 X 30	M-4094	4	115	B-106	4
3 X 40	M-4095	4	115	B-106	4
4 X 25	M-4096	4	90	B-106	4
4 X 30	M-4097	4	150	B-106	4
4 X 40	M-4098	4	200	B-106	4
5 X 30	M-4099	4	200	B-106	4
5 X 40	M-4100	4	200	B-106	2
5 X 50	M-4101	5	2-150	B-107	4
6 X 40	M-4102	4	250	B-106	4
6 X 50	M-4103	5	2-150	B-107	4
8 X 50	M-4104	5	2-200	B-107	4

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0306-00 ~ Card Cloth Brush
  38-0101-00 ~ Rasp

BS-3

TYPE MOLDS

Horizontal Thru Bar to Horizontal Steel Surface
For Metric Conductors



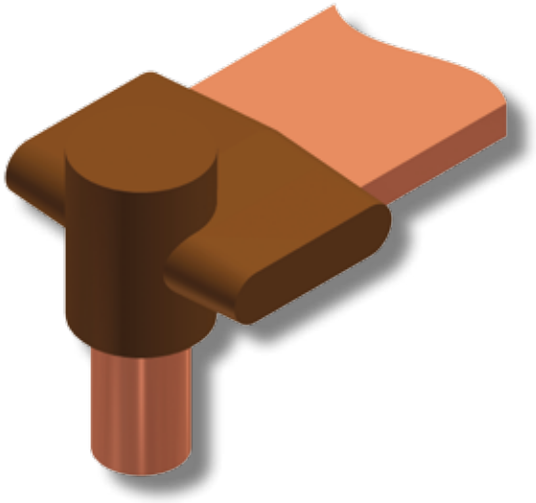
MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-2892	4	65	B-106	4
2 X 25	M-2893	4	90	B-106	4
3 X 20	M-2909	4	90	B-106	4
3 X 25	M-2911	4	115	B-106	2
3 X 30	M-2912	4	115	B-106	2
3 X 40	M-2913	4	150	B-106	4
4 X 25	M-2939	4	115	B-106	4
4 X 30	M-2940	4	150	B-106	4
4 X 40	M-2954	4	200	B-106	4
5 X 30	M-2985	4	200	B-106	4
5 X 40	M-2986	4	250	B-106	4
5 X 50	M-2989	4	250	B-106	4
6 X 50	M-2990	4	250	B-106	4
8 X 60	M-4257	5	2-150	B-107	4
10 X 60	M-4266	5	2-200	B-107	4

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0306-00 ~ Card Cloth Brush
  38-0101-00 ~ Rasp

BR-1

TYPE MOLDS

Horizontal Bus Terminal to Ground Rod
For Metric Conductors



MOLDS FOR METRIC CONDUCTORS						
Ground Rod Size (mm)	Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
12.8	2 X 20	M-3912	4	65	B-106	4
	2 X 25	M-3913	4	65	B-106	4
	2 X 30	M-3914	4	90	B-106	4
	3 X 20	M-3915	4	90	B-106	4
	3 X 25	M-3916	4	90	B-106	2
	3 X 30	M-3917	4	90	B-106	4
	3 X 40	M-3918	4	90	B-106	4
	3 X 50	M-3919	4	115	B-106	4
	4 X 20	M-3920	4	90	B-106	4
	4 X 25	M-3921	4	90	B-106	4
14.3	2 X 30	M-3922	4	115	B-106	4
	3 X 20	M-3923	4	90	B-106	4
	3 X 25	M-3924	4	90	B-106	2
	3 X 30	M-3925	4	115	B-106	4
	3 X 40	M-3926	4	115	B-106	4
	3 X 50	M-3927	4	150	B-106	4
	4 X 20	M-3928	4	90	B-106	4
	4 X 25	M-3929	4	115	B-106	2
	5 X 25	M-3930	4	115	B-106	4
	5 X 30	M-3931	4	150	B-106	2
	5 X 40	M-3932	4	150	B-106	4
	5 X 50	M-3933	4	200	B-106	2
	6 X 25	M-3934	4	150	B-106	2
	6 X 30	M-3935	4	150	B-106	2
	6 X 40	M-3936	4	200	B-106	4
	6 X 50	M-3937	5	200	B-107	2
17.2	2 X 30	M-3938	4	150	B-106	4
	3 X 20	M-3939	4	115	B-106	4
	3 X 25	M-3940	4	150	B-106	2
	3 X 30	M-3941	4	150	B-106	4
	3 X 40	M-3942	4	200	B-106	4
	3 X 50	M-3943	5	2-150	B-107	4
	4 X 20	M-3944	4	150	B-106	4
	4 X 25	M-3945	4	150	B-106	4
	5 X 25	M-3946	4	150	B-106	4
	5 X 30	M-3947	4	200	B-106	4
	5 X 40	M-3948	4	200	B-106	4
	5 X 50	M-3853	5	2-150	B-107	4
	6 X 25	M-3854	4	200	B-106	4
	6 X 30	M-3855	4	250	B-106	4
	6 X 40	M-3856	5	2-150	B-107	4
	6 X 50	M-3857	5	2-200	B-107	4

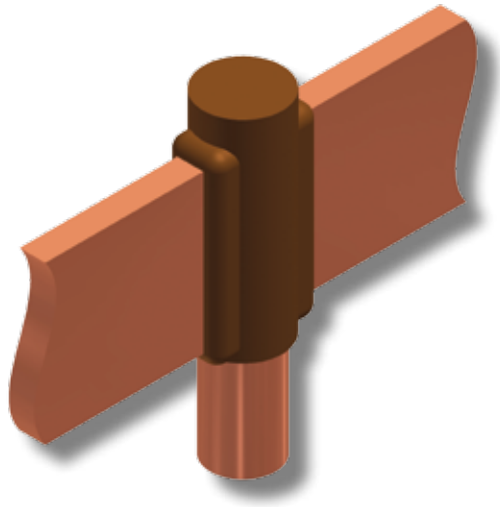
- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

BR-2

TYPE MOLDS

Horizontal Bus to Ground Rod
For Metric Conductors

MOLDS FOR METRIC CONDUCTORS						
Ground Rod Size (mm)	Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
12.8	2 X 20	M-3949	4	65	B-106	4
	2 X 25	M-3950	4	65	B-106	4
	2 X 30	M-3951	4	90	B-106	4
	3 X 20	M-3952	4	90	B-106	4
	3 X 25	M-3953	4	90	B-106	4
	3 X 30	M-3954	4	90	B-106	4
	3 X 40	M-3955	4	90	B-106	4
	3 X 50	M-3956	4	115	B-106	4
	4 X 20	M-3957	4	90	B-106	4
	4 X 25	M-3958	4	90	B-106	4
14.3	2 X 30	M-3959	4	90	B-106	4
	3 X 20	M-3960	4	90	B-106	4
	3 X 25	M-3961	4	90	B-106	2
	3 X 30	M-3962	4	115	B-106	4
	3 X 40	M-3963	4	150	B-106	4
	3 X 50	M-3964	4	200	B-106	4
	4 X 20	M-3965	4	90	B-106	4
	4 X 25	M-3966	4	115	B-106	2
	5 X 25	M-3967	4	115	B-106	4
	5 X 30	M-3968	4	150	B-106	2
	5 X 40	M-3969	4	150	B-106	4
	5 X 50	M-3970	4	200	B-106	4
	6 X 25	M-3971	4	150	B-106	2
	6 X 30	M-3972	4	150	B-106	4
	6 X 40	M-3973	4	200	B-106	2
	6 X 50	M-3974	4	250	B-106	2
17.2	2 X 30	M-3975	4	150	B-106	4
	3 X 20	M-3976	4	150	B-106	4
	3 X 25	M-3977	4	150	B-106	2
	3 X 30	M-3978	4	150	B-106	4
	3 X 40	M-3979	4	200	B-106	4
	3 X 50	M-3980	5	2-150	B-107	4
	4 X 20	M-3981	4	150	B-106	4
	4 X 25	M-3982	4	200	B-106	4
	5 X 25	M-3983	4	150	B-106	4
	5 X 30	M-3984	4	200	B-106	2
	5 X 40	M-3985	4	200	B-106	4
	5 X 50	M-3986	5	2-150	B-107	4
	6 X 25	M-3987	4	200	B-106	2
	6 X 30	M-3988	4	250	B-106	2
	6 X 40	M-3989	4	250	B-106	4
	6 X 50	M-3858	5	2-150	B-107	2

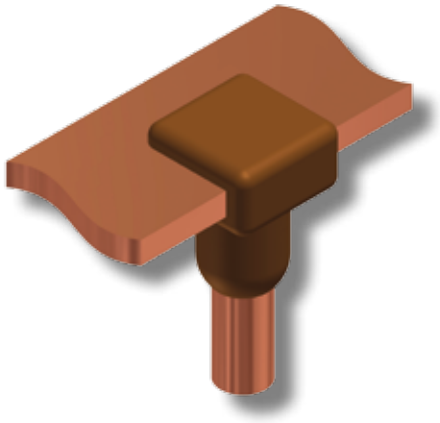


- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

BR-7

TYPE MOLDS

Horizontal Bus to Ground Rod
For Metric Conductors

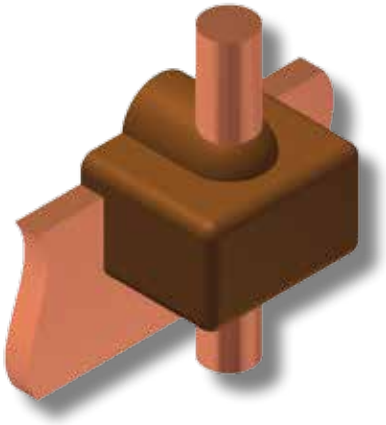


MOLDS FOR METRIC CONDUCTORS						
Ground Rod Size (mm)	Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
12.8	2 X 30	M-10818	4	115	B-106	4
14.3		M-10819	4	115	B-106	4
17.2		M-10820	4	115	B-106	4
12.8	3 X 25	M-10821	4	150	B-106	4
14.3		M-4851	4	150	B-106	2
17.2		M-9311	4	200	B-106	4
12.8	6 X 50 & Wider	M-10822	4	150	B-106	4
14.3		M-9747	5	200	B-107	2
17.2		M-9781	5	200	B-107	2

BR-3

TYPE MOLDS

Horizontal Thru Bus to Ground Rod
For Metric Conductors



MOLDS FOR METRIC CONDUCTORS						
Ground Rod Size (mm)	Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
12.8	3 X 25	M-10778	24	200	B-106	4
14.3	3 X 25	M-2919	24	200	B-106	4
17.2	3 X 25	M-10779	24	2-200	B-106	4

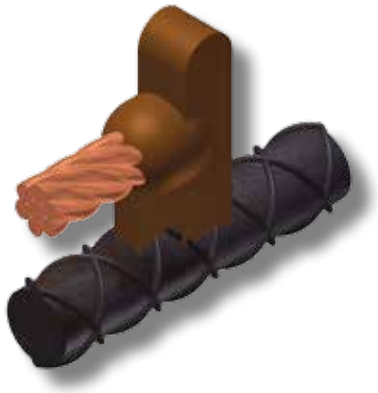
- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File
  38-0330-00 ~ Cable Clamp

CRE-1

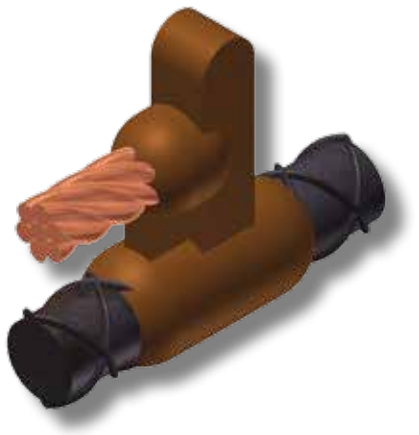
TYPE MOLDS

Horizontal Parallel Tap
For Metric Conductors

MOLDS FOR AWG CONDUCTORS							
Rebar Size (mm)	Cable Size (mm^2)	Mold #	Packing Mat'l # See Note	Price Key	Weld Metal	Handle Clamps	Lead Time
12	25	M-10746	38-0329	4	45	B-106	4
	35	M-10747	38-0329	4	45	B-106	4
	50	M-8789	38-0329	4	90	B-106	2
	70	M-8790	38-0329	4	90	B-106	2
	95	M-8787	38-0329	4	90	B-106	2
16	25	M-10748	38-0329	4	45	B-106	4
	35	M-10749	38-0329	4	45	B-106	4
	50	M-8782	38-0329	4	90	B-106	2
	70	M-8793	38-0329	4	90	B-106	2
	95	M-8813	38-0329	4	115	B-106	2
22 & Larger	35	M-10750	38-4062	14†	45	Included	4
	50	M-10751	38-4062	14†	90	Included	4
	70	M-10752	38-4062	14†	90	Included	2
	95	M-10753	38-4062	14†	115	Included	4



- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File



REBAR PACKING

A packing material is necessary when making thermOweld® connections to Rebar. Be sure to specify Packing Material No. when ordering Mold and Weld Metal. Packing Material is either copper shim stock or ceramic fiber pad and can be used for **one** connection only.

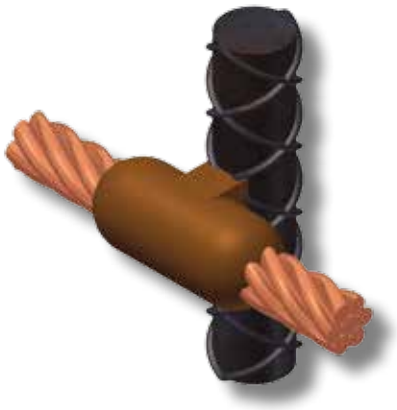
Part #38-0329-00 Copper Shim
Part #38-4061-00 3" x 3" x 1/4"
Part #38-4062-00 3" x 3" x 1/4"
Part #38-4063-00 3" x 2 1/2" x 1/4"



CRE-3

TYPE MOLDS

Horizontal thru Cable to Vertical Rebar
For Metric Conductors





MOLDS FOR AWG CONDUCTORS							
Rebar Size (mm)	Cable Size (mm^2)	Mold #	Packing Mat'l # See Note	Price Key	Weld Metal	Handle Clamps	Lead Time
12	25	M-10823	38-0329	24	90	B-106	4
	35	M-10824	38-0329	24	90	B-106	4
	50	M-10825	38-0329	24	115	B-106	4
	70	M-10826	38-0329	24	115	B-106	2
	95	M-10827	38-0329	24	150	B-106	4
16	25	M-10828	38-0329	24	90	B-106	4
	35	M-9892	38-0329	24	90	B-106	2
	50	M-10829	38-0329	24	115	B-106	4
	70	M-3297	38-0329	24	115	B-106	2
	95	M-3302	38-0329	24	150	B-106	2
22 & Larger	35	M-10830	38-4063	4	115	B-106	2
	50	M-9998	38-4063	4	115	B-106	2
	70	M-9285	38-4063	4	115	B-106	2
	95	M-9288	38-4063	4	150	B-106	2

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  † ~ Sold complete with frame
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File



REBAR PACKING

A packing material is necessary when making thermOweld® connections to Rebar. Be sure to specify Packing Material No. when ordering Mold and Weld Metal. Packing Material is either copper shim stock or ceramic fiber pad and can be used for **one** connection only.

Part #38-0329-00 Copper Shim
Part #38-4061-00 3" x 3" x 1/4"
Part #38-4062-00 3" x 3" x 1/4"
Part #38-4063-00 3" x 2 1/2" x 1/4"

CRE-6

TYPE MOLDS

Horizontal Cable Tap to Vertical Rebar
For Metric Conductors

MOLDS FOR AWG CONDUCTORS							
Rebar Size (mm)	Cable Size (mm^2)	Mold #	Packing Mat'l # See Note	Price Key	Weld Metal	Handle Clamps	Lead Time
12	25	M-10766	38-0329	4	65	B-106	4
	35	M-10767	38-0329	4	65	B-106	4
	50	M-10768	38-0329	4	115	B-106	2
	70	M-3740	38-0329	4	115	B-106	2
	95	M-10769	38-0329	4	150	B-106	2
16	25	M-10770	38-0329	4	65	B-106	4
	35	M-10771	38-0329	4	65	B-106	4
	50	M-10772	38-0329	4	115	B-106	4
	70	M-4263	38-0329	4	115	B-106	2
	95	M-10773	38-0329	4	150	B-106	2
22 & Larger	25	M-10774	38-4063	4	65	B-106-32	4
	35	M-47	38-4063	4	65	B-106-32	2
	50	M-4113	38-4063	4	115	B-106-32	2
	70	M-3876	38-4063	4	115	B-106-32	2
	95	M-8692	38-4063	4	150	B-106-32	2



BRE-8

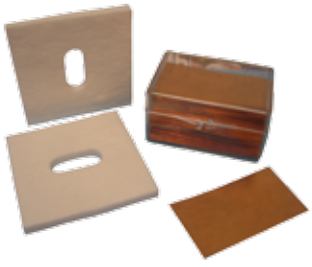
TYPE MOLDS

Horizontal Bus Tap to Vertical Rebar
For Metric Conductors

MOLDS FOR AWG CONDUCTORS							
Rebar Size (mm)	Bus Bar Size (mm)	Mold #	Packing Mat'l # See Note	Price Key	Weld Metal	Handle Clamps	Lead Time
12	3 X 25	M-3668	38-0329	17	115	B-106	4
16		M-10775	38-0329	17	200	B-106	2
22		M-10776	38-0329	7	250	B-106	4
25		M-3669	38-0329	7	250	B-106	2
32		M-10777	38-0329	7	250	B-106	4



- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  Handle Clamps w/ Flint Ignitor (see chart for correct handles)
  38-0309-00 ~ Flint Ignitor or 38-EZLT-RU EZ Lite Remote®
- Other recommended accessories;
  38-3922-00 ~ Mold Cleaning Brush
  38-0135-00 ~ Cable Cleaning Brush
  38-0304-00 ~ File



REBAR PACKING

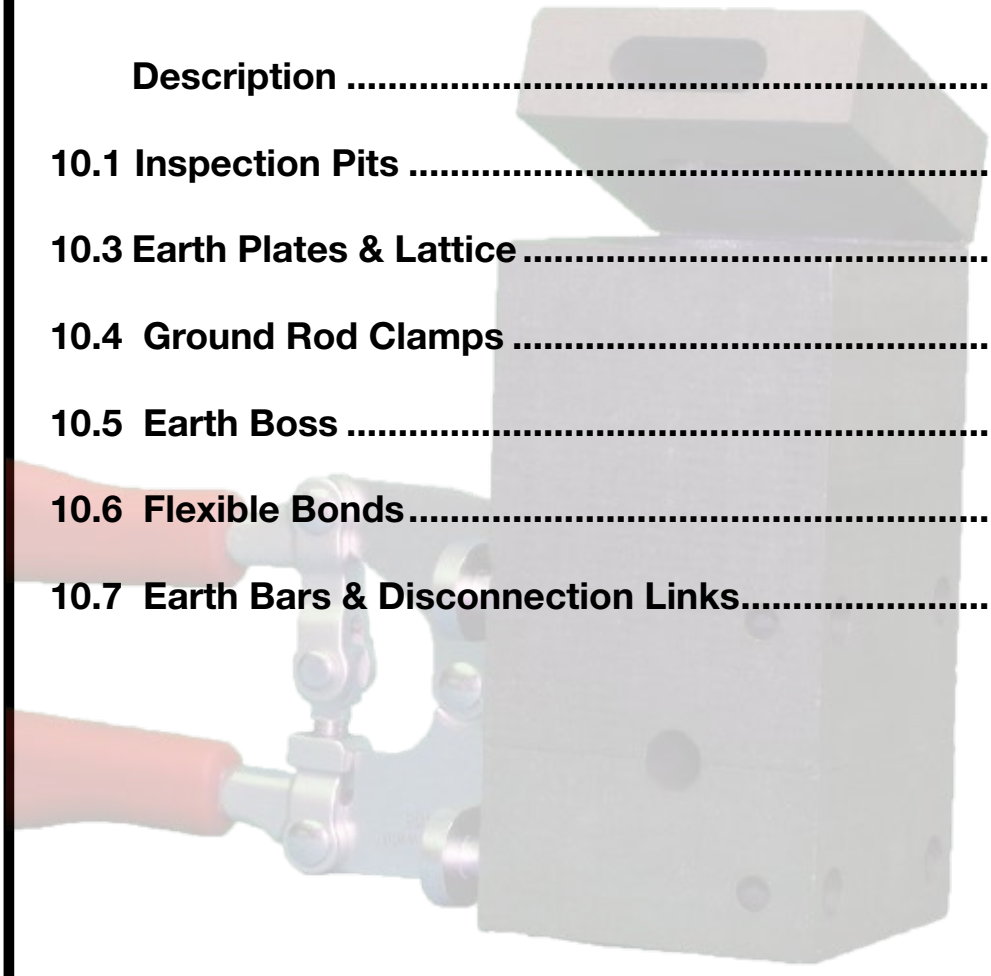
A packing material is necessary when making thermOweld® connections to Rebar. Be sure to specify Packing Material No. when ordering Mold and Weld Metal. Packing Material is either copper shim stock or ceramic fiber pad and can be used for **one** connection only.

Part #38-0329-00 Copper Shim
Part #38-4061-00 3" x 3" x 1/4"
Part #38-4062-00 3" x 3" x 1/4"
Part #38-4063-00 3" x 2 1/2" x 1/4"



Section 10

Metric Earthing/Grounding Products



Description ..... Page #

10.1 Inspection Pits 260

10.3 Earth Plates & Lattice 261

10.4 Ground Rod Clamps 262-265

10.5 Earth Boss 266

10.6 Flexible Bonds 266

10.7 Earth Bars & Disconnection Links 267

INSPECTION PITS

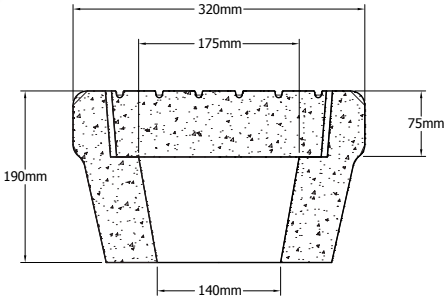
Concrete Inspection Pit

The Concrete Inspection Pit is load rated to 5,000 kgs. and is suitable for most types of earthing and lightning protection installations.

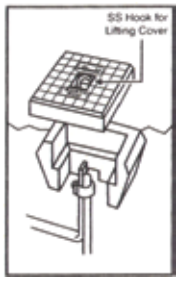
The Pit can have an earth bar fitted diagonally across in slots provided for multiple connections.







Concrete Inspection Pit
Catalog #
38-8011-01

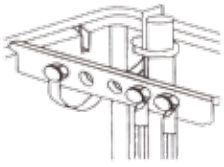


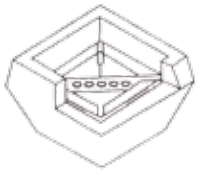
Earth Bars for Inspection Pit

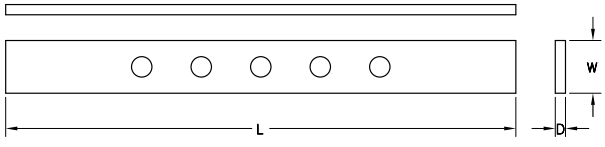
Earth Bars are used for fitting into slots provided in the earth pit where multiple connections are required to the earth rod.



Earth Bars for Inspection Pit				
Catalog #	L (mm)	W (mm)	D (mm)	# of Holes
38-8012-01	300	31	6	5
38-8012-02	300	31	6	7
38-8012-03	225	31	6	5





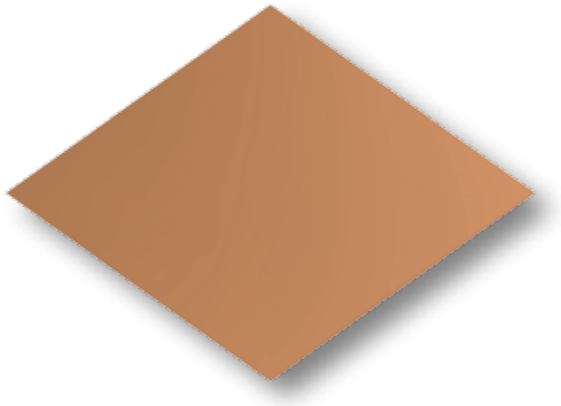


EARTH PLATES & LATTICE

Earth Plate

Earth Plates are used where rods are unsuitable. Earth Plates provide a long lasting alternative when compared to earth rods.

Earth Plate		
Solid Copper Catalog #	Copper Bonded Catalog #	Plate Size (mm)
38-8015-01	38-8016-01	500 x 500 x 1.5
38-8015-02	38-8016-02	500 x 500 x 3
38-8015-03	38-8016-03	600 x 600 x 1.5
38-8015-04	38-8016-04	600 x 600 x 3
38-8015-05	38-8016-05	900 x 900 x 1.5
38-8015-06	38-8016-06	900 x 900 x 3
38-6833-00	N/A	1000 x 1000 x 1
38-8015-07	38-8016-07	1000 x 1000 x 1.5
38-8015-08	38-8016-08	1000 x 1000 x 3



Earth Lattice

Lattice earth mats are used as an alternative to earth plates

Earth Lattice			
Catalog #	Lattice Size (mm)	Conductor Size (mm)	No. of Strips
38-8017-01	500 x 500	25 x 3	5 x 5
38-8017-02	600 x 600	25 x 3	5 x 5
38-8017-03	900 x 900	25 x 3	5 x 5
38-8017-04	900 x 900	50 x 6	7 x 7
38-8017-05	1000 x 1000	25 x 3	5 x 5
38-8017-06	1000 x 1000	50 x 6	7 x 7



GROUND ROD CLAMPS

thermOweld® offers a variety of ground rod clamps suitable for different applications. Conductivity, Mechanical strength and corrosion resistance are important considerations in clamp design to ensure the earthing system is perfect for the life time of the system. All clamps are made of high strength copper alloy bodies and screws of aluminum bronze, phosphor bronze, and stainless steel etc... (commercial Brass is never used)

Rod to Tape Clamp

Type 'A'

Used for joining ground rods to copper tapes, these clamps are available to suit different sizes of earth rods and copper tapes.



Rod to Tape Clamp - Type 'A'		
Catalog #	Rod Dia (mm)	Tape Width (mm)
38-8018-01	12 - 20	25
38-8018-02	12 - 20	31
38-8018-03	12 - 20	38
38-8018-04	12 - 20	50

Rod to Cable Clamp

Type 'G'

These clamps are used for joining ground rods to copper cables.



Rod to Tape Clamp - Type 'G'		
Catalog #	Rod Dia (mm)	Conductor Range (mm^2)
38-8019-01	12.7	16 - 70
38-8019-02	14.2	16 - 70
38-8019-03	17.2	35 - 95
38-8019-04	20.0	50 - 150
38-8019-05	25.0	70 - 185

GROUND ROD CLAMPS

U Bolt Rod Clamp

Type 'E1'

These clamps are used to connect tape to the ground rod.

U Bolt Rod Clamp - Type 'E1'		
Catalog #	Rod Dia (mm)	Tape Width (mm)
38-8020-01	12 - 20	25 - 50
38-8020-02	25	25 - 50



Rod to Tape Clamp

Type 'E2'

These clamps are used to connect tape to the ground rod. This clamp is provided with an additional plate to fix the tape in a vertical position as well.

Rod to Tape Clamp - Type 'E2'		
Catalog #	Rod Dia (mm)	Tape Width (mm)
38-8021-01	12 - 20	25
38-8021-02	25	25
38-8021-03	12 - 20	50
38-8021-04	25	50



Rod to Cable Clamp

Type 'GUV'

Heavy Duty Copper Alloy Double Plate Clamps are suitable for connecting Ground Rod with stranded Cables / round conductors.

Rod to Cable Clamp - Type 'GUV'		
Catalog #	Rod Dia (mm)	Conductor Range (mm^2)
38-8022-01	12 - 20	35 - 185
38-8022-02	16 - 25	70 - 300

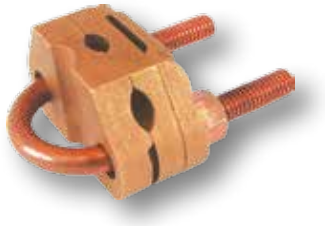


GROUND ROD CLAMPS

Rod to Cable and Tape Clamp

Type 'GUT'

These Special Duty Copper Alloy Tri PLate Clamps are suitable for connecting all the conductors in a single clamp, like; Ground Rods with stranded Cables, round conductors and copper tape.



Rod to Cable & Tape Clamp - Type 'GUT'			
Catalog #	Rod Dia (mm)	Conductor Range (mm)	Tape Width (mm)
38-8023-01	14 - 25	50 - 185	25

Rod to Cable Clamp

Type 'SCE'

Heavy Duty Copper Alloy Double Plate Clamps are suitable for connecting Ground Rods with stranded Cables / round conductors.



Rod To Cable Clamp - Type 'SCE'		
Catalog #	Rod Dia (mm)	Conductor Range (mm^2)
38-8024-01	12 - 20	35 - 185
38-8024-02	16 - 25	70 - 300

Rod to Cable Lug Clamp

Type 'B'

These clamps are used to connect cable lugs to ground rods.



Rod to Cable Lug Clamp - Type 'B'	
Catalog #	Rod Dia (mm)
38-8039-01	12 - 20

GROUND ROD CLAMPS

Split Connector Clamp

Type 'L'

Used with threaded and unthreaded rods, suitable for connecting ground rods with cable lugs.

Rod to Cable Lug Clamp - Type 'L'	
Catalog #	**Rod Dia (mm)**
38-8040-01	12.7
38-8040-02	14.2
38-8040-03	15.0
38-8040-04	16.0
38-8040-05	17.2
38-8040-06	20.0

Rod to Cable Lug Clamp - Type 'L'	
Catalog #	**Thread Dia**
38-8040-07	9/16"
38-8040-08	5/8"
38-8040-09	3/4"



EARTH BONDS

Earth Boss

thermOweld® Earth Boss are welded to steel vessels, tanks and structures to provide an earth point to connect to the main earthing system. Wrap the bond and connection with Petrolatum Tape. Continuous fillet weld of 5 mm is recommended.



Earth Boss			
Catalog #	Dia (mm)	Length (mm)	Stud Size (mm)
38-8046-01	30	30	10 x 30
38-8046-02	30	40	10 x 35
38-8046-03	40	40	10 x 35
38-8046-04	50	50	10 x 40

Flexible Braid Bond

Flexible Copper Braids are suitable for earth bonding where flexibility is required or the bond is subject to movements (Fences, Gates, Doors, Etc..). Other materials, sizes and types of braid can be made to order.

Flexible Braid Bond				
Catalog #	mm^2	Center to Center Dist. of Fixing Hole (mm)	Braid Dimension (mm)	Hole Size (mm)
38-8054-03	35	200	25 x 3.5	12
38-8054-04	35	300	25 x 3.5	12
38-8054-05	35	400	25 x 3.5	12

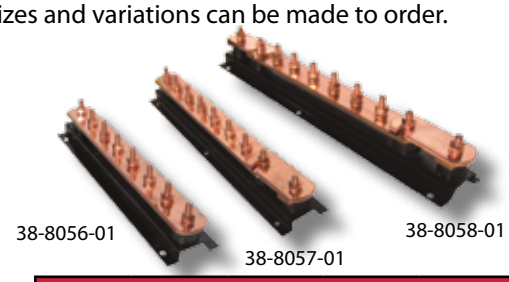


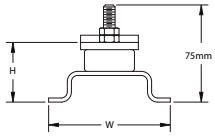
EARTH BARS & DISCONNECTION LINKS

Earth Bars & Disconnection Links

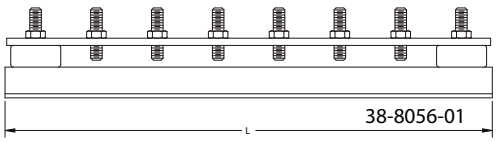
Earth Bars are an efficient and convenient solution for providing a common earth point to connect to the main earthing system. Integral disconnecting links are provided for isolation at the time of testing. These Earth Bars come in a variety of specifications and sizes to suit different applications. The standard sizes are shown in the table with many variations.

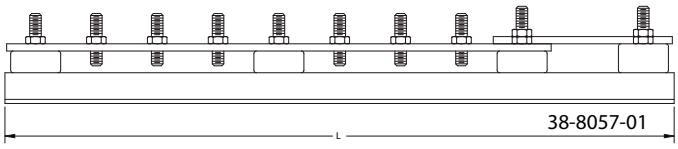
Other sizes and variations can be made to order.

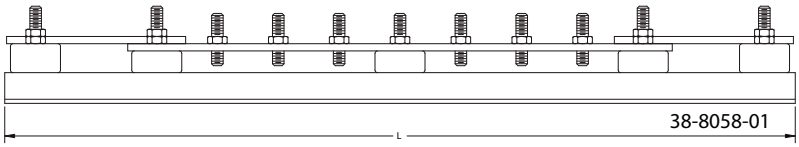




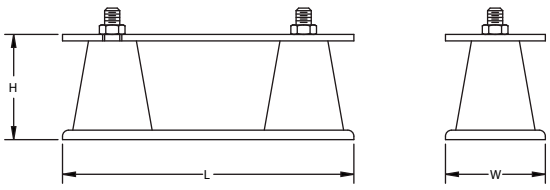
Earth Bars								
Terminals	W (mm)	H (mm)	L (Link-0)	Catalog #	L (Link-1)	Catalog #	L (Link-2)	Catalog #
6	90	48	400	38-8056-01	475	38-8057-01	550	38-8058-01
8	90	48	500	38-8056-02	575	38-8057-02	650	38-8058-02
10	90	48	650	38-8056-03	725	38-8057-03	800	38-8058-03
12	90	48	750	38-8056-04	825	38-8057-04	900	38-8058-04
14	90	48	850	38-8056-05	925	38-8057-05	1000	38-8058-05
16	90	48	950	38-8056-06	1025	38-8057-06	1100	38-8058-06
18	90	48	1050	38-8056-07	1125	38-8057-07	1200	38-8058-07
20	90	48	1200	38-8056-08	1275	38-8057-08	1350	38-8058-08
22	90	48	1300	38-8056-09	1375	38-8057-09	1450	38-8058-09
24	90	48	1400	38-8056-10	1475	38-8057-10	1550	38-8058-10
26	90	48	1500	38-8056-11	1575	38-8057-11	1650	38-8058-11
28	90	48	1650	38-8056-12	1725	38-8057-12	1800	38-8058-12
30	90	48	1750	38-8056-13	1825	38-8057-13	1900	38-8058-13



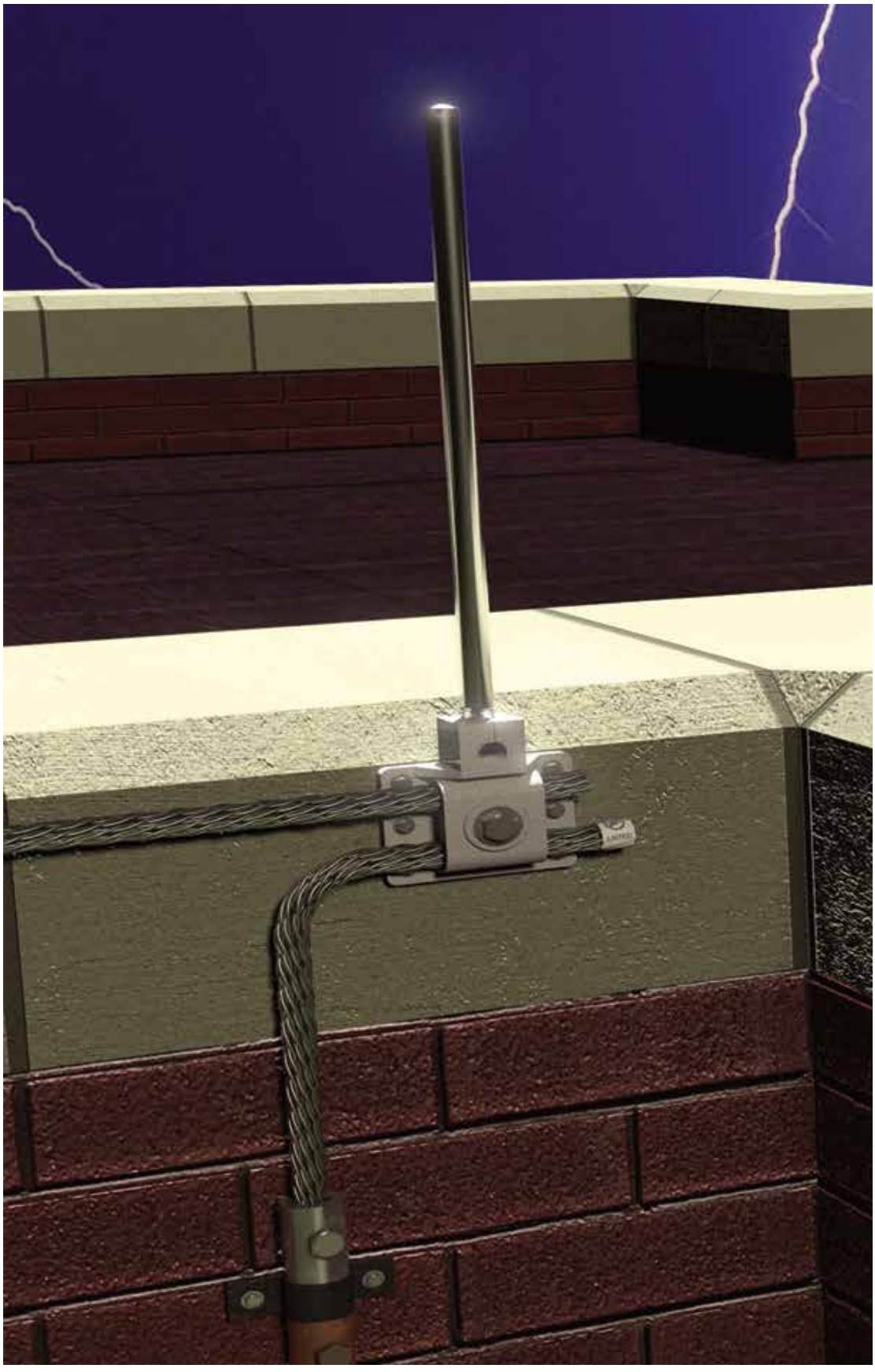




Disconnection Links			
Catalog #	L (mm)	W (mm)	H (mm)
38-8059-01	152	14-1	12 - 32

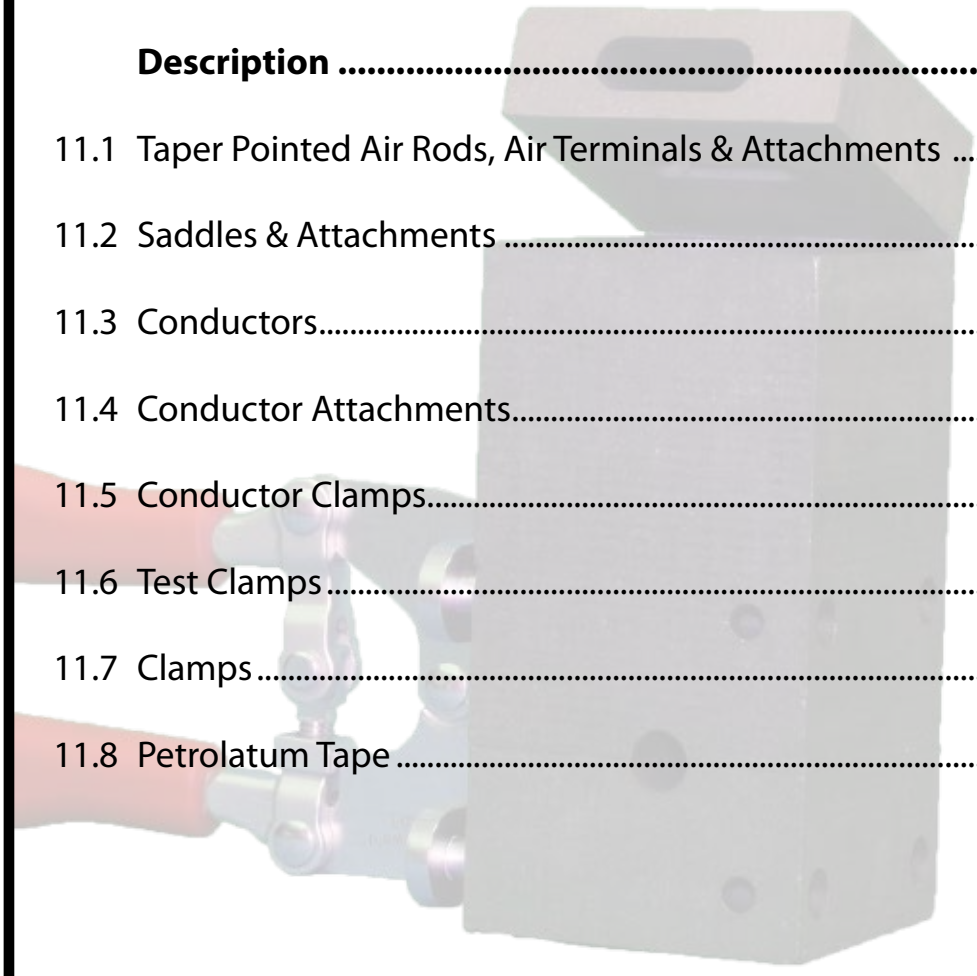






Section 11

Metric Lightning Protection Products



Description	Page #
11.1 Taper Pointed Air Rods, Air Terminals & Attachments	270
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METRIC TAPER POINTED AIR RODS

Taper Pointed Air Rods

Taper pointed air rods provide the strike point in a lightning protection system. They can be used with or without multipoints, however research indicates multiple points with taper rods offer more effectivity.



Taper Pointed Air Rods			
Catalog #	Rod Length (mm)	Rod Dia (mm)	Material
38-7425-01	500	15	Copper
38-7425-00	1000	15	Copper
38-7425-24	1200	15	Copper
38-7425-05	1500	15	Copper
38-7425-03	2000	15	Copper

Air Terminal Base - Tape

These are used for attaching air rods onto flat roof surfaces and to accommodate tape for the protection system. The threads are suitable for air rods.



Air Terminal Base - Tape		
Catalog #	Thread Dia	Max. Tape Conductor (mm)
38-8061-01	16 mm	30 x 6
38-8061-02	5/8"	30 x 6
38-8061-03	3/4"	30 x 6

METRIC SADDLES & ATTACHMENTS

Flat Saddle

Type 'C'

These are used for fixing air rods onto flat roof surfaces and accommodate circular conductors and cables to the protection system. The threads are suitable for air rods.

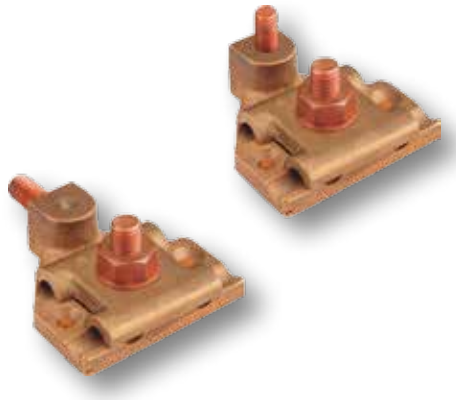
Flat Saddle - Type 'C'			
Catalog #	Conductor Size (mm^2)	Rod Dia (mm)	Thread Dia
38-8065-01	50 - 70	16	16 mm
38-8065-02	95	16	16 mm



Air Rod Base - Cable

These are used for attaching air rods Horizontally or Vertically and to accommodate circular conductors and cables to the protection system. The threads are suitable for air rods.

Air Rod Base - Cable			
Catalog #	Position	Conductor Size (mm^2)	Thread Dia
38-8066-01	Vertical	8	10 mm
38-8066-02	Horizontal	8	10 mm



Rod Brackets - Side Mounting Bracket

Rod Brackets are mainly used where it is not possible to fit a saddle on the roof, so the air rod has to be fitted on the wall or to the side of the building or chimney. The Rod to Tape/Cable Coupling is used to secure air terminal to Tape or Cable.

Rod Brackets - Side Mounting Bracket	
Catalog #	Rod Dia (mm)
38-8067-01	15 - 20



METRIC SADDLES & ATTACHMENTS

Air Rod to Tape/Cable Coupling

These are used in conjunction with the Rod Brackets. The air rod is screwed into the threads provided and the Tape and Cable is secured by the Bolts provided. The threads are suitable for air rods.



Air Rod to Tape/Cable Coupling			
Catalog #	Rod Dia (mm)	Thread Dia	Conductor Dia
38-8068-01	15	16 mm	3 x 25 mm
38-8068-02	15	16 mm	50 - 70 mm²
38-8068-03	15	16 mm	95 mm²
38-8068-04	14.2	5/8"	3 x 25 mm
38-8068-05	14.2	5/8"	50 - 70 mm²
38-8068-06	14.2	5/8"	95 mm²
38-8068-07	17.2	3/4"	3 x 25 mm
38-8068-08	17.2	3/4"	50 - 70 mm²
38-8068-09	17.2	3/4"	95 mm²

Ridge Saddle

These are also air rod bases mainly used for attaching air rods to Ridges and to accommodate circular conductors and cables to the protection system. The threads are suitable for air rods.



Ridge Saddle			
Catalog #	Rod Dia (mm)	Thread Dia	Maximum Tape Size (mm)
38-8070-01	15.0	M16	30 x 6
38-8070-02	14.2	5/8"	30 x 6
38-8070-03	17.2	3/4"	30 x 6

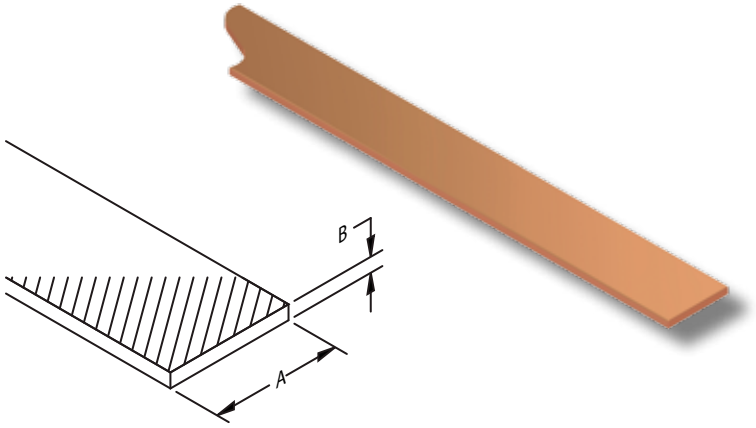
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METRIC CONDUCTORS

Hard Drawn Copper Bar

These are extruded from high grade Copper cathode of purity 99.99% purity. These are available in various sizes in standard length of 4 Mtr.

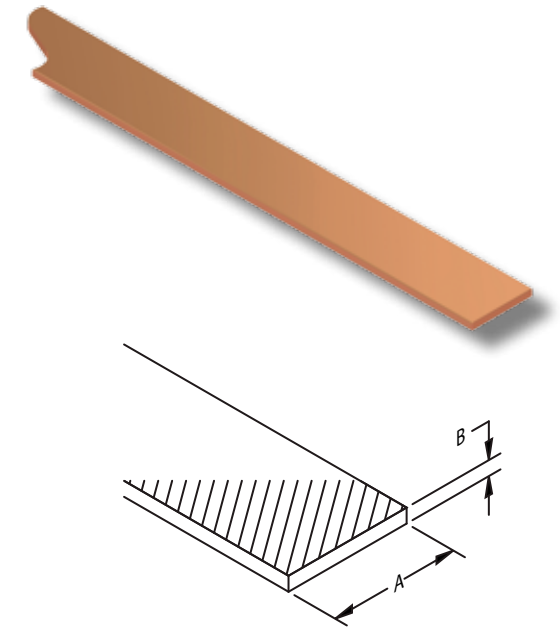
Hard Drawn Copper Bar	
Catalog #	Conductor Size (A x B) mm
38-8071-01	25 x 3
38-8071-02	25 x 6
38-8071-03	38 x 6
38-8071-04	50 x 6
38-8071-05	50 x 10
38-8071-06	75 x 6
38-8071-07	100 x 6



Bare Copper Tape

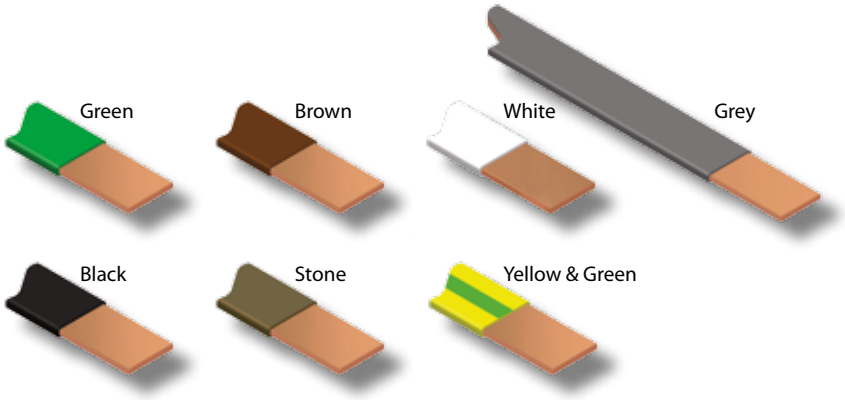
The main component of any Earthing or Lightning Protection System is the actual conductor. thermOweld's Bare Copper Tape is manufactured from the finest quality cathodes with a purity of 99.99%. These Tapes are annealed for ease of use with radiused edges and are oxygen free (oxygen 5ppm). The KA Rating is based on the recommendations of BS: 7430 with an initial temp. of 30° and a maximum of 250°. C.

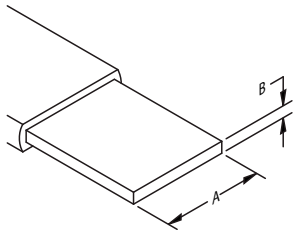
Bare Copper Tape	
Catalog #	Conductor Size (A x B) mm
38-8072-01	12.5 x 1.5
38-8072-02	12.5 x 3
38-8072-03	20 x 1.5
38-8072-04	20 x 3
38-8072-05	25 x 1.5
38-8072-06	25 x 3
38-8072-07	25 x 4
38-8072-08	25 x 6
38-8072-09	30 x 2
38-8072-10	30 x 3
38-8072-11	30 x 4
38-8072-12	30 x 5
38-8072-13	31 x 3
38-8072-14	31 x 6
38-8072-15	38 x 3
38-8072-16	38 x 5
38-8072-17	38 x 6
38-8072-18	40 x 3
38-8072-19	40 x 4
38-8072-20	40 x 5
38-8072-21	40 x 6
38-8072-22	50 x 3
38-8072-23	50 x 4
38-8072-24	50 x 6



- Sold by the coil.

METRIC CONDUCTORS





PVC Covered Tape

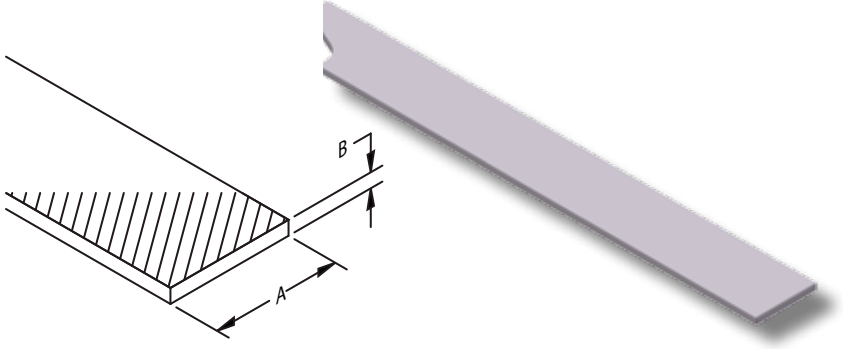
PVC Covered Copper Tapes are similar to the Bare Copper Tapes but covered with PVC for aesthetic purpose to blend the down conductor into the building.

PVC Covered Tape							
Catalog # (Grey)	Catalog # (Green)	Catalog # (Brown)	Catalog # (White)	Catalog # (Black)	Catalog # (Stone)	Catalog # (Yellow/Green)	Conductor Size (A x B) mm
38-8073-01	38-8073-02	38-8073-03	38-8073-04	38-8073-05	38-8073-06	38-8073-07	25 x 3
38-8073-21	38-8073-22	38-8073-23	38-8073-24	38-8073-25	38-8073-26	38-8073-27	25 x 6
38-8073-31	38-8073-32	38-8073-33	38-8073-34	38-8073-35	38-8073-36	38-8073-37	50 x 3
38-8073-41	38-8073-42	38-8073-43	38-8073-44	38-8073-45	38-8073-46	38-8073-47	50 x 6

- Sold by the coil.

Tinned Copper Tape

Bare Copper Tape is annealed and tinned for easy use and extend the life of the conductor.

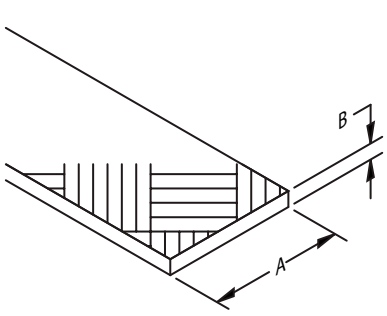


Tinned Copper Tape	
Catalog #	Conductor Size (A x B) mm
38-8074-01	25 x 3
38-8074-02	25 x 6
38-8074-03	30 x 5
38-8074-04	50 x 6

- Sold by the coil.

Flexible Copper Braids

Flexible Copper Braids are suitable for earth bonding of fences, gates, doors, etc., where flexibility is required or the bond is subject to movements. Other materials, sizes and types of braid can be made to order.





Flexible Copper Braids		
Catalog #	Overall Size (A x B) mm	Size (mm^2)
38-8080-01	12 x 1	6
38-8080-02	15 x 1.5	10
38-8080-03	19 x 2.5	16
38-8080-04	25 x 3.5	35
38-8080-05	32 x 6	70

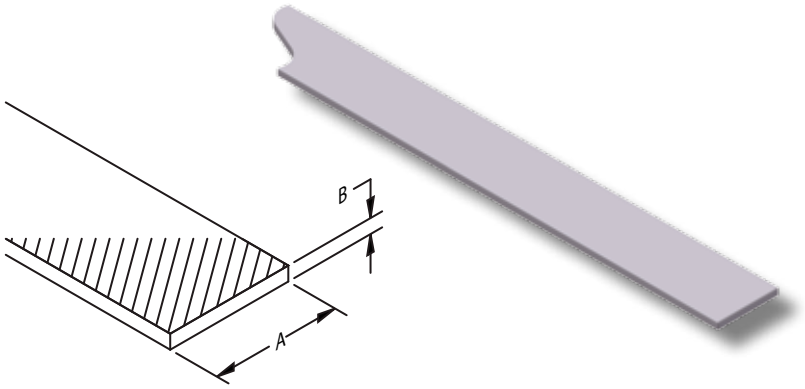
METRIC CONDUCTORS

Bare Aluminum Tape

These Bare Aluminum Tapes are made of high grade aluminum which can be used in lightning protection applications as an economical alternate to copper tapes. The tapes are annealed for ease of use with radiused edges.

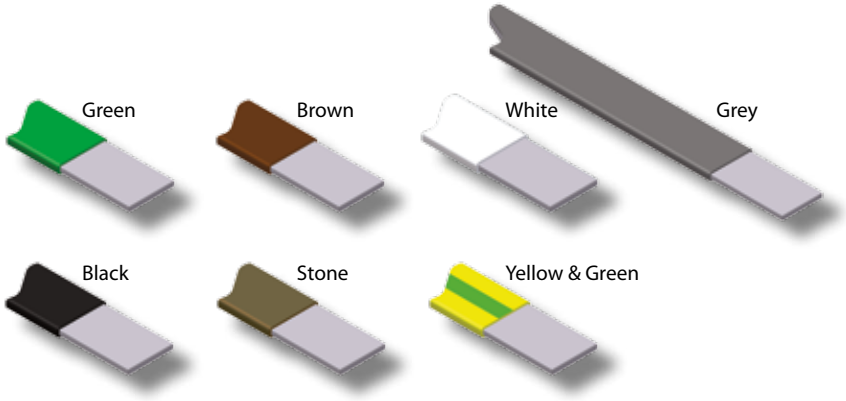
Bare Aluminum Tape	
Catalog #	Conductor Size (A x B) mm
38-8075-01	25 x 3
38-8075-02	25 x 6
38-8075-03	30 x 5
38-8075-04	50 x 6

- Sold by the coil.



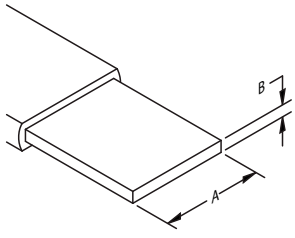
PVC Covered Aluminum Tape

These are similar to Bare Aluminum Tapes but covered with 1mm thick PVC sleeve.



PVC Covered Aluminum Tape							
Catalog # (Grey)	Catalog # (Green)	Catalog # (Brown)	Catalog # (White)	Catalog # (Black)	Catalog # (Stone)	Catalog # (Yellow/Green)	Conductor Size (A x B) mm
38-8076-01	38-8076-02	38-8076-03	38-8076-04	38-8076-05	38-8076-06	38-8076-07	25 x 3
38-8076-21	38-8076-22	38-8076-23	38-8076-24	38-8076-25	38-8076-26	38-8076-27	25 x 6
38-8076-31	38-8076-32	38-8076-33	38-8076-34	38-8076-35	38-8076-36	38-8076-37	50 x 3
38-8076-41	38-8076-42	38-8076-43	38-8076-44	38-8076-45	38-8076-46	38-8076-47	50 x 6

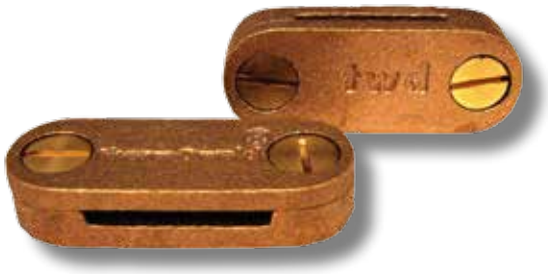
- Sold by the coil.



METRIC CONDUCTOR ATTACHMENTS

DC Tape Clip

Metallic DC Clips are used to secure the flat conductor to the building. It is recommended to use DC Clips at 1 Mtr. distance. The Tape fits into the clip and is secured by two countersunk screws. These clips can be fastened to the building by recommended csk woodscrew 1 1/2" x No 10 plugs.



DC Tape Clip	
Catalog #	Conductor Size mm
38-8083-01	25 x 3
38-8083-02	25 x 6
38-8083-03	30 x 2
38-8083-04	31 x 3
38-8083-05	31 x 6
38-8083-06	38 x 3
38-8083-07	38 x 6
38-8083-08	50 x 3
38-8083-09	50 x 6

Back Plate Hold Fast Stem

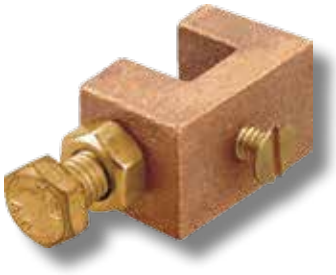
These are used where the tape is to be secured away from the building surface and these are used with appropriate DC Clips.



Back Plate Hold Fast Stem
Catalog #
38-8084-01

Glazing Bar Hold Fast

Glazing Bar Hold Fast can be used to secure DC Clip onto any projection or extension like steel frames, girders, angles, window frames, etc...



Glazing Bar Hold Fast	
Catalog # (Black)	Maximum Glazing Bar Width
38-8085-01	12 mm

METRIC CONDUCTOR ATTACHMENTS

Non Metallic DC Tape Clip

Non-Metallic DC Tape clips are made from high grade polypropylene and are UV stabilized to prevent degradation or breaking in cold weather. The two piece design with a connection link will ensure no lost or dropped lids, the unique locking design provides easy installation and rigid pull off loads. These are made in six colors to match the PVC covered tapes, and can also be used for bare copper tapes.

Non Metallic DC Tape Clip					
Catalog # (Black)	Catalog # (Grey)	Catalog # (Stone)	Catalog # (Brown)	Conductor Size (A x B) mm	Tape Type
38-8086-11	38-8086-12	38-8086-13	38-8086-14	25 x 3	Bare Copper
38-8086-21	38-8086-22	38-8086-23	38-8086-24	25 x 6	Bare Copper
38-8086-31	38-8086-32	38-8086-33	38-8086-34	25 x 3	PVC Covered



Tape Clip

These are used to mount tape flush with the building surface. These are attached using two screws and plugs.

Tape Clip		
Catalog #	Conductor Size (mm)	Material
38-8087-01	25 x 3	Copper
38-8087-02	25 x 6	Copper
38-8087-03	50 x 3	Copper
38-8087-04	50 x 6	Copper



Bimetallic Connector - Tape to Tape

Bimetallic Connectors are used to connect Aluminum Tape to Copper Tape, in order to prevent dissimilar contact and avoid galvanic action. It is recommended to use Aluminum Copper Bimetallic connectors.

Bi-Metallic Connector - Tape to Tape	
Catalog # (Black)	Tape Size (mm)
38-8088-01	25 x 3 - Cu to 25 x 3 Al
38-8088-02	25 x 3 - Cu to 25 x 3 Al
38-8088-03	25 x 3 - 25 x 3



METRIC CONDUCTOR ATTACHMENTS

Square Tape Clamp

Square tape / Junction Clamps are used for crossing over tapes or T joints. These clamp can also be used to make straight through joints in a network of Tapes. These clamps can be fastened to the building by recommended csk woodscrew 1 1/2" x No 10 Plugs.



Square Tape Clamp	
Catalog #	Conductor Size (mm)
38-8089-01	25 x 3
38-8089-02	25 x 6
38-8089-03	30 x 2
38-8089-04	31 x 3
38-8089-05	31 x 6
38-8089-06	38 x 3
38-8089-07	38 x 6
38-8089-08	50 x 3
38-8089-09	50 x 6

Oblong Test or Junction Clamp

Oblong Test / Junction Clamps are used for straight through tape joints and for disconnecting the earthing or Lightning protection system for testing purposes. The tapes can be overlapped and secured by two bolts.



Oblong Test or Junction Clamp	
Catalog #	Conductor Size (mm)
38-8090-01	25 x 3
38-8090-02	25 x 6
38-8090-03	31 x 3
38-8090-04	31 x 6
38-8090-05	38 x 3
38-8090-06	38 x 6
38-8090-07	50 x 3
38-8090-08	50 x 6

METRIC CONDUCTOR ATTACHMENTS

Heavy Duty Cast Cable Saddle

Heavy Duty Cast Cable Saddles can be used in many applications. They can be used as a support for 10mm dia. Air rod or as a Heavy duty Clip for Round conductors. They can also be used in conjunction with Glazing bar holdfast and Back plate holdfast stem.

Jointing Clamp	
Catalog #	Conductor Size (mm^2)
38-8101-01	50
38-8101-02	70
38-8101-03	120



One Hole Clip

One Hole Clips can be used for attaching Cables and round conductors. They are supplied in open position for easy installation.

One Hole Clip	
Catalog #	Conductor Size (mm^2)
38-8102-01	25
38-8102-02	35
38-8102-03	50
38-8102-04	70
38-8102-05	95
38-8102-06	120
38-8102-07	150
38-8102-08	185
38-8102-09	240
38-8102-10	300



METRIC CONDUCTOR CLAMPS

Square Conductor Clamp

These clamps are suitable for forming cross or tee jointing.



Square Conductor Clamp	
Catalog #	Conductor Size (mm)
38-8097-01	8 Dia or 35 - 50 sq

Square Conductor Clamp

Square Conductor Clamps are used for forming straight, Through, Cross or T Joints in Cables and round conductors.



Square Conductor Clamp	
Catalog #	Conductor Size (mm^2)
38-8103-01	35 - 50
38-8103-02	70 - 90

Bi Metallic Connectors - Cable to Cable

Bi- Metallic Connectors are used to connect Aluminum Lightning Protection system to Copper earthing network. In order to prevent dissimilar contact and avoid galvanic action, it is always recommended to use Aluminum Copper Bi-Metallic connectors. The cable can be connected directly into the connector.



Bi Metallic Connectors - Cable to Cable	
Catalog #	Conductor Size (mm)
38-8094-01	8 Dia or 35 - 50 sq

METRIC TEST CLAMPS

Plate Type Test Clamp

Plate Type Test Clamps are used as T or straight through joints of tapes. These Test clamps can also be used as disconnecting joints between the down conductors and the earthing system. The clamp is also suitable in heavy duty applications up to 26 x 12 Tape connections.

Plate Type Test Clamp	
Catalog # (Black)	Conductor Size (mm)
38-8091-01	26 x 12



Screw Down Test Clamp

These Clamps provide easy access to copper tapes for inspection or testing. The heavy duty lid easily screws on/off the base. Due to easy operation, these are not suitable near the ground or within easy reach of the public for security reasons.

Screw Down Test Clamp	
Catalog #	Max. Conductor Size (mm)
38-8092-01	26 x 8



Test Clamp

Test Clamps are for end to end joints of circular conductors.

Test Clamp	
Catalog #	Conductor Size (mm^2)
38-8100-01	35
38-8100-02	50 - 70
38-8100-03	95



Interface Test and Junction Clamp

Junction Clamps are suitable to form straight through joints of Copper Tape to circular conductor or cable for disconnecting or test purposes.

Interface Test and Junction Clamp		
Catalog #	Conductor Size (mm)	Tape Width (mm)
38-8096-01	8 Dia or 35 - 50 sq	25



METRIC CLAMPS

Multi Purpose Clamps

Multi Purpose Clamps are suitable for crossing over Tapes and Cables. These clamps are used to make straight through and T joints in a continuous network.



Multi Purpose Clamps		
Catalog #	Conductor Size (mm)	Tape Size (mm)
38-8093-01	8 Dia or 35 - 50 sq	25 x 3
38-8093-02	10 Dia or 70 - 90 sq	25 x 3

Jointing Clamp

Jointing Clamps are used for forming straight through joints of circular conductors.



Jointing Clamp	
Catalog #	Conductor Size (mm)
38-8099-01	8 Dia or 35 - 50 sq

Tee Clamp

Tee Clamps are suitable for forming tee joints of circular conductors.



Tee Clamp	
Catalog #	Conductor Size (mm)
38-8098-01	8 Dia or 35 - 50 sq

Rebar Clamp

Rebar clamps are suitable for bonding circular conductors to reinforced bars, steam pipes, hand rails, etc..



Rebar Clamp		
Catalog #	Conductor Size (mm)	Rebar Dia (mm)
38-8105-01	8 Dia or 35 - 50 sq	8 - 18
38-8105-02	8 Dia or 35 - 50 sq	18 - 38

METRIC PETROLATUM TAPE

Petrolatum Tape

This is a waterproof tape for wrapping joints to provide protection against corrosion.

Petrolatum Tape	
Catalog #	**Pack**
38-8106-01	50mm x 10m Roll



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TROUBLE SHOOTING TIPS

Problem	Probable Cause	Correction To Make
Insufficient metal to make weld.	Worn mold resulting in leaking weld metal. See image 5 page 287	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. See image 5 page 287	Check ID plate for mold and compare with number on bottom of cartridge.
	Too much spillage when dumping powder. See image 3 page 286	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. See image 6 page 287	Pre-heat mold to above 220˚ F with a propane torch.
	Oil, grease, moisture or foreign material on conductors. See image 6 page 287	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.
	Wrong size cartridge for mold. See image 4 page 286	Check ID plate for mold and compare with number on bottom of cartridge.
	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

TROUBLE 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 too 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.

EXAMPLES OF ACCEPTABLE AND NON ACCEPTABLE WELDS

A Good connection is a normal weld with only minor surface imperfections.

An Acceptable connection is a less than normal weld, but a good performing weld. Imperfections indicate that:

1) a new mold is required,
2) a change in procedure is necessary, or
3) the proper mold conductor and/or welding material was not used.

A Bad connection shows inadequate fill or an extra high riser due to

1) use of incorrect procedure,
2) use of incorrect equipment and/or equipment worn beyond its useful life, or
3) use of incorrect material.

Good Weld



Image 1: A solid weld with only minor surface imperfections.

Acceptable Welds



Image 2: Fill is lower than normal, but still sufficient.



Image 3: A worn or incorrect mold was used, allowing leakage around conductor. The fill in this connection is sufficient to make it as acceptable.



Image 4: Weld is too high. This makes it difficult to remove the weld from the mold.

Continued on next page

EXAMPLES OF ACCEPTABLE AND NON ACCEPTABLE WELDS

Bad Welds



Image 5: Fill too low. Weld cavity was not filled over cable strands.



Image 6: Contaminated weld. Cables excessively dirty or moisture present.



Image 7: Poor connectivity. Visible wire shown in weld.

TROUBLE SHOOTING TIPS
for the EZ Lite Remote® Ignition System

USE A FLINT IGNITOR OR THE EZ Lite Remote® AND NEVER BE STUCK OUT ON THE JOB

Problem	Probable Cause	Correction To Make
Weld metal does not ignite.	Batteries need to be replaced.	Check the battery level indicator; if yellow or red replace with 4 D alkaline batteries.
Ignitor does not ignite.	Ignitor not inserted in the connector properly.	Make sure the ignitor is inserted such that it snaps in the connector.
	Batteries need to be replaced.	Check battery level indicator; if yellow or red replace with 4 D alkaline batteries.
	Ignitor could be used or damaged.	Replace with a new ignitor.
	Cord damaged by improper storage	Replace unit
Battery level indicator does not function.	Batteries need to be replaced.	Replace with 4 D size alkaline batteries.
	Batteries inserted incorrectly.	Check direction at the back of the remote unit to insert the batteries.
	Incorrect battery type.	Make sure D size alkaline batteries are used.
	Blown fuse.	Replace fuse with GMA-6A Cooper Bussmann or equivalent.
	Cold weather has effected the batteries.	Use our Cold Weather kit page 131, or keep EZ Lite Remote warm.



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TERMS & CONDITIONS

1. Agreement -the following terms and conditions of sale shall constitute the complete and final agreement between buyer and Burndy® LLC, hereinafter referred to as "seller", relating to the sale of seller's products or services and shall apply to all quotations, acknowledgements and purchase orders. None of these terms and conditions may be added to, modified, superseded or otherwise altered unless approved by seller in writing. Seller shall not be deemed to have waived these terms and conditions of sale if it fails to object to provisions appearing in, incorporated by reference in, or attached to buyer's purchase order. Buyer's silence or payment for, or acceptance of, or use of products or services related to any purchase order shall constitute an acceptance of these terms and conditions of sale.

2. Payment - Terms of payment are Net 30 Days from date of invoice, unless otherwise stated on the face of said invoice. Lawful interest may be charged on all overdue accounts.

3. Taxes - Any state, local, or federal taxes, excises or other charges now or hereafter imposed for which Seller may be liable as a result of sale, production, or transportation of the products sold hereunder, shall be charged to and paid by Buyer.

4. Prices - Unless otherwise stated in writing on a binding document, the prices herein shall not be increased or decreased except where SELLER raises or lowers its prices in its standard price list or under its standard pricing method for the same products and quantities, supplied under this Agreement. In such events Seller shall have the right but not the obligation, upon giving written notice to Buyer, to increase or decrease the prices payable under this Agreement on all material unshipped as of the date specified in such notice, by the same amount as the price list or standard pricing method increase or decrease.

5. Minimum Order Value – The minimum order value for each order is $100. Orders for less than the minimum order value will be invoiced at the minimum order value.

6. Delivery - Title and Risk of Loss - Unless otherwise agreed, delivery of the goods shall be FOB Seller facility. Title and risk of loss shall vest in Buyer upon delivery of the goods to a common carrier.

7. Ship Date -The ship date stated on the acknowledgment is Seller's best approximation of the anticipated ship date, and shall not be deemed to represent afixed or guaranteed ship date. Unless otherwise agreed to by Seller, Seller reserves the right to ship at its convenience and shall not be liable for any changes in the date of shipment.

8. Testing; Designs - Unless otherwise agreed, the stated prices do not include any qualification testing, test data or the granting of any rights to Buyer for designs, drawings or inventions. All goods are governed by Seller part number and any Buyer numbers are used for reference purposes only. Goods may be ordered by federally controlled specification and/or part numbers where Seller parts are qualified or approved.

9. Tooling - Any Non-Recurring Engineering (NRE) charges invoiced by Seller shall not be deemed to grant Buyer any right, title or interest in any tools, dies, jigs, fixtures and items of like nature, or in any design, engineering, trade secret, patent or other proprietary rights embodied in the tooling, upon Buyer's payment of such charges and such items shall at all times be, and remain, the sole property of Seller.

10. Standard Packaging - Allocation - Purchase orders and releases must be based on standard packaging. In the event of inability for any reason to supply the total demand for the materials specified, Seller may allocate its available supply among any or all purchasers, as well as departments and divisions of Seller, on such basis as it may deem fair and reasonable without liability for any failure of performance that may result therefrom.

11. Quantities - On orders for non-stock items or special orders, where manufacturing processes make it difficult to provide the exact quantity specified, Seller reserves the right to undership or overship and invoice Buyer for total value of item up to -5% or +10% of quantity ordered. The above schedule shall be deemed acceptable unless Buyer states otherwise in writing at the inception of the order, so that extraordinary means may be taken to ensure shipment of exact quantity or acceptable deviation. Prices may then be subject to review and possible increase to compensate for additional costs, at Seller's option.

12. Warranty - Seller warrants that the goods and services, when furnished to Buyer by Seller conform to Seller's current written specifications and drawings, (or if applicable, with those of the Buyer, specifically accepted by Seller in writing) and will be free of defects in material and workmanship. Seller's sole obligation (and buyer's sole and exclusive remedy) for any breach under the foregoing warranty, or otherwise, shall be to repair (at location designated by seller) or, at seller's option, to replace fob the original point of delivery any goods which are non-conforming or defective and are so specified by buyer in written notice to seller within thirty (30) days after date of shipment. Seller makes no warranties of merchantability or fitness for a particular purpose, or any other express or implied warranty. The foregoing warranty shall not apply to goods that have been altered or repaired by anyone except seller's authorized employees, and shall not be enforceable until the goods and services have been paid for in full.

13. Patent Infringement - Seller shall, with respect to the regular sale and use of any product designed by Seller, indemnify Buyer from all damages and costs resulting from any claim that such goods constitute an infringement of any United States Patent, provided that Seller is promptly notified in writing of such claim, given the right to control the defense of any such claim, and such claim does not arise as a result of any application, use, or modification of such products by Buyer or others. Buyer agrees to fully defend, indemnify, and hold Seller harmless from any and all costs, expenses, damages, judgments or losses of any kind, including reasonable attorney's fees, arising from any claim, suit or demand that any goods manufactured by Seller according to Buyer's design, specifications, or instructions, infringe any United States Patent. This paragraph states the entire liability of either party with respect to any patent infringement.

14. Limitation of Liability - No claim of any kind, including patent infringement, whether as to goods or services delivered or for non-delivery of goods or services, shall be greater in amount than the purchase price of the goods or services in respect of which such damages are claimed, except as otherwise stated herein, seller will not, under any circumstances, be liable for the cost of removal or reinstallation of goods or the cost of disassembly or reassembly of equipment in connection therewith, or for loss of the use of buyer's equipment or facilities, or for loss of business or good will or profits, or for cost of inspection or storage, or for any direct, indirect, incidental or consequential damages of any nature or description whatever which may arise from seller's sale of goods or services to buyer. Credit to the extent of the purchase price for goods found to be defective shall be allowed upon return of said goods, but only if (1) returned to designated locations upon obtaining specific written authorization from Seller and before expiration date, if any, and (2) a replacement order is issued by Buyer prior to return. A service charge may be applied upon any return of goods. Failure to give notice within thirty (30) days of ship date shall constitute a waiver of all claims in respect of such goods. The remedy hereby provided shall be the exclusive and sole remedy of buyer.

15. General Terms

a) Any claims for administrative errors must be made within thirty (30) days of receipt of goods, by written notice to Seller.

b) Errors or omissions of a clerical or mechanical nature appearing on the face hereof are subject to correction by Seller.

c) All terms of payment are subject to approval of Seller's Credit Department. Buyer represents to Seller that it is solvent. In the event that Buyer's financial condition shall become impaired prior to full payment to Seller, Buyer shall notify Seller immediately. In the event that Seller, in its sole judgment, finds Buyer's financial condition unsatisfactory to Seller (with or without notice from Buyer), Seller may exercise any or all of the following options: demand immediate payment; suspend all further deliveries; reclaim any goods not paid for; terminate relationship upon written notice to Buyer, without limitation of any other rights or remedies it has herein or under law.

d) All orders and release schedules placed by Buyer and accepted by Seller are considered firm and may not be canceled or changed in any way without prior written approval by Seller. Buyer assumes all risks and agrees to pay all charges applicable to any order cancellation or modification, deferred shipment or product return.

e) Buyer, in the event of its default in any of its obligations hereunder, shall be liable for all of Seller's damages, including its loss of actual or anticipated profits, reasonable attorneys' fees, costs of collections, with interest thereon at the prime rate, in addition to other remedies Seller shall have under law.

f) Seller's failure to insist upon strict performance of any of the terms herein shall not be deemed a waiver of any rights or remedies that Seller may have, and shall not be deemed a waiver of any subsequent breach or default in the terms, conditions, and covenants herein contained.

g) Seller shall not be liable for any failure to carry out its obligations under this agreement where such failure is due to any condition or happening whatsoever beyond its or its suppliers' reasonable control, including but not limited to: fire, windstorm, flood, earthquake, or other Acts of God; strikes, lockouts or other work stoppages; wars, riots, or civil commotion; government priorities, allocations, regulations or restrictions; interference or restraint of public authority (whether legal or not); explosion or accident; epidemic or quarantine restrictions; failure of its suppliers or subcontractors; shortage of raw materials or labor; or any other cause (whether or not of the same kind as those herein specified), which Seller cannot provide against by the exercise of reasonable diligence in its sole judgment. Quantities so affected may, at Seller's sole option, be eliminated without liability, but this agreement shall otherwise remain unaffected.

h) Headings are for convenience only and shall not be used in construing and interpreting this agreement.

i) Neither this agreement nor any rights hereunder may be assigned by Buyer, without the prior written consent of Seller. Seller may assign its rights, liabilities and obligations hereunder to any affiliate or subsidiary without prior written notice.

j) Any technical advice, recommendations and services rendered by the Seller, are based on data believed to be reliable, and are intended for use by skilled persons at their own risk. Seller assumes no responsibility to Buyer for events resulting or damages incurred from their use. They are not to be taken as a license to operate under or intended to suggest infringement of any process.

k) All quotations made by Seller are good for thirty (30) days unless otherwise noted.

16. Government Sales - For direct government sales, all terms and conditions, which are required by law for such sales, are incorporated herein by reference. For sales to a government contractor, only such laws, which are applicable and required of subcontractors of government contractors, are incorporated herein. Such terms and conditions for government contracts shall prevail over any of the standard terms and conditions listed above which may be inconsistent.

17. Compliance With Laws – Seller agrees to observe and comply with all applicable federal, state and local laws, rules, regulations and orders pertaining to the production and sale of goods or services; and in particular, Seller certifies that is has met all applicable requirements of the Occupational Safety and Health Act regulations; and that the goods or services were produced in accordance with the Fair Labor Standards Act and regulations.

18. Compliance with United States Import and Export Laws – Buyer shall ensure that all goods and services, including technical data, delivered by Seller to Buyer, including any subsequent sales, transfers or distribution of the same by Buyer, if imported, shall be in full compliance with applicable United States import laws and regulations. Buyer shall not export or re-export goods and services, including technical data, delivered by Seller to Buyer, except in full compliance with applicable U.S. export laws and regulations.

19. Applicable Law - Jurisdiction – Any legal claims shall be controlled under the laws of the State of New York. Seller and Buyer agree to accept and be bound by the exclusive jurisdiction of the federal and state courts of the State of Delaware. Terms and Conditions February 2013

NOTES

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Quality Products

Superior Service

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