

WORLD MASTER CATALOG



thermOweld®

The Contractors Choice

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GROUNDING | LIGHTNING PROTECTION | CATHODIC PROTECTION | ENERGY | RAIL

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-times 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.

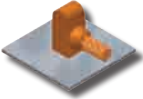
We listen to our customers and we welcome your comments and suggestions to make sure we support you by calling us at 800-558-1373 in North America or +1(918)6275210 International. It's no wonder we are called The Contractor's Choice!

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 the Catalog

The 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 below for a brief tutorial.

Example | 

Section | **MOLDS**

Weld Type | **CS-1**

Application and Usage | **TYPE MOLDS**
Horizontal Cable to Horizontal Steel Surface
For AWG Conductors
Note that the cable is OFF the surface

Lead Time (In Days) | **Section 2 - Molds**

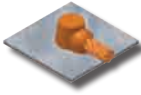
Data Table | **MOLDS FOR AWG CONDUCTORS**

Cable Size	Standard Connection				Heavy Duty Connection					
	Mold #	Price	Weld Metal	Lead Time	Mold #	Price	Weld Metal	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	2	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

Section 2 - Molds

Weld Type | **CS-8**

Application and Usage | **TYPE MOLDS**
Horizontal Cable to Horizontal Steel Surface
For AWG Conductors
Note that the cable is ON the surface

Example | 

Data Table | **MOLDS FOR AWG CONDUCTORS**

Cable Size	Mold #	Price	Weld Metal	Handle Clamps	Lead Time
#6	M-628	31	45	Not Req'd	2
#4	M-629	31	45	Not Req'd	2
#2	M-630	31	45	Not Req'd	2
#1	M-631	31	95	Not Req'd	2
1/0	M-7146	4	90	B-106	2
2/0	M-7075	4	90	B-106	2
3/0	M-2189	4	115	B-106	2
4/0	M-6114	4	115	B-106	2
250 MCM	M-2200	4	115	B-106	2
300 MCM	M-2506	4	150	B-106	2
350 MCM	M-2507	4	200	B-106	4
500 MCM	M-2509	4	200	B-106	2
750 MCM	M-2542	5	2-150	B-107	2
1000 MCM	M-2511	5	2-200	B-107	4

Additional Information |

- 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, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools:
 - Handle Clamps w/ Flare Igniter (see chart for correct handles)
 - 1 - Sold complete with frame
 - 38-0369-00 - Flare Igniter
- 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
 - 38-0185-00 - Cable Cleaning Brush
 - 38-0701-00 - Rasp
 - 38-4129-00 - Packing Material for 1/0 & Larger Molds (CS-8 Molds Only)

Contact Information | **WWW.THERMOWELD.COM • 1-800-558-1373 • +1 (918) 627-5210**

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EZ LITE REMOTE™ ELECTRIC IGNITION SYSTEM



EZ Lite Remote™ Electric Ignition System

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:

Use your existing thermOweld® EZ Lite® molds and weld metal you have today in your truck, at the job site or on your shelf !

- Use your pint 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 !
- Never worry about product obsolescence or dead inventory issues !
- Get it all only from thermOweld® !
- Reliable patent-pending ignitor – 100% guarantee to ignite.
- No starting material needed.
- Use with existing thermOweld EZ Lite® molds and weld metal.
- Triple convenience features – EZ Lite® top light, side vent molds + remote option + famous standard thermOweld® weld metal reliability.
- Quick ignite – no waiting, no guessing.
- Replaceable Alkaline "D" batteries available everywhere give 100's of connections.
- Built-in Battery Life Indicator.
- Separate On/Off and Operate buttons.
- Standard six foot heat-resistant cord and connector, optional lengths available.
- Same Day Service - industry-leading job site supply and support only from thermOweld®.



Patents Pending

EZ LITE REMOTE™ ELECTRIC IGNITION SYSTEM

EZ Lite Remote™ Electric Ignition System for thermOweld® Exothermic Welding

EZ Lite Remote™ Electric Ignition Catalog #'s	
Catalog #	Description
38-EZLT-RU	EZ Lite Remote™ Unit, ready to use with batteries installed at the factory
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.
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

Pre-packaged Weld Metal with Ignitors				
Standard	Cast Iron	Cathodic Protection	Rail	Packed per box
TW15EZ	TW15CIEZ	TW15CPEZ	TW15REZ	20
TW25EZ	TW25CIEZ	TW25CPEZ	TW25REZ	20
TW32EZ	TW32CIEZ	TW32CPEZ	TW32REZ	10
TW45EZ	TW45CIEZ	TW45CPEZ	TW45REZ	20
TW65EZ	TW65CIEZ	TW65CPEZ	TW65REZ	20
TW90EZ	TW90CIEZ	-	TW90REZ	10
TW115EZ	TW115CIEZ	-	TW115REZ	10
TW150EZ	-	-	TW150REZ	10
TW200EZ	-	-	TW200REZ	10
TW250EZ	-	-	TW250REZ	10
TW500EZ	-	-	TW500REZ	10
thermOweld® Weld Metal is sold in box quantities only				





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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 are registered trademarks of Continental Industries.

TERMS & CONDITIONS

1. AGREEMENT. These terms and conditions and the provisions within these price sheets or product catalogs hereof constitute the entire agreement between thermOweld and Buyer. They replace all other statements, representations and agreements, oral or written, made by the parties or their representatives including, without limitation, conflicting or different provisions of Buyer's purchase order. No modification or addition to this agreement shall be binding upon thermOweld unless specifically set forth in writing signed by thermOweld.

2. QUOTATIONS. Written quotations by thermOweld automatically expire 30 days from date of quotation and are subject to termination by notice from thermOweld within that period. thermOweld shall have no liability in respect of any oral quotation or under any oral agreement is confirmed in writing by thermOweld within 10 days thereafter. Buyer's purchase order shall upon receipt by thermOweld at its home offices in Tulsa and Broken Arrow, Oklahoma be deemed an acceptance of thermOweld's quotation or an offer to purchase thermOweld's products, but shall be subject to these terms and conditions. Additional or different terms in Buyer's order or other communication shall not be binding upon thermOweld unless agreed to by thermOweld and Buyer in writing.

3. PRICES; ERRORS. Unless otherwise specifically agreed to in writing by thermOweld, all prices, whether in thermOweld's price list, quotation, order acknowledgment or elsewhere, are in U.S. Dollars and are subject to change without notice at any time prior to shipment of the products. Price increases will not, however, be applied to products covered by an order acknowledgment stipulation shipment date within 15 days after the effective date of the increase. Prices shown on thermOweld's price list or elsewhere are for information only and do not constitute quotations or offers to sell. All orders regardless of prices quoted, and whether places as "blanket", "approximate" or in specific quantities, will be priced based on the quantity actually released in each shipment. thermOweld reserves the right to correct errors in specifications or prices due to typographical, clerical or engineering errors or because of incomplete or inaccurate information from Buyer. Minimum order of \$50 net required. Payment is due 30 days from date of invoice, unless otherwise agreed to in writing.

4. SHIPPING, LOSS AND DAMAGE. Freight terms for all shipments are FOB point of origin unless otherwise agreed to in writing in advance of shipment date. Buyer acknowledges that delivery dates provided by thermOweld are estimates only and that thermOweld is not liable for failure to deliver on such dates. thermOweld reserves the right to make deliveries in installments. In case deliveries are made in installments, thermOweld's payment conditions apply to each part delivered separately. Delay in delivery of one installment shall not entitle Buyer to cancel other installments. Risk of loss or damage to products shall pass to Buyer upon delivery to the first carrier of Buyer's representative or to a carrier of thermOweld's choice. Apparent shortage, visual damage to shipping containers or possible concealed damage conditions must be noted on both consignee's and carrier's delivery receipt of record. thermOweld shall not be responsible for any such conditions unless it and the carrier's local office are notified of such conditions within five days after the date of delivery.

5. CANCELLATION; DELIVERY; DEFERRED DELIVERY. Orders may be canceled only upon written notice from Buyer received by thermOweld at least 30 days prior to shipping date and upon immediate payment by Buyer for all completed products at the unit price; for products in process based on the percentage of completion thereof times the unit price; and for raw material, un-amortized tooling, engineering and other cancellation charges based on the cost to thermOweld plus handling and overhead charges. Orders for less than standard box or package quantities may be increased to standard quantities at thermOweld's discretion without further notification. At thermOweld's discretion, thermOweld may split the order stipulated in Buyer's purchase order in separate orders, which shall then constitute separate agreements. Buyer may defer deliveries only upon Buyer's written request received by thermOweld at least 10 days prior to the originally scheduled shipping date and Buyer's payment in full of the price of the products on or before that date, plus payment of storage charges thereafter. In no event may Buyer defer delivery for more than 60 days without the express written agreement of thermOweld.

6. RETURNS. Returns will require the prior written approval of thermOweld. thermOweld will upon request, furnish Buyer the term and procedures governing returns. Except for in-warranty returns, returns for less than standard box or package quantities or with a total value of less than \$500 will not be accepted. Buyer will be responsible for a minimum restocking charge of 25% of the list price of the returned goods.

7. TOLERANCES. Unless otherwise agreed in writing, all product dimensions are approximate. Consequently, Buyer shall take into account reasonable product tolerances and the standards customarily employed by thermOweld.

8. SPECIAL OR MODIFIED PRODUCTS. Products not cataloged or products cataloged but requiring deviation from standard are subject to applicable pattern, tooling and test charges.

9. TELEPHONED OR FAXED INSTRUCTIONS. thermOweld accepts no responsibility and Buyer will not hold thermOweld responsible for errors or misunderstanding, whether or not due to thermOweld's negligence, in complying with orders or instructions given to thermOweld by telephone or fax. The foregoing also applies to orders or instructions given to a third party for transmittal to thermOweld.

10. TAXES. All duties, sales, use, excise or similar taxes or charges applicable to the sale or use of any products or the furnishing of any service shall be Buyer's responsibility and Buyer shall indemnify thermOweld against any liability there under.

11. WARRANTY; CLAIMS; EXCLUSIVE REMEDY. thermOweld products are warranted to be free from defects in material and workmanship at the time of shipment. NO OTHER WARRANTY, WHETHER EXPRESSED OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), SHALL EXIST IN CONNECTION WITH THE SALE OR USE OF ANY THERMOWELD PRODUCTS. Claims for errors, shortages, defects or nonconformities ascertainable upon inspection must be made in writing within 5 days after Buyer's receipt of products. All other claims must be made in writing to thermOweld within 6 months from the date of shipment or transport. Products claimed to be nonconforming or defective must, upon thermOweld's prior written approval in accordance with Clause 6, promptly be returned to thermOweld for inspection. Claims not made as provided above and within the applicable time period will be barred. thermOweld shall in no event be responsible if the products have not been stored or used in accordance with its specifications and recommended procedures. thermOweld will, at its option, either repair or replace nonconforming or defective products for which it is responsible or return the purchase price to Buyer. THE FOREGOING STATES BUYER'S EXCLUSIVE REMEDY FOR ANY BREACH OF THERMOWELD WARRANTY AND FOR ANY CLAIM, WHETHER SOUNDING IN CONTRACT, TORT OR NEGLIGENCE, FOR LOSS OR INJURY CAUSED BY THE SALE OR USE OF ANY PRODUCT.

12. LIMITATION OF LIABILITY. thermOweld excludes all liability except such liability that is directly attributable to the willful or gross negligence of thermOweld's employees. Should thermOweld be held liable, its liability shall in no event exceed the total purchase price under the contract. THERMOWELD SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS OF BUSINESS OR PROFITS, DOWNTIME OR DELAY, LABOR, REPAIR, OR MATERIAL COSTS OR ANY SIMILAR OR DISSIMILAR CONSEQUENTIAL LOSS OR DAMAGE INCURRED BY BUYER.

13. FORCE MAJEURE. If thermOweld is prevented from performing its obligations by force majeure, thermOweld will have the right to suspend the performance of the agreement or to consider the agreement terminated in whole or in part, at thermOweld's option, without judicial intervention and without thermOweld being liable for any claims for damages or guarantees. Force majeure includes any circumstance, foreseen as well as unforeseen as a result of which observance of the contract can no longer reasonably be expected by Buyer, including but not limited to war, sabotage, rebellion, revolt, transportation disturbances, strikes, accidents, fire, explosion, technical failures and delayed delivery by suppliers.

14. ASSIGNMENT. The rights and obligations of Buyer by virtue of these terms and conditions cannot be assigned by Buyer otherwise than to the successors and assignees of the entire business of Buyer. Upon written communication to Buyer, thermOweld shall have the right to assign and transfer all its obligations and rights under the agreement with Buyer to a third party.

15. SEVERABILITY. If part of this agreement is or becomes invalid or non-binding, thermOweld and Buyer shall remain bound to the remaining part. The invalid or non-binding part shall be replaced by provisions that are valid and binding and give effect to the contents and purpose of this agreement to the greatest extent possible.

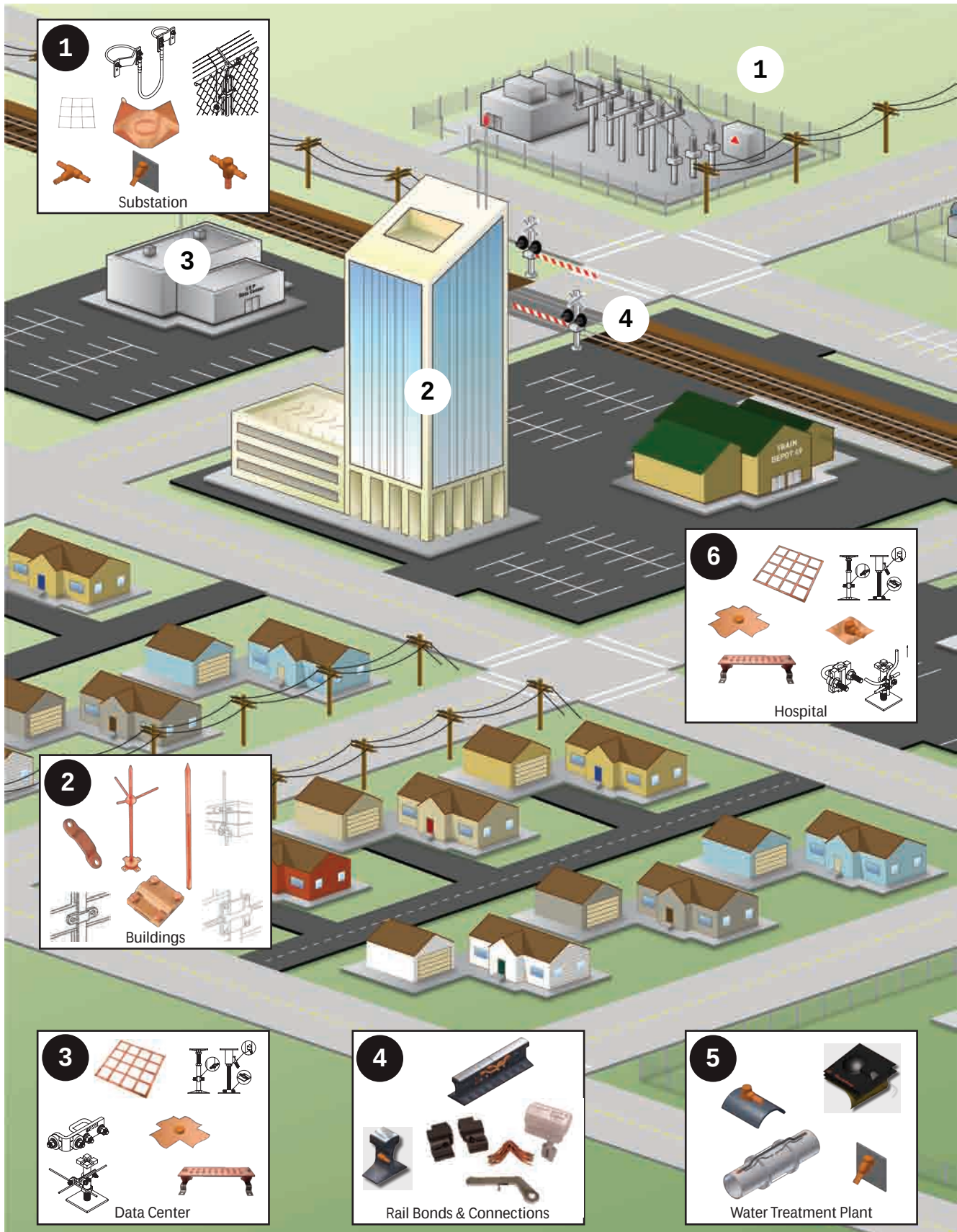
16. GENERAL. This agreement shall be governed by the laws of the State of Oklahoma without reference to its conflict of laws principles. Captions have been inserted solely for convenient reference and shall not limit or affect any provision hereof. No waiver by thermOweld of any right or remedy on any prior occasion shall constitute thermOweld's waiver of any such right or remedy on subsequent similar occasions.

Section 1

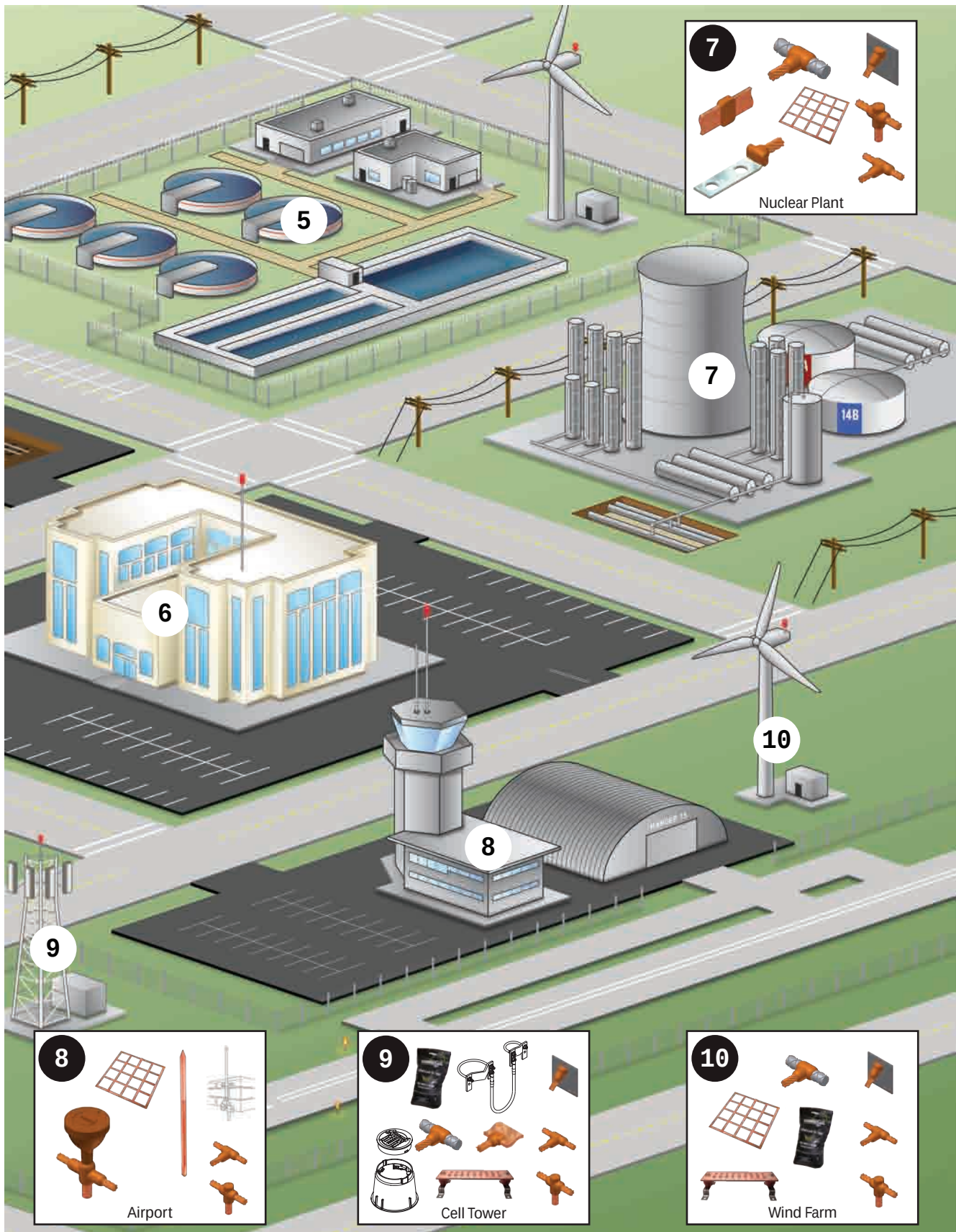
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thermOweld® Infrastructure Applications



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 patented EZ-Lite® mold lid (see page 274), 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 safest operation.

Using thermOweld's superior weld metal (see page 168), a high-temperature reaction between special formulations of powdered copper oxide and aluminum takes place 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 offset handle clamps. 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.

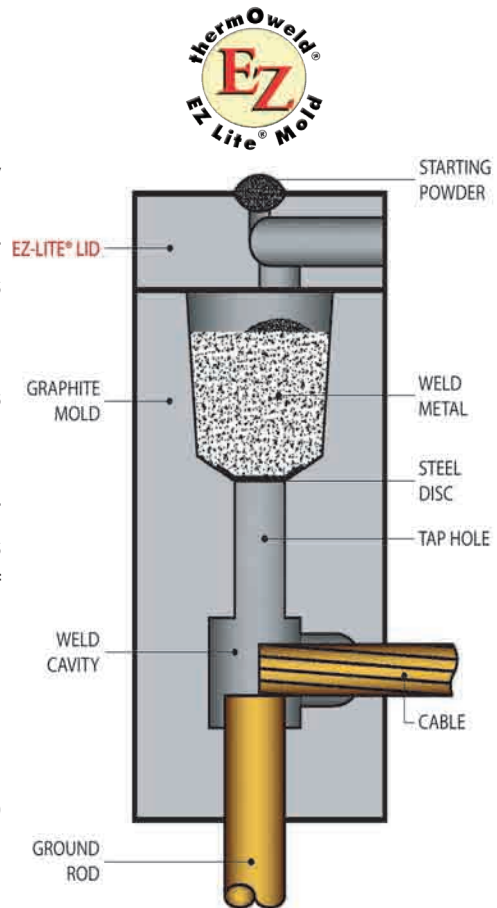
The thermOweld® process creates a permanent, homogenous and molecular bond that cannot loosen or corrode. Compared to compression connectors, split bolts, crimp connectors, brazing and other connections, the thermOweld® connection is clearly superior. In fact, a thermOweld® connection will also withstand 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	Columbium	Brass
Copperweld®	Plain Steel	Bronze
Nichrome V	Everdur®	Niobium
Galvanized Steel	Kama	Chromax
Silicon Bronze	Steel Rail	Cast Iron
Copper-Clad Steel	Cor-Ten®	Monel

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



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 NEC 250 and 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.

thermOweld® EXOTHERMIC MOLDS

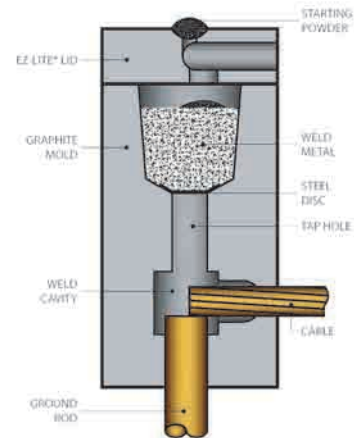
thermOweld® is a process of welding copper to copper, copper to steel and copper to ductile iron. The exothermic reaction takes place in a semi-permanent graphite mold with a special formula of copper oxide and aluminum.

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 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 weldmetal cartridge size, which facilitates burn-off of cable oxidation. 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 applications 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, 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 pint ignitor. This innovative process eliminates the need for a mold, handle clamps, and frames.



SUPERIOR WELD METAL

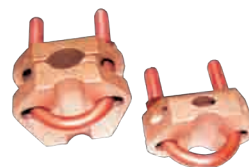
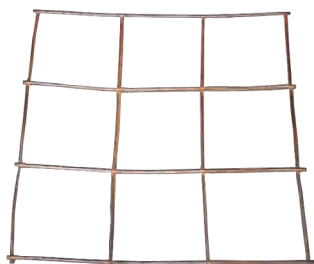
thermOweld® weld metal is packaged in moisture resistant plastic cartridges that have tight fitting caps. These cartridges and the necessary steel disc are then packaged in boxes that are shrink wrapped. Shrink wrapping ensures the weld metal will arrive in good condition, always dry, and ready for a 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 welding systems.

This system uses the same high quality thermOweld® weld powder less the standard starting powder. It is ignited using a rechargeable 12 volt battery and an electric fuse inserted into the crucible of the mold. With this system, the crucible is a semi closed system where the emissions from the reaction are made to pass through a graphite felt filter contained in the lid of the mold. This eliminates most of the visible smoke from the reacting weld powder.

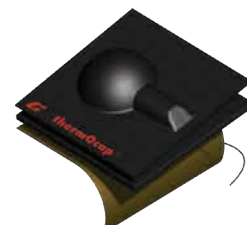
This system is currently available in all of thermOweld's standard configurations that use 200 gram or less cartridge. To order molds, replace the "M" in the mold number with "LE" (ex M-241 becomes LE-241). To order weld metal, place prefix "LE" in front of cartridge size (ex #115 becomes LE#115). For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

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

CATHODIC PROTECTION PRODUCTS, INCLUDING THERMOCAP & THERMOCAP PC

thermOweld's thermOcap is designed to cover your exothermically welded connections. The thermOcap features an elongated wire inlet which allows the cap to conform easier to the pipe. The outer shell is also designed to prevent crushing during backfill. This product is sold in packs of 20 and is immediately available.

thermOweld's new thermOcap PC is designed to cover your exothermically welded connections. The thermOcap PC is our preprimed cap and requires no spray primer. You simply "Peel and Stick"!



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.

The EZ Lite® Lid

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

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 the following insure:

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

Visit www.thermOweld.com for training videos

Making a thermOweld® Cathodic Protection (CP) Connection



1
Clean pipe before making weld.



2
Position conductor and mold onto pipe.



3
Place metal disc in bottom of mold.



4
Pour weld metal into mold.



5
Close lid and place starting powder on top. Ignite starting powder with Flint Ignitor.



6
Remove and clean mold before making next connection.

Why Cathodic Protection?

Cathodic protection (CP) is a technique used to control the corrosion of a metal surface by making it work as a cathode of an electrochemical cell. This is achieved by placing in contact with the metal to be protected another more easily corroded metal to act as the anode of the electrochemical cell. Cathodic Protection systems are most commonly used to protect steel, water/fuel pipelines and storage tanks; steel pier piles, ships, offshore oil platforms and onshore oil well casings.

thermOcap



Finish your connection with a thermOcap. pg 126

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

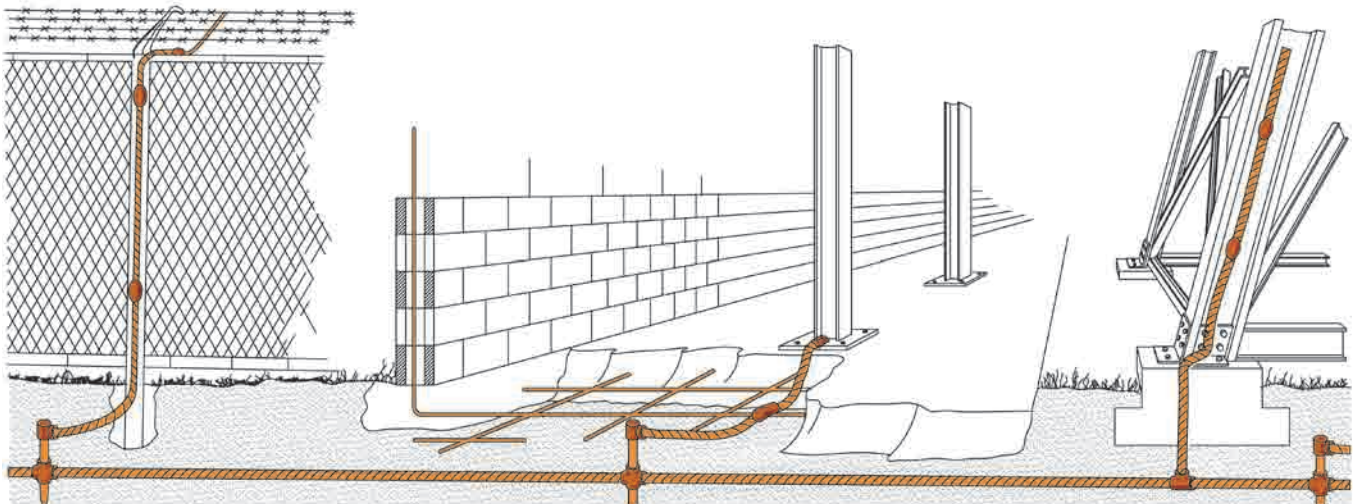
Based on ASTM
Standard Specifications

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"

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/in ³
Steel:
.283 lb/in ³



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

STEEL PIPE SIZES

Standard Weight
(Schedule 40)

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

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

RECTANGULAR COPPER BUSBAR

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

CONCRETE REINFORCING BARS

US Imperial Sizes (Nominal Dimensions)

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

CONVERSION CHART FOR AMERICAN WIRE GAUGE TO METRIC SYSTEM

Size (AWG or MCM)	Amperes Single Cond. 75C Copper (NFPA)	Circular Mils	Cross Sectional Area		Approximate Diameter	
			IN	MM	IN	MM
20	7	1020	.0008	.52	.038	.97
18	10	1620	.0013	.82	.048	1.22
16	15	2580	.0020	1.31	.060	1.52
14	30	4110	.0032	2.08	.078	1.98
12	35	6530	.0051	3.31	.101	2.57
10	50	10380	.0082	5.26	.126	3.20
8	70	16510	.0130	8.37	.162	4.11
6	95	26240	.0206	13.30	.215	5.46
4	125	41740	.0328	21.15	.269	6.83
2	170	66360	.0521	33.62	.337	8.56
1	195	83690	.0657	42.41	.376	9.55
1/0	230	105600	.0829	53.50	.423	10.75
2/0	265	133100	.1045	67.43	.508	12.90
3/0	310	167800	.1318	85.01	.576	14.63
4/0	360	211600	.1662	107.20	.645	16.38
250MCM	405	250000	.1964	126.70	.713	18.11
300MCM	455	300000	.2356	152.00	.768	19.51
500MCM	620	500000	.3927	253.40	.997	25.32
750MCM	785	750000	.5891	380.00	1.207	30.66
1000MCM	935	1000000	.7854	506.70	1.404	35.66

TECHNICAL INFORMATION

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:

- Know the application to determine what materials are to be welded.
- Refer to Selector Chart for correct weld type on pages 18-20.
- Find the appropriate Weld Type.
- Go to the page or pages listed to determine the correct mold #.

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

2. Determine the Correct Mold #:

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

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

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

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

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

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

Mold Availability:

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

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

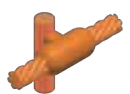
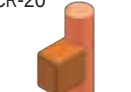
SELECTOR CHART

NOTE: Contact thermOweld® for more information about these and other weld types not listed.

CABLE TO CABLE

CC-1 	CC-2 	CC-3 	CC-4 	CC-5 	CC-6 	CC-7 	CC-11 
CC-13 	CC-14 	CC-21 	CC-23 	CC-24 	CC-25 	CC-26 	CC-27 
CC-28 	CC-29 	CC-30 	CC-31 	CC-33 	CC-34 	CC-35 	CC-36 

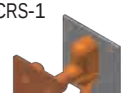
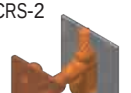
CABLE TO GROUND ROD OR ROD

CR-1 	CR-2 	CR-3 	CR-4 	CR-5 	CR-6 	CR-7 	CR-8 
CR-9 	CR-12 	CR-13 	CR-14 	CR-15 	CR-16 	CR-17 	CR-18 
CR-19 	CR-20 	CR-21 	CR-22 	CR-23 	CR-24 	CR-25 	CR-26 
CR-27 	CR-29 	CR-30 	CR-31 	CR-32 	CR-35 	CR-36 	CR-38 

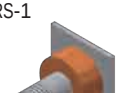
GROUND ROD TO GROUND ROD

RR-1 	RR-2 
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STUD TO CABLE TO STEEL

CRS-1 	CRS-2 
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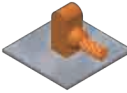
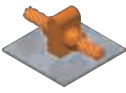
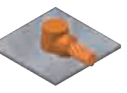
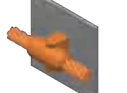
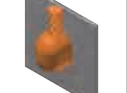
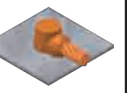
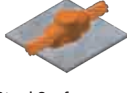
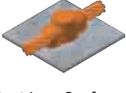
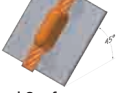
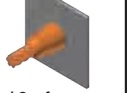
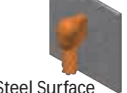
THREADED STUD OR ROD TO STEEL

RS-1 	RS-2 	RS-3 
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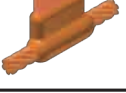
SELECTOR CHART

NOTE: Contact thermOweld® for more information about these and other weld types not listed.

CABLE TO STEEL OR CAST IRON

CS-1  Steel Surface	CS-2  Steel Surface	CS-3  Steel Surface	CS-4  Steel Surface	CS-5  Cast Iron Surface	CS-6  Steel Surface	CS-7  Steel Surface	CS-8  Steel Surface
CS-9  Steel Surface	CS-11  Cast Iron Surface	CS-12  Steel Surface	CS-13  Steel Surface	CS-14  Steel Surface	CS-15  Steel Surface	CS-18  Steel Surface	CS-22  Steel Surface
CS-23  Steel Surface	CS-25  Steel Surface	CS-27  Steel Surface	CS-28  Cast Iron Surface	CS-31  Steel Surface	CS-32 for Cathodic Protection  Steel Surface	CS-33 for Cathodic Protection  Cast Iron Surface	CS-34 for Cathodic Protection  Steel Surface
CS-35 for Cathodic Protection  Cast Iron Surface	CS-36 for Cathodic Protection  Steel Surface	CS-37 for Cathodic Protection  Cast Iron Surface	CS-43  Cast Iron Surface	CS-45  Cast Iron Surface	CS-46  Cast Iron Surface	CS-48 for Cathodic Protection  Steel Surface	CS-49 for Cathodic Protection  Cast Iron Surface

CABLE TO BUS BAR OR LUG

CB-1  Steel Surface	CB-2  Steel Surface	CB-3  Steel Surface	CB-4  Steel Surface	CB-5  Steel Surface	CB-6  Steel Surface	CB-7  Steel Surface	CB-8  Steel Surface
CB-9  Steel Surface	CB-11  Steel Surface	CB-12  Steel Surface	CB-15  Steel Surface	CB-16  Steel Surface	CB-17  Steel Surface	CB-18  Steel Surface	CB-19  Steel Surface
CB-20  Steel Surface	CB-21  Steel Surface	CB-22  Steel Surface	CB-23  Steel Surface	CB-24  Steel Surface	CB-25  Steel Surface	CB-26  Steel Surface	CB-27  Steel Surface
CB-28  Steel Surface	CB-29  Steel Surface	CB-30  Steel Surface	CB-31  Steel Surface	CB-32  Steel Surface	CB-33  Steel Surface	CB-34  Steel Surface	CB-38  Steel Surface

AIRCRAFT RECEPTACLE TO CABLE

AC-1 	AC-2 
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AIRCRAFT RECEPTACLE TO CABLE AND ROD

ACR-1 	ACR-2 
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AIRCRAFT RECEPTACLE TO ROD

AR-1 

SELECTOR CHART

NOTE: Contact thermOweld® for more information about these and other weld types not listed.

BUS BAR TO BUS BAR

BB-1 	BB-2 	BB-3 	BB-4 	BB-5 	BB-6 	BB-7 	BB-12
BB-14 	BB-17 	BB-20 	BB-21 	BB-22 	BB-27 	BB-29 	BB-41

BUS BAR TO STEEL

BS-1 	BS-2 	BS-3 	BS-4 	BS-5 	BS-6 	BS-7 	BS-8
Steel Surface	Steel Surface	Steel Surface	Steel Surface	Cast Iron Surface	Steel Surface	Steel Surface	Steel Surface
BS-13 	BS-14 	BS-15 	BS-16 	BS-17 	BS-18 	BS-19 	BS-20
Steel Surface	Cast Iron Surface	Steel Surface	Steel Surface	Steel Surface	Steel Surface	Steel Surface	Steel Surface

CABLE TO REBAR

CRE-1 	CRE-2 	CRE-3 	CRE-4 	CRE-5 	CRE-6 	CRE-7 	CRE-8
CRE-9 	CRE-11 	CRE-12 	CRE-13 	CRE-14 	CRE-15 	CRE-16 	CRE-17
CRE-18 	CRE-19 	CRE-20 	CRE-21 				

BUS BAR TO GROUND ROD

BR-1 	BR-2 	BR-4 	BR-5 	BR-6 	BR-7 	BR-8 	BR-12
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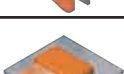
Section 2

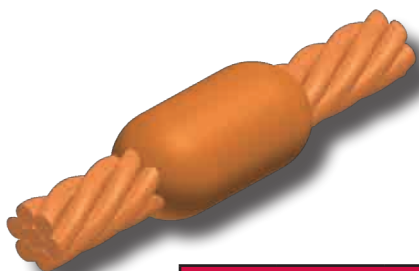
Molds for use with AWG Conductors & Bus Bar

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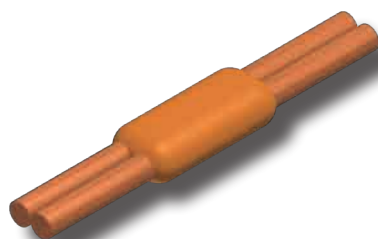
CC-1

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	SDS	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

Section 2 - Molds
AWG Conductors



CC-14

TYPE MOLDS

Horizontal Parallel through Cables
For AWG Conductors

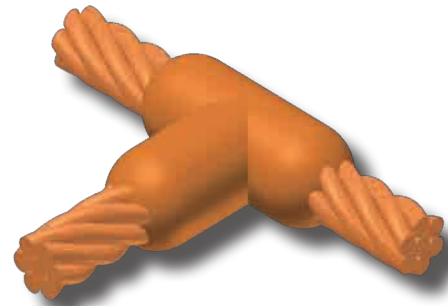
MOLDS FOR AWG CONDUCTORS						
Cable		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
#8	#8	M-5709	18†	15	40-4565-00	2
#6	#6	M-5618	18†	25	40-4565-00	2

- 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, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
 - † ~ Sold complete with handles
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush
 - 38-0330-00 ~ Cable Clamp

CC-2

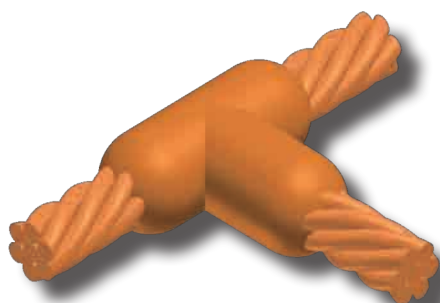
TYPE MOLDS

Horizontal Cable Tap to Horizontal Cable Run
For 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	SDS	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	4
#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	90	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	4
	#4	M-231	4	45	B-106	2	M-231-H	4	65	B-106	2
2/0	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
	#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
	#4	M-5574	4	45	B-106	2	M-5574-H	4	65	B-106	2
4/0	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
	#4	M-5021	4	90	B-106	SDS	M-5021-H	4	150	B-106	4
	250 MCM	M-247	4	150	B-106	SDS	M-247-H	4	250	B-106	2
250 MCM	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

- 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, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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
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	4	M-259-H	4	150	B-106	4
	#1	M-260	4	90	B-106	4	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
500 MCM	#2	M-270	4	90	B-106	2	M-270-H	4	150	B-106	4
	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	SDS	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
750 MCM	#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	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	4	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

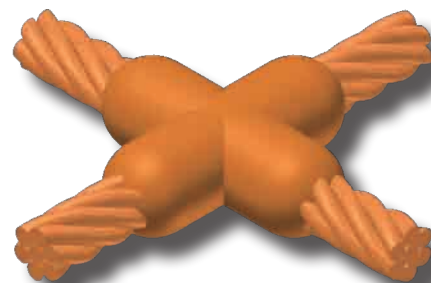
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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

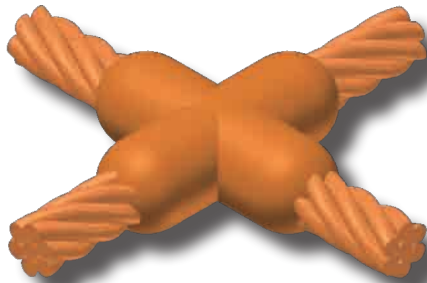
Horizontal to Horizontal Cable Cross

For AWG Conductors



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	4	M-427-H	4	115	B-106	4
	#2	M-428	4	65	B-106	4	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	4	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	4	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	4	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	4	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®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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

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	4	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	4	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	4	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
500 MCM	#2	M-472	4	150	B-106	4	M-472-H	4	250	B-106	4
	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	4	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

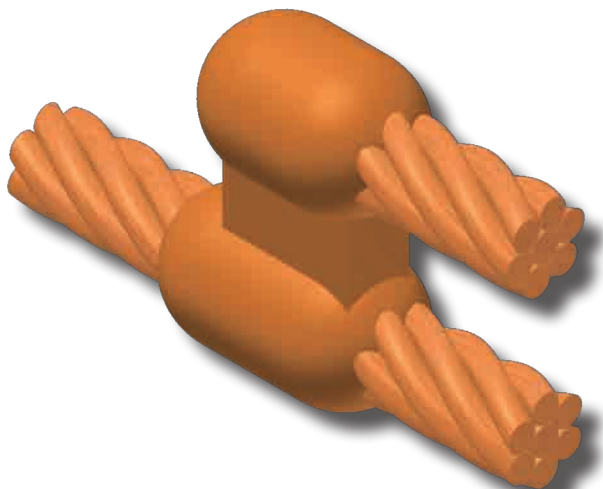
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- 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

Section 2 - Molds
AWG Conductors



MOLDS FOR AWG CONDUCTORS

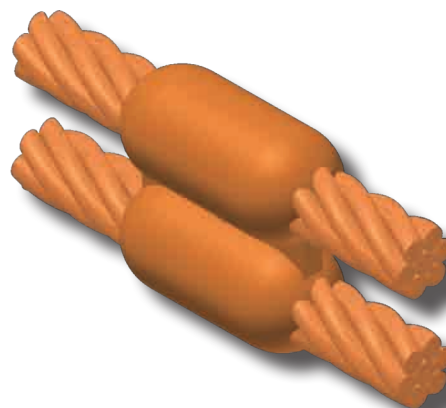
Cable		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
#6 Sol	#6 Sol	M-1270	4	25	B-106	2
#6	#6	M-1271	4	25	B-106	2
#4	#4	M-1272	4	32	B-106	2
	#6	M-1273	4	32	B-106	2
	#6 Sol	M-1274	4	32	B-106	4
	#8 Sol	M-1275	4	32	B-106	2
#2	#2	M-1276	4	65	B-106	SDS
	#4	M-1277	4	45	B-106	4
	#6	M-1278	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	4
	#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	4
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 or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 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



Section 2 - Molds
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	4
	#6 Sol	M-8882	4	32	B-106	4
	#8	M-5629	4	32	B-106	4
	#8 Sol	M-5630	4	32	B-106	4
#2	#2	M-1313	4	65	B-106	SDS
	#4	M-1314	4	65	B-106	2
	#6	M-5631	4	45	B-106	2
	#6 Sol	M-5632	4	45	B-106	4
	#8	M-5634	4	45	B-106	2
	#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	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	4
	#2	M-1325	4	90	B-106	2
	#4	M-5659	4	90	B-106	2
	#6	M-5342	4	90	B-106	2
	#6 Sol	M-5652	4	90	B-106	2
	#8	M-5668	4	65	B-106	4
	#8 Sol	M-5943	4	65	B-106	4
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	M-1335	4	150	B-106	4
	#2	M-1336	4	150	B-106	2
	#4	M-5340	4	150	B-106	2
	#6	M-5684	4	90	B-106	2
	#6 Sol	M-6552	4	90	B-106	2
	#8	M-5686	4	90	B-106	4
	#8 Sol	M-5688	4	90	B-106	2
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	4
	#1	M-1350	4	150	B-106	4
350 MCM	#2	M-1351	4	150	B-106	4
	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	2
	4/0	M-1355	4	200	B-106	2
	2/0	M-1357	4	150	B-106	4
	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	4
	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 or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 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

Section 2 - Molds
AWG Conductors



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-10516	8	2-200	B-107	4
	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	2-200	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®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush
 - 38-0330-00 ~ Cable Clamp

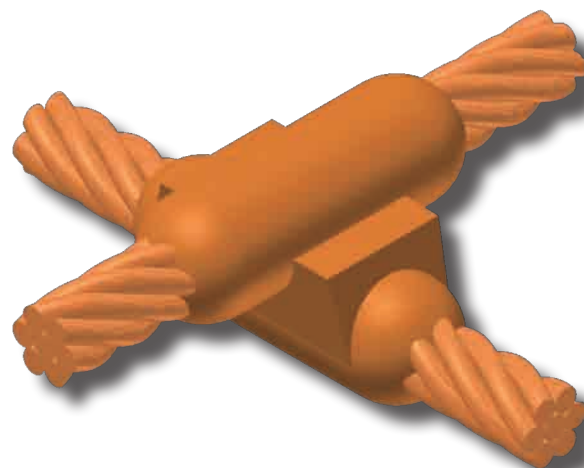
CC-11

TYPE MOLDS

Horizontal to Horizontal Cable Cross
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	4
#1	#1	M-2691	4	115	B-106	2
	#2	M-2692	4	90	B-106	4
	#4	M-2693	4	90	B-106	4
1/0	1/0	M-2694	22	150	B-106	2
	#1	M-2695	22	150	B-106	4
	#2	M-2696	22	115	B-106	2
	#4	M-2697	22	115	B-106	4
2/0	2/0	M-2698	22	200	B-106	SDS
	1/0	M-2699	22	200	B-106	4
	#1	M-2700	22	150	B-106	4
	#2	M-2701	22	150	B-106	4
3/0	3/0	M-2702	22	250	B-106	2
	2/0	M-2703	22	200	B-106	4
	1/0	M-2704	22	200	B-106	4
	#1	M-2705	22	150	B-106	4
	#2	M-2706	22	150	B-106	4
4/0	4/0	M-2707	22	250	B-106	SDS
	3/0	M-2708	22	250	B-106	2
	2/0	M-2709	22	200	B-106	2
	1/0	M-2710	22	200	B-106	2
	#1	M-2711	22	150	B-106	4
	#2	M-2712	22	150	B-106	2
250 MCM	250 MCM	M-2713	22	2-150	B-106	2
	4/0	M-2714	22	2-150	B-106	2
	3/0	M-2715	22	2-150	B-106	4
	2/0	M-2716	22	250	B-106	4
	1/0	M-2717	22	150	B-106	4
	#1	M-2718	22	200	B-106	4
500 MCM	#2	M-2719	22	150	B-106	4
	500 MCM	M-2747	23	3-250	B-107	2
	250 MCM	M-2751	23	500	B-107	4
	4/0	M-2752	23	500	B-107	2
	3/0	M-2753	23	500	B-107	4
	2/0	M-2754	23	2-200	B-107	4
	1/0	M-2755	22	2-150	B-106	4
	#1	M-2756	22	250	B-106	4
	#2	M-2757	22	250	B-106	4

- 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 expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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



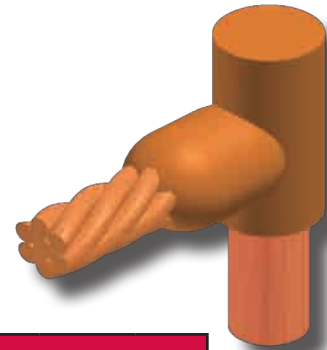
Section 2 - Molds
AWG Conductors

CR-1

TYPE MOLDS

Horizontal Cable Terminal to Ground Rod

For AWG Conductors

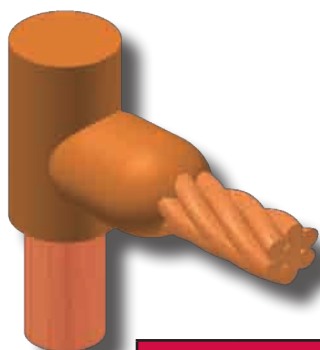


MOLDS FOR AWG CONDUCTORS											
Ground Rod Size	Cable Size	STANDARD MOLD					HEAVY DUTY CONNECTION				
		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2"	#6	M-5858	4	45	B-106	4	M-5858-H	4	65	B-106	4
	#4	M-6448	4	65	B-106	4	M-6448-H	4	90	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	4	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	SDS	M-503-H	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 su□x "-N" to mold number.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-500-N is full 1/2" diameter ground rod or roll-threaded rod to 4/0 Str cable.
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-508-N 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 su□x "-N" to mold number, i.e. M-518-N 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 su□x "-N" to mold number, i.e. M-528-N is full 1" diameter ground rod or roll-threaded rod to 4/0 Str. cable.



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	4
	#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
1"	750 MCM	M-524	4	250	B-106	2	M-524-H	5	2-200	B-107	4
	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	4	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 su□x "-N" to mold number.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush
 - 38-0304-00 ~ File
 - 38-0330-00 ~ Cable Clamp

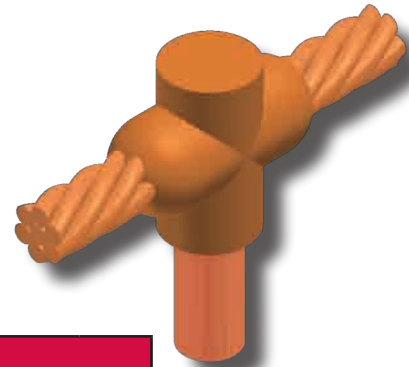
NOTES

1. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-500-N is full 1/2" diameter ground rod or roll-threaded rod to 4/0 Str cable.
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-508-N 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 su□x "-N" to mold number, i.e. M-518-N 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 su□x "-N" to mold number, i.e. M-528-N is full 1" diameter ground rod or roll-threaded rod to 4/0 Str. cable.

CR-2

TYPE MOLDS

Horizontal Cable to Ground Rod
For AWG Conductors



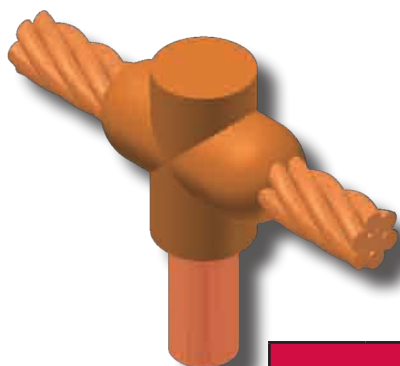
MOLDS FOR AWG CONDUCTORS

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	4	M-5786-H	4	90	B-106	4
	#4	M-5388	4	90	B-106	4	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	4	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 su□x "-N" to mold number.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-542-N is full 1/2" diameter ground rod or roll-threaded rod to 4/0 Str cable.
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-550-N 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 su□x "-N" to mold number, i.e. M-561-N 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 su□x "-N" to mold number, i.e. M-572-N is full 1" diameter ground rod or roll-threaded rod to 4/0 Str. cable.



CR-2

TYPE MOLDS

Horizontal Cable to Ground Rod
For AWG Conductors

Section 2 - Molds
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	SDS	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	4
1"	750 MCM	M-567	5	2-200	B-107	2	M-567-H	5	3-200	B-107	4
	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	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 su□x "-N" to mold number.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush
 - 38-0304-00 ~ File
 - 38-0330-00 ~ Cable Clamp

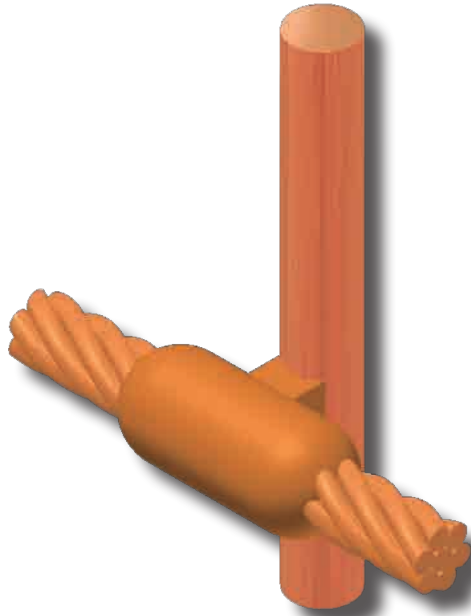
NOTES

1. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-542-N is full 1/2" diameter ground rod or roll-threaded rod to 4/0 Str cable.
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-550-N 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 su□x "-N" to mold number, i.e. M-561-N 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 su□x "-N" to mold number, i.e. M-572-N is full 1" diameter ground rod or roll-threaded rod to 4/0 Str. cable.

CR-3

TYPE MOLDS

Horizontal Thru Cable to Ground Rod
For AWG Conductors



Section 2 - Molds
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	4
	#2	M-2155	24	90	B-106	2
	#1	M-2156	24	115	B-106	4
	1/0	M-1581	24	115	B-106	4
	2/0	M-1582	24	115	B-106	2
	4/0	M-1583	24	150	B-106	2
	250 MCM	M-1584	24	150	B-106	4
5/8"	#6	M-5660	24	65	B-106	4
	#4	M-2157	24	90	B-106	2
	#2	M-2158	24	90	B-106	2
	#1	M-2159	24	115	B-106	2
	1/0	M-1586	24	115	B-106	2
	2/0	M-1587	24	115	B-106	SDS
	4/0	M-1588	24	150	B-106	SDS
	250 MCM	M-1589	24	150	B-106	2
	500 MCM	M-1593	13	2-200	B-107	2
3/4"	#6	M-6630	24	65	B-106	2
	#4	M-2160	24	90	B-106	2
	#2	M-2161	24	90	B-106	2
	#1	M-2162	24	115	B-106	4
	1/0	M-1594	24	115	B-106	2
	2/0	M-1595	24	115	B-106	2
	4/0	M-1596	24	150	B-106	SDS
	250 MCM	M-1597	24	200	B-106	2
	500 MCM	M-1601	13	500	B-107	2
	750 MCM	M-1602	13	3-250	B-107	4
1"	#6	M-6906	24	90	B-106	4
	#4	M-2163	24	90	B-106	2
	#2	M-2164	24	90	B-106	4
	#1	M-2165	24	115	B-106	4
	1/0	M-1603	24	115	B-106	4
	2/0	M-1604	24	115	B-106	2
	4/0	M-1605	24	150	B-106	2
	250 MCM	M-1606	24	200	B-106	4
	500 MCM	M-1610	13	500	B-107	2
	750 MCM	M-1611	13	3-250	B-107	4

NOTES

- .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-1583-N is full 1/2" diameter ground rod or roll-threaded rod to 4/0 Str cable.
- .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-1588-N is full 5/8" diameter ground rod or roll-threaded rod to 4/0 Str cable.
- .682" actual diameter. For full 3/4" (.750) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-1596-N is full 3/4" diameter ground rod or roll-threaded rod to 4/0 Str. cable.
- .914" actual diameter. For full 1" (1.00) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-1605-N is full 1" diameter ground rod or roll-threaded rod to 4/0 Str. cable.

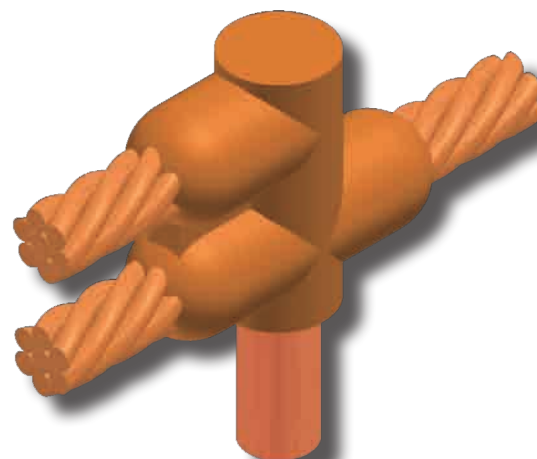
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add su□x "-N" to mold number.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor
- 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



Section 2 - Molds
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	4
	#2	M-6165	4	90	B-106	4
	#1	M-5830	4	90	B-106	4
	1/0	M-5940	4	115	B-106	4
	2/0	M-5850	4	150	B-106	2
	3/0	M-5833	4	200	B-106	2
	4/0	M-5380	4	200	B-106	2
5/8"	#4	M-5972	4	90	B-106	2
	#2	M-5935	4	115	B-106	2
	#1	M-5699	4	115	B-106	4
	1/0	M-5746	4	150	B-106	2
	2/0	M-5963	4	200	B-106	2
	3/0	M-5734	4	250	B-106	2
	4/0	M-5732	4	250	B-106	2
3/4"	250 MCM	M-5722	5	2-150	B-107	2
	#4	M-5698	4	90	B-106	2
	#2	M-5294	4	115	B-106	2
	#1	M-5390	4	115	B-106	4
	1/0	M-6025	4	150	B-106	2
	2/0	M-5738	4	200	B-106	2
	3/0	M-6003	4	250	B-106	2
	4/0	M-2566	4	250	B-106	2
	250 MCM	M-5904	5	2-150	B-107	2
	300 MCM	M-5857	5	2-200	B-107	4
1"	350 MCM	M-5777	5	2-200	B-107	2
	500 MCM	M-5961	5	3-200	B-107	2
	#4	M-5556	4	115	B-106	4
	#2	M-5555	4	150	B-106	4
	#1	M-6048	4	150	B-106	4
	1/0	M-5992	4	200	B-106	4
	2/0	M-5877	4	250	B-106	4
	3/0	M-5821	5	2-150	B-107	4
	4/0	M-5820	5	2-150	B-107	2
	250 MCM	M-5807	5	2-200	B-107	4
	300 MCM	M-5803	5	500	B-107	4
	350 MCM	M-5561	5	500	B-107	4
	500 MCM	M-5515	6	3-250	B-107	4
	750 MCM	M-5513	6	2-500	B-107	4

- 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 su□x "-N" to mold number.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor
- 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

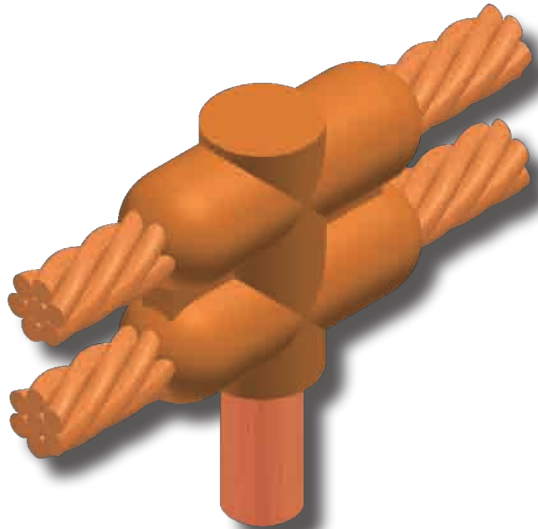
1. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-5380-N is full 1/2" diameter ground rod or roll-threaded rod to 4/0 Str cable.
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-5732-N 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 su□x "-N" to mold number, i.e. M-2566-N 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 su□x "-N" to mold number, i.e. M-5820-N is full 1" diameter ground rod or roll-threaded rod to 4/0 Str. cable.

CR-24

TYPE MOLDS

Horizontal Parallel Run Cables to Ground Rod
For AWG Conductors

Section 2 - Molds
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	4
	#1	M-6002	4	115	B-106	4
	1/0	M-5767	4	150	B-106	4
	2/0	M-5604	4	200	B-106	2
	3/0	M-5560	4	250	B-106	4
	4/0	M-6766	4	250	B-106	2
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	4
	1/0	M-5573	4	200	B-106	2
	2/0	M-8451	4	250	B-106	2
	3/0	M-2510	5	2-150	B-107	4
	4/0	M-5428	5	2-150	B-107	2
	250 MCM	M-1212	5	2-200	B-107	4
	300 MCM	M-2084	5	500	B-107	2
3/4"	350 MCM	M-2558	5	500	B-107	4
	500 MCM	M-2450	5	3-250	B-107	4
	#4	M-8011	4	115	B-106	2
	#2	M-2320	4	150	B-106	2
	#1	M-2235	4	150	B-106	2
	1/0	M-6051	4	200	B-106	2
	2/0	M-8802	4	250	B-106	2
	3/0	M-8726	5	2-150	B-107	2
	4/0	M-5677	5	2-150	B-107	2
	250 MCM	M-8461	5	2-200	B-107	4
1"	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
	#4	M-5330	4	150	B-106	4
	#2	M-5332	4	200	B-106	4
	#1	M-5333	4	200	B-106	4
	1/0	M-5334	4	250	B-106	4
	2/0	M-5335	5	2-150	B-107	4
	3/0	M-5336	5	2-200	B-107	4
	4/0	M-5337	5	2-200	B-107	4
	250 MCM	M-5338	5	500	B-107	4
	300 MCM	M-5341	5	3-200	B-107	4
	350 MCM	M-5351	5	3-200	B-107	4
	500 MCM	M-5352	6	2-500	B-107	4

NOTES

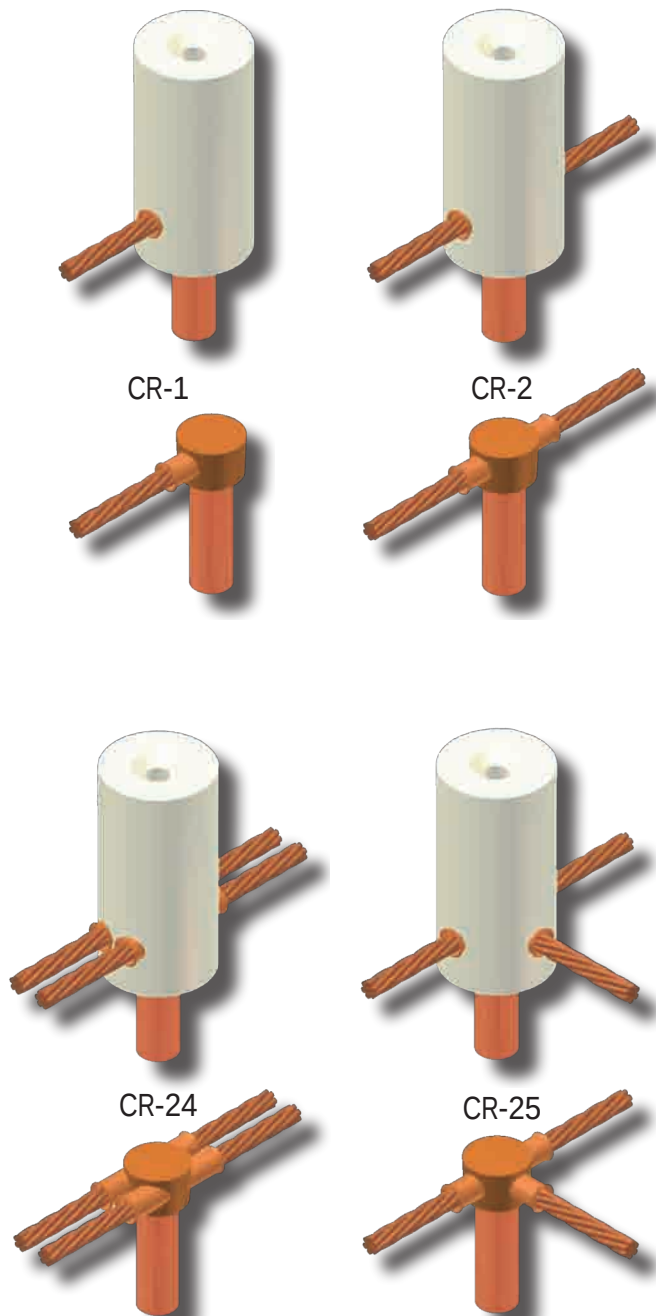
- .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-6766-N is full 1/2" diameter ground rod or roll-threaded rod to 4/0 Str cable.
- .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-5428-N is full 5/8" diameter ground rod or roll-threaded rod to 4/0 Str cable.
- .682" actual diameter. For full 3/4" (.750) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-5677-N is full 3/4" diameter ground rod or roll-threaded rod to 4/0 Str. cable.
- .914" actual diameter. For full 1" (1.00) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-5337-N is full 1" diameter ground rod or roll-threaded rod to 4/0 Str. cable.

- 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 su□x "-N" to mold number.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor
- 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

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

Single Shot Molds



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

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

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

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, (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
38-6662-02		#4 Sol	Starter Kit
38-6662-12		#4 Sol	ReFill Kit
38-6662-03	5/8"	#6 Sol	Starter Kit
38-6662-13		#6 Sol	ReFill Kit
38-6662-04		#4 Sol	Starter Kit
38-6662-14		#4 Sol	ReFill Kit
38-6662-05	3/4"	#6 Sol	Starter Kit
38-6662-15		#6 Sol	ReFill Kit
38-6662-00		#4 Sol	Starter Kit
38-6662-10		#4 Sol	ReFill Kit

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 su□x "-N" to mold number.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold Cleaning Brush
38-0304-00 ~ File

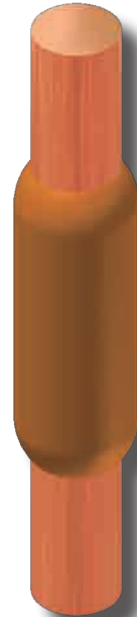
NOTES

1. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "-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.
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "-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 su□x "-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 su□x "-N" to mold number, i.e. M-584-HN is full 1" diameter ground rod or roll-threaded rod to 4/0 Str. cable.

RR-1

TYPE MOLDS

Ground Rod to Ground Rod



Section 2 - Molds
AWG Conductors

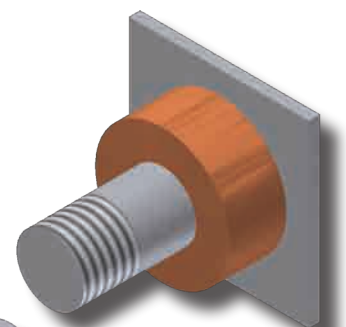
RS-1/RS-2

TYPE MOLDS

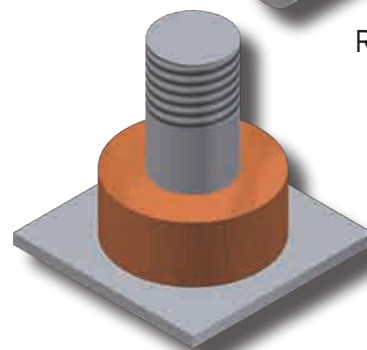
Horizontal and Vertical Stud to Steel

Stud Size	Type RS-1	Type RS-2	Price Key	Weld Metal	Handle Clamps	Lead Time
1/4"	M-1880	M-1886	4	25	B-106	2
5/16"	M-1881	M-1887	4	25	B-106	4
3/8"	M-1882	M-1888	4	45	B-106	2
1/2"	M-1883	M-1889	4	65	B-106	2
3/4"	M-1884	M-1890	4	150	B-106	4
1"	M-1885	M-1891	4	250	B-106	4

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



RS-1



RS-2

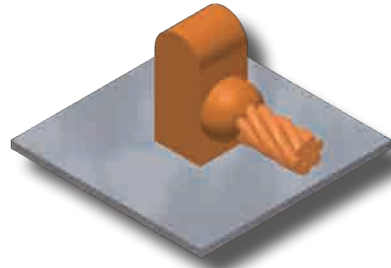
CS-1

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	SDS	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

Section 2 - Molds
AWG Conductors

CS-8

TYPE MOLDS

Horizontal Cable to Horizontal Steel Surface

For AWG Conductors.

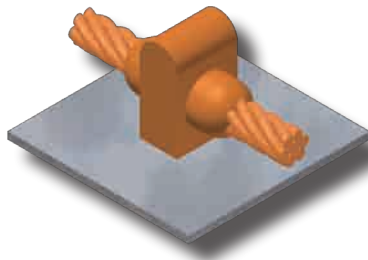
Note that the cable is **ON** the surface



MOLDS FOR AWG CONDUCTORS

Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6	M-628	3†	45	Not Req'd	2
#4	M-629	3†	45	Not Req'd	2
#2	M-630	3†	45	Not Req'd	2
#1	M-631	3†	65	Not Req'd	2
1/0	M-7146	4	90	B-106	2
2/0	M-7075	4	90	B-106	2
3/0	M-2199	4	115	B-106	2
4/0	M-6114	4	115	B-106	2
250 MCM	M-2200	4	115	B-106	2
300 MCM	M-2506	4	150	B-106	2
350 MCM	M-2507	4	200	B-106	4
500 MCM	M-2509	4	200	B-106	2
750 MCM	M-2542	5	2-150	B-107	2
1000 MCM	M-2511	5	2-200	B-107	4

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



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	4	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	4	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	4	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

MOLDS FOR AWG CONDUCTORS					
Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6	M-602	3†	45	Not Req'd	2
#4	M-603	3†	45	Not Req'd	2
#2	M-604	3†	45	Not Req'd	2
#1	M-605	3†	65	Not Req'd	4
1/0	M-8379	4	90	B-106	2
2/0	M-5331	4	115	B-106	2
3/0	M-8381	4	115	B-106	4
4/0	M-7192	4	150	B-106	2
250 MCM	M-8413	4	150	B-106	4
300 MCM	M-8423	4	200	B-106	4
350 MCM	M-8410	4	250	B-106	4
500 MCM	M-5065	5	2-150	B-107	4

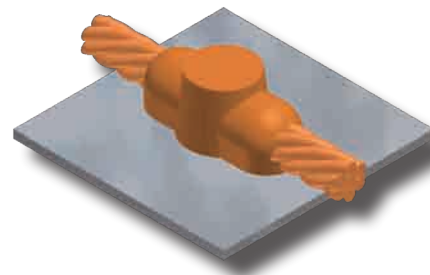
CS-9

TYPE MOLDS

Horizontal Thru Cable to Horizontal Steel Surface

For AWG Conductors

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



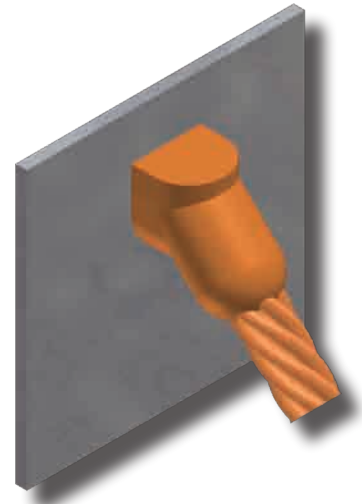
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - † ~ Sold complete with frame
 - 38-0309-00 ~ Flint Ignitor
- 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)

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	2	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

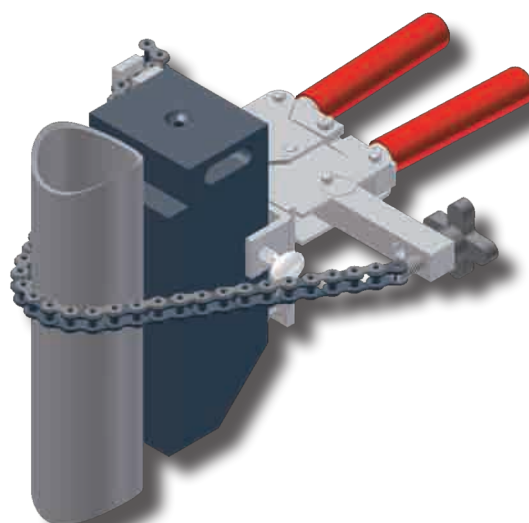
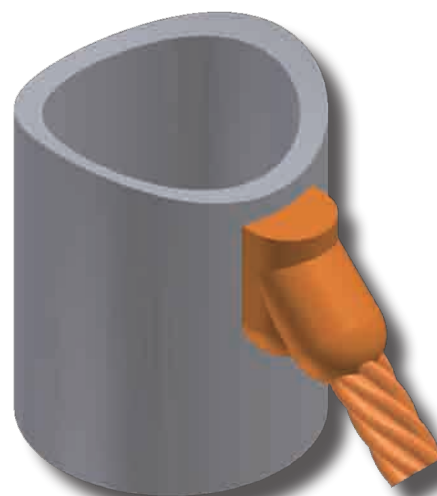
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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

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	4
	4" to 6"	M-2483	4	65	B-106	4
	6" to 10"	M-2484	4	65	B-106	4
	12" & up	M-589 ‡	4	65	B-106	2
1/0	1 1/4" to 4"	M-2486	4	90	B-106	2
	4" to 6"	M-2487	4	90	B-106	2
	6" to 10"	M-2488	4	90	B-106	2
	12" & up	M-590 ‡	4	90	B-106	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



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 molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0106-32 ~ Vertical Chain Clamp w/ B-106 Handles for 4" Pipe & smaller
 - 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

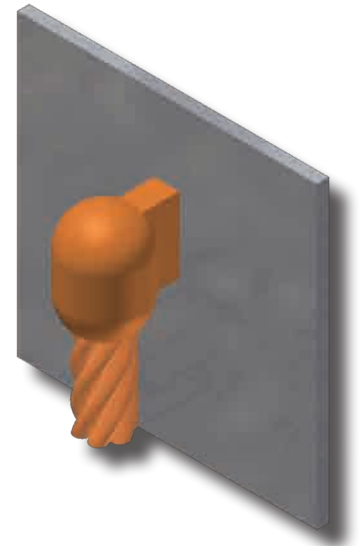
CS-23

TYPE MOLDS

Vertical Cable Drop to Vertical Steel Surface

For AWG Conductors

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



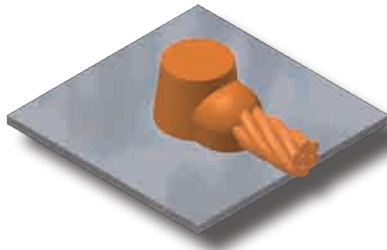
MOLDS FOR AWG CONDUCTORS

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
#1	M-5361	4	90	B-106	2	M-5361-H	4	150	B-106	4
1/0	M-2189	4	115	B-106	SDS	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	4
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

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	SDS
	4" to 6"	M-10528	4	65	B-106	4
	6" to 10"	M-10529	4	65	B-106	4
	12" & up	M-10530	4	65	B-106	4
#1	1 1/4" to 4"	M-10531	4	90	B-106	4
	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	4
	4" to 6"	M-1147	4	115	B-106	4
	6" to 10"	M-10536	4	115	B-106	4
	12" & up	M-10537	4	115	B-106	4
2/0	1 1/4" to 4"	M-10538	4	115	B-106	4
	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	4
	12" & up	M-10542	4	150	B-106	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0106-32 ~ Vertical Chain Clamp w/ B-106 Handles for 4" Pipe & smaller
 - 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-5

TYPE MOLDS

Horizontal Cable Tap to Horizontal **Cast Iron** 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 Sol	M-1613	3†	25CI	Not Req'd	2
#6	M-1614	3†	25CI	Not Req'd	2
#4 Sol	M-1615	3†	45CI	Not Req'd	4
#4	M-1616	3†	45CI	Not Req'd	2
#2 Sol	M-1617	3†	45CI	Not Req'd	2
#2	M-1618	3†	45CI	Not Req'd	2
#1 Sol	M-1619	3†	65CI	Not Req'd	4
#1	M-1620	3†	65CI	Not Req'd	4

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

Section 2 - Molds
AWG Conductors

CS-4

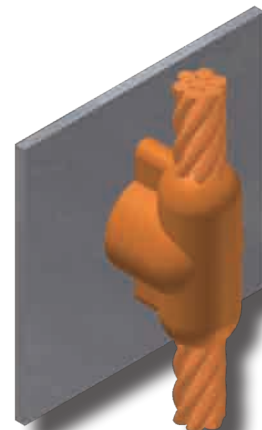
TYPE MOLDS

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	4	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	4
350 MCM						M-1226-H	6	3-200	B-107	4
500 MCM						M-1228-H	6	3-250	B-107	2



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

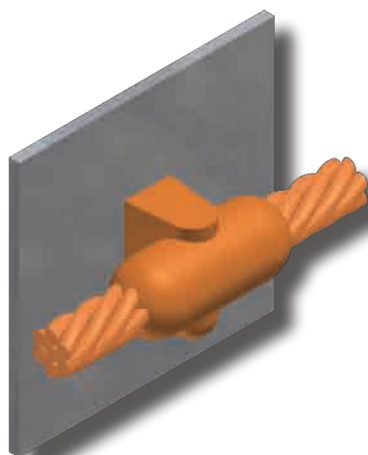
CS-6

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	4
1/0	M-1630	4	115	B-106	2
2/0	M-1631	4	115	B-106	2
3/0	M-1632	4	150	B-106	2
4/0	M-1633	4	150	B-106	2
250 MCM	M-1634	4	150	B-106	2

Section 2 - Molds
AWG Conductors

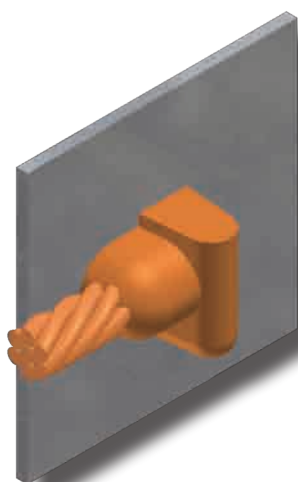
CS-18

TYPE MOLDS

Horizontal Tap Cable to Vertical Steel Surface

For AWG Conductors

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



Left Hand
Mold

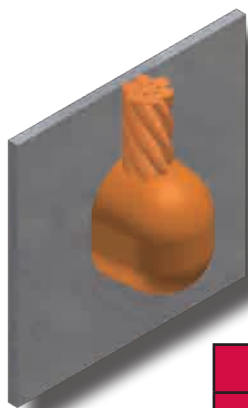


Right Hand
Mold

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	4
1/0	M-5419	4	90	B-106	2
2/0	M-2567	4	90	B-106	2
3/0	M-6072	4	115	B-106	2
4/0	M-9253	4	115	B-106	2
250 MCM	M-2568	4	115	B-106	2
300 MCM	M-6061	4	150	B-106	4
350 MCM	M-6067	4	200	B-106	4
500 MCM	M-8359	4	200	B-106	4

† 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.

- 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 expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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 Steel Surface

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
#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	SDS	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	2	M-1645-H	6	2-200	B-107	4
350 MCM	M-1646	6	2-150	B-107	4	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	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®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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

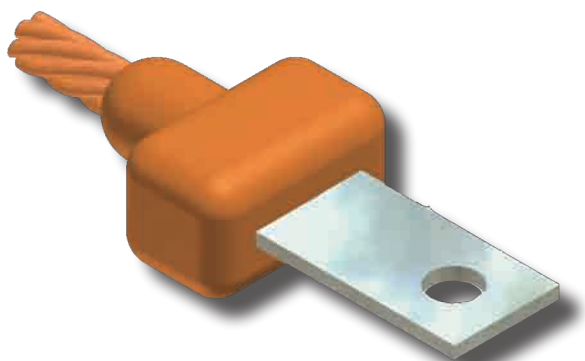
TYPE MOLDS

Horizontal Cable Tap to Horizontal Lug or Bus

For AWG Conductors

See page 51-52 for Lug part numbers.

Section 2 - Molds
AWG Conductors



MOLDS FOR AWG CONDUCTORS

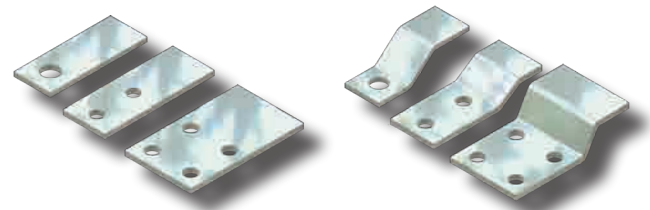
Cable Size	Lug Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#8	1/16 X 1/2	M-966	4	15	B-106	4
	1/8 X 1	M-967	4	45	B-106	2
#6	1/16 X 1/2	M-968	4	15	B-106	4
	1/8 X 1	M-969	4	45	B-106	2
#4	1/8 X 9/16	M-970	4	25	B-106	2
	1/8 X 1	M-971	4	45	B-106	2
#2	1/8 X 5/8	M-974	4	32	B-106	2
	1/8 X 1	M-975	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	4
	1/4 X 3	M-1917	4	90	B-106	4
350 MCM	1/4 X 1	M-994	4	115	B-106	2
	1/4 X 1-1/4	M-995	4	115	B-106	4
	1/4 X 3	M-1918	4	115	B-106	4
500 MCM	1/4 X 1-1/2	M-1001	4	200	B-106	2
	1/4 X 2	M-1002	4	200	B-106	2
	1/4 X 3	M-1920	4	200	B-106	4
	3/8 X 1	M-1003	4	200	B-106	4
	3/8 X 1-1/2	M-1004	4	200	B-106	2
	3/8 X 2	M-1005	5	2-150	B-107	4
750 MCM	1/4 X 2	M-1006	5	2-150	B-107	4
	3/8 X 1-1/2	M-1007	5	2-150	B-107	4
	3/8 X 2	M-1008	5	2-150	B-107	4
	3/8 X 3	M-1921	5	2-150	B-107	4
1000 MCM	3/8 X 2	M-1009	5	2-200	B-107	4
	3/8 X 3	M-1922	5	2-200	B-107	4
	7/16 X 2	M-1010	5	2-200	B-107	4
	1/2 X 2	M-1011	5	500	B-107	2

- 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, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush

STRAIGHT AND OFFSET COPPER LUGS

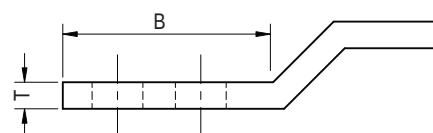
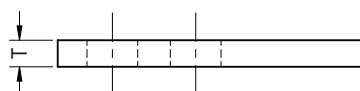
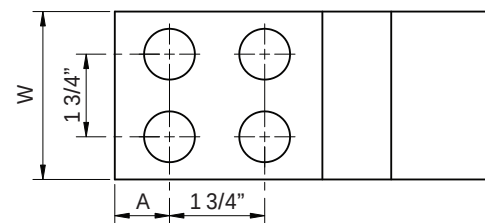
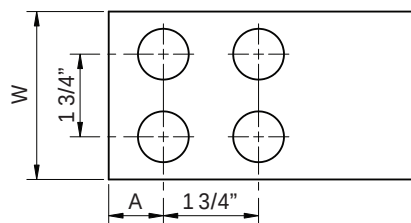
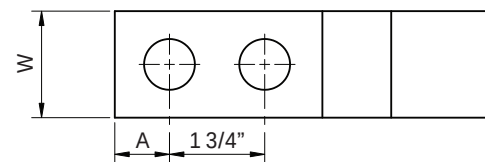
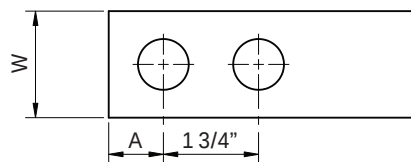
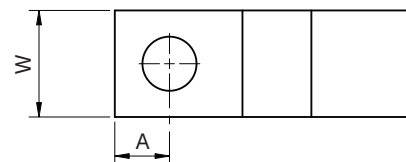
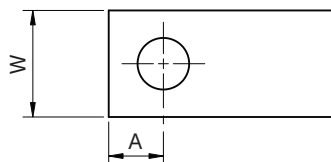
COPPER LUGS

thermOweld® straight & offset lugs are designed to be used with CB-1 Type Molds listed on page 50. 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
3/16 X 1‡	N/A	38-4154-00	2	3/8	3/16	1	7/16	1-7/8
1/4 X 1	38-4206-00	38-4156-00	1	1/2	1/4	1	5/8	1-1/8
1/4 X 1	38-4208-00	38-4158-00	2	1/2	1/4	1	5/8	3
1/4 X 1-1/2	38-4212-00	38-4162-00	1	5/8	1/4	1-1/2	3/4	1-1/2
1/4 X 1-1/2	38-4214-00	38-4164-00	2	1/2	1/4	1-1/2	5/8	3
1/4 X 2	38-3605-00	38-3607-00	2	1/2	1/4	2	5/8	3
3/8 X 1-1/2	38-4215-00	38-4165-00	1	5/8	3/8	1-1/2	3/4	1-1/2
3/8 X 1-1/2	38-4217-00	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

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



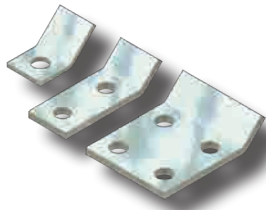
STRAIGHT LUG

OFFSET LUG

COPPER LUGS

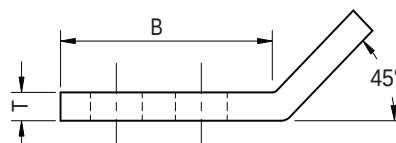
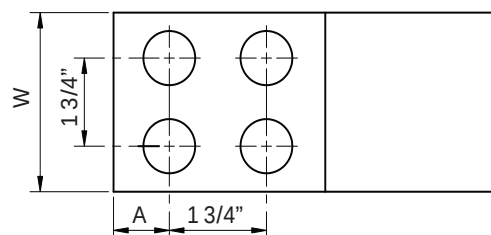
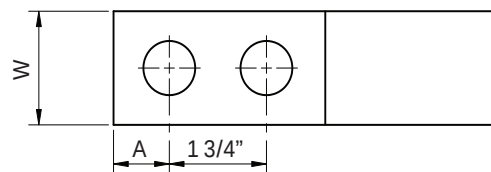
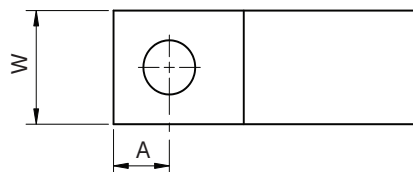
45° COPPER LUGS

thermOweld® 45° lugs are designed to be used with CB-1 Type Molds listed on page 50. 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
3/16 X 1‡	38-4231-00	2	3/8	3/16	1	7/16	1-7/8
1/4 X 1	38-4233-00	1	1/2	1/4	1	5/8	1-1/4
1/4 X 1	38-4235-00	2	1/2	1/4	1	5/8	3
1/4 X 1-1/2	38-4239-00	1	5/8	1/4	1-1/2	3/4	1-1/2
1/4 X 1-1/2	38-4241-00	2	1/2	1/4	1-1/2	5/8	3
3/8 X 1-1/2	38-4242-00	1	5/8	3/8	1-1/2	3/4	1-1/2
3/8 X 1-1/2	38-4244-00	2	1/2	3/8	1-1/2	5/8	3
3/8 X 2	38-4245-00	1	5/8	3/8	2	3/4	1-1/2
3/8 X 2	38-4247-00	2	1/2	3/8	2	5/8	3
1/4 X 3	38-4248-00	4	1/2	1/4	3	5/8	3
3/8 X 3	38-4252-00	4	1/2	3/8	3	5/8	3
1/2 X 3	38-4253-00	4	1/2	1/2	3	5/8	3

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



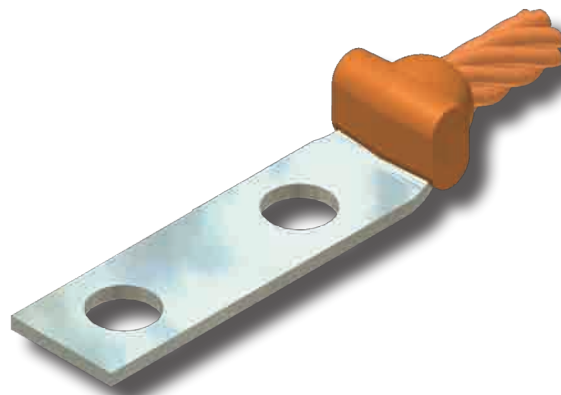
MOLDS FOR AWG CONDUCTORS						
Cable Size	Lug Size (See Lugs Below)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#4	1/8 X 1	M-2035	4	32	B-106	2
#2 Sol	1/8 X 1	M-2036-S	4	32	B-106	2
#2	1/8 X 1	M-2036	4	32	B-106	2
#1	1/8 X 1	M-2037	4	32	B-106	2
1/0	1/8 X 1	M-2038	4	45	B-106	2
2/0	1/8 X 1	M-2039	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	4

- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- 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



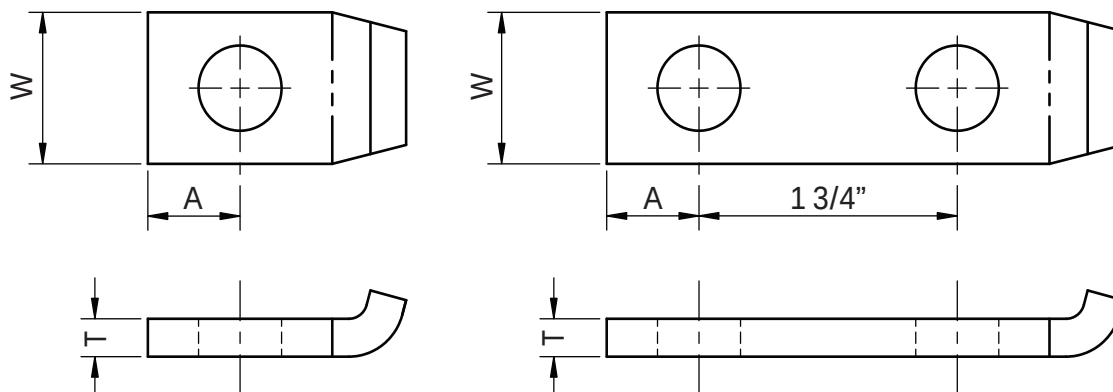
Section 2 - Molds
AWG Conductors

thermOweld® CB-33 Style lugs are designed to be used with CB-33 Type Molds listed above. 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®.

CB-33 STYLE COPPER LUGS

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

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.

Section 2 - Molds
AWG Conductors

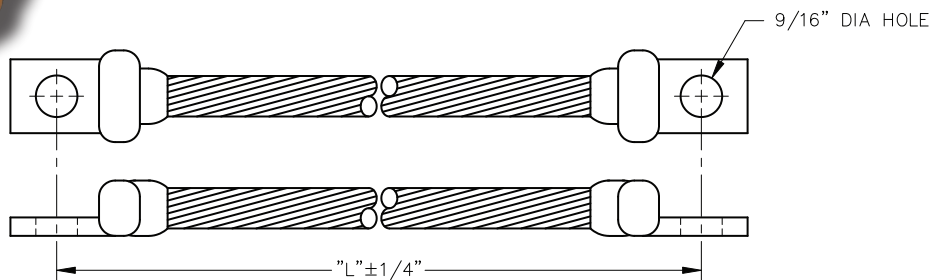
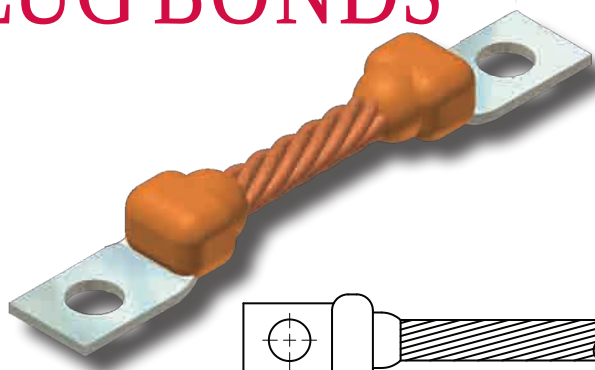


FIGURE 1

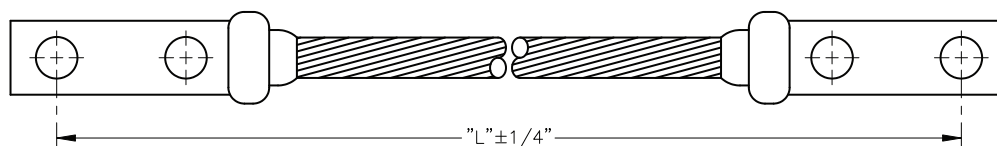


FIGURE 2

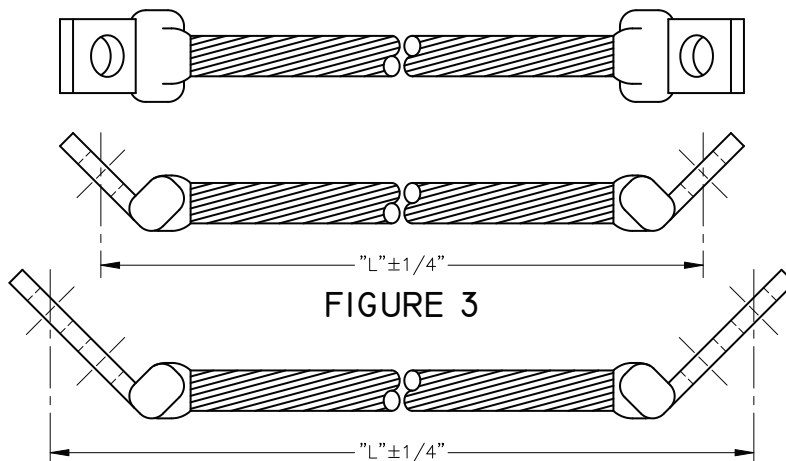


FIGURE 3

FIGURE 4

LUG 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	38-5672-"L"	38-5673-"L"	38-5674-"L"	38-5675-"L"
#2	1/8 X 1	38-5676-"L"	38-5677-"L"	38-5678-"L"	38-5679-"L"
#1	1/8 X 1	38-5680-"L"	38-5681-"L"	38-5682-"L"	38-5683-"L"
1/0	1/8 X 1	38-5684-"L"	38-5685-"L"	38-5686-"L"	38-5687-"L"
2/0	1/8 X 1	38-5688-"L"	38-5689-"L"	38-5690-"L"	38-5691-"L"
4/0	3/16 X 1	38-5692-"L"	38-5693-"L"	38-5694-"L"	38-5695-"L"
250 MCM	3/16 X 1	38-5696-"L"	38-5697-"L"	38-5698-"L"	38-5699-"L"

"L" = Length of Bond in inches

For sizes not listed, contact thermOweld®

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.

PREFABRICATED LUG BONDS

Section 2 - Molds
AWG Conductors

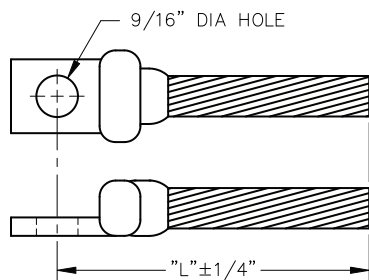
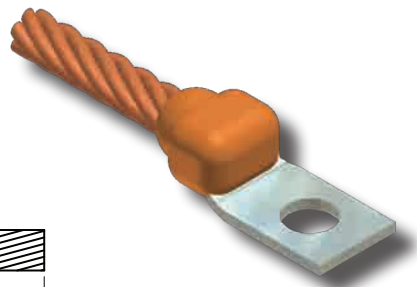


FIGURE 1

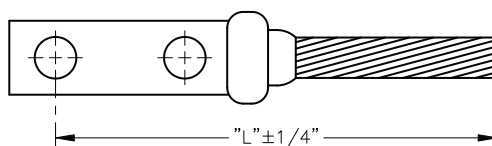


FIGURE 2

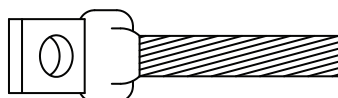


FIGURE 3

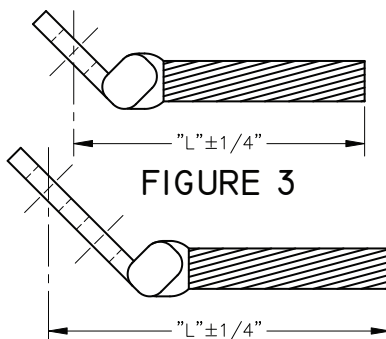


FIGURE 4

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"

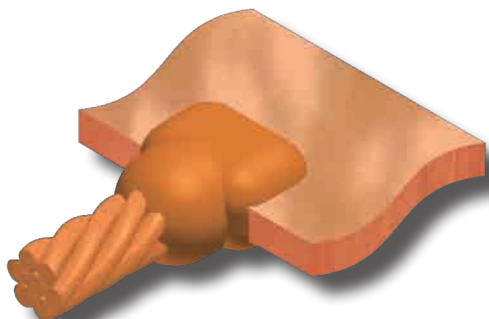
"L" = Length of Bond in inches

For sizes not listed, contact thermOweld®

CB-4

TYPE MOLDS

Horizontal Cable Tap to Horizontal Bus
For AWG Conductors



Section 2 - Molds
AWG Conductors

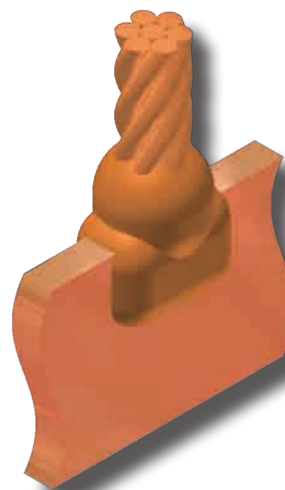
MOLDS FOR AWG CONDUCTORS						
Bus Bar Size	Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/4 X 1-1/2 & WIDER	#2	M-5415	4	65	B-106	2
	1/0	M-1651	4	90	B-106	2
	2/0	M-1652	4	90	B-106	2
	3/0	M-1653	4	90	B-106	2
	4/0	M-1654	4	90	B-106	2
	250 MCM	M-1655	4	115	B-106	2
	300 MCM	M-1656	4	115	B-106	2
	350 MCM	M-1657	4	150	B-106	2
3/8 X 1-1/2 & WIDER	500 MCM	M-1659	4	200	B-106	2
	1/0	M-1660	4	90	B-106	2
	2/0	M-1661	4	90	B-106	2
	3/0	M-1662	4	115	B-106	4
	4/0	M-1663	4	115	B-106	2
	250 MCM	M-1664	4	150	B-106	4
	300 MCM	M-1665	4	150	B-106	4
	350 MCM	M-1666	4	200	B-106	4
1/2 X 1-1/2 & WIDER	500 MCM	M-1668	4	250	B-106	4
	750 MCM	M-1669	5	2-150	B-107	2
	1000 MCM	M-1670	5	2-200	B-107	4
	1/0	M-1671	4	115	B-106	2
	2/0	M-1672	4	115	B-106	2
	3/0	M-1673	4	150	B-106	2
	4/0	M-1674	4	150	B-106	2
	250 MCM	M-1675	4	200	B-106	4
	300 MCM	M-1676	4	200	B-106	4
	350 MCM	M-1677	4	250	B-106	2
	500 MCM	M-1679	5	2-150	B-107	2
	750 MCM	M-1680	5	2-200	B-107	4
	1000 MCM	M-1681	5	500	B-107	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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



Section 2 - Molds
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	1
1/4 X 1	#2	M-7167	17	90	B-106	4
	1/0	M-839	4	150	B-106	2
	2/0	M-840	4	150	B-106	2
	4/0	M-841	4	150	B-106	2
	250 MCM	M-842	4	150	B-106	2
	300 MCM	M-843	4	200	B-106	4
	350 MCM	M-844	4	200	B-106	4
	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	4
	350 MCM	M-852	4	200	B-106	4
	500 MCM	M-854	4	2-150	B-106	2
	750 MCM	M-855	5	2-200	B-107	2
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
3/8 X 1-1/2 & WIDER	1/0	M-867	4	150	B-106	4
	2/0	M-868	4	150	B-106	2
	4/0	M-869	4	150	B-106	2
	250 MCM	M-870	4	150	B-106	4
	300 MCM	M-871	4	200	B-106	4
	350 MCM	M-872	4	200	B-106	4
	500 MCM	M-874	4	250	B-106	4
	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®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor
- 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 3/4" to 5" from the bus bar.



Section 2 - Molds
AWG Conductors

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

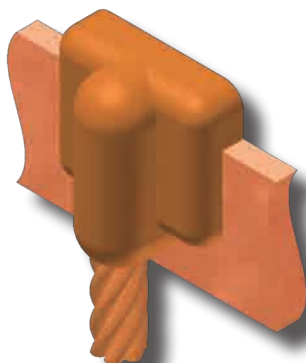
MOLDS FOR AWG CONDUCTORS

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	4
	1/0	M-901	7†	115	B-106	4
	2/0	M-902	7†	115	B-106	4
	4/0	M-903	7†	115	B-106	4
	250 MCM	M-904	7†	115	B-106	4
	300 MCM	M-905	7†	150	B-106	4
1/4" X 1	350 MCM	M-906	7†	150	B-106	4
	1/0	M-907	7†	150	B-106	4
	2/0	M-908	7†	150	B-106	4
	4/0	M-909	7†	150	B-106	4
	250 MCM	M-910	7†	150	B-106	4
	300 MCM	M-911	7†	200	B-106	4
	350 MCM	M-912	7†	200	B-106	4
	500 MCM	M-914	7†	2-150	B-106	4
1/4 X 1-1/2 & WIDER	#2	M-6967	7†	90	B-106	2
	1/0	M-915	7†	150	B-106	4
	2/0	M-916	7†	150	B-106	4
	4/0	M-917	7†	150	B-106	2
	250 MCM	M-918	7†	150	B-106	2
	300 MCM	M-919	7†	200	B-106	4
	350 MCM	M-920	7†	200	B-106	4
	500 MCM	M-922	7†	2-150	B-106	4
3/8 X 1	750 MCM	M-923	8†	2-200	B-107	4
	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
3/8 X 1-1/2 & WIDER	750 MCM	M-933	8†	2-200	B-107	4
	1/0	M-935	7†	150	B-106	4
	2/0	M-936	7†	150	B-106	4
	4/0	M-937	7†	150	B-106	4
	250 MCM	M-938	7†	150	B-106	4
	300 MCM	M-939	7†	200	B-106	4
	350 MCM	M-940	7†	200	B-106	4
	500 MCM	M-942	7†	250	B-106	4
1/2 X 1	750 MCM	M-943	8†	2-200	B-107	4
	1/0	M-945	7†	200	B-106	4
	2/0	M-946	7†	200	B-106	4
	4/0	M-947	7†	200	B-106	4
	250 MCM	M-948	7†	200	B-106	4
	300 MCM	M-949	7†	250	B-106	4
	350 MCM	M-950	7†	250	B-106	4
	500 MCM	M-952	8†	2-150	B-107	4
1/2 X 1-1/2 & WIDER	750 MCM	M-953	8†	500	B-107	4
	1/0	M-955	7†	200	B-106	4
	2/0	M-956	7†	200	B-106	4
	4/0	M-957	7†	200	B-106	4
	250 MCM	M-958	7†	200	B-106	4
	300 MCM	M-959	7†	250	B-106	4
	350 MCM	M-960	7†	250	B-106	4
	500 MCM	M-962	8†	2-150	B-107	4
	750 MCM	M-963	8†	500	B-107	4

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	4
1/8 X 2	1/0	M-659	4	90	B-106	4
	2/0	M-660	4	90	B-106	4
	4/0	M-661	4	115	B-106	2
	250 MCM	M-662	4	115	B-106	4
	300 MCM	M-663	4	150	B-106	4
	350 MCM	M-664	4	150	B-106	4
1/4 X 1	#2	M-6694	4	90	B-106	4
	1/0	M-665	4	115	B-106	2
	2/0	M-666	4	115	B-106	4
	4/0	M-667	4	150	B-106	2
	250 MCM	M-668	4	150	B-106	4
	300 MCM	M-669	4	200	B-106	4
	350 MCM	M-670	4	200	B-106	4
1/4 X 1-1/2	500 MCM	M-672	4	250	B-106	2
	#2	M-6658	4	90	B-106	2
	1/0	M-673	4	115	B-106	4
	2/0	M-674	4	115	B-106	2
	4/0	M-675	4	150	B-106	2
	250 MCM	M-676	4	150	B-106	4
	300 MCM	M-677	4	200	B-106	4
1/4 X 2	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
	#2	M-5567	4	90	B-106	4
	1/0	M-682	4	115	B-106	2
	2/0	M-683	4	115	B-106	2
	4/0	M-684	4	150	B-106	2
1/4 X 2	250 MCM	M-685	4	150	B-106	4
	300 MCM	M-686	4	200	B-106	4
	350 MCM	M-687	4	200	B-106	4
	500 MCM	M-689	4	250	B-106	4
	750 MCM	M-690	5	2-200	B-107	4
	1000 MCM	M-691	5	500	B-107	4
	#2	M-5944	4	90	B-106	2
	1/0	M-692	4	115	B-106	4
1/4 X 3 & WIDER	2/0	M-693	4	115	B-106	2
	4/0	M-694	4	150	B-106	2
	250 MCM	M-695	4	150	B-106	2
	300 MCM	M-696	4	200	B-106	4
	350 MCM	M-697	4	200	B-106	2
	500 MCM	M-699	4	250	B-106	2
	750 MCM	M-700	5	2-200	B-107	2
	1000 MCM	M-701	5	500	B-107	4

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	4
	750 MCM	M-710	5	2-200	B-107	4
3/8 X 2 & WIDER	1000 MCM	M-711	5	500	B-107	4
	1/0	M-712	4	115	B-106	4
	2/0	M-713	4	115	B-106	4
	4/0	M-714	4	150	B-106	4
	250 MCM	M-715	4	150	B-106	4
	300 MCM	M-716	4	200	B-106	4
	350 MCM	M-717	4	200	B-106	4
	500 MCM	M-719	4	250	B-106	4
1/2 X 2	750 MCM	M-720	5	2-200	B-107	4
	1000 MCM	M-721	5	500	B-107	4
	1/0	M-722	4	150	B-106	4
	2/0	M-723	4	150	B-106	4
	4/0	M-724	4	200	B-106	4
	250 MCM	M-725	4	200	B-106	4
	300 MCM	M-726	4	250	B-106	4
	350 MCM	M-727	4	250	B-106	4
1/2 X 3 & WIDER	500 MCM	M-729	4	2-150	B-106	4
	750 MCM	M-730	5	500	B-107	4
	1000 MCM	M-731	5	3-200	B-107	4
	1/0	M-732	4	150	B-106	4
	2/0	M-733	4	150	B-106	4
	4/0	M-734	4	200	B-106	2
	250 MCM	M-735	4	200	B-106	4
	300 MCM	M-736	4	250	B-106	4
	350 MCM	M-737	4	250	B-106	4
	500 MCM	M-739	5	2-150	B-107	2
	750 MCM	M-740	5	500	B-107	4
	1000 MCM	M-741	5	3-200	B-107	4

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

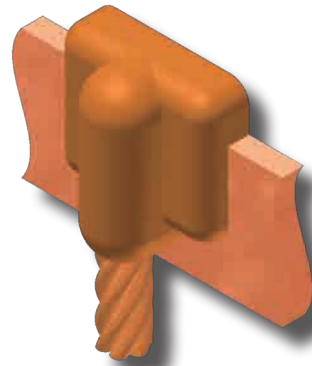
CB-7

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 3/4" 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	4
1/8 X 2	1/0	M-746	7†	90	B-106	4
	2/0	M-747	7†	90	B-106	4
	4/0	M-748	7†	115	B-106	4
	250 MCM	M-749	7†	115	B-106	4
	300 MCM	M-750	7†	150	B-106	4
	350 MCM	M-751	7†	150	B-106	4
	#2 STR	M-8550	7†	90	B-106	4
1/4 X 1	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	4
	2/0	M-761	7†	115	B-106	4
	4/0	M-762	7†	150	B-106	4
	250 MCM	M-763	7†	150	B-106	4
	300 MCM	M-764	7†	200	B-106	4
	350 MCM	M-765	7†	200	B-106	4
	500 MCM	M-767	7†	250	B-106	4
1/4 X 2	750 MCM	M-768	8†	2-200	B-107	4
	#2	M-5469	7†	90	B-106	2
	1/0	M-769	7†	115	B-106	4
	2/0	M-770	7†	115	B-106	4
	4/0	M-771	7†	150	B-106	2
	250 MCM	M-772	7†	150	B-106	2
	300 MCM	M-773	7†	200	B-106	4
	350 MCM	M-774	7†	200	B-106	4
1/4 X 3 & WIDER	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
	#2	M-8396	7†	90	B-106	2
	1/0	M-779	7†	115	B-106	2
	2/0	M-780	7†	115	B-106	4
	4/0	M-781	7†	150	B-106	2
	250 MCM	M-782	7†	150	B-106	4
	300 MCM	M-783	7†	200	B-106	4
	350 MCM	M-784	7†	200	B-106	4
	500 MCM	M-786	7†	250	B-106	2
	750 MCM	M-787	8†	2-200	B-107	4
	1000 MCM	M-788	8†	500	B-107	2

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	4
	250 MCM	M-802	7†	150	B-106	4
	300 MCM	M-803	7†	200	B-106	4
	350 MCM	M-804	7†	200	B-106	4
	500 MCM	M-806	7†	250	B-106	4
	750 MCM	M-807	8†	2-200	B-107	4
	1000 MCM	M-808	8†	500	B-107	4
1/2 X 2	1/0	M-809	7†	150	B-106	4
	2/0	M-810	7†	150	B-106	4
	4/0	M-811	7†	200	B-106	4
	250 MCM	M-812	7†	200	B-106	4
	300 MCM	M-813	7†	250	B-106	4
	350 MCM	M-814	7†	250	B-106	4
	500 MCM	M-816	7†	2-150	B-106	4
	750 MCM	M-817	8†	500	B-107	4
	1000 MCM	M-818	8†	3-200	B-107	4
1/2 X 3 & WIDER	1/0	M-819	7†	150	B-106	4
	2/0	M-820	7†	150	B-106	4
	4/0	M-821	7†	200	B-106	4
	250 MCM	M-822	7†	200	B-106	4
	300 MCM	M-823	7†	250	B-106	4
	350 MCM	M-824	7†	250	B-106	4
	500 MCM	M-826	8†	2-150	B-107	4
	750 MCM	M-827	8†	500	B-107	4
	1000 MCM	M-828	8†	3-200	B-107	4

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

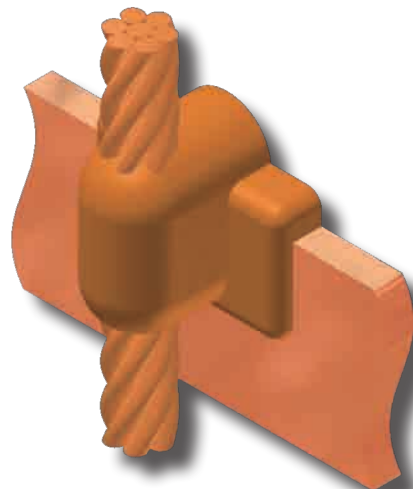
MOLDS FOR AWG CONDUCTORS						
Bus Bar Size	Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/4 X 2 & Wider	#2	M-6922	7	250	B-106	2
	#2 Sol	M-6922-S	7	250	B-106	2
	1/0	M-6758	8	2-200	B-107	2
	2/0	M-6963	8	2-200	B-107	2
	4/0	M-6184	8	500	B-107	2
	250 MCM	M-9937	8	500	B-107	2
	500 MCM	M-6183	8	500	B-107	2
3/8 X 2 & WIDER	750 MCM	M-10543	8	3-200	B-107	4
	#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
1/2 X 2 & WIDER	500 MCM	M-10550	8	500	B-107	4
	750 MCM	M-10551	8	3-200	B-107	4
	#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®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- 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-29

TYPE MOLDS

Horizontal Bus to Vertical Cable Run
For AWG Conductors



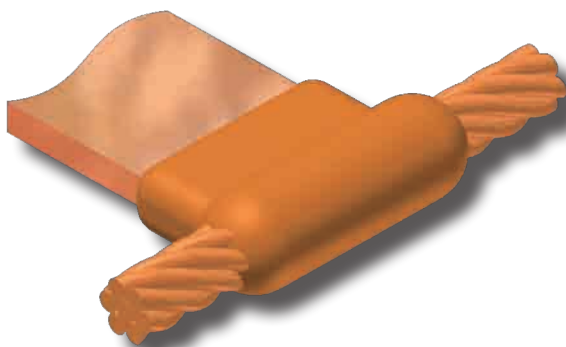
Section 2 - Molds
AWG Conductors

CB-5

TYPE MOLDS

Horizontal Bus Tap to Horizontal Cable Run
For AWG Conductors

Section 2 - Molds
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	4
4/0	3/16 X 1	M-1690	4	150	B-106	2
	1/4 X 1	M-1691	4	150	B-106	4
	1/4 X 1-1/2	M-1692	4	200	B-106	4
	1/4 X 2	M-1693	4	250	B-106	2
250 MCM	1/4 X 1	M-1694	4	150	B-106	4
	1/4 X 1-1/2	M-1695	4	200	B-106	4
	1/4 X 2	M-1696	4	250	B-106	4
300 MCM	1/4 X 1	M-1697	4	200	B-106	2
	1/4 X 1-1/2	M-1698	4	250	B-106	4
	1/4 X 2	M-1699	5	2-150	B-107	4
350 MCM	1/4 X 1	M-1700	5	200	B-107	4
	1/4 X 1-1/4	M-1701	5	200	B-107	4
	1/4 X 1-1/2	M-1702	5	250	B-107	4
	1/4 X 2	M-1703	5	2-150	B-107	4
500 MCM	1/4 X 1	M-1707	5	250	B-107	2
	1/4 X 1-1/2	M-1708	5	2-150	B-107	4
	1/4 X 2	M-1709	5	2-200	B-107	4
750 MCM	1/4 X 1-1/2	M-1710	5	2-200	B-107	4
	1/4 X 2	M-1711	5	500	B-107	4
	3/8 X 1-1/2	M-1712	5	500	B-107	4
	3/8 X 2	M-1713	5	3-200	B-107	4
1000 MCM	1/4 X 1-1/2	M-1714	5	500	B-107	4
	1/4 X 2	M-1715	5	3-200	B-107	4
	3/8 X 1-1/2	M-1716	5	3-200	B-107	4
	3/8 X 2	M-1717	5	3-250	B-107	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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

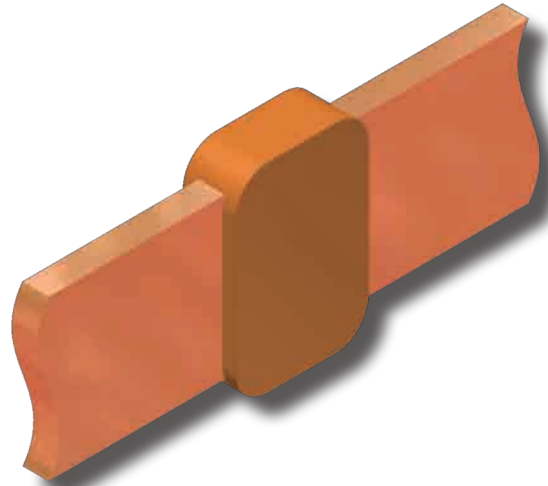
Bus Bar Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/8 X 1	M-1118	4	45	B-106	2
1/8 X 2	M-1119	4	90	B-106	4
3/16 X 1	M-1120	4	65	B-106	2
3/16 X 2	M-1121	4	115	B-106	4
1/4 X 1	M-1122	4	90	B-106	4
1/4 X 1-1/4	M-1123	4	115	B-106	4
1/4 X 1-1/2	M-1124	4	150	B-106	2
1/4 X 2	M-1125	4	200	B-106	2
1/4 X 3	M-1126	5	2-200	B-107	2
1/4 X 4	M-1127	5	500	B-107	4
3/8 X 1	M-1130	4	150	B-106	4
3/8 X 1-1/2	M-1131	4	250	B-106	4
3/8 X 2	M-1132	5	2-150	B-107	4
3/8 X 3	M-1133	5	500	B-107	4
3/8 X 4	M-1134	5	3-200	B-107	2
1/2 X 1	M-1135	4	200	B-106	4
1/2 X 2	M-1136	5	2-200	B-107	4
1/2 X 3	M-1137	5	3-200	B-107	4
1/2 X 4	M-1138	6	2-500	B-107	4

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

BB-1

TYPE MOLDS

Horizontal Bus End to End

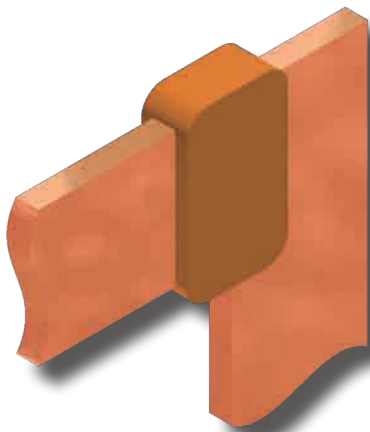


Section 2 - Molds
AWG Conductors

BB-2

TYPE MOLDS

Horizontal to Vertical at Right Angle



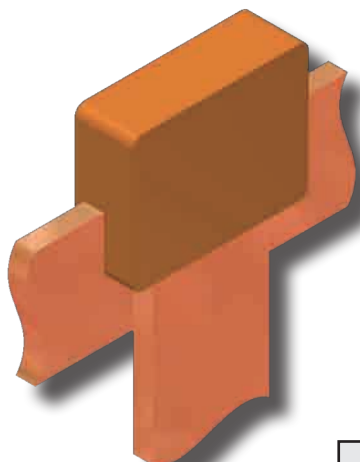
Section 2 - Molds
AWG Conductors

Bus Bar Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/8 X 1	M-1230	4	45	B-106	4
1/8 X 2	M-1231	4	90	B-106	4
3/16 X 1	M-1232	4	65	B-106	2
3/16 X 2	M-1233	4	115	B-106	4
1/4 X 1	M-1234	4	90	B-106	4
1/4 X 1-1/4	M-1235	4	115	B-106	4
1/4 X 1-1/2	M-1236	4	150	B-106	4
1/4 X 2	M-1237	4	200	B-106	2
1/4 X 3	M-1238	5	2-200	B-107	4
1/4 X 4	M-1239	5	500	B-107	4
3/8 X 1	M-1242	4	150	B-106	4
3/8 X 1-1/2	M-1243	4	250	B-106	4
3/8 X 2	M-1244	5	2-150	B-107	4
3/8 X 3	M-1245	5	500	B-107	4
3/8 X 4	M-1246	5	3-200	B-107	4
1/2 X 1	M-1247	4	200	B-106	4
1/2 X 2	M-1248	5	2-200	B-107	4
1/2 X 3	M-1249	5	3-200	B-107	4
1/2 X 4	M-1250	6	2-500	B-107	4

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	4
1/8 X 2 & WIDER	1/8 X 2	M-1099	4	200	B-106	4
3/16 X 1	3/16 X 1	M-1100	4	115	B-106	2
3/16 X 2 & WIDER	3/16 X 2	M-1101	4	200	B-106	2
1/4 X 1	1/4 X 1	M-1102	4	150	B-106	4
1/4 X 1-1/4	1/4 X 1-1/4	M-1103	4	200	B-106	4
1/4 X 1-1/2	1/4 X 1-1/2	M-1104	4	250	B-106	4
1/4 X 2 & WIDER	1/4 X 2	M-1105	5	2-200	B-107	2
3/8 X 1	3/8 X 1	M-1108	4	250	B-106	4
3/8 X 1-1/2	3/8 X 1-1/2	M-1109	5	2-200	B-107	4
3/8 X 2 & WIDER	3/8 X 2	M-1110	5	500	B-107	4
1/2 X 1	1/2 X 1	M-1113	5	2-150	B-107	4
1/2 X 2 & WIDER	1/2 X 2	M-1114	5	3-250	B-107	4

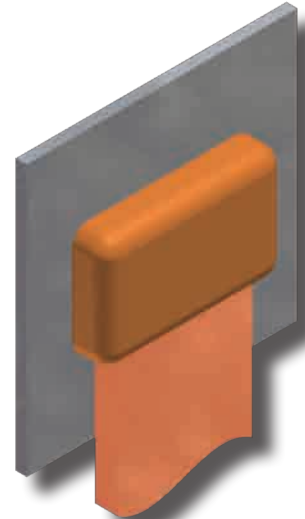
- For sizes not listed, contact thermOweld®.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold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

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

BS-1

TYPE MOLDS

Vertical Tap to Vertical Steel Surface



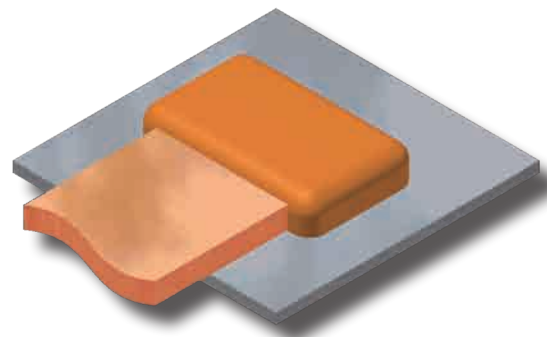
Section 2 - Molds
AWG Conductors

Bus Bar Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/8 X 1	M-1072	4	115	B-106	4
1/8 X 1-1/2	M-1073	4	150	B-106	4
1/8 X 2	M-1074	4	200	B-106	4
3/16 X 1	M-1075	4	150	B-106	2
3/16 X 2	M-1076	4	250	B-106	4
1/4 X 1	M-1077	4	150	B-106	4
1/4 X 1-1/4	M-1078	4	200	B-106	4
1/4 X 1-1/2	M-1079	4	250	B-106	4
1/4 X 2	M-1080	5	2-150	B-107	4
3/8 X 1	M-1081	4	200	B-106	4
3/8 X 1-1/2	M-1082	4	250	B-106	4
3/8 X 2	M-1083	5	2-200	B-107	4
1/2 X 1	M-1084	4	250	B-106	4
1/2 X 1-1/2	M-1085	5	2-200	B-107	4
1/2 X 2	M-1086	5	500	B-107	4

BS-2

TYPE MOLDS

Horizontal Tap to Horizontal Steel Surface

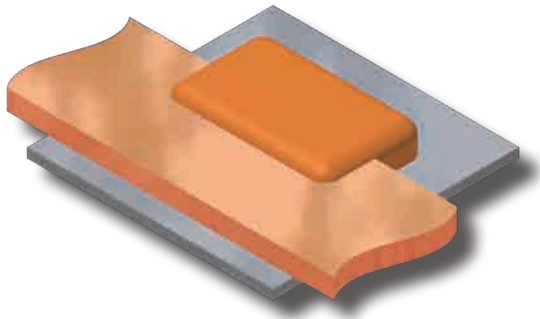


- For sizes not listed, contact thermOweld®.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold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

BS-3

TYPE MOLDS

Horizontal Thru Bar to Horizontal Steel Surface



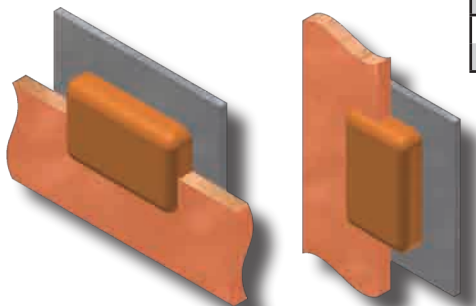
Bus Bar Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/8 X 1	M-1088	4	115	B-106	4
1/8 X 1-1/2 & WIDER	M-1089	4	150	B-106	4
1/4 X 1	M-1090	4	150	B-106	4
1/4 X 1-1/4	M-1091	4	200	B-106	4
1/4 X 1-1/4 & WIDER	M-1092	4	250	B-106	4
3/8 X 1	M-1093	4	200	B-106	4
3/8 X 1-1/2 & WIDER	M-1094	4	250	B-106	4
1/2 X 1	M-1095	4	250	B-106	4
1/2 X 1-1/2 & WIDER	M-1096	5	2-200	B-107	4

Section 2 - Molds
AWG Conductors

BS-4 / BS-5

TYPE MOLDS

Horizontal or Vertical Thru Bar to Vertical Steel Surface



BS-4

BS-5

Bus Bar Size	Mold # BS-4	Mold # BS-5	Price Key	Weld Metal	Handle Clamps	Lead Time
1/8 X 1	M-1054	M-1063	4	115	B-106	4
1/8 X 2 & WIDER	M-1055	M-1064	4	200	B-106	4
1/4 X 1	M-1056	M-1065	4	150	B-106	4
1/4 X 2 & WIDER	M-1057	M-1066	5	2-150	B-107	4
3/8 X 1	M-1058	M-1067	4	200	B-106	4
3/8 X 2 & WIDER	M-1059	M-1068	5	2-200	B-107	4
1/2 X 1	M-1060	M-1069	4	250	B-106	4
1/2 X 2 & WIDER	M-1061	M-1070	5	500	B-107	4

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

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	4
	#4	M-7501	38-0329	4	32	B-106	2
	#2	M-7502	38-0329	4	45	B-106	4
	#1	M-7503	38-0329	4	65	B-106	2
	1/0	M-7504	38-0329	4	90	B-106	4
	2/0	M-7505	38-0329	4	90	B-106	2
	3/0	M-7506	38-0329	4	115	B-106	2
	4/0	M-7507	38-0329	4	115	B-106	2
#4 & Larger	#6	M-7508	38-4061	3†	25	Not Req'd	2
	#4	M-7509	38-4061	3†	32	Not Req'd	2
	#2	M-7510	38-4061	3†	45	Not Req'd	2
	#1	M-7511	38-4061	3†	65	Not Req'd	4
#4	1/0	M-7512	38-0329	4	90	B-106	2
	2/0	M-7513	38-0329	4	90	B-106	2
	3/0	M-7514	38-0329	4	115	B-106	2
	4/0	M-7515	38-0329	4	115	B-106	2
#5	1/0	M-7520	38-0329	4	90	B-106	2
	2/0	M-7521	38-0329	4	90	B-106	2
	3/0	M-7522	38-0329	4	115	B-106	2
	4/0	M-7523	38-0329	4	115	B-106	2
#6 & Larger	1/0	M-7528	38-4062	14†	90	Not Req'd	2
	2/0	M-7529	38-4062	14†	90	Not Req'd	2
	3/0	M-7530	38-4062	14†	115	Not Req'd	2
	4/0	M-7531	38-4062	14†	115	Not Req'd	2

- 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®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - † ~ Sold complete with frame
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush
 - 38-0304-00 ~ File

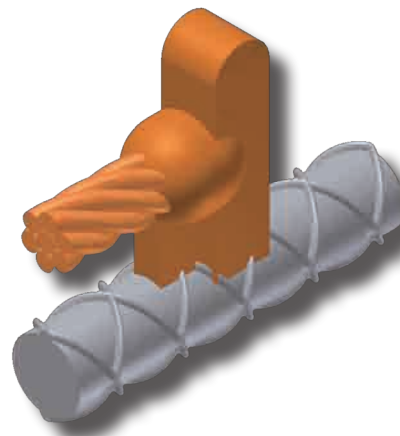
PACKING MATERIAL NOTES

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

CRE-1

TYPE MOLDS

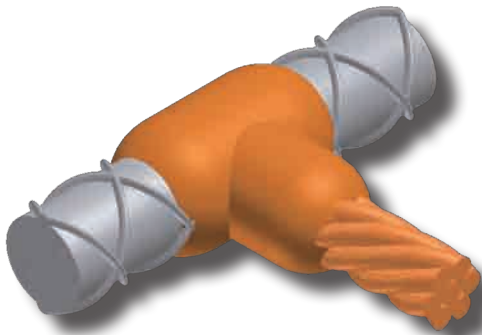
Horizontal Parallel Tap
For AWG Conductors



CRE-2

TYPE MOLDS

Horizontal Cable Tap to Horizontal Rebar Run
For AWG Conductors



Section 2 - Molds
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	4
	#4	M-7589	38-0329	4	45	B-106	2
	#2	M-7590	38-0329	4	65	B-106	4
	#1	M-7591	38-0329	4	65	B-106	4
	1/0	M-7592	38-0329	4	90	B-106	4
	2/0	M-7593	38-0329	4	90	B-106	4
	3/0	M-7594	38-0329	4	115	B-106	4
	4/0	M-7595	38-0329	4	115	B-106	4
#4	#6	M-7596	38-0329	4	45	B-106	2
	#4	M-7597	38-0329	4	45	B-106	2
	#2	M-7598	38-0329	4	65	B-106	2
	#1	M-7599	38-0329	4	65	B-106	4
	1/0	M-7600	38-0329	4	90	B-106	2
	2/0	M-7601	38-0329	4	90	B-106	2
	3/0	M-7602	38-0329	4	115	B-106	2
	4/0	M-7603	38-0329	4	115	B-106	2
#5	#6	M-7604	38-0329	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	4
	#2	M-7614	38-0329	4	90	B-106	4
	#1	M-7615	38-0329	4	90	B-106	4
	1/0	M-7616	38-0329	4	115	B-106	2
	2/0	M-7617	38-0329	4	115	B-106	2
	3/0	M-7618	38-0329	4	150	B-106	4
	4/0	M-7619	38-0329	4	150	B-106	2

PACKING MATERIAL NOTES

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

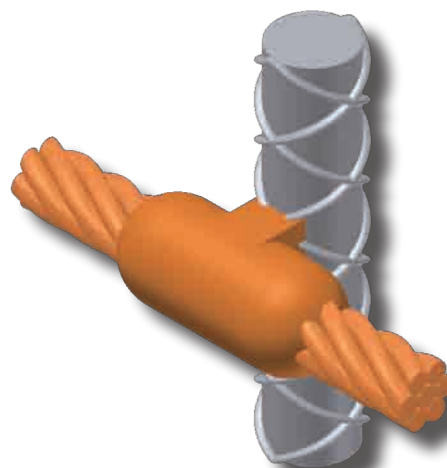
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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 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	4
	#4	M-7621	38-0329	24	90	B-106	4
	#2	M-7622	38-0329	24	90	B-106	4
	#1	M-7623	38-0329	24	115	B-106	4
	1/0	M-7624	38-0329	24	115	B-106	4
	2/0	M-7625	38-0329	24	115	B-106	2
	3/0	M-7626	38-0329	24	150	B-106	2
	4/0	M-7627	38-0329	24	150	B-106	4
#4	#6	M-7628	38-0329	24	90	B-106	2
	#4	M-7629	38-0329	24	90	B-106	4
	#2	M-7630	38-0329	24	90	B-106	2
	#1	M-7631	38-0329	24	115	B-106	4
	1/0	M-7632	38-0329	24	115	B-106	2
	2/0	M-7633	38-0329	24	115	B-106	2
	3/0	M-7634	38-0329	24	150	B-106	2
	4/0	M-7635	38-0329	24	150	B-106	2
#5	#6	M-7636	38-0329	24	90	B-106	4
	#4	M-7637	38-0329	24	90	B-106	2
	#2	M-7638	38-0329	24	90	B-106	2
	#1	M-7639	38-0329	24	115	B-106	4
	1/0	M-7640	38-0329	24	115	B-106	2
	2/0	M-7641	38-0329	24	115	B-106	2
	3/0	M-7642	38-0329	24	150	B-106	2
	4/0	M-7643	38-0329	24	150	B-106	2
#6	#6	M-7644	38-0329	24	90	B-106	4
	#4	M-7645	38-0329	24	90	B-106	2
	#2	M-7646	38-0329	24	90	B-106	4
	#1	M-7647	38-0329	24	115	B-106	4
	1/0	M-7648	38-0329	24	115	B-106	2
	2/0	M-7649	38-0329	24	115	B-106	2
	3/0	M-7650	38-0329	24	150	B-106	4
	4/0	M-7651	38-0329	24	150	B-106	2
#7 & Larger	#6	M-7652	38-4063	4	90	B-106-41	4
	#4	M-7653	38-4063	4	90	B-106-41	2
	#2	M-7654	38-4063	4	90	B-106-41	2
	#1	M-7655	38-4063	4	115	B-106-41	4
	1/0	M-7656	38-4063	4	115	B-106-41	4
	2/0	M-7657	38-4063	4	115	B-106-41	2
	3/0	M-7658	38-4063	4	150	B-106-41	2
	4/0	M-7659	38-4063	4	150	B-106-41	2

- 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 expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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

PACKING MATERIAL NOTES

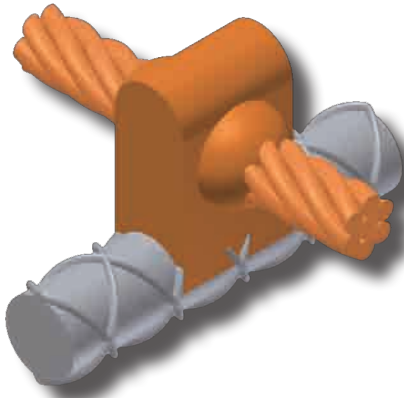
A packing pad is necessary when making thermOweld® connections to Rebar. Packing Material 38-0329-00 is copper shim stock. Packing Material No.'s 38-4061, 38-4062 and 38-4063 are a ceramic fiber material and can be used for **one** connection only. Be sure to specify Packing Material No. when ordering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



CRE-4

TYPE MOLDS

Horizontal thru Cable to Horizontal Rebar
For AWG Conductors



Section 2 - Molds
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	4
	1/0	M-7712	38-0329	22	115	B-106	2
	2/0	M-7713	38-0329	22	115	B-106	2
	3/0	M-7714	38-0329	22	150	B-106	4
	4/0	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	4
	#2	M-7718	38-0329	4	90	B-106	4
	#1	M-7719	38-0329	22	90	B-106	4
	1/0	M-7720	38-0329	22	115	B-106	4
	2/0	M-7721	38-0329	22	115	B-106	2
	3/0	M-7722	38-0329	22	150	B-106	4
	4/0	M-7723	38-0329	22	150	B-106	2
#5	#6	M-7724	38-0329	4	65	B-106	4
	#4	M-7725	38-0329	4	65	B-106	2
	#2	M-7726	38-0329	4	90	B-106	2
	#1	M-7727	38-0329	22	90	B-106	4
	1/0	M-7728	38-0329	22	115	B-106	2
	2/0	M-7729	38-0329	22	115	B-106	2
	3/0	M-7730	38-0329	22	150	B-106	4
	4/0	M-7731	38-0329	22	150	B-106	2
#6 & Larger	#6	M-7732	38-4061	14†	65	Included	4
	#4	M-7733	38-4061	14†	65	Included	2
	#2	M-7734	38-4061	14†	90	Included	2
	#1	M-7735	38-4061	14†	90	Included	4
	1/0	M-7736	38-4062	14†	115	Included	4
	2/0	M-7737	38-4062	14†	115	Included	2
	3/0	M-7738	38-4062	14†	150	Included	2
	4/0	M-7739	38-4062	14†	150	Included	2

PACKING MATERIAL NOTES

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

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

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	90	B-106	2
	#4	M-7885	38-0329	4	90	B-106	4
	#2	M-7886	38-0329	4	90	B-106	4
	#1	M-7887	38-0329	4	115	B-106	4
	1/0	M-7888	38-0329	4	115	B-106	4
	2/0	M-7889	38-0329	4	115	B-106	4
	3/0	M-7890	38-0329	4	150	B-106	4
	4/0	M-7891	38-0329	4	150	B-106	4
#4	#6	M-7892	38-0329	4	90	B-106	2
	#4	M-7893	38-0329	4	90	B-106	4
	#2	M-7894	38-0329	4	90	B-106	2
	#1	M-7895	38-0329	4	115	B-106	4
	1/0	M-7896	38-0329	4	115	B-106	2
	2/0	M-7897	38-0329	4	115	B-106	2
	3/0	M-7898	38-0329	4	150	B-106	2
	4/0	M-7899	38-0329	4	150	B-106	2
#5	#6	M-7900	38-0329	4	90	B-106	2
	#4	M-7901	38-0329	4	90	B-106	4
	#2	M-7902	38-0329	4	90	B-106	2
	#1	M-7903	38-0329	4	115	B-106	4
	1/0	M-7904	38-0329	4	115	B-106	2
	2/0	M-7905	38-0329	4	115	B-106	2
	3/0	M-7906	38-0329	4	150	B-106	2
	4/0	M-7907	38-0329	4	150	B-106	2
#6	#6	M-7908	38-0329	4	90	B-106	2
	#4	M-7909	38-0329	4	90	B-106	4
	#2	M-7910	38-0329	4	90	B-106	2
	#1	M-7911	38-0329	4	115	B-106	4
	1/0	M-7912	38-0329	4	115	B-106	2
	2/0	M-7913	38-0329	4	115	B-106	2
	3/0	M-7914	38-0329	4	150	B-106	2
	4/0	M-7915	38-0329	4	150	B-106	2
#7 & Larger	#6	M-7916	38-4063	4	90	B-106-32	4
	#4	M-7917	38-4063	4	90	B-106-32	2
	#2	M-7918	38-4063	4	90	B-106-32	2
	#1	M-7919	38-4063	4	115	B-106-32	4
	1/0	M-7920	38-4063	4	115	B-106-32	4
	2/0	M-7921	38-4063	4	115	B-106-32	2
	3/0	M-7922	38-4063	4	150	B-106-32	2
	4/0	M-7923	38-4063	4	150	B-106-32	2

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

PACKING MATERIAL NOTES

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

CRE-6 TYPE MOLDS

Horizontal Cable Tap to Vertical Rebar
For AWG Conductors

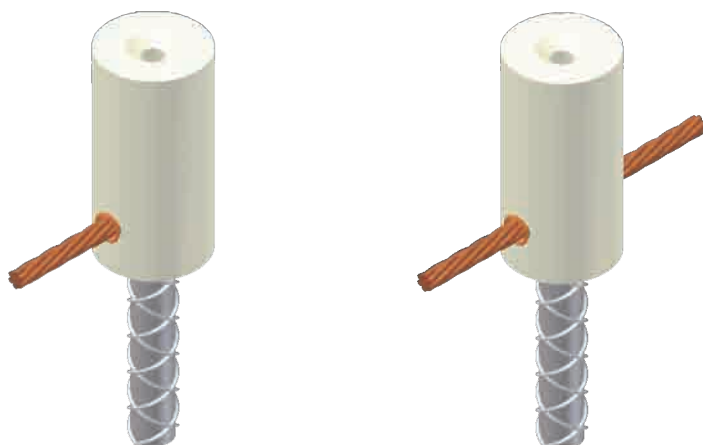


Section 2 - Molds
AWG Conductors

Single Shot Molds

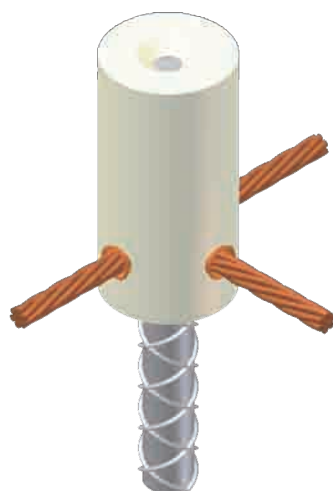
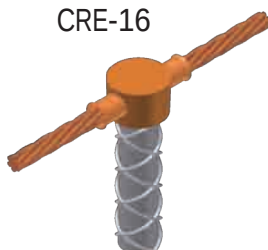
REBAR SINGLE SHOT MOLDS

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

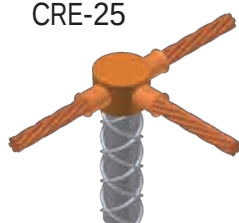


CRE-21

CRE-16



CRE-25



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

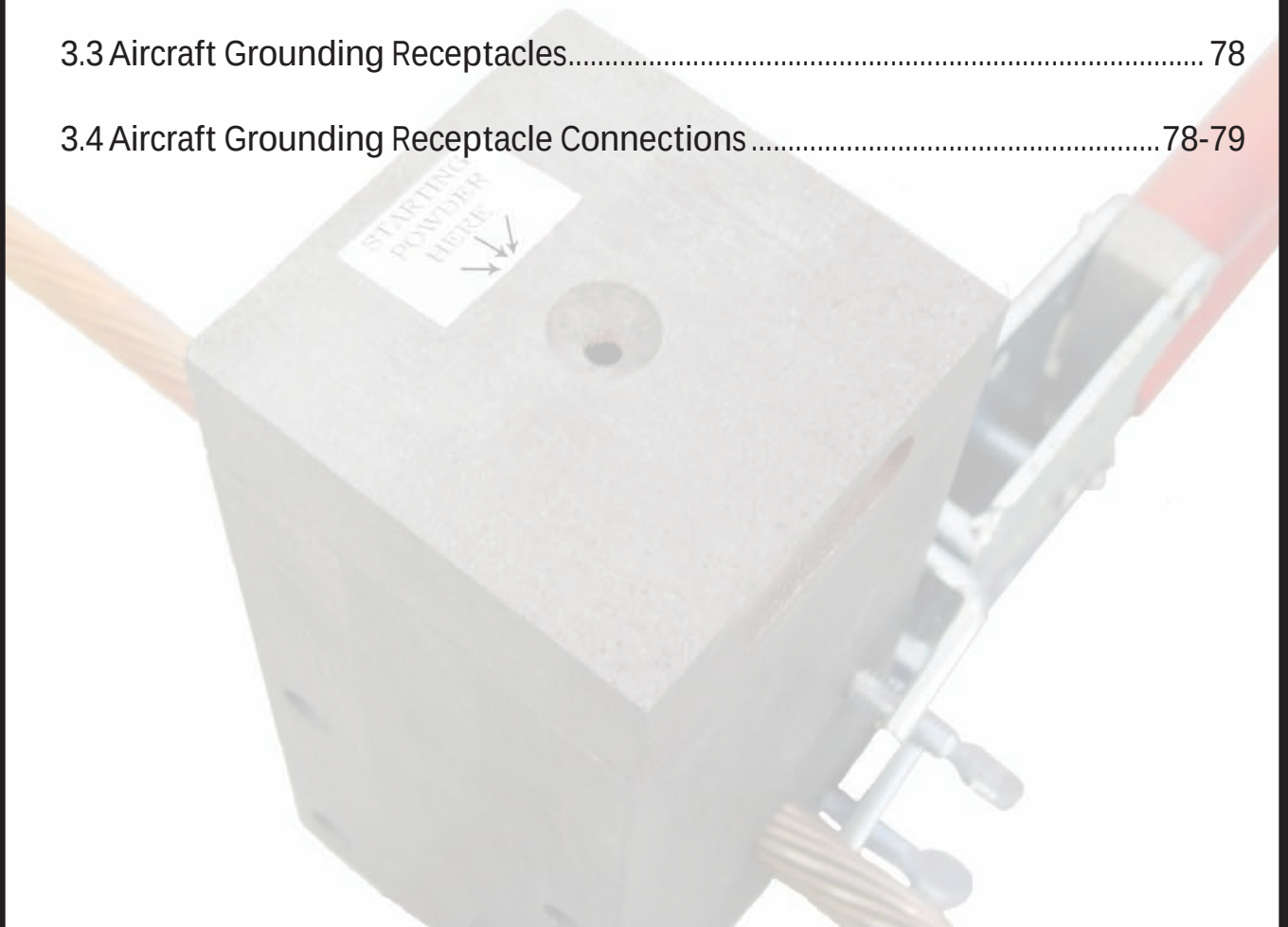
Rebar Size	Cable Size		Type	Mold #
	Solid	Stranded		
#4	#6, #8	#8	CRE-21	M-8932
	#3, #4	#4, #6	CRE-21	M-8933
	#1, #2	#2, #3	CRE-21	M-8934
	2/0, 1/0	1/0, #1	CRE-21	M-8935
		2/0	CRE-21	M-8936
	#6, #8	#8	CRE-16	M-8947
	#3, #4	#4, #6	CRE-16	M-8948
	#1, #2	#2, #3	CRE-16	M-8949
	2/0, 1/0	1/0, #1	CRE-16	M-8950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

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

Section 3

Ground Plates & Aircraft Grounding Receptacles

Description	Page #
3.1 Ground Plates.....	75
3.2 Ground Plate Connections & Assemblies.....	76-77
3.3 Aircraft Grounding Receptacles.....	78
3.4 Aircraft Grounding Receptacle Connections.....	78-79



GROUND PLATES & AIRCRAFT GROUNDING RECEPTACLES

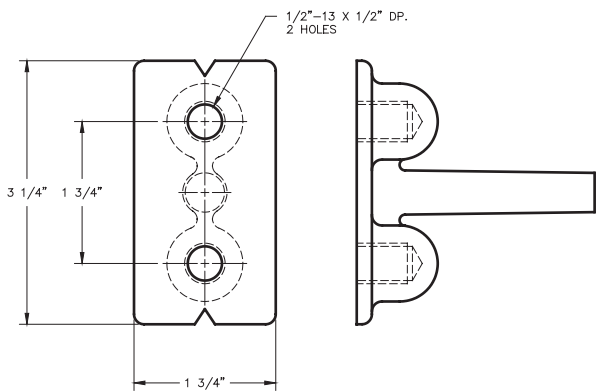
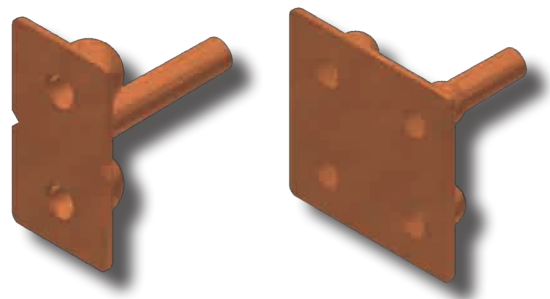
WELD TYPE		PG #
	Grd Plates	75
	RS-3	76
	CRS-1	76
	CRS-2	76
	CR-27	77
	CR-30	77
	CR-31	77

WELD TYPE		PG #
	CR-32	77
	Aircraft Grd Recpt	78
	AC-1	78
	AC-2	78
	ACR-1	79
	ACR-2	79
	AR-1	79

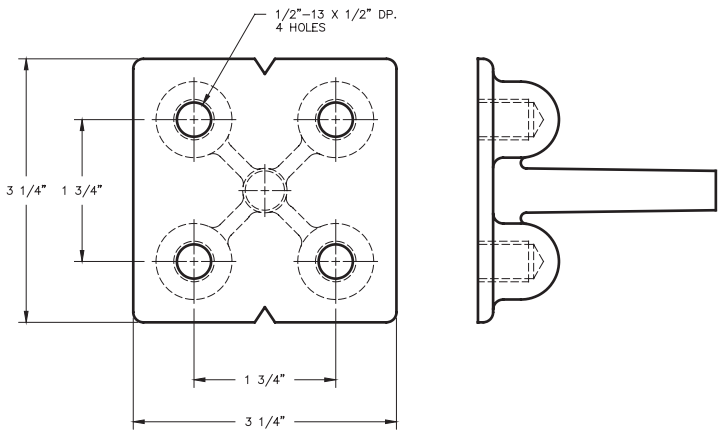
GROUND PLATES

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

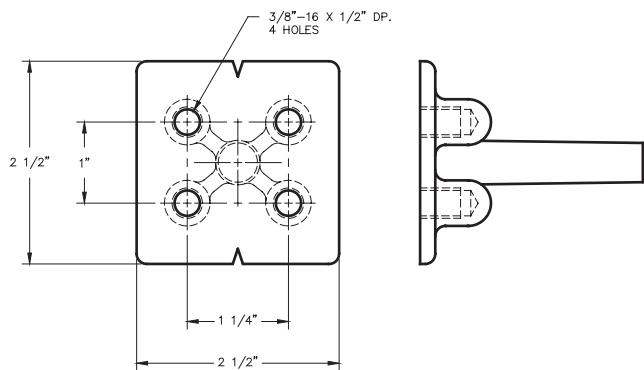
GROUND
PLATES



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



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



Part #	Stud Size
38-2864-00	4/0

Section 3
Grd Plates & Aircraft Grounding Recpt.

GROUND PLATES & AIRCRAFT GROUNDING RECEPTACLES

GROUND PLATES

GROUND PLATES

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

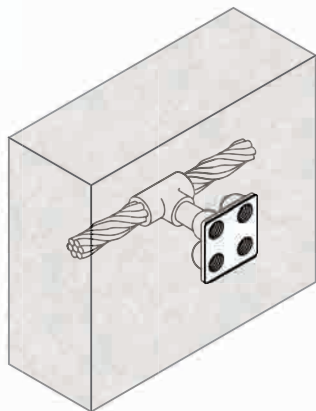
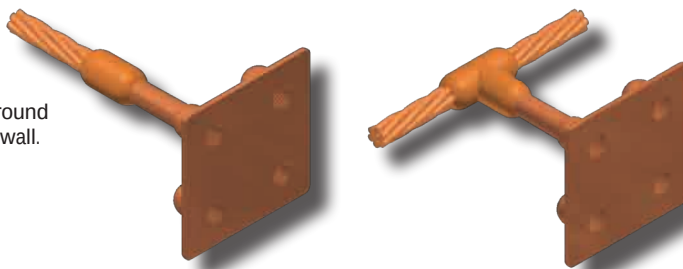
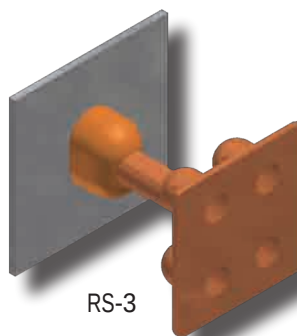


Illustration at left shows a ground plate installed in a concrete wall.

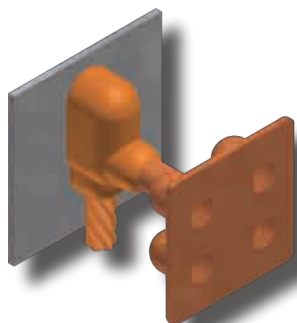


MOLDS FOR AWG CONDUCTORS

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



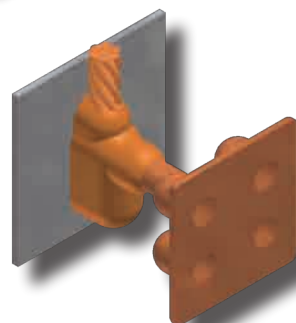
RS-3



CRS-1

NOTE:

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



CRS-2

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	4	2/0	M-6102	17	200	B-106	4
M-6095	17	250	B-106	4	3/0	M-6103	17	250	B-106	4
M-6096	17	250	B-106	4	4/0	M-6104	17	250	B-106	4
M-6097	17	250	B-106	4	250 MCM	M-6105	17	250	B-106	4
M-6098	17	2-150	B-106	4	300 MCM	M-6106	17	2-150	B-106	4
M-6099	17	2-150	B-106	4	350 MCM	M-6107	6	2-200	B-107	4
M-6100	6	2-200	B-107	4	500 MCM	M-6108	6	500	B-107	4

† These mold numbers are for use with Ground Plates 38-2999-00, 38-4051-00 and 38-2864-00.

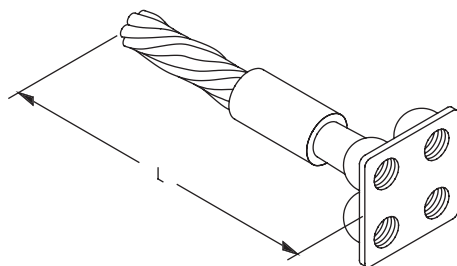
Contact thermOweld® for molds used with Ground Plate 38-4178-00.

GROUND PLATES & AIRCRAFT GROUNDING RECEPTACLES

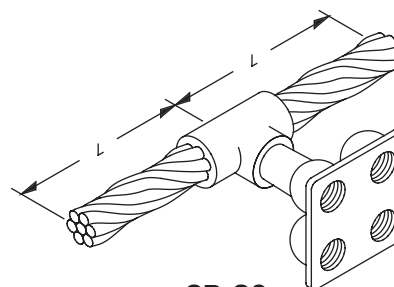
GROUND PLATES

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

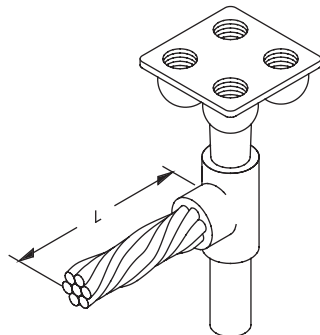
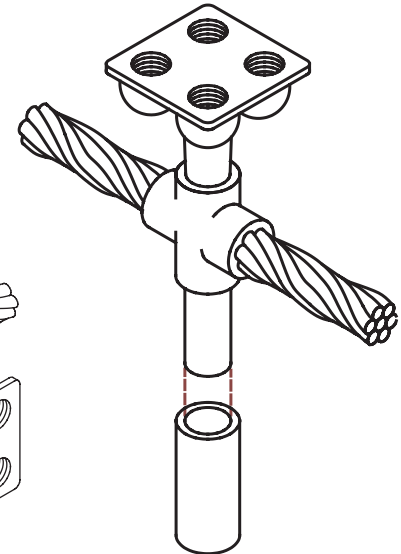
GROUND PLATES



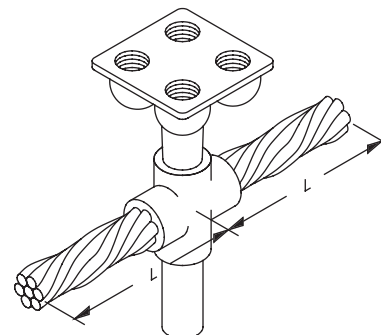
CR-27



CR-30



CR-31



CR-32

Ground Plate	Type CR-31	Type CR-32	Type CR-27	Type CR-30
38-2864-00	38-4519-†‡	38-4524-†‡	38-4529-†‡	38-4534-†‡
38-2999-00	38-4521-†‡	38-4526-†‡	38-4531-†‡	38-4536-†‡
38-4051-00	38-4522-†‡	38-4527-†‡	38-4532-†‡	38-4537-†‡
38-4178-00	38-4523-†‡	38-4528-†‡	38-4533-†‡	38-4538-†‡

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

† = CABLE SIZE

‡ = LENGTH IN INCHES

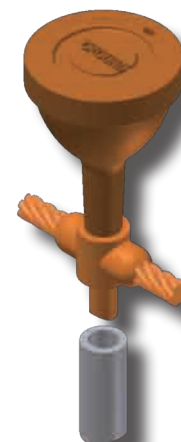
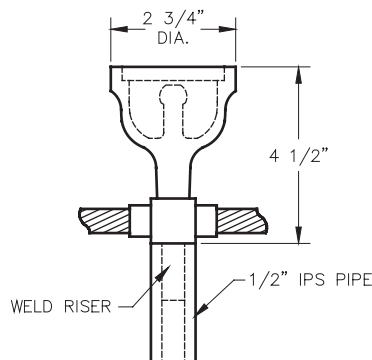
- 1 = #4 STR
- 2 = #2 STR
- 3 = 1/0 STR
- 4 = 2/0 STR
- 5 = 4/0 STR
- 6 = 250 MCM
- 7 = 350 MCM
- 8 = 500 MCM

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

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

AIRCRAFT GROUNDING RECEPTACLE

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



Section 3
Ground Plates & Aircraft Grounding Recept.

AC TYPE MOLDS

Horizontal Cable to Aircraft Grounding Receptacle

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

AC-1 AC-2



AC-1



AC-2

MOLDS FOR AWG CONDUCTORS

AC-1						AC-2				
Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
M-6330	4	115	B-106	2	#2	M-6338	4	115	B-106	4
M-6332	4	115	B-106	4	#1	M-6339	4	115	B-106	2
M-6333	4	150	B-106	4	1/0	M-6341	4	150	B-106	4
M-6335	4	150	B-106	2	2/0	M-6342	4	150	B-106	4
M-6336	4	150	B-106	4	3/0	M-6343	4	200	B-106	4
M-6337	4	150	B-106	2	4/0	M-6344	4	200	B-106	4

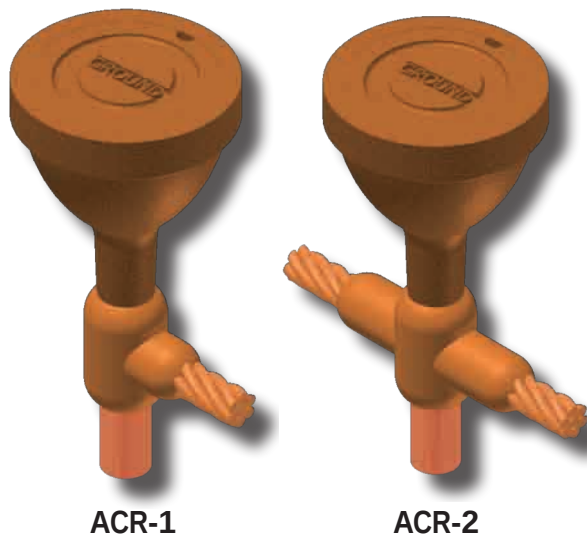
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps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

GROUND PLATES & AIRCRAFT GROUNDING RECEPTACLES

AR & ACR TYPE MOLDS

Horizontal Cable and Aircraft Grounding Receptacle to Ground Rod

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



AR-1					
Ground Rod Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
5/8"	M-6301	17	2-150	B-106	2
3/4"	M-6300	17	2-150	B-106	4
1"	M-6303	6	2-200	B-107	4



AR-1

AIRCRAFT GROUNDING RECEPTACLE

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	4
	3/0	M-6307	8	2-200	B-107	4
	4/0	M-6309	8	2-200	B-107	4
3/4"	1/0	M-6310	8	2-200	B-107	4
	2/0	M-6311	8	2-200	B-107	2
	3/0	M-6312	8	2-200	B-107	4
	4/0	M-6313	8	2-200	B-107	2
1"	1/0	M-6314	8	500	B-107	4
	2/0	M-6315	8	500	B-107	4
	3/0	M-6316	8	500	B-107	4
	4/0	M-6317	8	500	B-107	4
ACR-2						
Ground Rod Size	Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
5/8"	1/0	M-6318	8	2-200	B-107	4
	2/0	M-6319	8	2-200	B-107	2
	3/0	M-6320	8	2-200	B-107	4
	4/0	M-6321	8	2-200	B-107	4
3/4"	1/0	M-6322	8	2-200	B-107	2
	2/0	M-6323	8	2-200	B-107	2
	3/0	M-6324	8	2-200	B-107	4
	4/0	M-6325	8	2-200	B-107	2
1"	1/0	M-6326	8	500	B-107	4
	2/0	M-6327	8	500	B-107	4
	3/0	M-6328	8	500	B-107	4
	4/0	M-6329	8	500	B-107	4

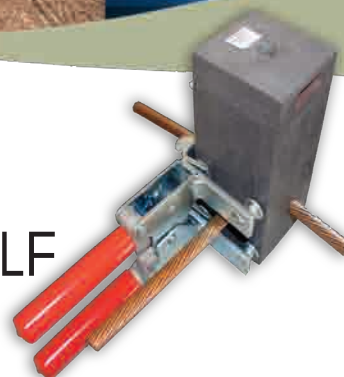
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add su□x "-N" to mold number.
- For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



SAME DAY SERVICE

(Grounding Market)

JUST LIKE HAVING IT ON THE SHELF



MOLDS

M-203	M-558
M-206	M-559
M-208	M-560
M-221	M-561
M-223	M-588
M-223-S	M-588-S
M-228	M-590
M-232	M-591
M-235	M-593
M-236	M-630-S
M-241	M-645
M-243	M-647
M-244	M-1276
M-246	M-1313
M-247	M-1313-S
M-280	M-1322
M-434	M-1331
M-443	M-1587
M-503	M-1588
M-503-S	M-1596
M-506	M-1641
M-508	M-2189
M-518	M-2540
M-545	M-2698
M-545-S	M-2707
M-547	M-2781-S
M-548	M-5021
M-549	M-5059
M-550	M-5415-S
M-556-S	M-5472

M-6199
M-6199-S
M-6618-S
M-8718
M-8833
M-9021
M-9233
M-9233-S

SINGLE SHOTS

M-2007
M-2008
M-2010
M-2012
M-2013
M-2014
M-2015
M-2017
M-2021
M-2027
M-2028
M-2029
M-2032
M-2033
M-2106
M-2107

WELD METAL

15
25
32
45
65
90
115
150
200
250
500

ACCESSORIES

Handle Clamps
Vertical Chain Clamp
Mini-Handle Clamps
Steel Discs
Mold Cleaner
Natural Bristle Brush
Shim Stock
1 lb Packing Material
Ceramic Fiber Packing
Copper Lugs
Flint Ignitors

5PM
CENTRAL STANDARD
TIME



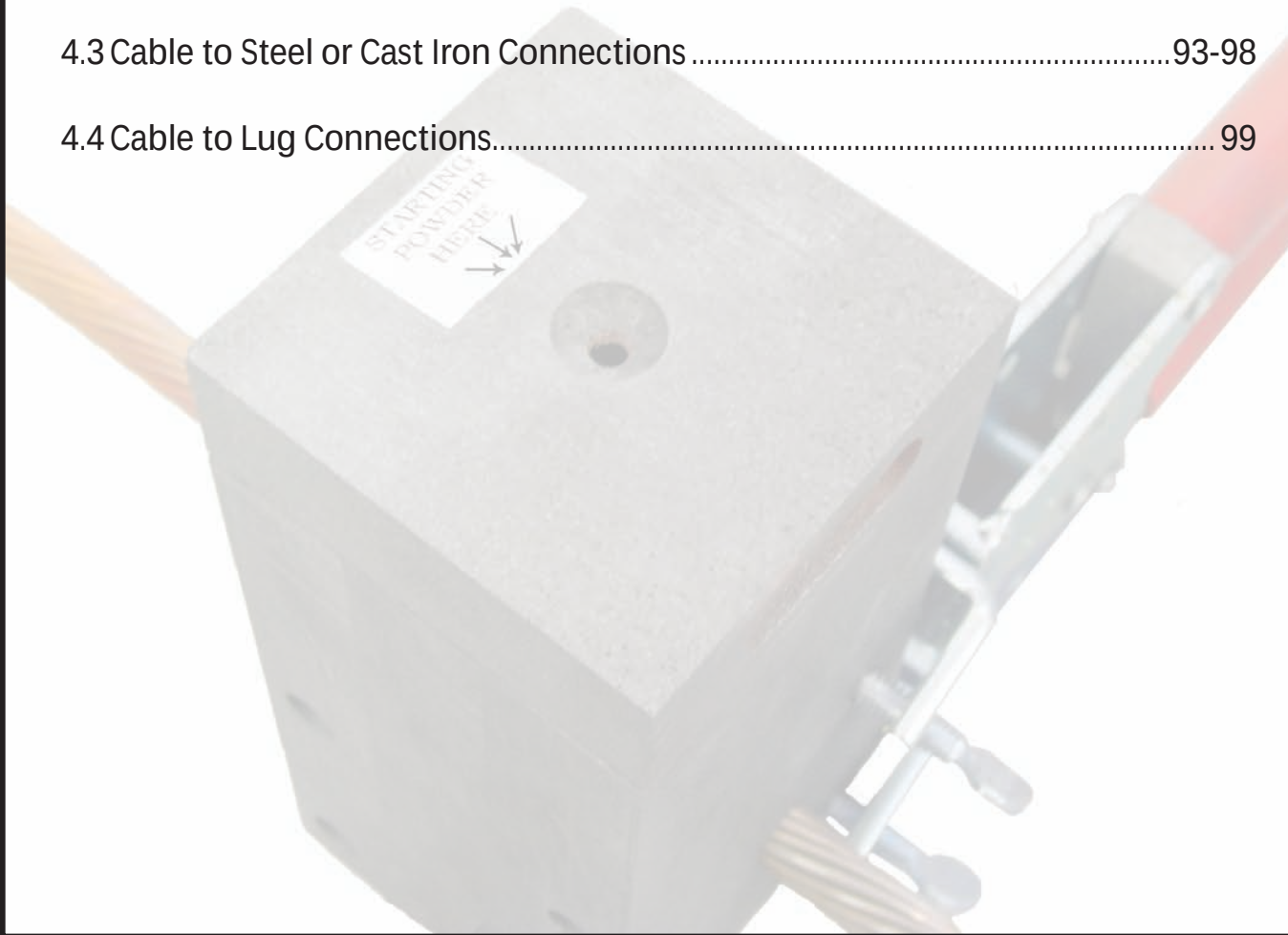
Call Today Ship Today!

*SDS is not a guaranteed service.

Section 4

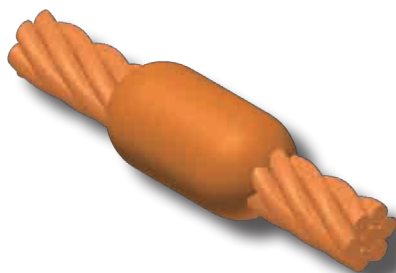
Molds for use with Copper-Clad Steel Conductors

Description	Page #
4.1 Cable to Cable Connections.....	83-89
4.2 Cable to Ground Rod Connections.....	90-92
4.3 Cable to Steel or Cast Iron Connections	93-98
4.4 Cable to Lug Connections.....	99



WELD TYPE		PG #
	CC-1	83
	CC-6	83
	CC-2	84-86
	CC-4	87
	CC-7	88
	CC-11	89
	CR-1	90
	CR-2	91
	CR-3	92
	CS-1	93
	CS-8	93

WELD TYPE		PG #
	CS-2	94
	CS-9	94
	CS-3	95
	CS-6	96
	CS-27	96
	CS-23	97
	CS-7	97
	CS-4	98
	CS-18	98
	CB-1	99
	CB-33	99



CC-1

TYPE MOLDS

Horizontal End to End

For Copper-Clad Steel Conductors

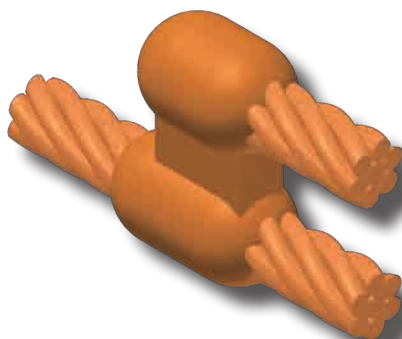
MOLDS FOR COPPER-CLAD STEEL CONDUCTORS										
Cable	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	M-9018	4	32	B-106	2	M-9018-H	4	65	B-106	4
7/#8	M-9050	4	45	B-106	4	M-9050-H	4	90	B-106	4
7/#7	M-9195	4	65	B-106	2	M-9195-H	4	115	B-106	4
7/#6	M-9051	4	90	B-106	2	M-9051-H	4	150	B-106	4
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	2

CC-6

TYPE MOLDS

Horizontal Parallel Tap

For Copper-Clad Steel Conductors



- For sizes not listed, contact thermOweld®.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush
 - 38-0330-00 ~ Cable Clamp

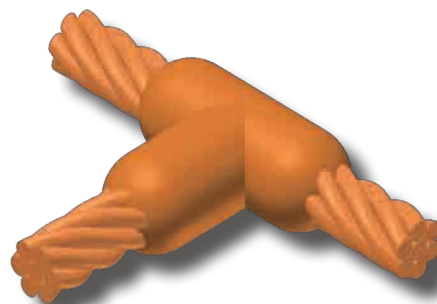
MOLDS FOR COPPER-CLAD STEEL CONDUCTORS						
Cable			Mold #	Price Key	Weld Metal	Lead Time
	Run	Tap				
7/#10	#2		M-9384	4	65	4
	#4		M-9392	4	45	4
	#6		M-9700	4	32	4
	#6 Sol		M-9407	4	32	4
	#8 Sol		M-9423	4	32	4
7/#8	#2		M-924	4	65	4
	#4		M-9425	4	45	4
	#6		M-9429	4	45	4
	#6 Sol		M-9447	4	45	4
	#8 Sol		M-9448	4	45	4
7/#7	#2		M-9449	4	65	4
	#4		M-9450	4	65	4
	#6		M-9451	4	45	4
	#6 Sol		M-9452	4	45	4
	#8 Sol		M-9453	4	45	4
7/#6	#2		M-9454	4	90	4
	#4		M-9455	4	65	4
	#6		M-9456	4	65	4
	#6 Sol		M-9457	4	65	4
	#8 Sol		M-9458	4	65	4
7/#5	#2		M-9459	4	90	4
	#4		M-9460	4	90	4
	#6		M-9461	4	65	4
	#6 Sol		M-9462	4	65	4
	#8 Sol		M-9463	4	90	4

CC-2

TYPE MOLDS

Horizontal Cable Tap to Horizontal Cable Run

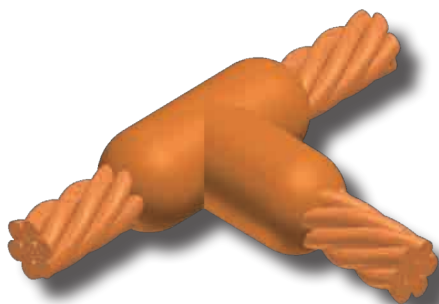
For Copper-Clad Steel Conductors



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	4
	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	4	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

- For sizes not listed, contact thermOweld®.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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/#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
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
19/#7	4/0	M-9042	4	150	B-106	4	M-9042-H	4	250	B-106	4
	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
19/#6	4/0	M-9148	4	150	B-106	4	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	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
19/#6	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

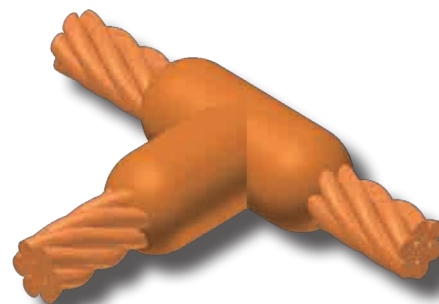
- For sizes not listed, contact thermOweld®.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0319-01 ~ 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

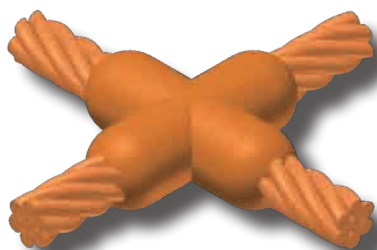
For Copper-Clad Steel Conductors



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	4
	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
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	4
	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	4	M-9085-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	4	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
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	4
	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, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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

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	4	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	4	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	4	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
19/#7	7/#8	M-9303	4	150	B-106	4	M-9303-H	4	250	B-106	4
	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
19/#6	7/#8	M-9310	4	200	B-106	4	M-9310-H	5	2-150	B-107	4
	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

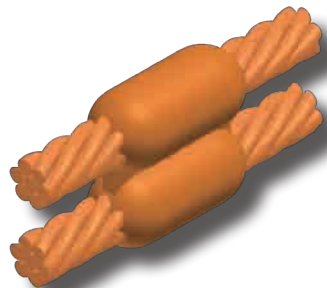
- For sizes not listed, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
 - 40-0319-03 ~ 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

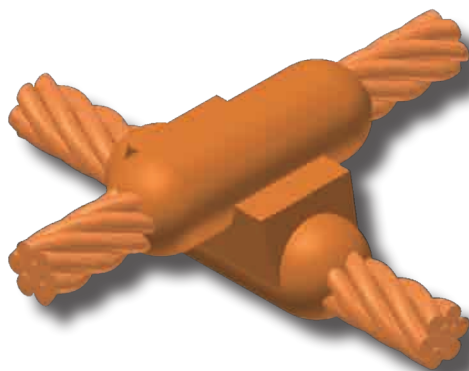
Horizontal Parallel through Cables

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	4	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	4
	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	4	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	4
	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	4	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	4
	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	4	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	4	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, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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
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	4
	7/#8	M-9498	22	200	B-106	4
	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

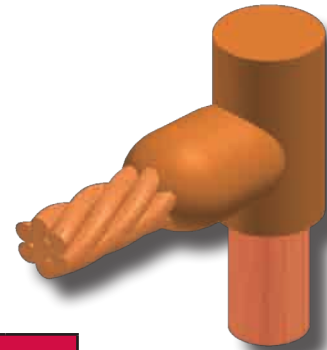
- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended 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
5/8"	19/#8	M-9526	4	90	B-106	4	M-9526-H	4	150	B-106	4
	7/#10	M-9095	4	65	B-106	2	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	4	M-9167-H	4	150	B-106	4
	19/#8	M-9168	4	115	B-106	4	M-9168-H	4	200	B-106	4
3/4"	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	2	M-9530-H	4	250	B-106	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	4	M-9390-H	4	150	B-106	4
	7/#6	M-9381	4	90	B-106	2	M-9381-H	4	150	B-106	4
	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
1"	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	2	M-9329-H	4	250	B-106	4
	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 su□x "N" to mold number.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush
 - 38-0304-00 ~ File
 - 38-0330-00 ~ Cable Clamp

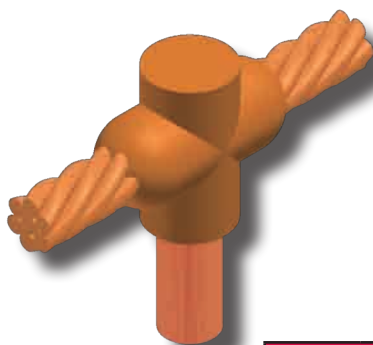
NOTES

- .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "N" to mold number, i.e. M-9525-N is full 1/2" diameter ground rod or roll-threaded rod to 7/#5 CCS cable.
- .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "N" to mold number, i.e. M-9097-N is full 5/8" diameter ground rod or roll-threaded rod to 7/#5 CCS cable.
- .682" actual diameter. For full 3/4" (.750) ground rod and roll-threaded rod, add su□x "N" to mold number, i.e. M-9100-N is full 3/4" diameter ground rod or roll-threaded rod to 7/#5 CCS cable.
- .914" actual diameter. For full 1" (1.00) ground rod and roll-threaded rod, add su□x "N" to mold number, i.e. M-9536-N is full 1" diameter ground rod or roll-threaded rod to 7/#5 CCS cable.

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
5/8"	19/#8	M-9546	4	200	B-106	4	M-9546-H	5	2-150	B-107	4
	7/#10	M-9550	4	90	B-106	4	M-9550-H	4	150	B-106	4
	7/#8	M-9103	4	115	B-106	2	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	4	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	4	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
3/4"	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
	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	4	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	2
	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
1"	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
	7/#10	M-9554	4	150	B-106	4	M-9554-H	4	250	B-106	4
	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

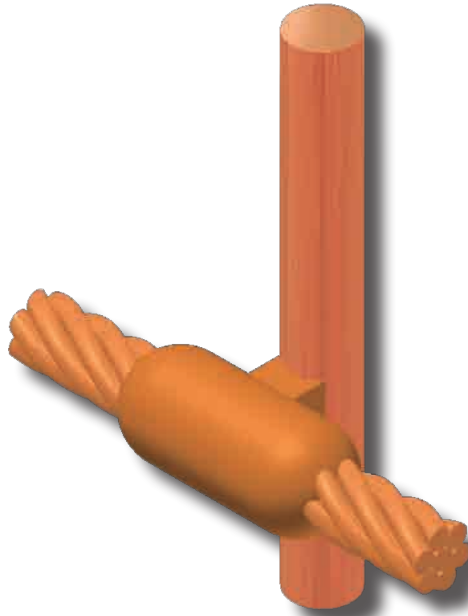
- .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-9102-N is full 1/2" diameter ground rod or roll-threaded rod to 7/#5 CCS cable.
- .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-9097-N is full 5/8" diameter ground rod or roll-threaded rod to 7/#5 CCS cable.
- .682" actual diameter. For full 3/4" (.750) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-9100-N is full 3/4" diameter ground rod or roll-threaded rod to 7/#5 CCS cable.
- .914" actual diameter. For full 1" (1.00) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-9536-N is full 1" diameter ground rod or roll-threaded rod to 7/#5 CCS cable.

- 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 su□x "-N" to mold number.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor
- 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



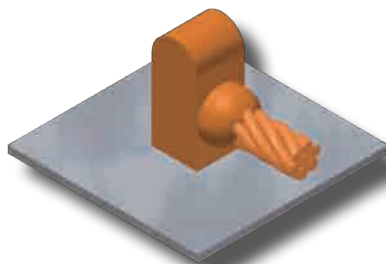
MOLDS FOR COPPER-CLAD STEEL CONDUCTORS

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
5/8"	19/#8	M-9566	24	200	B-106	4
	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	4
	7/#6	M-9276	24	150	B-106	4
	7/#5	M-9143	24	150	B-106	4
	19/#9	M-9336	24	150	B-106	4
	19/#8	M-9569	24	200	B-106	4
3/4"	19/#7	M-9335	13	2-150	B-107	4
	19/#6	M-9570	13	2-200	B-107	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
1"	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
	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

NOTES

- .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-9440-N is full 1/2" diameter ground rod or roll-threaded rod to 7/#5 CCS cable.
- .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-9143-N is full 5/8" diameter ground rod or roll-threaded rod to 7/#5 CCS cable.
- .682" actual diameter. For full 3/4" (.750) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-9226-N is full 3/4" diameter ground rod or roll-threaded rod to 7/#5 CCS cable.
- .914" actual diameter. For full 1" (1.00) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-9577-N is full 1" diameter ground rod or roll-threaded rod to 7/#5 CCS cable.

- 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 su□x "-N" to mold number.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold Cleaning Brush
38-0135-00 ~ Cable Cleaning Brush
38-0304-00 ~ File
38-0330-00 ~ Cable Clamp



CS-1

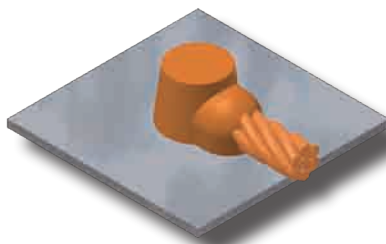
TYPE MOLDS

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	4	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	4
19/#8	M-9585	4	150	B-106	2	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	Not Req'd	2	M-9656-H	4	115	B-106	4
7/#8	M-9661	4	90	B-106	2	FOR HEAVY DUTY CONNECTIONS USE CS-1 TYPE MOLDS				
7/#7	M-9270	4	90	B-106	4					
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	4					
19/#8	M-9675	4	150	B-106	4					
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, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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)

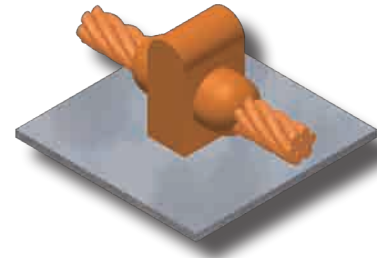
CS-2

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	4	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

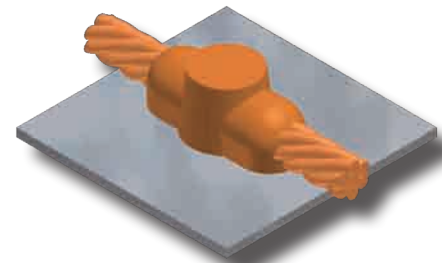
CS-9

TYPE MOLDS

Horizontal Thru Cable to Horizontal Steel Surface

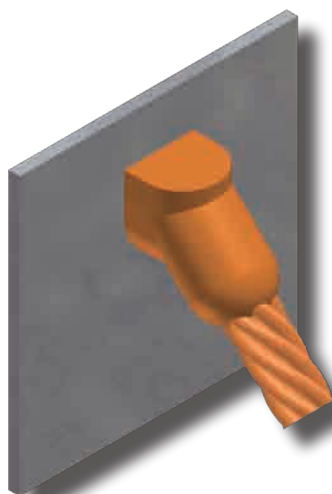
For Copper-Clad Steel Conductors

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	Not Req'd	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, contact thermOweld®.
- 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
- 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)



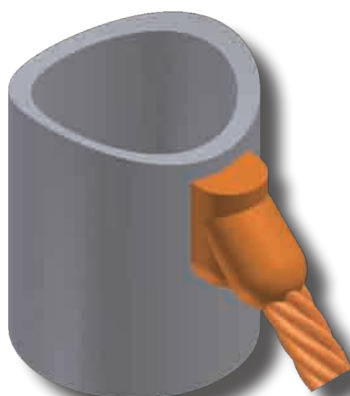
CS-3

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	2	M-9112-H	4	115	B-106	2
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	4	M-9173-H	4	150	B-106	4
7/#6	M-9114	4	115	B-106	2	M-9114-H	4	200	B-106	4
7/#5	M-9115	4	115	B-106	4	M-9115-H	4	200	B-106	4
19/#9	M-9174	4	115	B-106	4	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



CS-3

TYPE MOLDS

Angular Cable Drop to Vertical Steel Pipe

For AWG 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	4
	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	4
	4" to 6"	M-9687	4	90	B-106	4
	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	4
	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	4
	6" to 10"	M-9696	4	115	B-106	4
	12" to 30"	M-9697	4	115	B-106	4

- For sizes not listed, contact thermOweld®.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0106-32 ~ Vertical Chain Clamp w/ B-106 Handles for 4" Pipe & smaller
 - 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

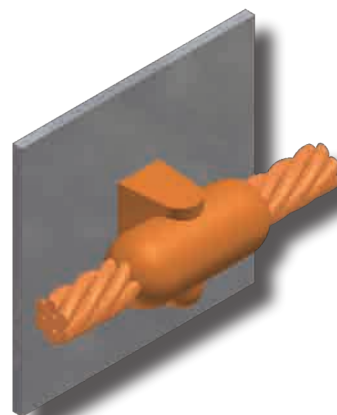
CS-6

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	4
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

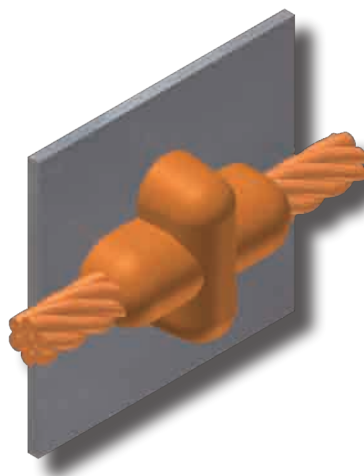
CS-27

TYPE MOLDS

Horizontal Thru Cable to Vertical Steel Surface

For Copper-Clad Steel Conductors

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



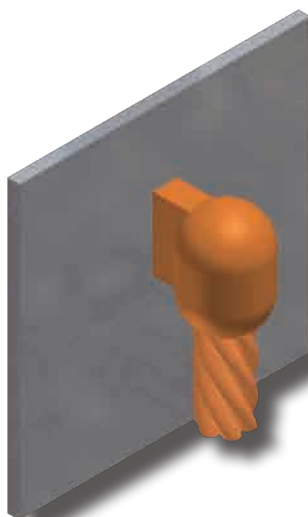
MOLDS FOR COPPER-CLAD STEEL CONDUCTORS					
Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	M-9650	4	65	B-106	4
7/#8	M-9651	4	115	B-106	4
7/#7	M-9652	4	115	B-106	4
7/#6	M-9653	4	150	B-106	4
7/#5	M-9654	4	150	B-106	4
19/#9	M-9655	4	150	B-106	4

- For sizes not listed, contact thermOweld®.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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

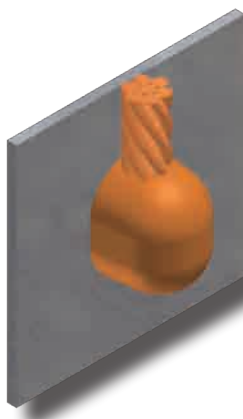
TYPE MOLDS

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-9138	4	65	B-106	2	M-9138-H	4	115	B-106	4
7/#8	M-9601	4	115	B-106	4	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	2	M-9375-H	4	250	B-106	4
19/#9	M-9603	4	200	B-106	4	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	2	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®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold Cleaning Brush
38-0135-00 ~ Cable Cleaning Brush
38-0101-00 ~ Rasp

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	4	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		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

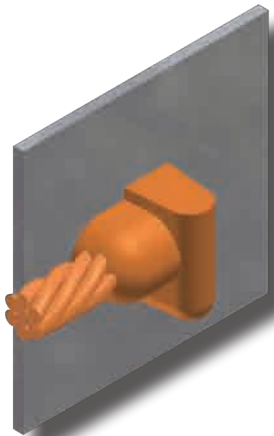
CS-18

TYPE MOLDS

Horizontal 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	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



Left Hand Mold



Right Hand Mold

- For sizes not listed, contact thermOweld®.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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)

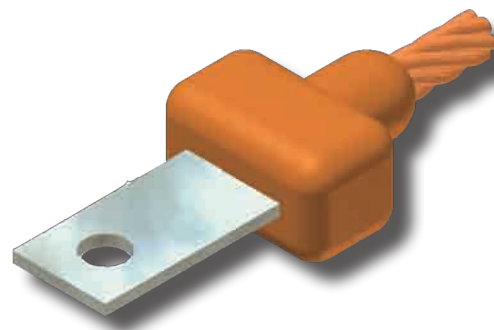
MOLDS FOR COPPER-CLAD STEEL CONDUCTORS

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	4
	1/4 X 1	M-9620	4	90	B-106	4
	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	4
	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-1

TYPE MOLDS

Horizontal Cable Tap to Horizontal Lug or Bus
For Copper-Clad Steel Conductors
 See page 51-52 for Lug part numbers.



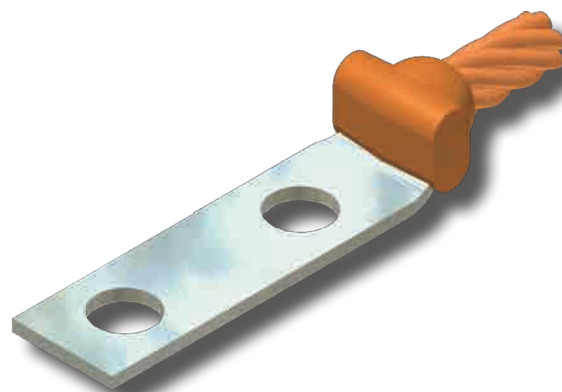
MOLDS FOR COPPER-CLAD STEEL CONDUCTORS

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	4
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

CB-33

TYPE MOLDS

Horizontal Cable Tap to Horizontal Lug or Bus
For Copper-Clad Steel Conductors
 See page 53 for Lug part numbers.



Section 4 - Molds
 Copper-Clad Steel Conductors

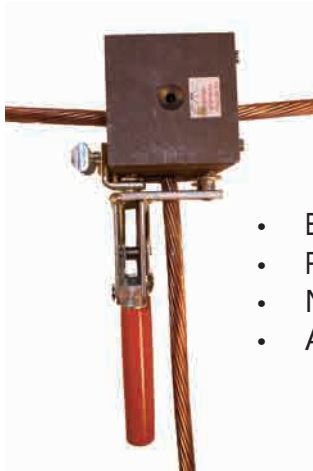
- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush

CONTRACTOR FRIENDLY SERIES



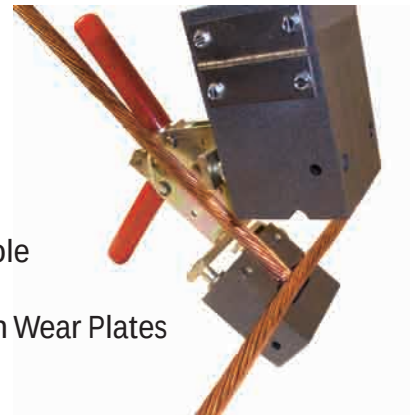
Patented EZ-Lite® System

- Makes All thermOweld® Molds EZ to Ignite
- Lights From The Top At Any Angle
- Reduces Emissions 50% Or More
- Reduces Splatter
- Keeps Handle Clamps Clean
- Added Safety - It Points Exhaust Away From User



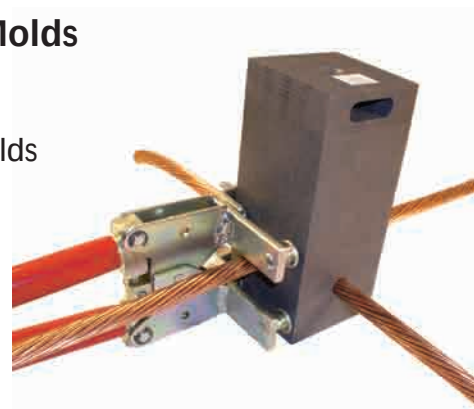
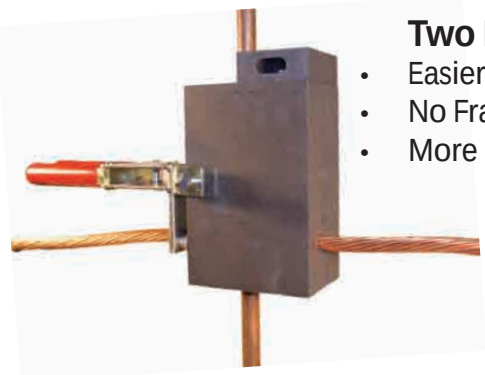
Offset Handles

- Easier To Use
- Reduces Labor - Will Fit Into A Smaller Ditch/Hole
- No Extra Digging
- Allows CC-4 & CC-11 Molds To Be Supplied With Wear Plates



Two Piece CC-11 and CR-3 Molds

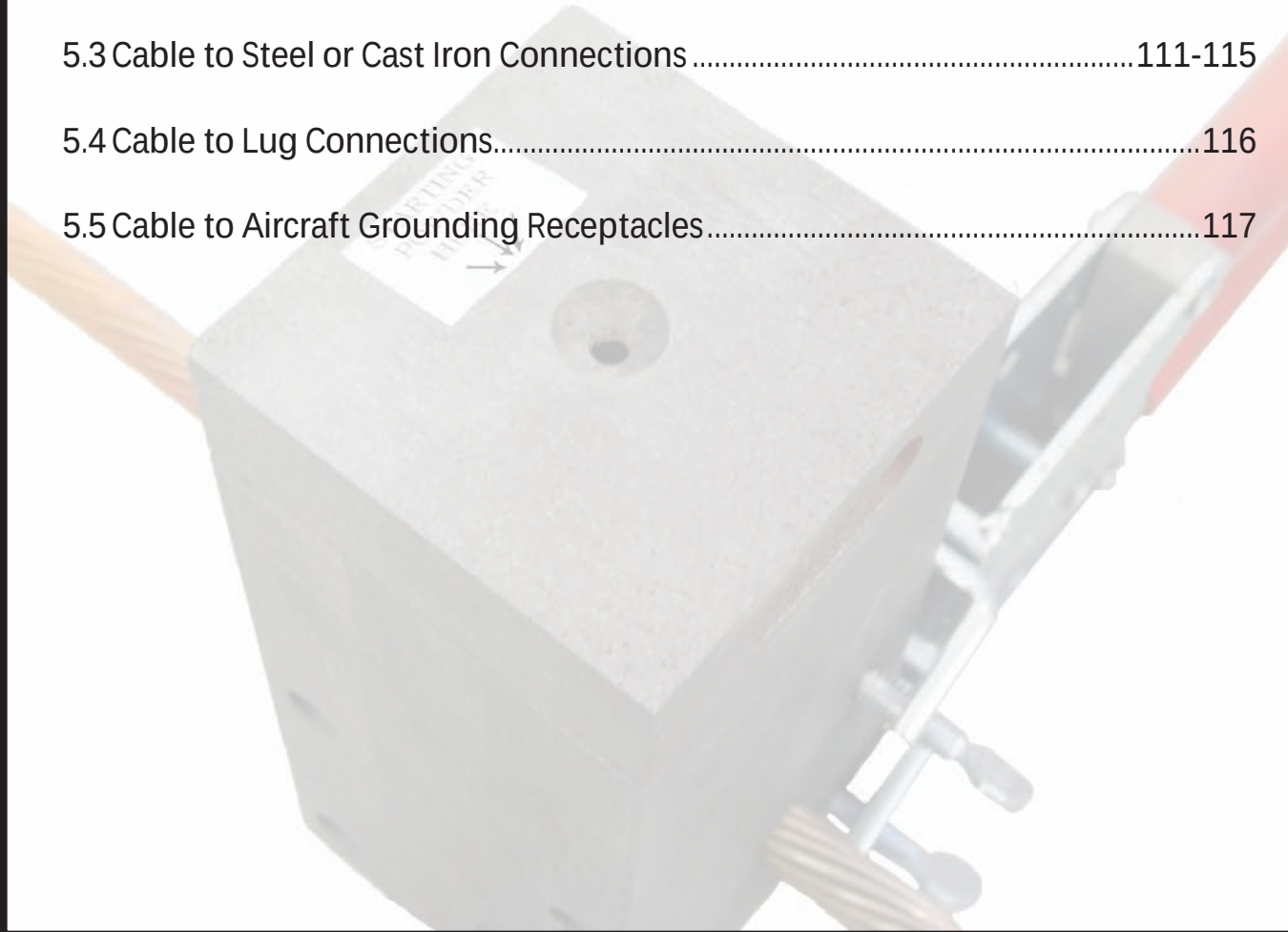
- Easier To Use
- No Frame Required
- More Economical Than 3 Piece Molds



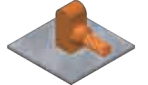
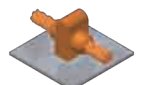
Section 5

Molds for use with Lightning Protection Conductors

Description	Page #
5.1 Cable to Cable Connections.....	103-105
5.2 Cable to Ground Rod Connections.....	106-110
5.3 Cable to Steel or Cast Iron Connections	111-115
5.4 Cable to Lug Connections.....	116
5.5 Cable to Aircraft Grounding Receptacles.....	117



WELD TYPE		PG #
	CC-1	103
	CC-2	104
	CC-4	105
	CR-1	106
	CR-2	107
	CR-3	108
	CR-18	109

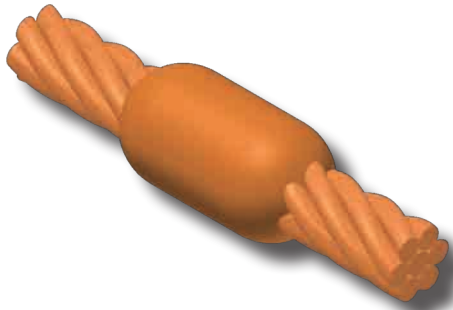
WELD TYPE		PG #
	CR-36	110
	CS-1	111
	CS-8	111
	CS-2	112
	CS-9	112
	CS-3	113
	CS-18	113

WELD TYPE		PG #
	CS-6	114
	CS-27	114
	CS-4	115
	CS-7	115
	CB-1	116
	AC-1	117
	AC-2	117

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	THOMPSON	ROBBINS	INDEPENDENT	AC	EAST COAST	HEARY	HARGER
A	14	11A, 10	22	C-150	C14	HB6C	14
B	509	11		C-152		HB4C	10
C	29X, 32	1	32S	C-122, C-122L	C29, C32	HB29-17C, HB32-17C	29, 30, 32, 33
D	32S, 505, 28R	601, 603	20, 500	C-125, C-126, C-128	C385	HB24-14C, HB28-14C	25, 35, 28
E		604	40, G1				
F	36S, 506	602	36S	C-123, C-127		HB36-17C, BH28B-13C	20, 36
G			501, 21, 44S, 40S	C-124		HB40-17C	40
H			502				
J			501B				
K	507		G3				38
L			502A				
Q		605*		C-137*	C4/0-19*	HB122-4/0*	54*, 64*

* = 4/0 CONCENTRIC CABLE



CC-1

TYPE MOLDS

Horizontal End to End

For Lightning Protection Conductors

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS

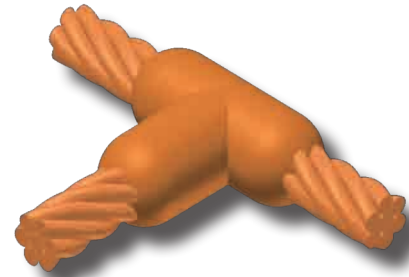
Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
A	M-5002	4	25	B-106	2
B	M-5006	4	45	B-106	4
C	M-5032	4	65	B-106	2
D	M-5012	4	90	B-106	2
E	M-5013	4	90	B-106	2
F	M-5016	4	90	B-106	2
G	M-5005	4	115	B-106	2
H	M-2176	4	115	B-106	4
J	M-2178	4	115	B-106	4
K	M-2180	4	115	B-106	2
L	M-2182	4	150	B-106	4
Q	M-208	4	90	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®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush
 - 38-0330-00 ~ Cable Clamp

CC-2

TYPE MOLDS

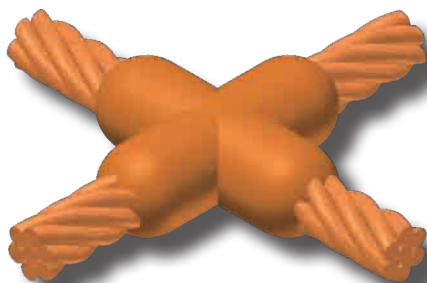
Horizontal Cable Tap to Horizontal Cable Run
For Lightning Protection Conductors



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	4
	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	115	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
F	A	M-5286	4	90	B-106	4
	F	M-2193	4	150	B-106	2
	E	M-5014	4	150	B-106	2
	D	M-5015	4	115	B-106	4
	C	M-2194	4	115	B-106	2
	B	M-5019	4	90	B-106	2
	A	M-5017	4	90	B-106	2
G	Q	M-5018	4	150	B-106	4
	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
H	Q	M-2227	4	150	B-106	4
	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
J	Q	M-2236	4	150	B-106	4
	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
Q	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
L	Q	M-2257	4	150	B-106	4
	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
Q	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	M-241	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	4
A	A	M-5037	4	90	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®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- 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

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
F	A	M-2284	4	115	B-106	4
	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
J	Q	M-2307	4	200	B-106	4
	J	M-2308	4	250	B-106	4
	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

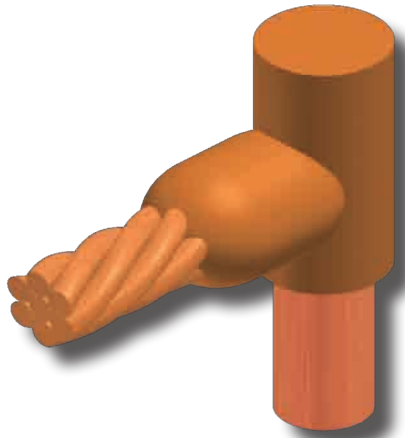
Cable Code		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
K	K	M-2318	4	250	B-106	2
	J	M-2319	4	250	B-106	4
	H	M-2855	4	250	B-106	4
	G	M-2321	4	200	B-106	4
	F	M-2322	4	200	B-106	4
	E	M-2323	4	200	B-106	4
	D	M-2324	4	200	B-106	4
	C	M-2325	4	200	B-106	4
	B	M-2326	4	150	B-106	4
	A	M-2327	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	Q	M-2340	4	250	B-106	4
	Q	M-443	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	4
	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®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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



NOTES

1. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-5062-N is full 1/2" diameter ground rod or roll-threaded rod to "D" cable.
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-5069-N is full 5/8" diameter ground rod or roll-threaded rod to "D" cable.
3. .682" actual diameter. For full 3/4" (.750) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-5081-N is full 3/4" diameter ground rod or roll-threaded rod to "D" cable.
4. .914" actual diameter. For full 1" (1.00) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-2367-N is full 1" diameter ground rod or roll-threaded rod to "D" cable.

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	4
	B	M-2347	4	90	B-106	4
	C	M-5064	4	90	B-106	4
	D	M-5061	4	115	B-106	4
	E	M-5062	4	115	B-106	4
	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-500	4	90	B-106	2
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-508	4	90	B-106	2
3/4"	A	M-5079	4	90	B-106	4
	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-518	4	90	B-106	2
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-528	4	150	B-106	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 su□x "-N" to mold number.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold Cleaning Brush
38-0135-00 ~ Cable Cleaning Brush
38-0304-00 ~ File
38-0330-00 ~ Cable Clamp

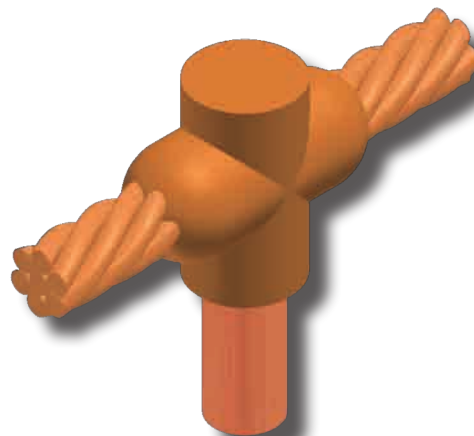
MOLDS FOR LIGHTNING PROTECTION CONDUCTORS

Ground Rod Size	Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2"	A	M-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-542	4	115	B-106	2
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-550	4	115	B-106	2
3/4"	A	M-5100	4	90	B-106	4
	B	M-5106	4	115	B-106	4
	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-561	4	115	B-106	2
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-572	4	150	B-106	2

CR-2

TYPE MOLDS

Horizontal Cable to Ground Rod
For Lightning Protection Conductors



NOTES

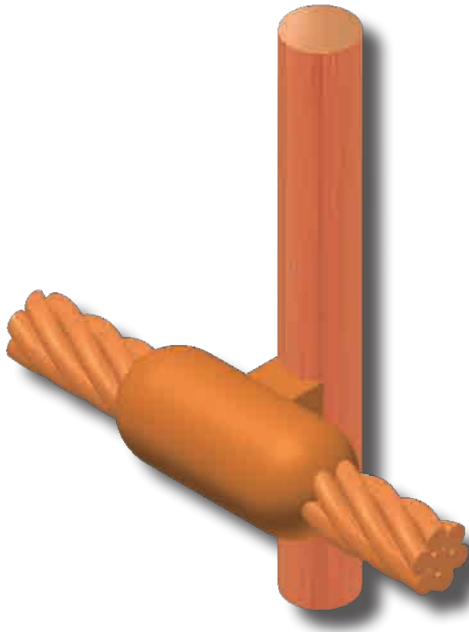
- .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-5091-N is full 1/2" diameter ground rod or roll-threaded rod to "D" cable.
- .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-5095-N is full 5/8" diameter ground rod or roll-threaded rod to "D" cable.
- .682" actual diameter. For full 3/4" (.750) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-5102-N is full 3/4" diameter ground rod or roll-threaded rod to "D" cable.
- .914" actual diameter. For full 1" (1.00) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-2395-N is full 1" diameter ground rod or roll-threaded rod to "D" cable.

- 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 su□x "-N" to mold number.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- 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



NOTES

1. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-5108-N is full 1/2" diameter ground rod or roll-threaded rod to "D" cable.
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-5115-N is full 5/8" diameter ground rod or roll-threaded rod to "D" cable.
3. .682" actual diameter. For full 3/4" (.750) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-5120-N is full 3/4" diameter ground rod or roll-threaded rod to "D" cable.
4. .914" actual diameter. For full 1" (1.00) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-2424-N is full 1" diameter ground rod or roll-threaded rod to "D" cable.

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	4
	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-1583	24	150	B-106	2
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	4
	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-1588	24	150	B-106	2
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-1596	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-2132	24	200	B-106	4
	K	M-2427	24	200	B-106	4
	L	M-2428	24	250	B-106	4
	Q	M-1605	24	150	B-106	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 su□x "-N" to mold number.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- 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-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	115	B-106	4
	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

CR-18

TYPE MOLDS

Vertical Cable Up to Ground Rod
For Lightning Protection Conductors



NOTES

- .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-10573-N is full 1/2" diameter ground rod or roll-threaded rod to "D" cable.
- .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-8472-N is full 5/8" diameter ground rod or roll-threaded rod to "D" cable.
- .682" actual diameter. For full 3/4" (.750) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-10594-N is full 3/4" diameter ground rod or roll-threaded rod to "D" cable.
- .914" actual diameter. For full 1" (1.00) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-10604-N is full 1" diameter ground rod or roll-threaded rod to "D" cable.

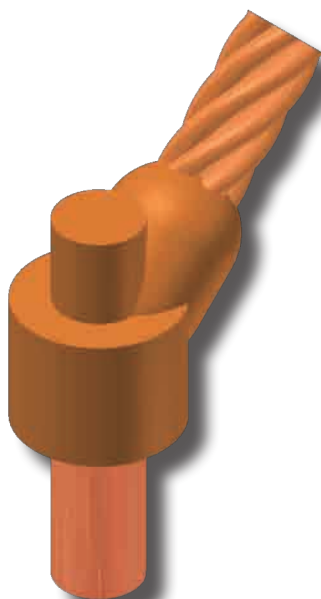
- For sizes not listed, contact thermOweld®.
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add su□x "-N" to mold number.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- 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. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-10616-N is full 1/2" diameter ground rod or roll-threaded rod to "D" cable.
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-10628-N is full 5/8" diameter ground rod or roll-threaded rod to "D" cable.
3. .682" actual diameter. For full 3/4" (.750) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-10640-N is full 3/4" diameter ground rod or roll-threaded rod to "D" cable.
4. .914" actual diameter. For full 1" (1.00) ground rod and roll-threaded rod, add su□x "-N" to mold number, i.e. M-10652-N is full 1" diameter ground rod or roll-threaded rod to "D" cable.

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	4
	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

- 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 su□x "-N" to mold number.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- 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					
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	4
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-647	4	115	B-106	2

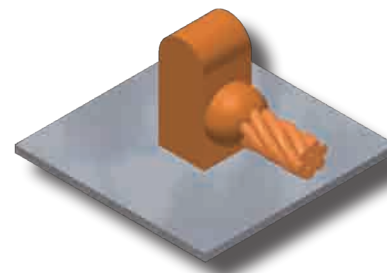
CS-1

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
A	M-5127	3†	45	Not Req'd	4
B	M-2455	3†	65	Not Req'd	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-6114	4	115	B-106	2

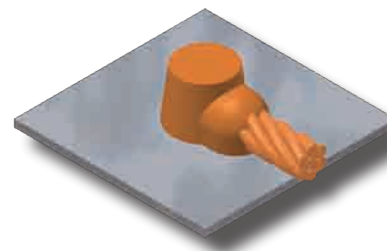
CS-8

TYPE MOLDS

Horizontal Cable to Horizontal Steel Surface

For Lightning Protection Conductors

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



- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- 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
- 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)

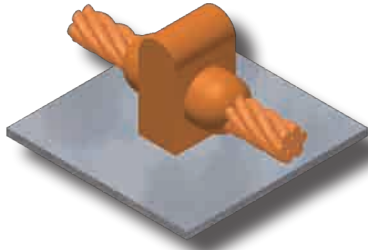
CS-2

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-619	4	150	B-106	2

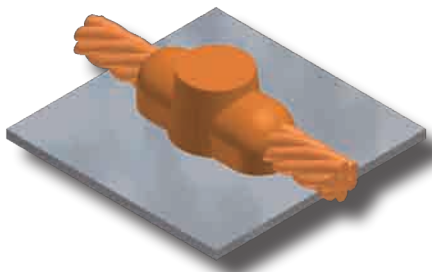
CS-9

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	Not Req'd	4
B	M-10662	3†	65	Not Req'd	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

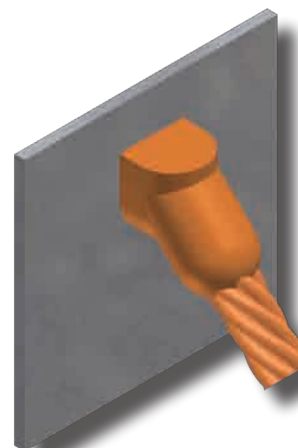
- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - † ~ Sold complete with frame
 - 38-0309-00 ~ Flint Ignitor
- 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-9 Molds Only)

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	4
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-593	4	115	B-106	2

CS-3

TYPE MOLDS

Angular Cable Drop to Vertical Steel Surface
For Lightning Protection Conductors

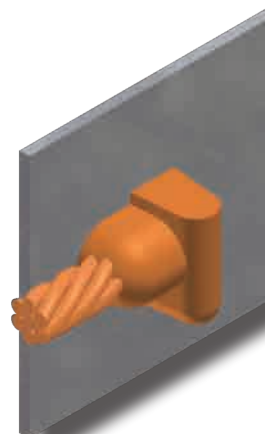


MOLDS FOR LIGHTNING PROTECTION CONDUCTORS					
Cable Code	Mold # †	Price Key	Weld Metal	Handle Clamps	Lead Time
A	M-5054	4	45	B-106	4
B	M-10673	4	65	B-106	4
C	M-5205	4	65	B-106	2
D	M-5202	4	90	B-106	4
E	M-5203	4	115	B-106	4
F	M-5000	4	115	B-106	4
Q	M-9253	4	115	B-106	4

CS-18

TYPE MOLDS

Horizontal Tap Cable to Vertical Steel Surface
For Lightning Protection Conductors
Note that the cable is **ON** the surface



† 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-9253-LH



Left Hand Mold



Right Hand Mold

- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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 cable code "C" & Larger Molds (CS-18 Molds Only)

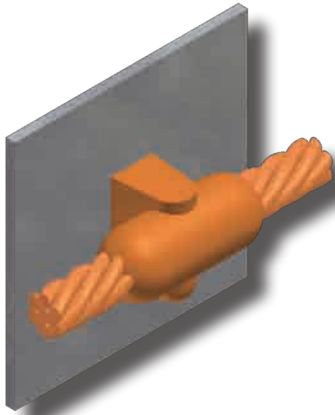
CS-6

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	4
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-1633	4	150	B-106	2

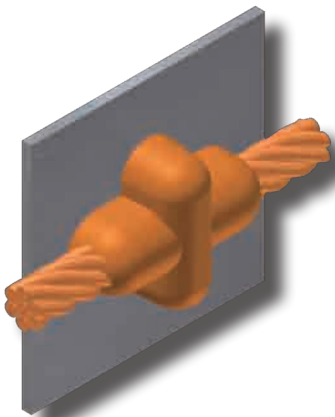
CS-27

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-2177	4	150	B-106	2

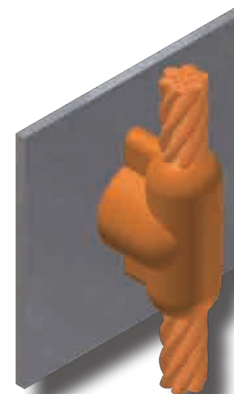
- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended 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-27 Molds Only)

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-1223	17	250	B-106	2

CS-4

TYPE MOLDS

Vertical Thru Cable to Vertical Steel Surface

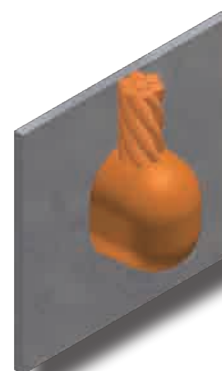
*For Lightning Protection Conductors*Note that the cable is **OFF** the surface

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS					
Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
A	M-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-1643	17	150	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

- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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

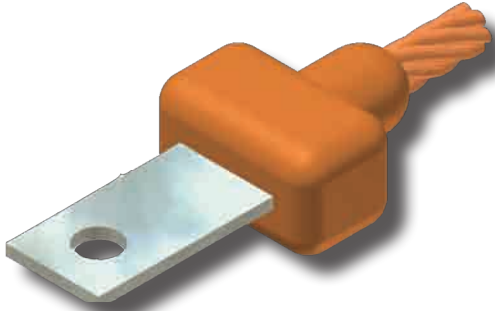
CB-1

TYPE MOLDS

Horizontal Cable Tap to Horizontal Lug or Bus

For Lightning Protection Conductors

See pages 51-52 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-984	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-985	4	90	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®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush

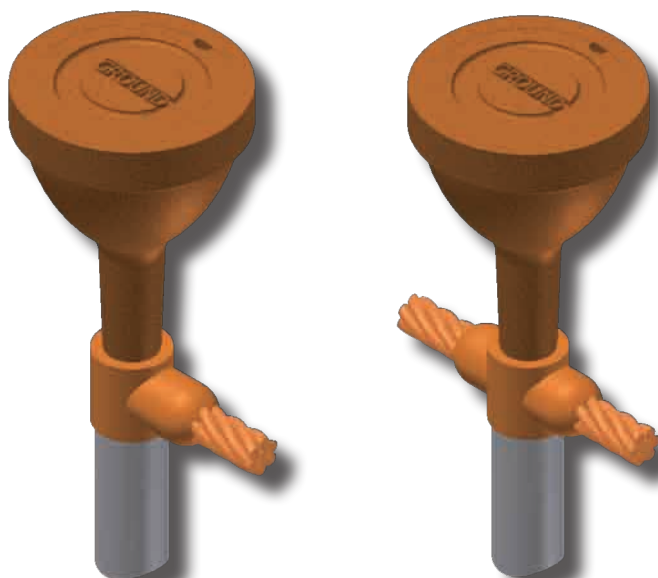
AC-1 / AC-2

TYPE MOLDS

Horizontal Cable to

Aircraft Grounding Receptacle

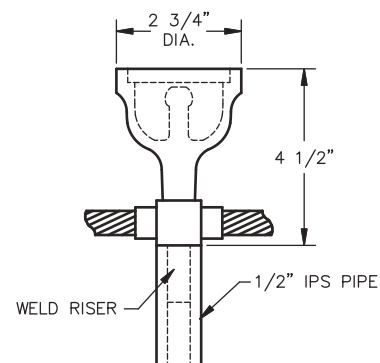
Types AC-1 and AC-2 are made with the receptacle in an inverted position. The resulting riser is then used to position the receptacle on top of 1/2" IPS pipe. See page 78 for Aircraft Grounding Receptacle part numbers.



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 or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush



SAME DAY SERVICE

(Cathodic Protection Market)

JUST LIKE HAVING IT ON THE SHELF

MOLDS

M-100
M-101
M-102
M-104
M-106
M-112
M-129
M-142
M-151
M-154
M-156
M-159
M-159-6
M-161

WELD METAL

15CP
15CPS
25CI
32CI
45CI

ACCESSORIES

38-0200-00 Copper Sleeves
38-0201-00 Copper Sleeves
38-0207-00 Copper Sleeves

THERMOCAPS

38-6687-00 thermOcap
38-6687-02 thermOcap PC
38-6769-00 thermOprime



5PM
CENTRAL STANDARD
TIME

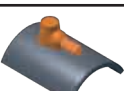
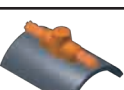
Call Today Ship Today!

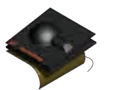
*SDS is not a guaranteed service.

Section 6

Products for Cathodic Protection

Description	Page #
6.1 Cable to Steel or Cast Iron Connections	121-125
6.2 thermOcaps	126
6.3 Jumper Bonds	127
6.4 Strap Bonds	128
6.5 Adapter Sleeves	129
6.6 Hammer Dies	129
6.7 Cable to Cable Connections	130-131
6.8 Cable to Lug Connections	131
6.9 Cable to Ground Rod Connections	132

WELD TYPE		PG #
	CS-32	121
	CP KIT	121
	CS-34	122
	CS-33	123
	CS-35	123
	CS-36	124
	CS-37	124
	CS-48	125
	CS-49	125

WELD TYPE		PG #
	thermO-Cap	126
	Jumper Bonds	127
	Strap Bonds	128
	CC-1	130
	CC-6	130
	CC-2	131
	CB-1	131
	CR-1	132
	CR-2	132

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 B31.8 862.115 Para (b)1 (steel pipe) 15 grams maximum weldmetal cartridge

ASME B31.8 826.223 Para (a) (ductile / cast iron pipe) 32 grams maximum weldmetal cartridge

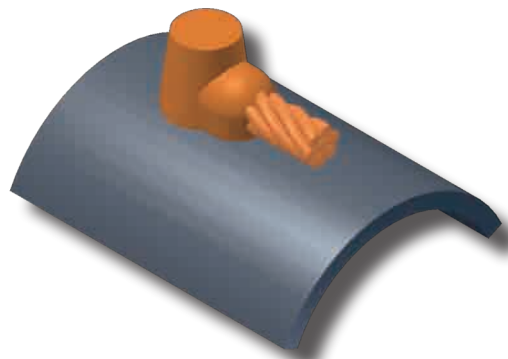
MOLDS FOR AWG CONDUCTORS						
Cable Size	Surface	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6 Sol†	Flat (4" & Larger pipe)	M-100	2	15CP	Not Req'd	2
	3/4" to 3 1/2" pipe	M-101	3	15CP	Not Req'd	2
#6	Flat (4" & Larger pipe)	M-102	2	15CP	Not Req'd	2
	3/4" to 3 1/2" pipe	M-103	3	15CP	Not Req'd	2
#4 Sol	Flat (6" & Larger pipe)	M-104	2	15CP	Not Req'd	2
	3/4" to 3 1/2" pipe	M-105	3	15CP	Not Req'd	2
	4" to 5" pipe	M-130	3	15CP	Not Req'd	2
#4	Flat (6" & Larger pipe)	M-106	2	15CP	Not Req'd	2
	3/4" to 3 1/2" pipe	M-107	3	15CP	Not Req'd	2
	4" to 5" pipe	M-108	3	15CP	Not Req'd	2
#2 Sol	Flat (10" & Larger pipe)	M-109	3	25CP	Not Req'd	2
	1" to 3 1/2" pipe	M-110	3	25CP	Not Req'd	2
	4" to 8" pipe	M-111	3	25CP	Not Req'd	2
#2	Flat (10" & Larger pipe)	M-112	3	32CP	Not Req'd	2
	1" to 3 1/2" pipe	M-113	3	32CP	Not Req'd	2
	4" to 8" pipe	M-114	3	32CP	Not Req'd	2
	10" to 14" pipe	M-115	3	32CP	Not Req'd	2
#1	Flat (16" & Larger pipe)	M-116	3	45CP	Not Req'd	2
	1 1/2" to 3 1/2" pipe	M-117	3	45CP	Not Req'd	2
	4" to 8" pipe	M-118	3	45CP	Not Req'd	2
	10" to 14" pipe	M-119	3	45CP	Not Req'd	2
1/0	Flat (20" & Larger pipe)	M-120	3	65CP	Not Req'd	2
	2 1/2" to 3 1/2" pipe	M-121	3	65CP	Not Req'd	2
	4" to 8" pipe	M-122	3	65CP	Not Req'd	2
	10" to 18" pipe	M-123	3	65CP	Not Req'd	2
2/0	Flat (20" & Larger pipe)	M-124	3	65CP	Not Req'd	2
	2 1/2" to 3 1/2" pipe	M-125	3	65CP	Not Req'd	2
	4" to 8" pipe	M-126	3	65CP	Not Req'd	2
	10" to 18" pipe	M-127	3	65CP	Not Req'd	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®.
- 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 su□x "-G"
 - 38-0309-00 ~ Flint Ignitor
- 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-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.

CP Kit



Each CP Kit Contains

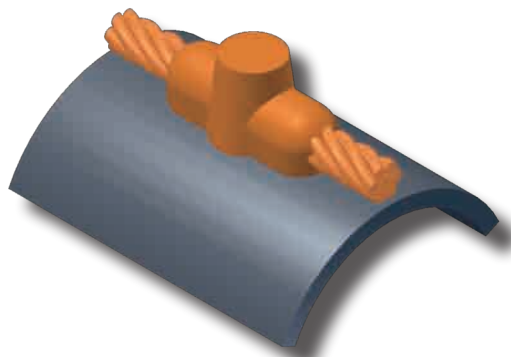
Flat to 4" & Larger Pipe	3/4" to 3 1/2" & Larger Pipe
(1) M-100 Mold	(1) M-101 Mold
(80) 15PS Cartridges	(80) 15PS Cartridges
(80) Sleeves	(80) Sleeves
Flint Ignitor	Flint Ignitor
Mold Cleaner	Mold Cleaner
Part #	Part #
38-4350-00	38-4351-00

Specialty kits are available for other infrastructure applications and unique contractor needs. The NACE-trained sta□ at thermOweld® is ready to help you with your cathodic protection project.

CS-34

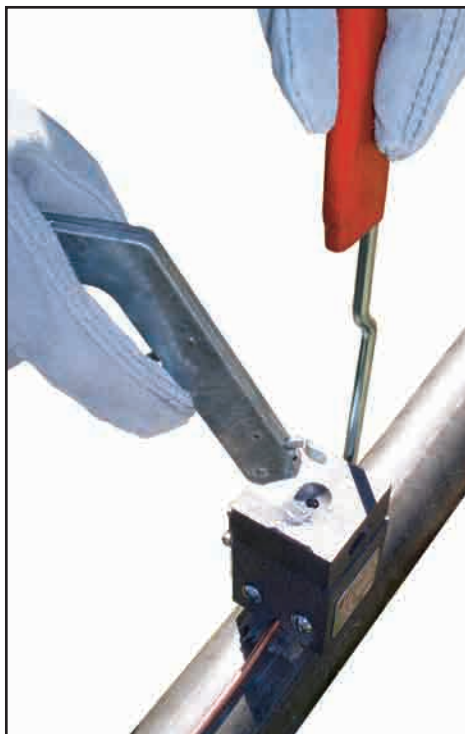
TYPE MOLDS

**Cathodic Protection
Horizontal Thru 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 (12" & Larger pipe)	M-1955	3	25CP	Not Req'd	2
	3/4" to 2" pipe	M-5666	3	25CP	Not Req'd	2
	2 1/2" to 5" pipe	M-3097	3	25CP	Not Req'd	2
	6" to 10" pipe	M-3141	3	25CP	Not Req'd	2
#6	Flat (12" & Larger pipe)	M-5661	3	25CP	Not Req'd	4
	3/4" to 2" pipe	M-5662	3	25CP	Not Req'd	4
	2 1/2" to 5" pipe	M-5663	3	25CP	Not Req'd	2
	6" to 10" pipe	M-5664	3	25CP	Not Req'd	2
#4 Sol	Flat (12" & Larger pipe)	M-1956	3	25CP	Not Req'd	4
	3/4" to 2" pipe	M-1957	3	25CP	Not Req'd	4
	2 1/2" to 5" pipe	M-1958	3	25CP	Not Req'd	2
	6" to 10" pipe	M-1966	3	25CP	Not Req'd	4
#4	Flat (12" & Larger pipe)	M-6000	3	25CP	Not Req'd	2
	3/4" to 2" pipe	M-1967	3	25CP	Not Req'd	4
	2 1/2" to 5" pipe	M-5501	3	25CP	Not Req'd	2
	6" to 10" pipe	M-5503	3	25CP	Not Req'd	2
#2 Sol	Flat (14" & Larger pipe)	M-5505	3	32CP	Not Req'd	4
	2" to 3 1/2" pipe	M-5507	3	32CP	Not Req'd	4
	4" to 8" pipe	M-5510	3	32CP	Not Req'd	2
	10" to 16" pipe	M-5514	3	32CP	Not Req'd	2
#2	Flat (14" & Larger pipe)	M-5518	3	45CP	Not Req'd	2
	2" to 3 1/2" pipe	M-5986	3	45CP	Not Req'd	2
	4" to 8" pipe	M-5605	3	45CP	Not Req'd	2
	10" to 16" pipe	M-5988	3	45CP	Not Req'd	4
#1	Flat (18" & Larger pipe)	M-5519	3	45CP	Not Req'd	4
	2" to 3 1/2" pipe	M-5520	3	45CP	Not Req'd	4
	4" to 8" pipe	M-5521	3	45CP	Not Req'd	4
	10" to 16" pipe	M-5523	3	45CP	Not Req'd	4
1/0	Flat (30" & Larger pipe)	M-5524	3	65CP	Not Req'd	4
	3" to 4" pipe	M-5525	3	65CP	Not Req'd	4
	5" to 6" pipe	M-5526	3	65CP	Not Req'd	4
	8" to 10" pipe	M-5527	3	65CP	Not Req'd	4
2/0	Flat (30" & Larger pipe)	M-6251	3	65CP	Not Req'd	4
	3" to 4" pipe	M-5530	3	65CP	Not Req'd	4
	5" to 6" pipe	M-5531	3	65CP	Not Req'd	4
	8" to 10" pipe	M-5532	3	65CP	Not Req'd	4
	12" to 28" pipe	M-5533	3	65CP	Not Req'd	4

‡ For Wire Size #14 to #10 Solid, (2) 38-0200-00 Sleeves/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®.
- 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 su□x "-G"
 - 38-0309-00 ~ Flint Ignitor
- 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

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	Not Req'd	2
#6	Flat (30" & larger pipe)	M-157	3	25CI	Not Req'd	2
#4 Sol	Flat (30" & larger pipe)	M-158	3	45CI	Not Req'd	2
#4	Flat (30" & larger pipe)	M-159	3	45CI	Not Req'd	2
#2 Sol	Flat (30" & larger pipe)	M-160	3	45CI	Not Req'd	2
#2	Flat (30" & larger pipe)	M-161	3	45CI	Not Req'd	2
#1	Flat (30" & larger pipe)	M-163	3	65CI	Not Req'd	2
† For Wire Size #14 to #10 Solid, 38-0200-00 Sleeve/Weld Req'd						

CS-33

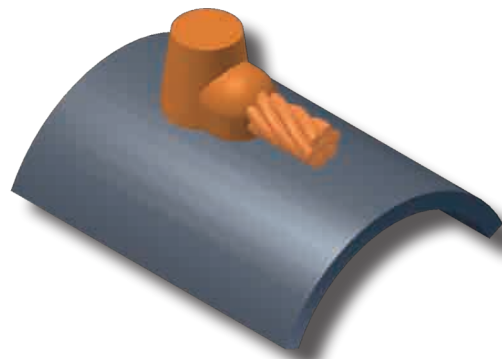
TYPE MOLDS

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-5316	3	32CI	Not Req'd	4
#6	Flat (30" & larger pipe)	M-5535	3	32CI	Not Req'd	4
#4 Sol	Flat (30" & larger pipe)	M-5536	3	45CI	Not Req'd	4
#4	Flat (30" & larger pipe)	M-5537	3	45CI	Not Req'd	2
#2 Sol	Flat (30" & larger pipe)	M-5538	3	45CI	Not Req'd	4
#2	Flat (30" & larger pipe)	M-5540	3	45CI	Not Req'd	2
#1	Flat (30" & larger pipe)	M-5542	3	65CI	Not Req'd	4
† For Wire Size #14 to #10 Solid, (2) 38-0200-00 Sleeves/Weld Req'd						

CS-35

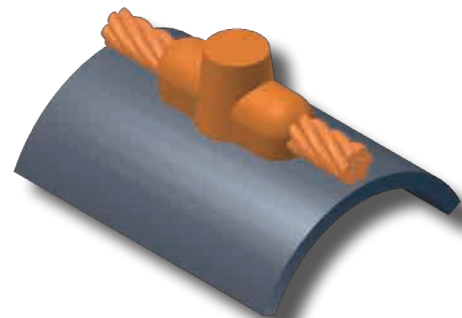
TYPE MOLDS

Cathodic Protection

Horizontal Thru Cable to

Horizontal Cast Iron Surface

For AWG Conductors



DO NOT use Type CS-33 or 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 metallurgical effects.

- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- **Welding To Horizontal Pipe:** To weld to 4" to 24" horizontal pipe, add pipe size to mold number. 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 expedited service, contact thermOweld®.
- 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
- 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

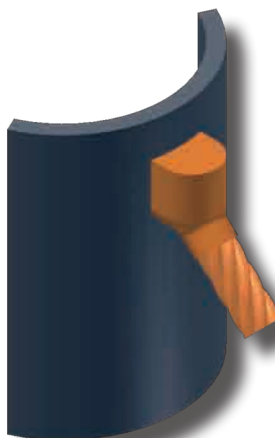
CS-36

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

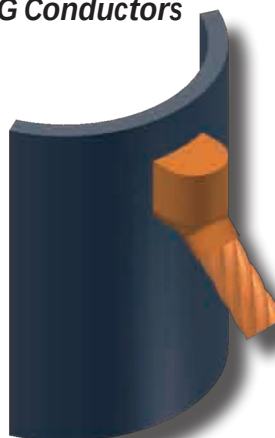
CS-37

TYPE MOLDS

Cathodic Protection

Cable to Vertical Cast Iron

For AWG Conductors

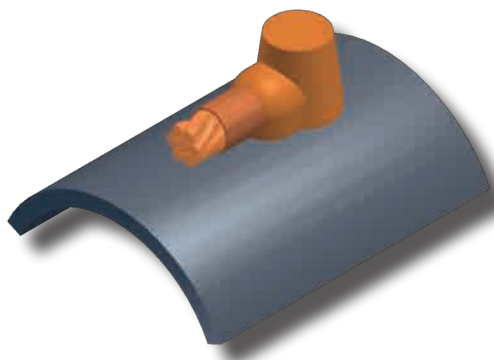


MOLDS FOR AWG CONDUCTORS						
Cable Size	Surface	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6 Sol†	Flat (30" & larger pipe)	M-2594-S	18 †	25CI	40-4565-00	2
#6	Flat (30" & larger pipe)	M-2594	18 †	25CI	40-4565-00	2
#4 Sol	Flat (30" & larger pipe)	M-2595-S	18 †	32CI	40-4565-00	4
#4	Flat (30" & 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.
- **Welding To Vertical Pipe (CS-37 only):** To weld to 4" to 24" vertical pipe, add pipe size to mold number. To weld #1 str cable to 6" vertical pipe, the mold number would be M-2597-6. To weld to pipe 30" and larger, use Flat surface mold.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - † ~ Sold complete with handles. If not required, specify MOLD NUMBER followed by su x "-G".
 - 38-0309-00 ~ Flint Ignitor
- 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

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-48/CS-49

TYPE MOLDS

Cathodic Protection

Field Made Bond to Horizontal Steel or Cast Iron Surface

For AWG Conductors

MOLDS FOR AWG CONDUCTORS

CS-48 MOLD INFORMATION FOR STEEL PIPE						Bond Size	CS-49 MOLD INFORMATION FOR CAST IRON PIPE					
Surface	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time		Surface	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
4" pipe	M-7343	3†	15CP	Not Req'd	4	#6	4" to 24" pipe	M-7352-P.S.	3†	25CI	Not Req'd	4
6" to 8" pipe	M-7344	3†	15CP	Not Req'd	4		30" & Larger pipe	M-7352	3†	25CI	Not Req'd	2
10" & Larger pipe	M-7342	3†	15CP	Not Req'd	2		Replace P.S. with Pipe Size (Ex. M-7352-4 for 4" Pipe)					
4" pipe	M-7346	3†	25CP	Not Req'd	4	#4	4" to 24" pipe	M-154-P.S.	3†	32CI	Not Req'd	4
6" to 8" pipe	M-7347	3†	25CP	Not Req'd	2		30" & Larger pipe	M-154	3†	32CI	Not Req'd	2
10" & Larger pipe	M-7345	3†	25CP	Not Req'd	2		Replace P.S. with Pipe Size (Ex. M-154-4 for 4" Pipe)					
4" pipe	M-7336	3†	25CP	Not Req'd	4	#2	4" to 24" pipe	M-175-P.S.	3†	32CI	Not Req'd	4
6" to 8" pipe	M-131	3†	25CP	Not Req'd	2		30" & Larger pipe	M-175	3†	32CI	Not Req'd	2
10" & Larger pipe	M-129	3†	25CP	Not Req'd	2		Replace P.S. with Pipe Size (Ex. M-175-4 for 4" Pipe)					
4" pipe	M-7349	3†	32CP	Not Req'd	4	#1	4" to 24" pipe	M-7354-P.S.	3†	45CI	Not Req'd	4
6" to 8" pipe	M-7350	3†	32CP	Not Req'd	4		30" & Larger pipe	M-7354	3†	45CI	Not Req'd	4
10" & Larger pipe	M-7348	3†	32CP	Not Req'd	2		Replace P.S. with Pipe Size (Ex. M-7354-4 for 4" Pipe)					
4" pipe	M-7337	3†	32CP	Not Req'd	4	1/0	4" to 24" pipe	M-5809-P.S.	3†	45CI	Not Req'd	4
6" to 8" pipe	M-134	3†	32CP	Not Req'd	4		30" & Larger pipe	M-5809	3†	45CI	Not Req'd	2
10" & Larger pipe	M-132	3†	32CP	Not Req'd	2		Replace P.S. with Pipe Size (Ex. M-5809-4 for 4" Pipe)					
4" pipe	M-7338	3†	45CP	Not Req'd	4	2/0	4" to 24" pipe	M-7355-P.S.	3†	45CI	Not Req'd	4
6" to 8" pipe	M-137	3†	45CP	Not Req'd	4		30" & Larger pipe	M-7355	3†	45CI	Not Req'd	4
10" & Larger pipe	M-135	3†	45CP	Not Req'd	4		Replace P.S. with Pipe Size (Ex. M-7355-4 for 4" Pipe)					

DO NOT use Type CS-49 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.

- 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®.
- 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
- 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

thermOcap

thermOcap

thermOweld's thermOcap is designed to cover your exothermically welded connections.

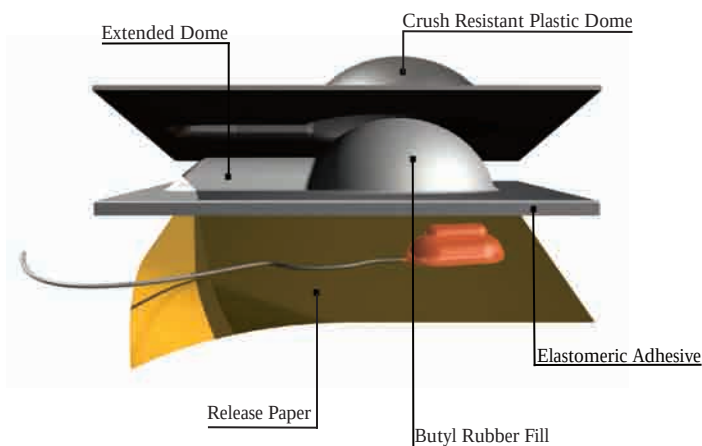
- Elongated wire inlet allows the cap to conform easier to the pipe.
- Outer shell designed to prevent crushing.
- Butyl rubber filled dome.
- Easier field application.
- Packaged in boxes of 20 with immediate delivery available.



thermOcap PC

thermOweld's thermOcap PC is designed to cover your exothermically welded connections. The thermOcap PC is our pre primed cap and requires no spray primer. You simply "Peel and Stick"!

Part Number	Description
38-6687-00	thermOcap
38-6687-02	thermOcap PC



Properties:

Construction - Molded plastic dome filled with corrosion resistant compound on a base of thick elastomeric tape.

Dimensions: Overall: 4"x 4"
Sheet Thickness: 21mils
Plastic Dome: 1-5/8"x 5/8"
Wire Way: 3/8" x 1-3/8"

Application Temperature: 35° F to 170° F

Service Temperature: -20° F to 225° F

Height: 3/4"

Adhesive Thickness: 1/8"

thermOprime

To be used with 38-6687-00 thermOcaps only.

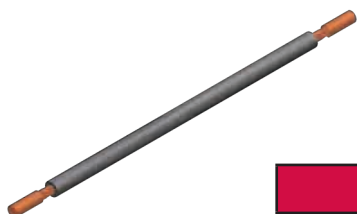
thermOprime liquid adhesive systems consist of butyl based elastomers blended with polymeric resin dissolved on an organic solvent system. They are non-toxic and non-polluting, and conform to local and national standards. In addition to the excellent adhesion to the pipe substrate and cathodic disbondment resistance, the pipe surface is protected against stress corrosion cracking with industry proven SCC inhibitors.



Part Number
38-6769-00

CATHODIC PROTECTION JUMPER BONDS

Factory made Jumper Bonds have copper sleeves formed on each end. These bonds are most commonly used for bonding pipe joints. Formed ends allow the use of smaller weld metal size.



End View of Bond

BOND INFORMATION		
Size	Length	Catalog #
#8 Str	18"	27-6570-18
#6 Str	18"	27-6540-18
#4 Str	18"	27-6523-18
	24"	27-6523-24
	36"	27-6523-36
	48"	27-6523-48
#2 Str	18"	27-6378-18
	24"	27-6378-24
	36"	27-6378-36
	48"	27-6378-48



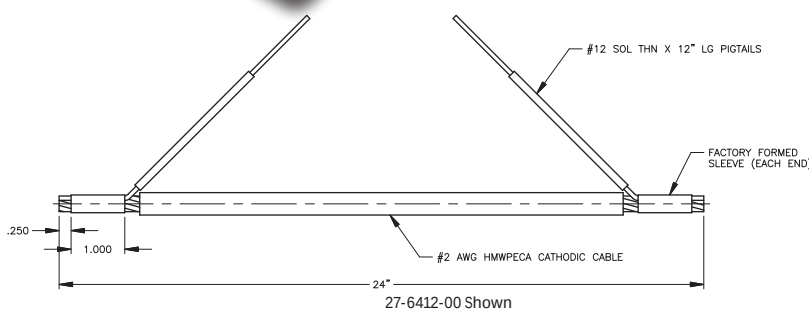
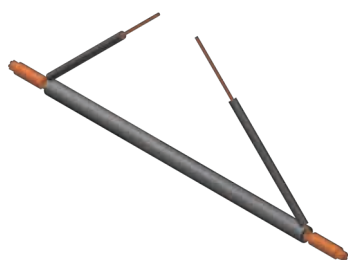
MOLDS FOR AWG CONDUCTORS								
CS-48 MOLD INFORMATION FOR STEEL PIPE				Bond Size	CS-49 MOLD INFORMATION FOR CAST IRON PIPE			
Surface	Mold #	Price Key	Weld Metal		Surface	Mold #	Price Key	Weld Metal
4" pipe	M-7346	3	25CP	#4 Str	4" to 24" pipe	M-154-P.S.	3	32CI
6" to 8" pipe	M-7347	3	25CP		30" & Larger pipe	M-154	3	32CI
10" & Larger pipe	M-7345	3	25CP		Replace P.S. with Pipe Size (Ex. M-156-4 for 4" Pipe)			
4" pipe	M-7336	3	25CP	#2 Str	4" to 24" pipe	M-175-P.S.	3	32CI
6" to 8" pipe	M-131	3	25CP		30" & Larger pipe	M-175	3	32CI
10" & Larger pipe	M-129	3	25CP		Replace P.S. with Pipe Size (Ex. M-156-4 for 4" Pipe)			

• For sizes not listed, contact thermOweld®.

Factory made Jumper Bonds with pigtails are used bonding across Dresser Style Couplings.



BOND INFORMATION			
Bond Size	Pigtail Size	Length	Catalog #
#4 Str	#12 Sol	24"	27-6644-00
#2 Str	#12 Sol	24"	27-6412-00

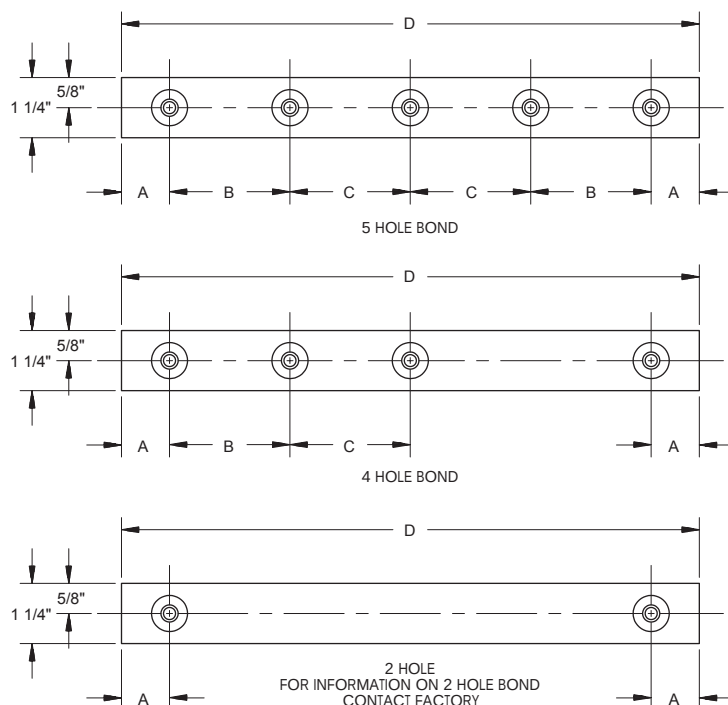
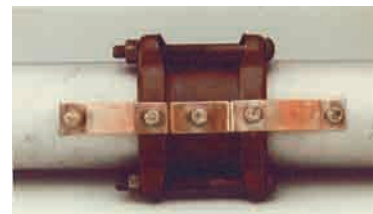


CS-48 MOLD INFORMATION FOR STEEL PIPE				CS-32 MOLD FOR PIGTAIL TO STEEL PIPE			BOND SIZE	CS-49 MOLD INFORMATION FOR CAST IRON PIPE				CS-33 MOLD FOR PIGTAIL TO CAST IRON PIPE		
Surface	Mold #	Price Key	Weld Metal	Mold #	Price Key	Weld Metal		Surface	Mold #	Price Key	Weld Metal	Mold #	Price Key	Weld Metal
4" pipe	M-7336	3	25CP	M-100	3	15CP	#2 Str	4" to 24" pipe	M-175-P.S.	3	32CI	M-156-P.S.	3	25CI
6" to 8" pipe	M-131	3	25CP	M-100	3	15CP		30" & Larger pipe	M-175	3	32CI	M-156	3	25CI
10" & Larger pipe	M-129	3	25CP	M-100	3	15CP		Replace P.S. with Pipe Size (Ex. M-156-4 for 4" Pipe)						

• For sizes not listed, contact thermOweld®.

DO NOT use Type CS-32 or CS-48 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.

STRAP BONDS



The Strap Bond is a method of bonding across joints. It is particularly suited for providing electrical contact across Dresser® Couplers. The strap is made of soft copper strip available in size equivalent to 1/0 str. copper and supplied to desired length. The soft copper allows easy hand forming of the strap to the coupler contour. Normal application requires 5 welds, 2 on the pipe and 3 on the coupler. Welds are made with mold M-128 sold complete with handle, cleaning tool and $\square$ int gun. Requires #15CP cartridge for each weld.

COPPER STRAP BONDS						
Coupling Size	Catalog #	# of Holes	A	B	C	D
5" & Larger Pipe Style 38	27-0180-00	4	1"	3 3/4"	5 1/4"	20"
5" & Larger Pipe Style 38	27-0181-00	4	1"	3 3/4"	6 1/4"	22"
5" & Larger Pipe Style 38	27-0182-00	5	1"	3 3/4"	5 1/4"	20"
5" & Larger Pipe Style 38	27-0183-00	5	1"	3 3/4"	6 1/4"	22"
Under 5" & Light Pattern Style 38	27-0184-00	4	1"	3 1/4"	4 1/4"	17"
Under 5" & Light Pattern Style 38	27-0185-00	4	1"	3 1/4"	5 1/4"	19"
Under 5" & Light Pattern Style 38	27-0186-00	5	1"	3 1/4"	4 1/4"	17"
Under 5" & Light Pattern Style 38	27-0187-00	5	1"	3 1/4"	5 1/4"	19"
For All Style 40 Couplings Use (2) 27-0188-00 Bonds	27-0188-00	3	1"	3 3/4"	—	9 1/2"

- For sizes not listed, contact thermOweld®.
- Current capacity of the copper strap bonds is equivalent to 1/0 Str copper cable.
- Use Mold M-128 to attach bonds with #15 cartridge.

ADAPTER SLEEVES & HAMMER DIES

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.

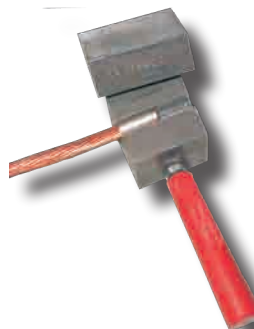


For Use On Cable Size		Catalog #	Use In Mold Size	Sleeve Dimensions		
Stranded	Solid			O.D.	I.D.	Length
#12, #14	#10, #12, #14	38-0200-00	#6 STR & Sol	.156	.111	1.00
#9, #10	#8, #9, #10	38-0208-00	#4 Sol	.203	.140	1.00
#7, #8, #10	#6, #8	38-0201-00	#4	.227	.177	1.00
#6	#5	38-0202-00	#2	.292	.198	1.00
#4, #5	#3, #4	38-0207-00	#2	.287	.246	1.00
#4	#2	38-0204-00	#1	.340	.246	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

HAMMER DIES

Bonds can be made in the field using your own cable, a copper adapter sleeve and a hammer die.

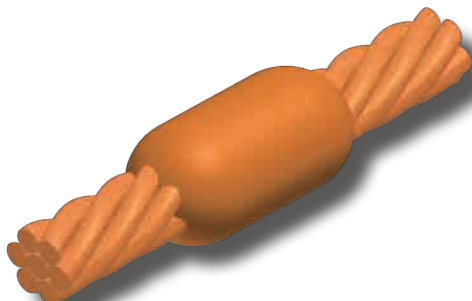
Hammer Die Catalog #	For Use On Cable Size	Adapter Sleeve Catalog #
38-6019-00	#8 Str	38-0201-00
38-4388-00	#6 Str	38-0202-00
38-4859-00	#4 Str	38-0204-00
38-0310-00	#2 Str	38-0203-00
38-0392-00	#1 Str	38-0209-00
38-0311-00	1/0 Str	38-0205-00
38-0312-00	2/0 Str	38-0240-00



CC-1

TYPE MOLDS

Horizontal End to End
For AWG Conductors

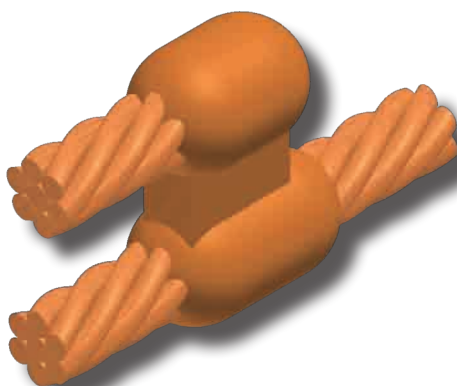


MOLDS FOR AWG CONDUCTORS					
Cable	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#12 Sol	M-8224-S	18	15	40-4565-00	4
#10 Sol	M-8225-S	18	15	40-4565-00	2
#8 Sol	M-8228-S	18	15	40-4565-00	2
#6 Sol	M-8229-S	18	25	40-4565-00	2
#6	M-8229	18	25	40-4565-00	2
#4 Sol	M-8232-S	18	25	40-4565-00	4
#4	M-8232	18	25	40-4565-00	2
#2 Sol	M-8235-S	18	32	40-4565-00	2
#2	M-8235	18	32	40-4565-00	2
#1	M-8239	18	32	40-4565-00	4
1/0	M-8242	19	45	40-4565-00	2
2/0	M-8244	19	65	40-4565-00	4

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	#6	M-8261	18	25	40-4565-00	2
	#6 Sol	M-8264	18	25	40-4565-00	2
	#8	M-8265	18	25	40-4565-00	2
	#8 Sol	M-8266	18	25	40-4565-00	4
#4	#4	M-8267	18	32	40-4565-00	4
	#6	M-8268	18	32	40-4565-00	2
	#6 Sol	M-8269	18	32	40-4565-00	4
	#8	M-8274	18	32	40-4565-00	4
	#8 Sol	M-8275	18	32	40-4565-00	4
#2	#2	M-8276	18	65	40-4565-00	4
	#4	M-8280	18	45	40-4565-00	4
	#6	M-8281	18	32	40-4565-00	4
	#6 Sol	M-8283	18	32	40-4565-00	4
	#8	M-8284	18	32	40-4565-00	4
	#8 Sol	M-8285	18	32	40-4565-00	4
#1	#2	M-8286	19	65	40-4565-00	4
	#4	M-8287	19	45	40-4565-00	4
	#6	M-8288	19	45	40-4565-00	4
	#6 Sol	M-8291	19	45	40-4565-00	4
	#8	M-8292	19	45	40-4565-00	4
	#8 Sol	M-8293	19	45	40-4565-00	4
1/0	#2	M-8295	19	65	40-4565-00	4
	#4	M-8297	19	65	40-4565-00	4
	#6	M-8299	19	45	40-4565-00	4
	#6 Sol	M-8300	19	45	40-4565-00	4
	#8	M-8301	19	45	40-4565-00	4
	#8 Sol	M-8304	19	45	40-4565-00	4
2/0	#2	M-8306	19	2-45	40-4565-00	4
	#4	M-8307	19	65	40-4565-00	4
	#6	M-8310	19	65	40-4565-00	2
	#6 Sol	M-8311	19	65	40-4565-00	4
	#8	M-8313	19	65	40-4565-00	4
	#8 Sol	M-8316	19	65	40-4565-00	4

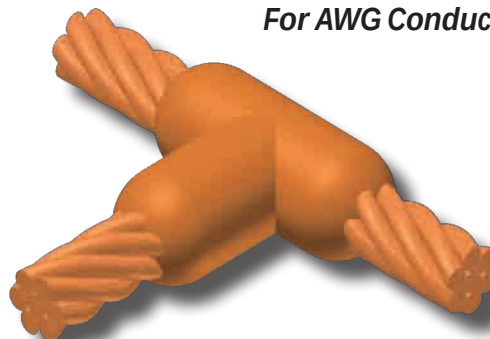
- For sizes not listed, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush
 - 38-0330-00 ~ Cable Clamp

MOLDS FOR AWG CONDUCTORS						
Cable		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
#2	#2	M-8245	20	45	40-4565-00	2
	#4	M-8246	20	45	40-4565-00	4
#1	#1	M-8247	20	45	40-4565-00	4
	#2	M-8248	20	45	40-4565-00	4
	#4	M-8249	20	45	40-4565-00	4
1/0	#1	M-8250	20	45	40-4565-00	4
	#2	M-8251	20	45	40-4565-00	2
	#4	M-8252	20	45	40-4565-00	4
2/0	#1	M-8253	20	45	40-4565-00	4
	#2	M-8256	20	45	40-4565-00	2
	#4	M-8260	20	45	40-4565-00	2

CC-2

TYPE MOLDS

Horizontal Cable Tap to
Horizontal Cable Run
For AWG Conductors



Section 6 - Products for
Cathodic Protection

- 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®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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

MOLDS FOR AWG CONDUCTORS							
Cable Size	Lug Size	Lug Part #	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6 Sol†	1/16" x 1/2"	38-4709-00	M-8391-S	18 †	25	40-4565-00	4
#6	1/16" x 1/2"		M-8391	18 †	25	40-4565-00	4
#4 Sol	1/16" x 1/2"		M-8393-S	18 †	25	40-4565-00	4
#4	1/16" x 1/2"		M-8393	18 †	25	40-4565-00	4
#2 Sol	1/16" x 1/2"		M-8395-S	18 †	32	40-4565-00	4
#2	1/16" x 1/2"		M-8395	18 †	32	40-4565-00	4
#1	1/16" x 1/2"		M-8397	18 †	32	40-4565-00	4
1/0	1/16" x 1/2"	38-4200-00	M-8398	19 †	45	40-4565-00	4
2/0	1/8" x 1"		M-8399	19 †	45	40-4565-00	4

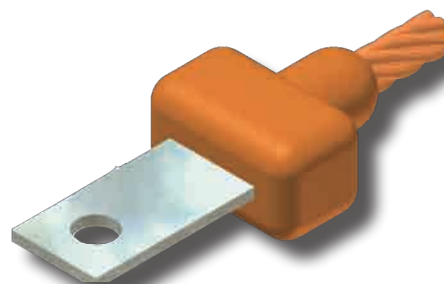
† For Wire Size #14 to #10 Solid, 38-0200-00 Sleeve/Weld Req'd

- 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®.
- Required Tools;
 - † ~ Sold complete with handles. If not required, specify MOLD NUMBER followed by su□x "-G".
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush

CB-1

TYPE MOLDS

Cathodic Protection
Cable to Lug
For AWG Conductors

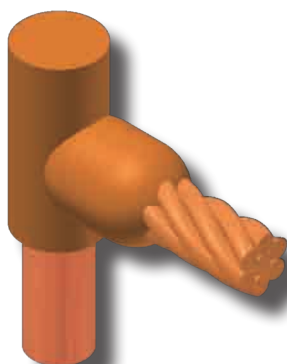


CR-1 / CR-2

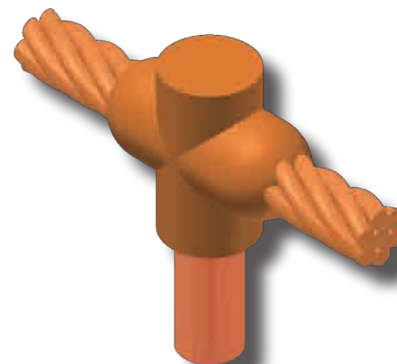
TYPE MOLDS

Horizontal Cable to Ground Rod

For AWG Conductors



CR-1



CR-2

MOLDS FOR AWG CONDUCTORS											
Ground Rod Size	Cable Size	CR-1 Molds					CR-2 Molds				
		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2"	#6 Sol†	M-1960-S	18	25	40-4565-00	4	M-1984-S	18	32	40-4565-00	4
	#6	M-1960	18	25	40-4565-00	4	M-1984	18	32	40-4565-00	4
	#4 Sol	M-1961-S	18	25	40-4565-00	4	M-1985-S	18	32	40-4565-00	4
	#4	M-1961	18	25	40-4565-00	4	M-1985	18	32	40-4565-00	4
	#2 Sol	M-1962-S	18	32	40-4565-00	4	M-1986-S	19	45	40-4565-00	4
	#2	M-1962	18	32	40-4565-00	4	M-1986	19	45	40-4565-00	4
	#1	M-1963	19	45	40-4565-00	4	M-1987	19	65	40-4565-00	4
	1/0	M-1964	19	65	40-4565-00	4	M-1988	19	65	40-4565-00	4
5/8"	2/0	M-1965	19	65	40-4565-00	4	M-1989	19	65	40-4565-00	4
	#6 Sol†	M-1968-S	18	32	40-4565-00	2	M-1992-S	19	45	40-4565-00	2
	#6	M-1968	18	32	40-4565-00	2	M-1992	19	45	40-4565-00	2
	#4 Sol	M-1969-S	18	32	40-4565-00	2	M-1993-S	19	65	40-4565-00	4
	#4	M-1969	18	32	40-4565-00	2	M-1993	19	65	40-4565-00	4
	#2 Sol	M-1970-S	19	45	40-4565-00	4	M-1994-S	19	65	40-4565-00	2
	#2	M-1970	19	45	40-4565-00	2	M-1994	19	65	40-4565-00	2
	#1	M-1971	19	45	40-4565-00	4	M-1995	19	65	40-4565-00	4
3/4"	1/0	M-1972	19	65	40-4565-00	4	M-1996	20	2-45	40-4565-00	2
	2/0	M-1973	19	65	40-4565-00	2	M-1997	20	2-45	40-4565-00	2
	#6 Sol†	M-1976-S	18	32	40-4565-00	2	M-2000-S	19	45	40-4565-00	2
	#6	M-1976	18	32	40-4565-00	4	M-2000	19	45	40-4565-00	2
	#4 Sol	M-1977-S	19	45	40-4565-00	2	M-2001-S	19	65	40-4565-00	4
	#4	M-1977	19	45	40-4565-00	2	M-2001	19	65	40-4565-00	4
	#2 Sol	M-1978-S	19	45	40-4565-00	4	M-2002-S	19	65	40-4565-00	4
	#2	M-1978	19	45	40-4565-00	4	M-2002	19	65	40-4565-00	2
	#1	M-1979	19	45	40-4565-00	4	M-2003	19	65	40-4565-00	4
	1/0	M-1980	19	65	40-4565-00	4	M-2004	20	2-45	40-4565-00	2
	2/0	M-1981	19	65	40-4565-00	2	M-2005	20	2-45	40-4565-00	2

† For wire size #14 to #10 Solid, order (1) 38-0200-00 Sleeve for CR-1 Type Molds or (2) 38-0200-00 Sleeves for CR-2 Type Molds

- 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 su□x "N" to mold number.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add su□x "N" to mold number, i.e. M-1965-N is full 1/2" diameter ground rod or roll-threaded rod to 2/0 Str cable.
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add su□x "N" to mold number, i.e. M-1973-N is full 5/8" diameter ground rod or roll-threaded rod to 2/0 Str cable.
3. .682" actual diameter. For full 3/4" (.750) ground rod and roll-threaded rod, add su□x "N" to mold number, i.e. M-1981-N is full 3/4" diameter ground rod or roll-threaded rod to 2/0 Str. cable.

Section 7

Products for use with Rail Connections

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RAIL PRODUCTS

JOINT BONDS

Signal Joint Bonds provide a low resistance connection between rails, that:

- Will not increase in resistance over time.
- Provides maximum corrosion protection.
- Requires minimum installer training.
- Is completely portable.

JOINT BOND KITS

A kit comes with the following items in an easy to carry box.

- 100 Bonds
- 200 Shots
- 2 replacement Molds (Right & Left)
- 1 flint ignitor

Bond Length	XS Style	Tab Style	
	Cable Size	Cable Size	Cable Size
	3/16"	3/16"	5/16"
6 1/2"	27-7000-00	27-7001-00	—
7"	—	—	27-7002-00
7 1/2"	27-7003-00	27-7004-00	—
9 3/4"	27-7005-00	27-7006-00	27-7007-00



INDIVIDUAL BONDS & ACCESSORIES

Bond Length	XS Style	Tab Style	
	Cable Size	Cable Size	Cable Size
	3/16"	3/16"	5/16"
6 1/2"	27-7008-00	27-7009-00	—
7"	—	—	27-7010-00
7 1/2"	27-7011-00	27-7012-00	—
9 3/4"	27-7013-00	27-7014-00	27-7015-00

Description	Catalog Number
Flint Ignitor	38-0309-00
Cleaner Blade	40-0319-21

- Numbers listed above are for bonds sold separately
- Bonds manufactured from other types of material are available
- Electroplated tinned bonds are also available, change -00 to -01 at end of part number

JOINT BOND WELDERS

The SJB-1 complete welders come with a pair of molds, a cleaner blade, and a Flint ignitor.

SJB-1 COMPLETE WELDER

Description		Catalog Number		
		3/16" Bonds - 3/4" Terminals		5/16" Bonds Tab Style
		XS Style	Tab Style	
Welder Complete	6 1/2" Bond	M-8600-65	M-8601-65	—
	7" Bond	—	—	M-8602-7
	7 1/2" Bond	M-8600-75	M-8601-75	—
	9 3/4" Bond	M-8600-9	M-8609-9	M-8602-9



SJB-1 WELDER REPLACEMENT PARTS



Welder Frame Only



Molds, All Suspension
Parts, and Bonds



Welder Frame Assembly

Description		Catalog Number		
		3/16" Bonds - 3/4" Terminals		5/16" Bonds Tab Style
		XS Style	Tab Style	
WELDER FRAME ONLY	6 1/2" BOND	40-7016-00	40-7016-00	—
	7" BOND	—	—	40-7017-00
	7 1/2" BOND	40-7018-00	40-7018-00	—
	9 3/4" BOND	40-7019-00	40-7019-00	40-7019-00
MOLDS ONLY		M-8600-G	M-8601-G	M-8602-G
MOLDS, ALL SUSPENSION PARTS AND BOND CLIP ASSEMBLED PAIR		M-8600-P	M-8601-P	M-8602-P
BOND CLIPS		40-7020-00	40-7020-00	40-7020-01
WELDER FRAME ASSEMBLY		40-7021-00	40-7021-00	40-7021-00

Extension Bars	
6 1/2" Bond	40-7022-00
7" Bond	40-7022-01
7 1/2" Bond	40-7022-02
9 3/4" Bond	40-7022-03



Extension Bars

JOINT BOND WELDERS

The SJB-2 joint bond welder is to be used when the SJB-1 welder will not fit. Welders are supplied in pairs.

SJB-1 WELDER

Cable Size	Terminal		Catalog Number	
	Length	Style	Welders Complete	Molds Only
3/16"	3/4"	XS	M-8600	M-8600-G
	3/4"	TAB	M-8601	M-8601-G
	1"	TAB	M-8605	M-8605-G
5/16"	1"	TAB	M-8602	M-8602-G

SJB-1 Welders and Molds are sold in pairs only.



SJB-2 WELDER REPLACEMENT PARTS

Cable Size	Terminal Length	Catalog Number	
		Welder Frame Only	Bond Clips
3/16"	3/4"	40-7023-00	40-7020-00
5/16"	1"	40-7024-00	40-7020-01

SJB-2 Welder and Frames are sold in pairs only.



WW-1 WELDER

The WW-1 frame is used to make jumper, switch, bootleg or signal bonds to the web of the rail.

Cable Size	Terminal		Catalog Number	
	Length	Style	Welders Complete	Molds Only
3/16"	3/4"	XS	M-8607	M-8607-G
	3/4"	TAB	M-8608	M-8608-G
	1"	TAB	M-8609	M-8609-G
	1 1/2"	TAB	M-8610	M-8610-G
5-16"	1"	TAB	M-8611	M-8611-G

WW-1 Welder frames and replacement molds are sold in pairs only.



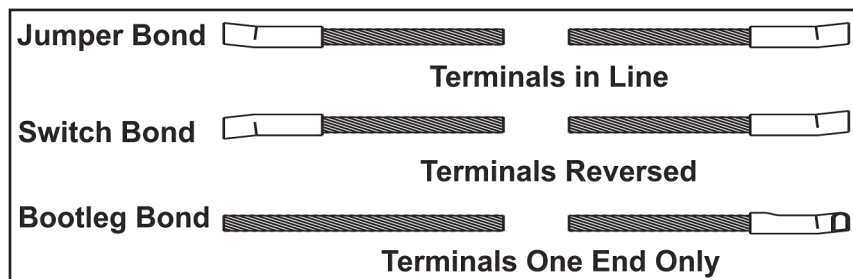
WW-1 WELDER FRAME (PAIR) CATALOG NUMBER 40-7025-00

BONDS FOR SWITCHES BOOTLEGS, FROGS & FOULINGS

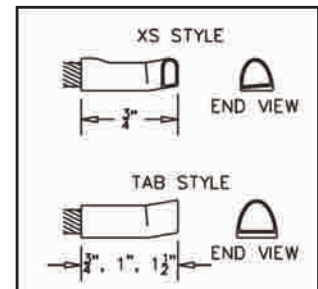
FOR USE WITH WW1 WELDERS

thermOweld® bonds for Switches, Bootlegs, Frogs and Foulings are made from copper alloy stranded signal cable and are available in two terminal styles, XS and TAB. The TAB style can be made in the field using thermOweld® HAMMER DIES and SLEEVES as listed below.

BOND TYPES



TERMINAL STYLES



BOND KIT CATALOG NUMBERS

Bond Type	3/16" Bonds				5/16" Bonds
	Terminal Length and Style				
	3/4" XS	3/4" Tab	1" Tab	1 1/2" Tab	1" Tab
Jumper	27-7026-"L"	27-7027-"L"	27-7028-"L"	27-7029-"L"	27-7030-"L"
Switch	27-7031-"L"	27-7032-"L"	27-7033-"L"	27-7034-"L"	27-7035-"L"
Bootleg	27-7036-"L"	27-7037-"L"	27-7038-"L"	27-7039-"L"	27-7040-"L"

ORDERING INFORMATION

- Bonds are supplied with the necessary weld metal and flint ignitor to make weld.
- Standard order quantity is 100.
- Order bonds by part number and substitute desired length in even inches for the "L".
- Bonds are made with Cadmium Bronze stranded signal cable unless specified otherwise.

RAIL PRODUCTS

HAMMER DIES

Bonds can be made in the field using our supplied copper alloy signal cable, or your own cable, a copper sleeve, and a hammer die. The terminals made by this process will be TAB style. The catalog numbers necessary to do this, are listed below.

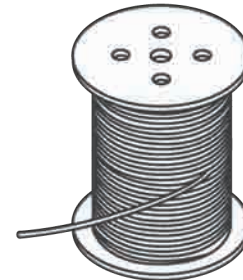
Cable Size	Terminal Length	Catalog Number	
		Hammer Die	Sleeve
3/16"	3/4"	38-7074-00	38-7076-00
	1"	38-7074-00	38-7077-00
	1 1/2"	38-7074-00	38-7078-00
5/16"	1"	38-7075-00	38-7079-00



Section 7 - Products
for Rail Connections

BOND STRAND

Catalog Number	Description
27-7042-04	1" TAB X 4" Track Connector
36-7043-01	3/16 Tinned Cadmium Bronze Wire, Bare, 7 x 19 x .0125 Alloy 162
36-7043-02	3/16 Cadmium Bronze Wire, PVC Insulated, 7 x 19 x .0201 Alloy 162
36-7044-00	5/16 Cadmium Bronze Wire, Bare, 7 x 19 x .0201 Alloy 162
36-7044-01	5/16 Tinned Cadmium bronze Wire, Bare, 7 x 19 x .0201 Alloy 162



CABLE GUARDS

Catalog Number	Color	Box Qty
38-7045-00	Black	5
38-7045-01	Grey	5

TRACK CONNECTORS

GENERAL INFORMATION - The thermOweld® Track Connector is used when the advantages of exothermic welding to the rail are desired and a standard compression connection to standard track wire is utilized. The track connector is 4 inches in length and made from 3/16 inch diameter tinned cadmium bronze strand. The welding terminal is a 1 inch tab style end and the compression connector requires two squeeze from a compression tool. Part number 38-7043-00. The WW-1 welders are used for this application.



Track Connector



TRACK CONNECTOR KITS

INCLUDES :

- 100 Track Connector Bonds
- 2 Replacement Molds (Left and Right)
- 100 Weld Metal Cartridges #25
- 1 Flint Ignitor

Catalog Number	Description
27-7041-04	1" Tab x 4" Track Connector Kit
27-7041-12	1" Tab x 12" Track Connector Kit

INDIVIDUAL TRACK CONNECTOR BONDS AND ACCESSORIES



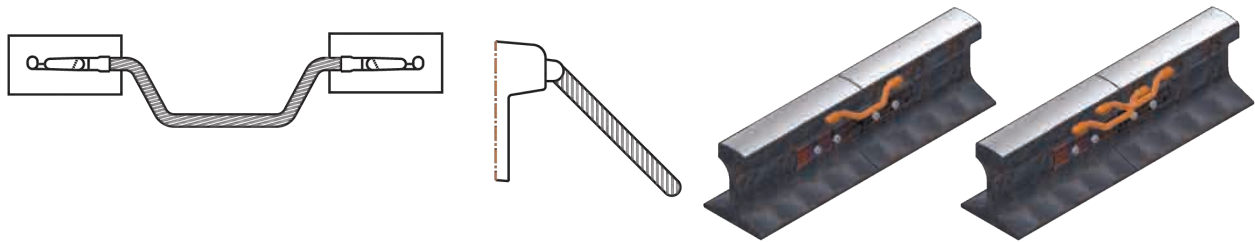
Catalog Number	Description
27-7042-04	1" TAB X 4" Track Connector
27-7042-12	1" TAB x 12" Track Connector
M-8609	Pair of mold and frames for welding track connector to the web of the rail.
M-8609-G	Mold only for welding track connectors to the web of the rail.
38-7043-00	Track connector compression tool. Dies included to compress wires sizes #8 thru 1/0.



POWER BONDS

TYPE "C" BONDS

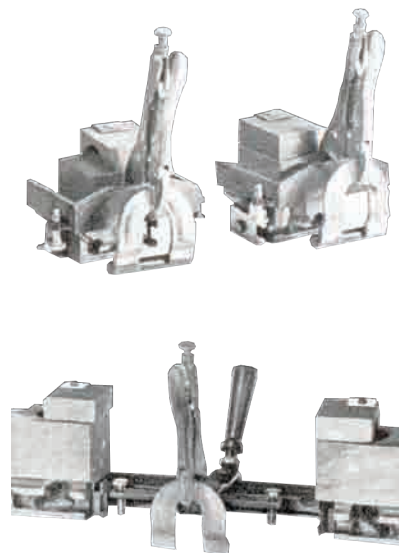
Type "C" Bonds are made from ropelay cable and designed to be welded to the head of 75IL and heavier rail for the purpose of providing propulsion current when so required. If current carrying capacity can not be met with one bond, a double bond may be made using the 13" bonds.



Bond Information			CPBW1 Welder	CPBW2 Welder	Mold Only	Bond Only
Size	Length	Bond Kits				
2/0	9"	27-7046-09	M-8612-9	M-8612	M-8612-G	27-7049-09
	13"	27-7046-13	M-8612-13	M-8612	M-8612-G	27-7049-13
4/0	9"	27-7047-09	M-8613-9	M-8613	M-8613-G	27-7050-09
	13"	27-7047-13	M-8613-13	M-8613	M-8613-G	27-7050-13
250 MCM	13"	27-7048-13	M-8614-13	M-8614	M-8614-G	27-7051-13

ORDERING INFORMATION:

- A bond kit consists of : 80 Bonds, 2 Molds, 160 Shots and a flint ignitor.
- Bond only orders will include the proper weld metal to make the weld.
- Welder orders include frames, molds, and one flint ignitor. CPBW2 welder are sold in pairs.
- A CPBW2 welder can be used when a CPBW1 welder will not fit on rail due to location or wear of the rail.
- When sufficient current carrying capacity cannot be obtained with one bond, two bonds can be used to double the ampacity. You must use 13" bonds to make double bonds.

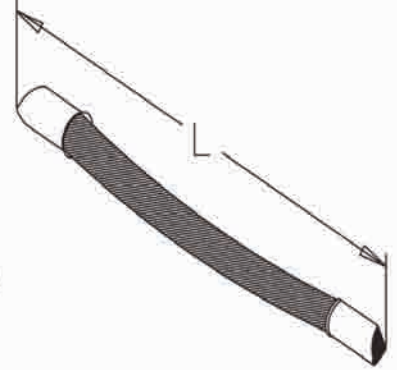
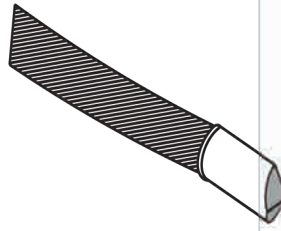
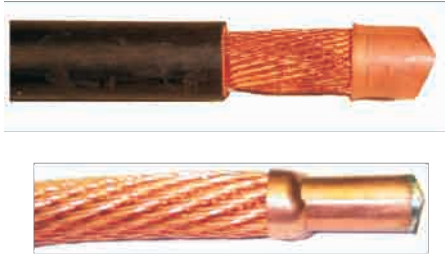


RAIL PRODUCTS

POWER BONDS

TYPE “W” BONDS

Type “W” Bonds are designed to be welded to the web of 85lb and heavier rail for the neutral axis of the rail. “W” bonds can be made to either the field or gauge side of the rail and can use up to 500MCM cable.



Bare Cable AWG/ KCM Type	Joint / Cross Bonds	Stub End Bonds	Welder (Pair)	Weld Metal	Mold Only (Pair)	Welder Frame Only
1/0 Concentric	27-7052-“L”	27-7062-“L”	M-8615	65R	M-8615-G	40-5599-00
1/0 Ropelay	27-7053-“L”	27-7063-“L”	M-8616	65R	M-8616-G	40-5598-00
2/0 Concentric	27-7054-“L”	27-7064-“L”	M-8617	90R	M-8617-G	40-5598-00
2/0 Ropelay	27-7055-“L”	27-7065-“L”	M-8618	90R	M-8618-G	40-5598-00
4/0 Concentric	27-7056-“L”	27-7066-“L”	M-8619	90R	M-8619-G	40-5598-00
4/0 Ropelay	27-7057-“L”	27-7067-“L”	M-8620	90R	M-8620-G	40-5598-00
250 Ropelay	27-7058-“L”	27-7068-“L”	M-8621	115R	M-8621-G	40-5598-00
300 Ropelay	27-7059-“L”	27-7069-“L”	M-8622	150R	M-8622-G	40-5598-00
350 Roelay	27-7060-“L”	27-7070-“L”	M-8623	150R	M-8623-G	40-5598-00
500 Ropelay	27-7061-“L”	27-7071-“L”	M-8624	250R	M-8624-G	40-5598-00

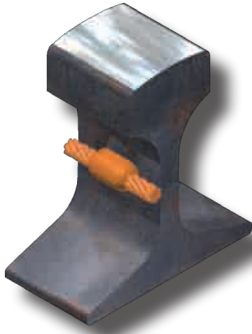
ORDERING INFORMATION:

1. Specify bond length “L” for each type of bond ordered.
2. Specify bond type, joint/cross, or stub end bond. Bonds are furnished with necessary weld metal.
3. Joint bonds have formed sleeves at both ends and their length must be at least 12” longer than rail angle bar.
4. Cross bonds have formed sleeves at both ends and their length must be at least 14” longer than gauge of rails.
5. Stub end bonds have a formed sleeve on one end and unformed sleeve on the other. They must be at least 9” long.
6. A pair of molds is supplied with every 80 bonds purchased.
7. Order proper welder for bond type. Welder includes frame, mold, joint ignitor and mold cleaner. B-106 handle is purchased separately.
8. Welder and “Mold Only” catalog numbers are sold in pairs.
9. All molds require a frame and a B-106 handle clamp.

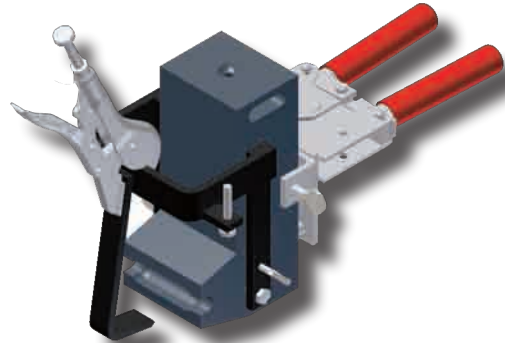
GROUND CONNECTIONS TO WEB OF RAIL



CX-8 Connection
Right Hand Shown



CX-10 Connection
Right Hand Shown



40-5598-00 Rail Frame
With **B-106** Handle

- Welded grounding connections using concentric cable to the web of 85lb to 140lb rail.
- These molds require a 40-5598-00 rail frame, a B-106 handle clamp, and duct seal to seal mold.
- Frame includes adjustment screws to make sure weld is in the middle of the web.

Cable Size	CX-08 Connection†		CX-10 Connection	
	Mold #	Weld Metal	Mold #	Weld Metal
#4 Concentric	M-6384-"X"	65R	M-6387	90R
#2 Concentric	M-5502-"X"	65R	M-6389	90R
#1 Concentric	M-6385-"X"	65R	M-6390	90R
1/0 Concentric	M-6386-"X"	90R	M-6391	115R
2/0 Concentric	M-5398-"X"	90R	M-6392	115R
4/0 Concentric	M-1087-"X"	115R	M-6395	150R

† For the CX-8 connection you must specify left (L) on right (R) in place of the "X"

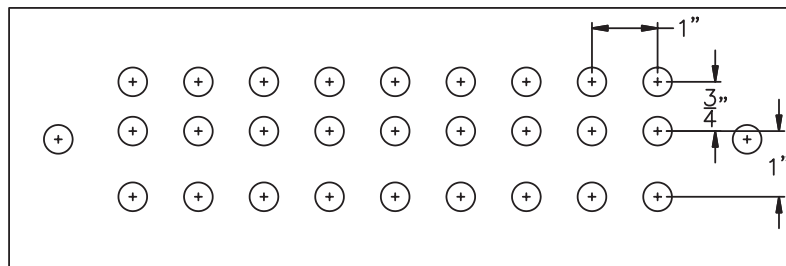
Duct Seal Catalog Number	
1lb	38-4129-00
5lbs	38-4129-05

Section 8

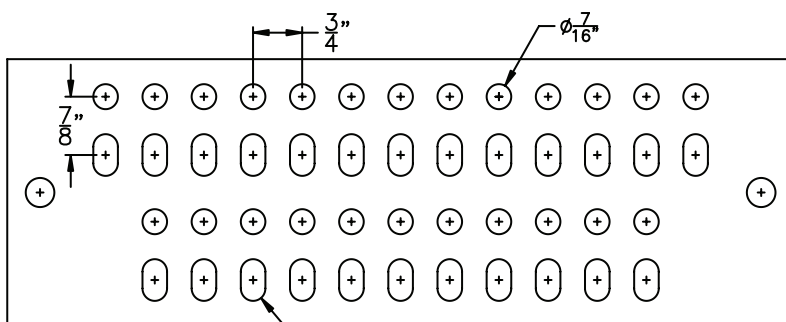
Grounding Products

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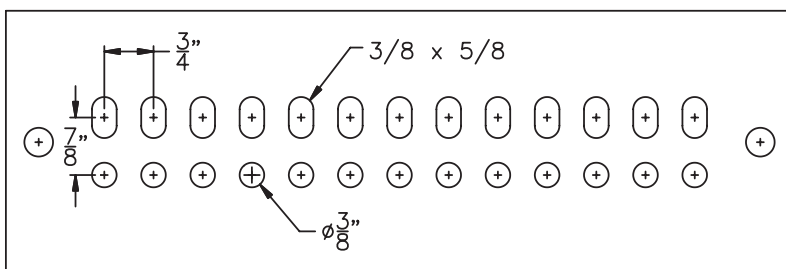
GROUND BAR HOLE PATTERNS



"J"



"M"



"P"

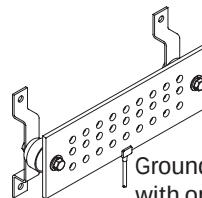
NOTES:

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

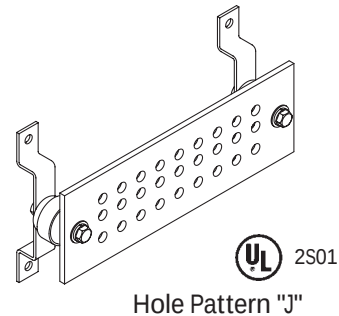
GROUND BARS

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

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



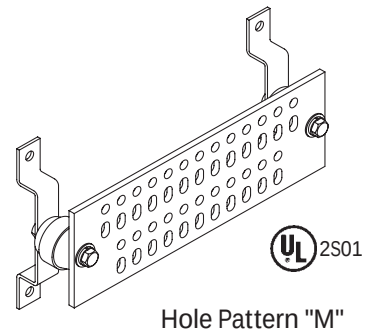
Ground Bar shown with optional pigtail.



Hole Pattern "J"

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

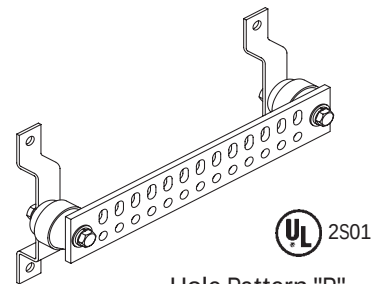
- Mounting holes not included in total.
- Accommodates two hole lugs spaced 3/4" and 1" on center.
- 12" bar pictured. Holes are 7/16" diameter and slots are 7/16" x 11/16".
- Bars available electro-tin plated.
- Tamper proof bolts available.
- Plexiglass cover available.
- Other sizes available. Contact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



Hole Pattern "M"

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

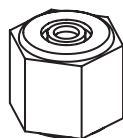
- Mounting holes not included in total.
- Accommodates two hole lugs spaced 3/8" and 1" on center.
- 12" bar pictured. Holes are 7/16" diameter and slots are 7/16" x 11/16".
- Bars available electro-tin plated.
- Tamper proof bolts available.
- Plexiglas cover available.
- Other sizes available. Contact factory for details.



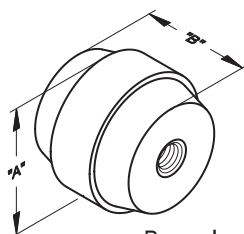
Hole Pattern "P"

GROUNDING PRODUCTS

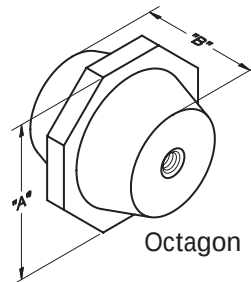
STANDOFF INSULATORS - RED



Hexagon



Round

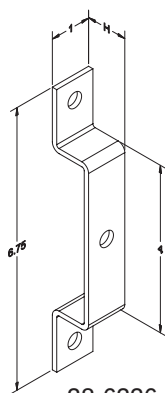


Octagon

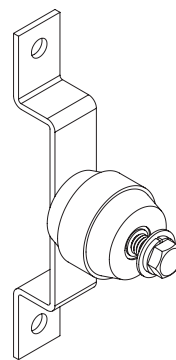
Manufactured from glass reinforced thermoset polyester.

Catalog Number	"A"	"B"	Shape	Thread Size	Voltage Rating
38-6330-00	1"	1"	Hex	1/4" - 20 X 1/4" AL	600
38-6331-00	2"	1 1/2"	Octagon	1/4" - 20 X 1/2" STL	1500
38-6332-00	1 3/4"	1 1/2"	Round	5/16" - 18 X 1/2" STL	1500
38-6333-00	1 3/4"	1 1/2"	Round	3/8" - 16 X 3/8" AL	1500
38-6334-00	2"	2"	Octagon	1/2" - 13 X 5/8" STL	2500
38-6335-00	2 1/2"	2 5/8"	Octagon	5/8" - 11 X 3/4" AL	3400

MOUNTING BRACKETS



38-6336-00



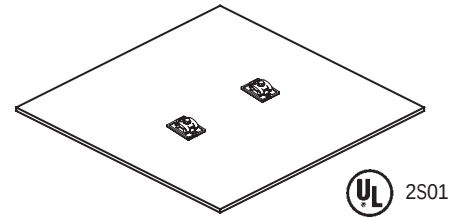
Catalog Number	Mounting Hole Size	"H"	Kit	Heavy Duty
38-6336-00	7/16"	1"	No	No
38-6337-00	7/16"	1"	Yes	No

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

COPPER GROUND PLATES

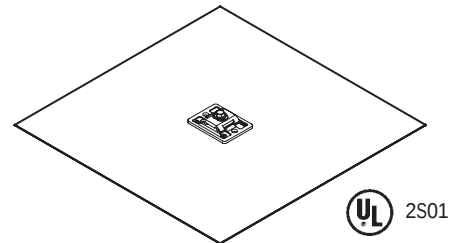
Catalog Number	Ground Plate Size	Thickness (Inches)
38-6338-00	18" X 18"	.032
38-6339-00	24" X 24"	.032

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



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

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



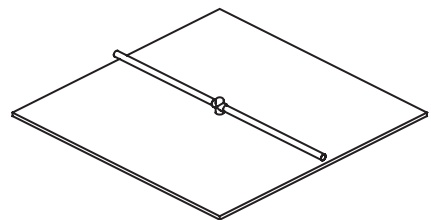
Catalog Number	Ground Plate Size	Thickness (Inches)
38-6340-"X"0	18" X 18"	.032
38-6341-"X"0	24" X 24"	.032

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

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

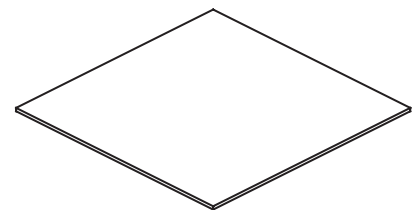
1 = #4 STR	4 = 1/0 STR	7 = 250 MCM
2 = #2 SOL	5 = 2/0 STR	8 = 350 MCM
3 = #2 STR	6 = 4/0 STR	9 = 500 MCM

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



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

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



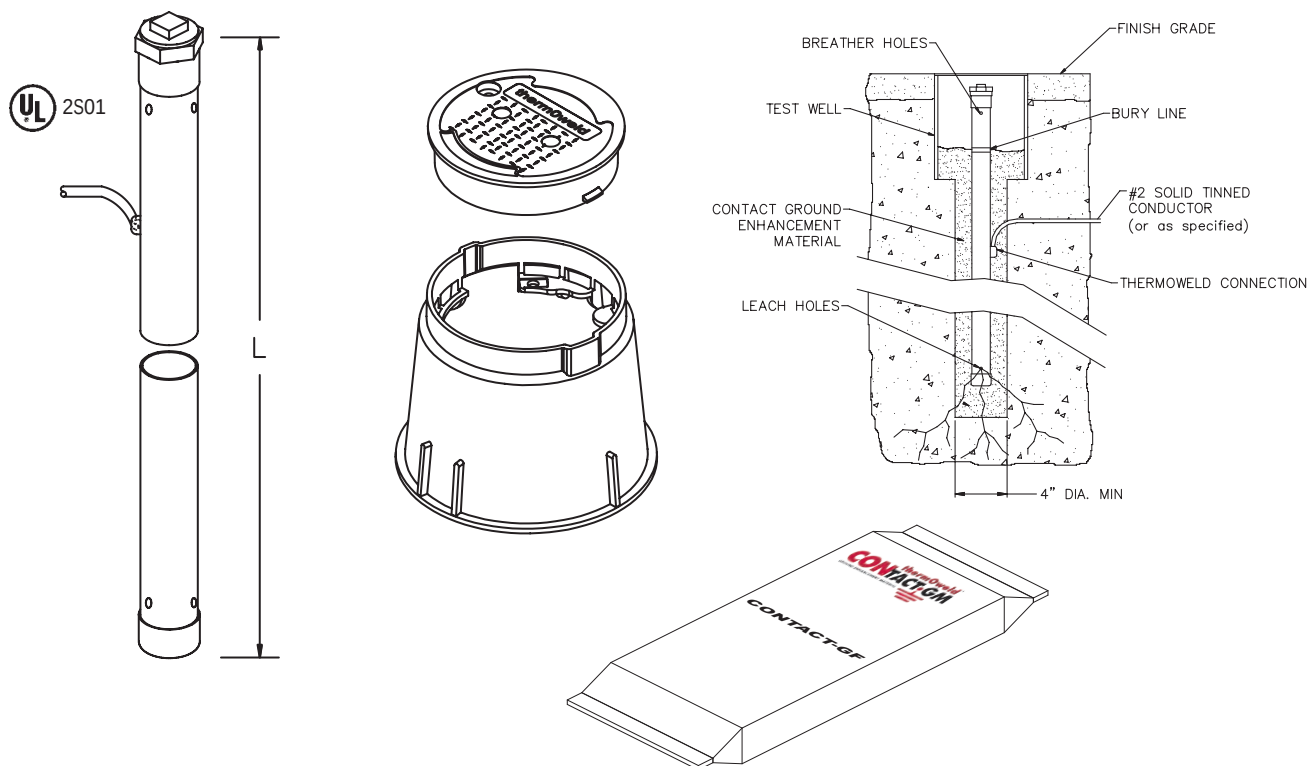
**Other sizes and thicknesses are available.
Please contact factory for details.**

APPLICATION NOTES:

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

GROUNDING PRODUCTS

CHEMICAL GROUND ROD KITS VERTICAL



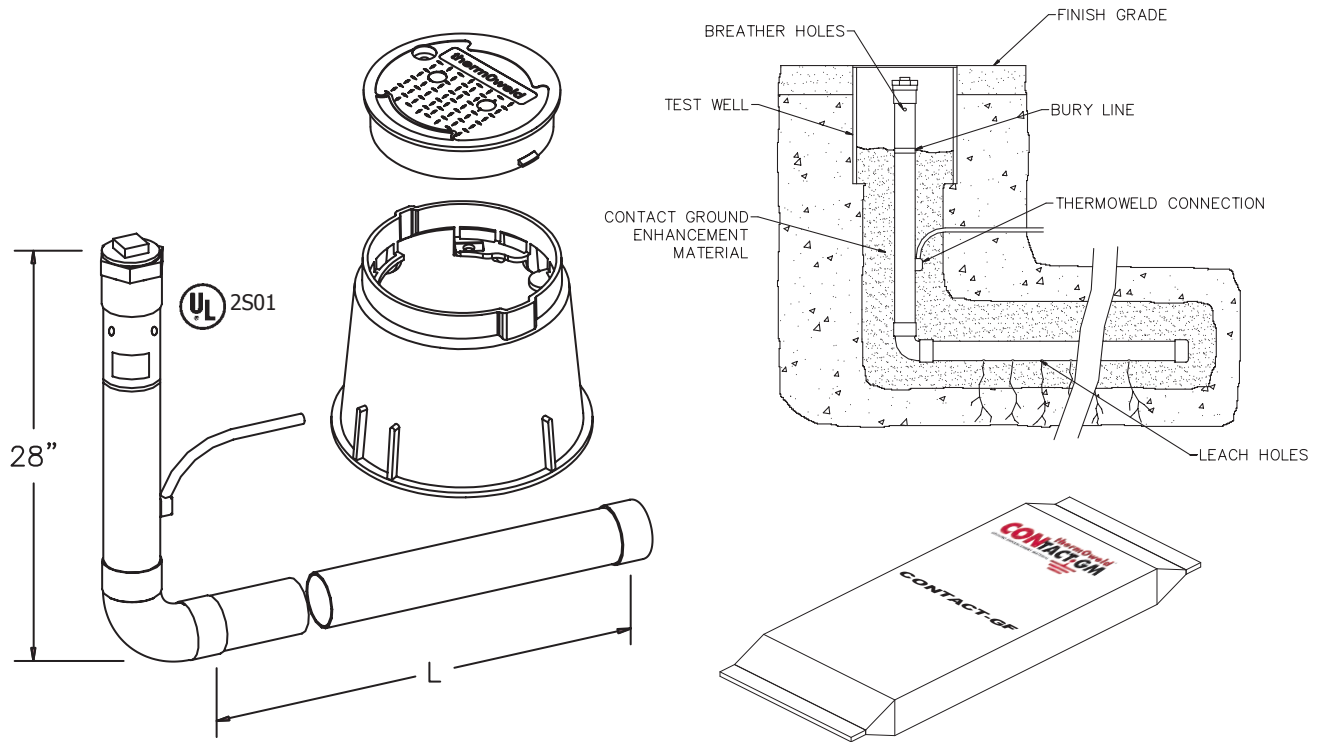
Catalog Number	Length	Inspection Well	Contact GF 25# Bag	Pigtail
38-6050-31	5'	Yes	2	5' - 4/0 STR
38-6050-32	10'	Yes	4	5' - #2 SOL (Tinned)
38-6050-33	10'	Yes	4	5' - 2/0 STR
38-6050-34	10'	Yes	4	5' - 4/0 STR
38-6050-35	20'	Yes	8	5' - #2 SOL (Tinned)
38-6050-36	20'	Yes	8	5' - 2/0 STR
38-6050-37	20'	Yes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

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

APPLICATION NOTES:

- 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 467 listed.

CHEMICAL GROUND ROD KITS HORIZONTAL L-SHAPED



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

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

APPLICATION NOTES:

- 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".
- UL 467 listed.

CONTACT-GM



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.

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-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-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



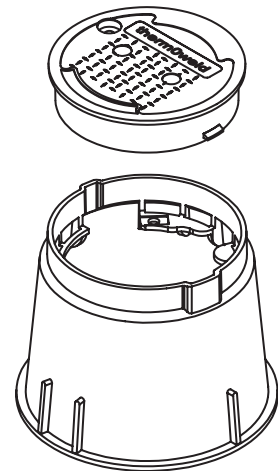
Type	Part #
CONTACT - GF 25lb	38-6501-25
CONTACT - GF 50lb	38-6501-50
CONTACT - GS 25lb	38-6502-25
CONTACT - GS 50lb	38-6502-50

New Contact GP, featuring pelletized low-dust material for specialized applications, is in final development at the printing of this catalog. Contact thermOweld® for more information.

GROUND ACCESS WELLS

Light Duty Ground Access Well

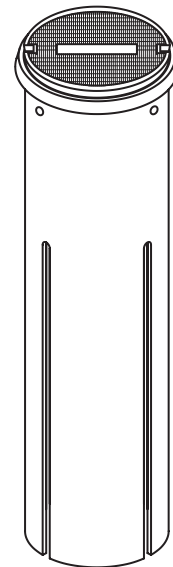
Catalog Number	Diameter	Length	Cover Type
38-6627-00	10"	10"	HDPE



Heavy Duty Well with Cast Iron Cover

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

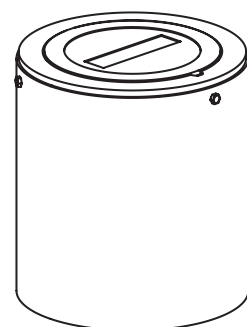
- 10" diameter Schedule 80 PVC well.
- Available in 36" and 42" lengths.
- Four 27" slots allow for ground electrode connections to be made before installation of test well.
- Cast iron cover fits into cast iron ring for extra support.
- For use in traffic areas.



Heavy Duty Well with Cast Iron Cover

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

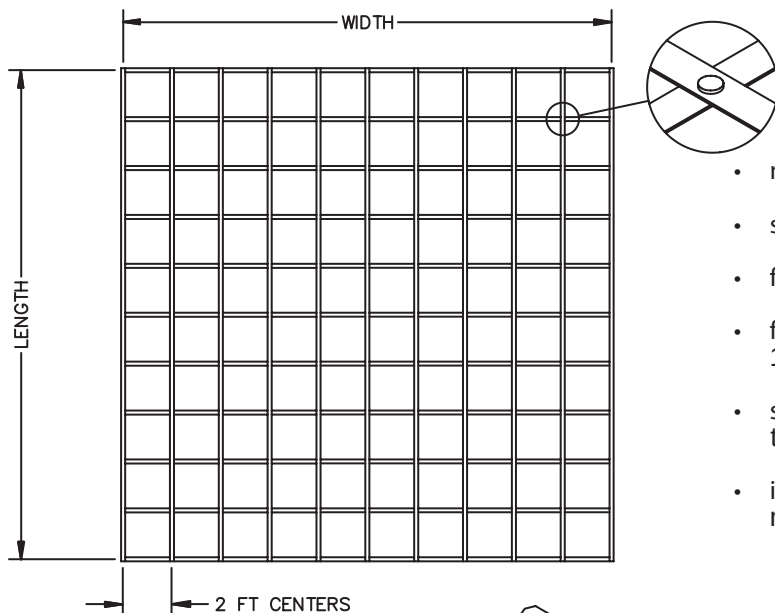
- 12" diameter Schedule 80 PVC well.
- Available in 12" and 30" lengths.
- Cast iron cover fits into cast iron ring for extra support.
- For use in traffic areas.



APPLICATION NOTES:

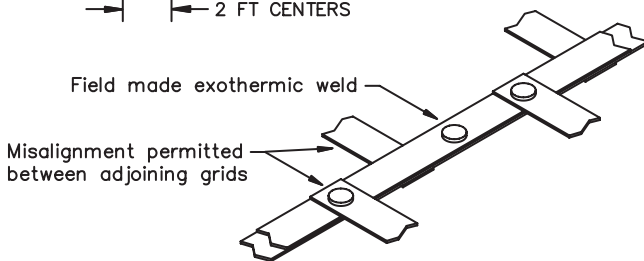
- Provides ready access to ground electrode for testing and inspection purposes.
- To prevent displacement by frost, the access well must be longer than the frost line is deep.

SIGNAL REFERENCE GRID (SRG)

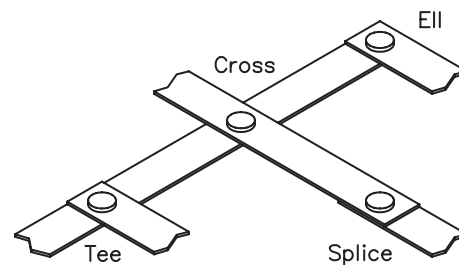


Signal Reference Grid Is:

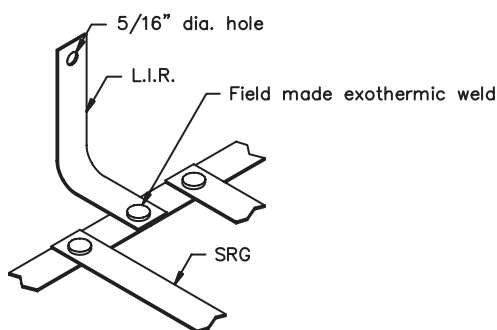
- manufactured from 2" x 26 Gage copper strips
- spaced on 2 ft centers
- factory welded at each crossover
- furnished in sections with widths from 4 ft to 18 ft (length limited by weight, approx. 200 lbs)
- shipped on tubes and protected for transporting
- interconnected in the field using thermOweld®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



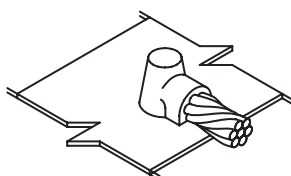
Adjoining sections of SRG are to be exothermically welded by installer using thermOweld® molds and powder



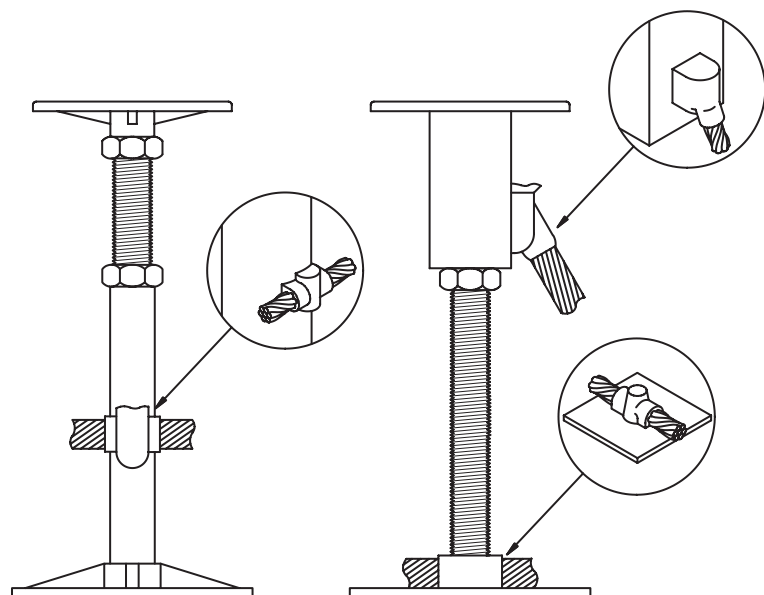
The same thermOweld® mold used to connect adjoining SRG's may be used to make splices, tees, ells or crosses



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

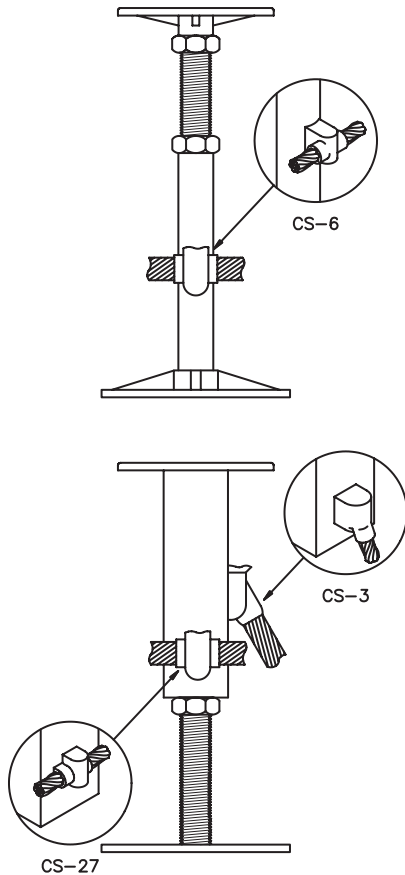


Bonding conductor exothermically welded to SRG



Bonding conductor exothermically welded to round and square floor pedestals

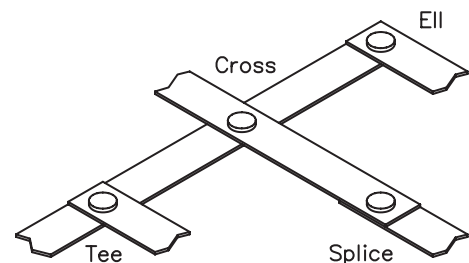
CABLE TO FLOOR PEDESTALS



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	2
#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	2
#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	2
#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	2
#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	4
#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

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



The molds listed can make any of the above connections

GROUNDING PRODUCTS

CABLE TO (SRG) CONNECTIONS



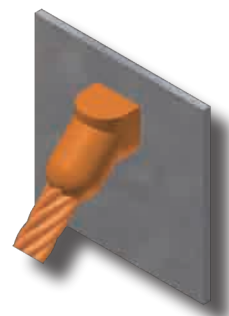
MOLDS FOR AWG CONDUCTORS						
Cable Size	Weld Type	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6	CB-34	M-2763	4	#25	B-106	2
#6	CB-34	LE-2763	4	LE#25	B-106	2
#4	CB-34	M-6253	4	#32	B-106	2
#4	CB-34	LE-6253	4	LE#32	B-106	2
#2	CB-34	M-6254	4	#32	B-106	2
#2	CB-34	LE-6254	4	LE#32	B-106	2
1/0	CB-34	M-5454	4	65	B-106	2
1/0	CB-34	LE-5454	4	LE65	B-106	2
2/0	CB-34	M-8583	4	#65	B-106	2
2/0	CB-34	LE-8583	4	LE#65	B-106	2

CABLE TO VERTICAL STEEL CONNECTIONS

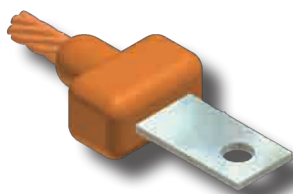
Section 8
Grounding Products

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	2
#4	CS-3	M-586	4	#45	B-106	2
#4	CS-3	LE-586	4	LE#45	B-106	2
#2	CS-3	M-588	4	#45	B-106	2
#2	CS-3	LE-588	4	LE#45	B-106	2

† Requires 38-0202-00 copper adapter sleeve



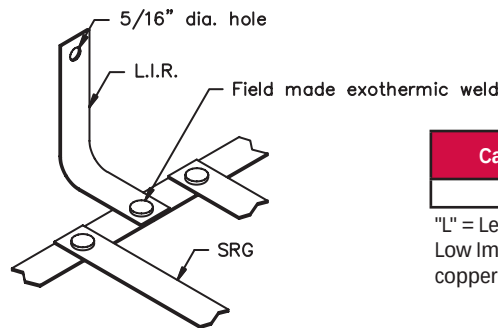
CABLE TO LUG CONNECTION



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	B-106	4
#4	CB-1	LE-6257	19	LE#25	B-106	4
#2	CB-1	M-6258	18	#32	B-106	4
#2	CB-1	LE-6258	19	LE#3	B-106	2

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

LOW IMPEDENCE RISERS (L.I.R.)

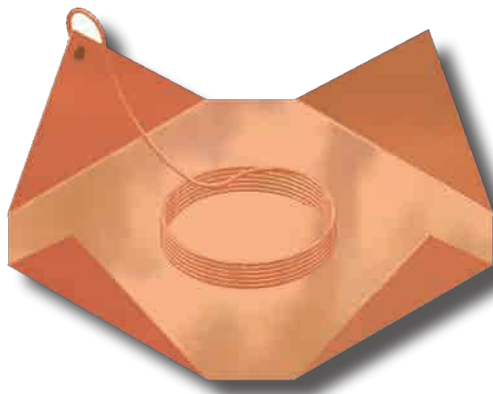


Catalog Number	Description
38-5101-"L"	Low Impedance Riser

"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.

ACCESSORIES

Catalog Number	Description
38-4709-00	1/16" X 1/2" Lug with 1/4" Dia. Hole
38-0202-00	Copper Sleeve
40-4565-00	Economold Handle Clamp
38-5238-00	SRG Support Clip
38-4395-00	Battery Pack



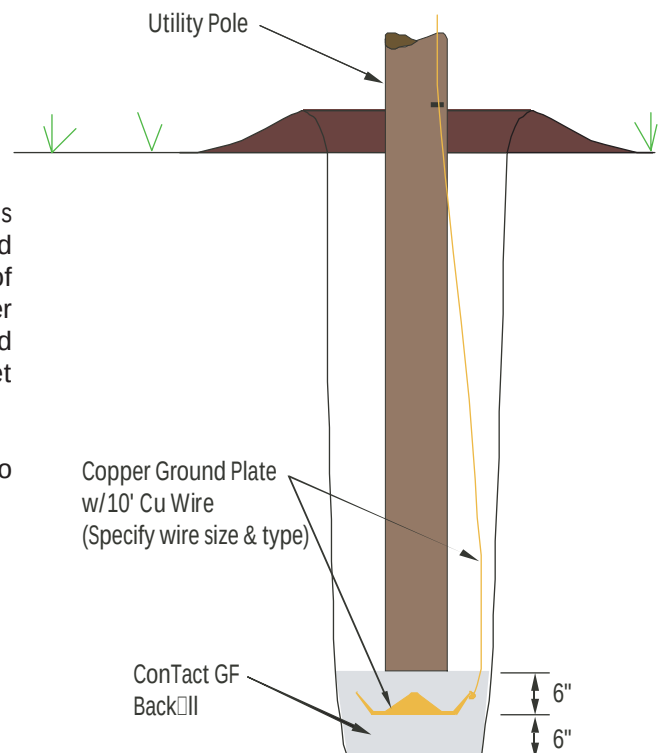
With "One Step Pole Plates," grounding pole equipment is possible without the problems of having to drive a ground rod. Just place the plate in the hole with six inches of Contact GF backfill material below and above the copper plate. Then connect the wire to the pole above the ground line. This easy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

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.

POLE PLATES



GROUNDING PRODUCTS

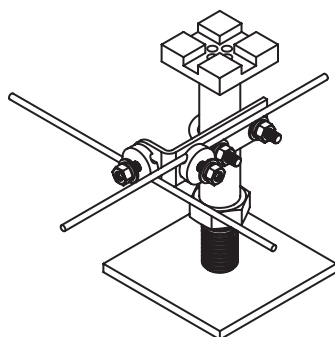
ROUND - WIRE SIGNAL REFERENCE GRID

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

* 1999 IEEE, Std. 1100

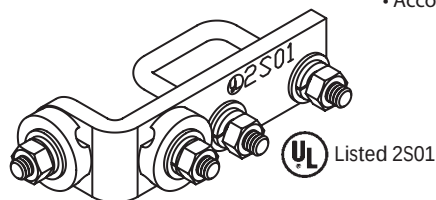
GROUND PEDESTAL CLAMPS

Section 8 Grounding Products

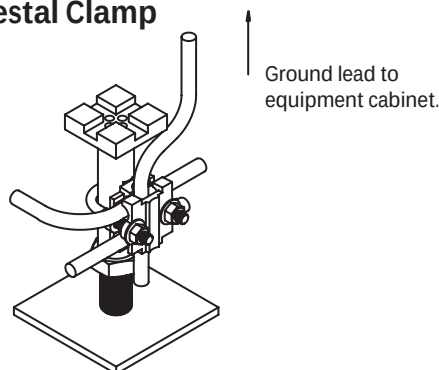
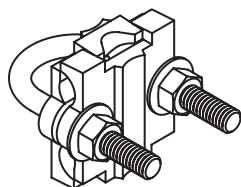


Catalog Number	U-Bolt Type	Pedestal Size	Conductor Size	Box Qty
38-6345-00	Square	1"	#6 STR	10
38-6346-00	Round	1"	#6 STR	10
38-6345-01	Square	1"	#4 STR	10
38-6346-01	Round	1"	#4 STR	10
38-6345-02	Square	1"	#2 STR	10
38-6346-02	Round	1"	#2 STR	10

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



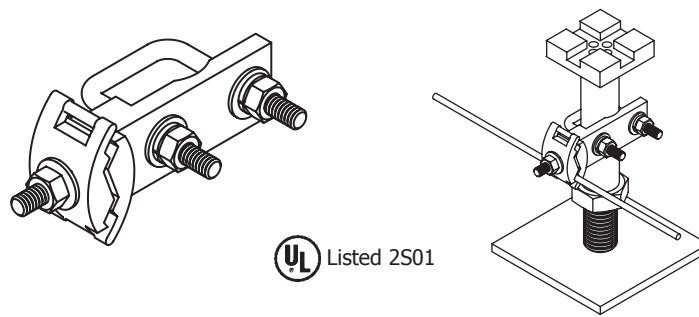
38-6347-00 Ground Pedestal Clamp



UL Listed 50H2

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

GROUND PEDESTAL CLAMPS

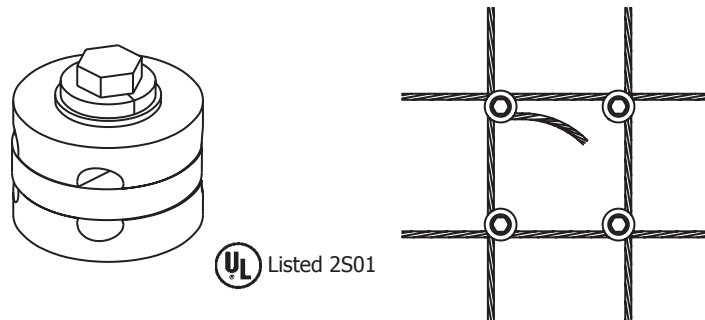


Catalog Number	Tin Plated	Box Qty
38-6376-00	No	10
38-6376-01	Yes	10

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

COMPUTER ROOM GROUND CLAMPS

Section 8
Grounding Products



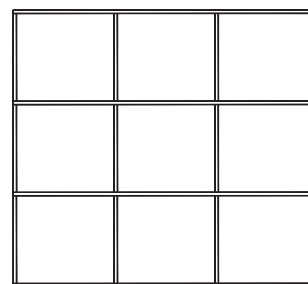
Catalog Number	Conductor Size	Box Qty
38-6348-00	#6 STR	25
38-6348-01	#4 STR	10
38-6348-02	#2 STR	10

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

GROUNDING PRODUCTS

UL LISTED PREFABRICATED COPPER GROUND MESH

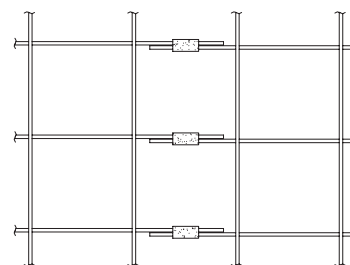
thermOweld® Prefabricated Wire Mesh can be supplied with no overhang, overlapping ends and butt splice ends.  Listed 2S01



No Overhang

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

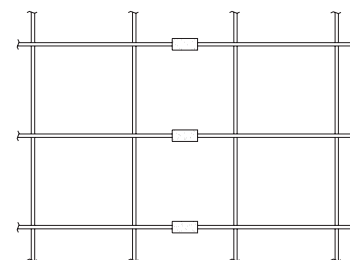
 Listed 2S01



"Overlapping" ends

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

 Listed 2S01

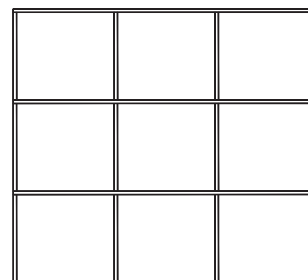


"Butt Splice" ends

AC MITIGATION MATS

AC Mitigation Mats are used near pipelines when the structure is above the grade to limit step and touch potentials. AC Mitigation mats are hot dip zinc galvanized and come in the standard size of 4ft x 8ft with 3" x 3" squares.

Catalog Number	Size
38-6855-00	4' x 8'



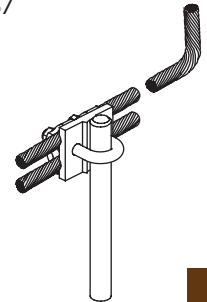
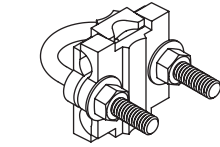
GROUNDING PRODUCTS

PIPE CLAMPS

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

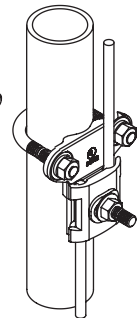
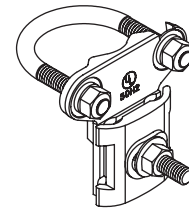
Pipe Range .5/.75

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



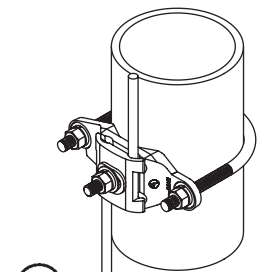
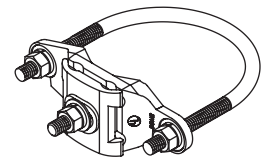
Pipe Range 1/1.25

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



Pipe Range 1.5/2 - 6

Catalog Number	Material	Nominal Pipe Size Range	Pipe Outside Diameter	Box Qty.
38-6351-00	Tinned Bronze	1.5" to 2"	1" to 2.4"	5
38-6351-01	Aluminum	1.5" to 2"	1" to 2.4"	5
38-6351-02	Tinned Bronze	2.5" to 3"	2.25" to 3.5"	5
38-6351-03	Aluminum	2.5" to 3"	2.25" to 3.5"	5
38-6351-04	Tinned Bronze	3.5" to 4"	3.2" to 4.5"	5
38-6351-05	Aluminum	3.5" to 4"	3.2" to 4.5"	5
38-6351-06	Tinned Bronze	5" to 6"	5.63" to 6.63"	5
38-6353-07	Aluminum	5" to 6"	5.63" to 6.63"	5



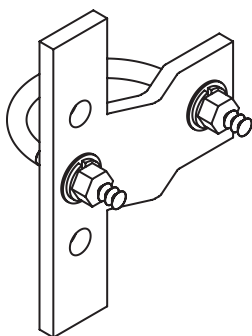
GROUNDING PRODUCTS

UNIVERSAL PIPE CLAMPS

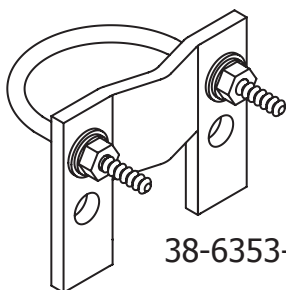
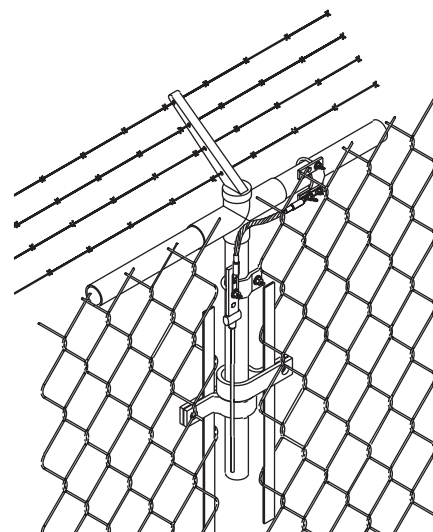
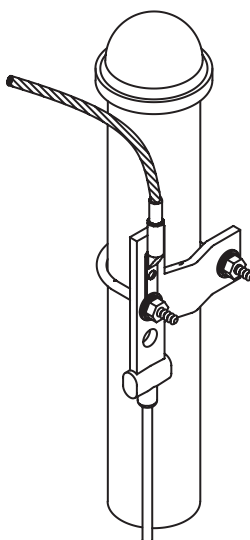
Catalog Number	Nominal Pipe Size	Box Qty
38-6352-00	.75" to 1.25"	10
38-6353-00	1.5" to 2"	10
38-6353-01	2.5" to 3"	5
38-6353-02	3.5" to 4"	5
38-6353-03	5" to 6"	10
38-6353-04	8"	5
38-6353-05	10"	5
38-6353-06	12"	5

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

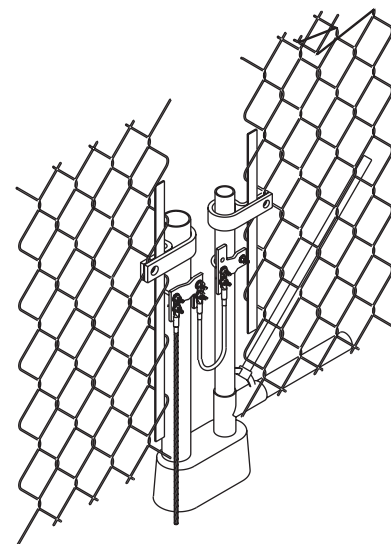
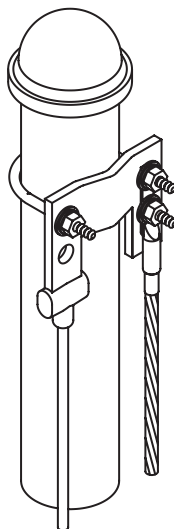
Section 8 Grounding Products



38-6352-00



38-6353-XX



FENCE CLAMP ASSEMBLIES

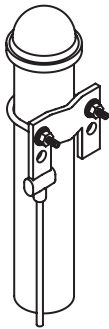


Figure 1
EXAMPLE
0000-38-6007-1D
3" Post
Left Ground Conductor is
#2 AWG Tinned Solid x 24" long
Right Ground Conductor is
No Right Ground Conductor



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

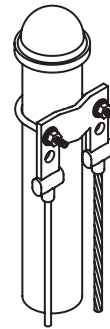


Figure 3
EXAMPLE
0000-38-6013-1D
1.5" Post
Left Ground Conductor is
#2 AWG Tinned Solid x 24" long
Right Ground Conductor is
#2 AWG Tinned Solid x 24" long

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

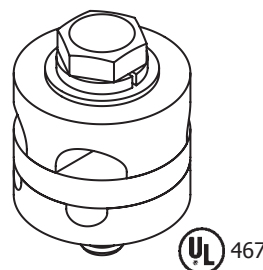
A = 6" G = 10"
B = 12" H = 96"
C = 18" J = 60"
D = 24" K = 72"
E = 36" L = 144"
F = 48" M = 30"

GROUNDING PRODUCTS

FENCE FABRIC GROUND CLAMPS

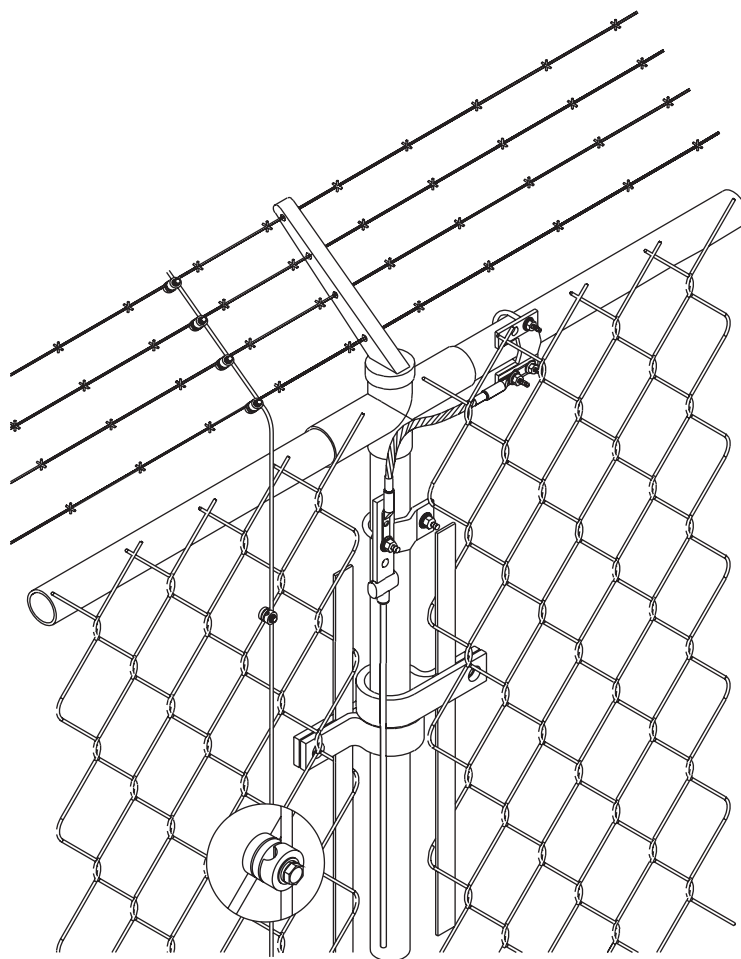
Catalog Number	Conductor Size	Box Qty
38-6354-00	#2	25
38-6354-01	#2 - 4/0	10

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



Fence Ground System

Fence grounding systems are designed to provide protection against dangerous “touch” potentials. The Fence Fabric Ground Clamp is an integral component of this personnel safety system.

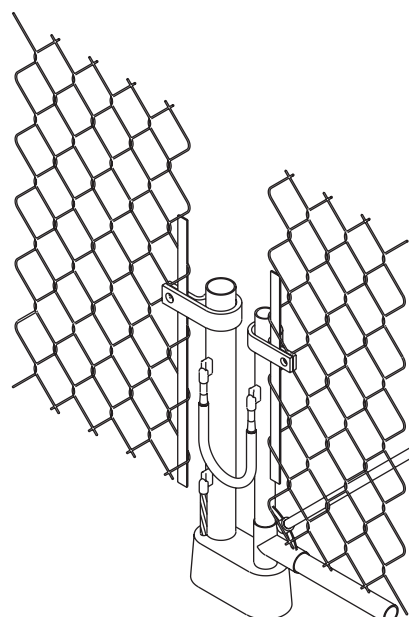
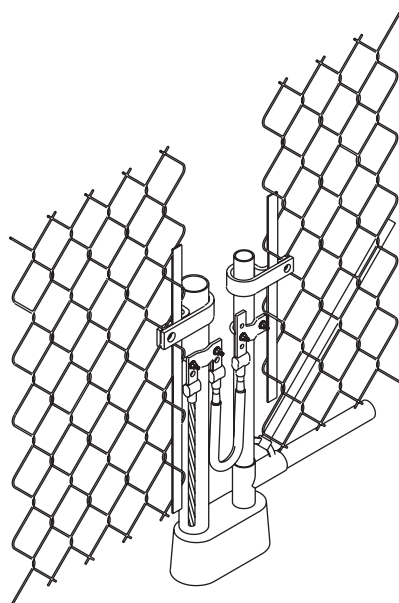
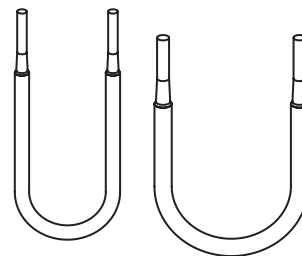


GROUNDING PRODUCTS

FLEXIBLE GATE JUMPERS

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

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



CB-1 Weld Type

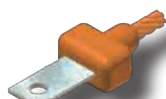
Cable Size	Lug Size	Mold #	Weld Metal	Price Key
#2 Sol	1/4" X 1"	M-6667-S	#65	4
2/0	1/4" X 1"	M-981	#65	4
4/0	1/4" X 1"	M-985	#90	4

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

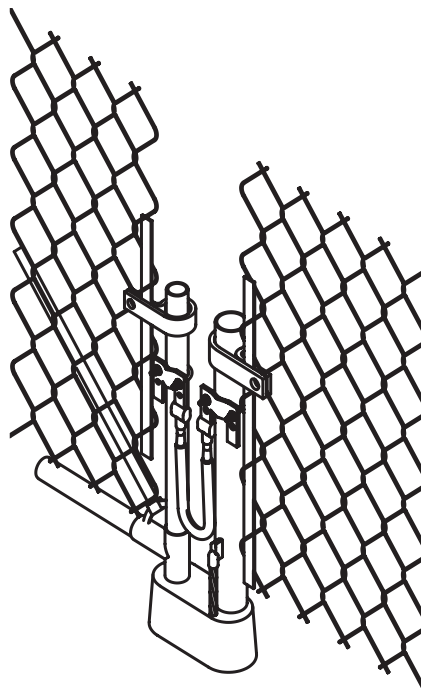
CS-23 Weld Type (Pipe Range)

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

GROUNDING PRODUCTS

FENCE GATE ASSEMBLIES (EXOTHERMICALLY WELDED)

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



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

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

Chart A (†)

Flexible Jumper Length Codes

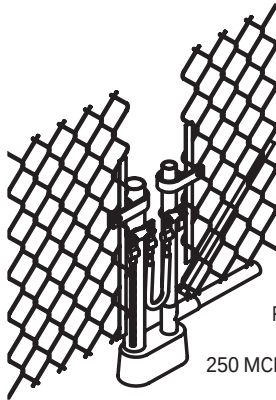
B = 12"
C = 18"
D = 24"
E = 36"
F = 48"

Chart B (‡)

Flexible Jumper Size Codes

2 = #2 AWG Welding Cable
1 = 2/0 AWG Welding Cable
0 = 4/0 AWG Welding Cable

FENCE GATE ASSEMBLIES (EXOTHERMICALLY WELDED)



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

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

Catalog Number	Flexible Jumper	Description	Left/Right Hand
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-†‡	2/0 W/C	Fits 3 1/2" to 4" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
38-7360-†‡			Right Hand
38-6361-†‡		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-†‡	#2 W/C	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-†‡		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-†‡	#2 W/C	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 (‡)

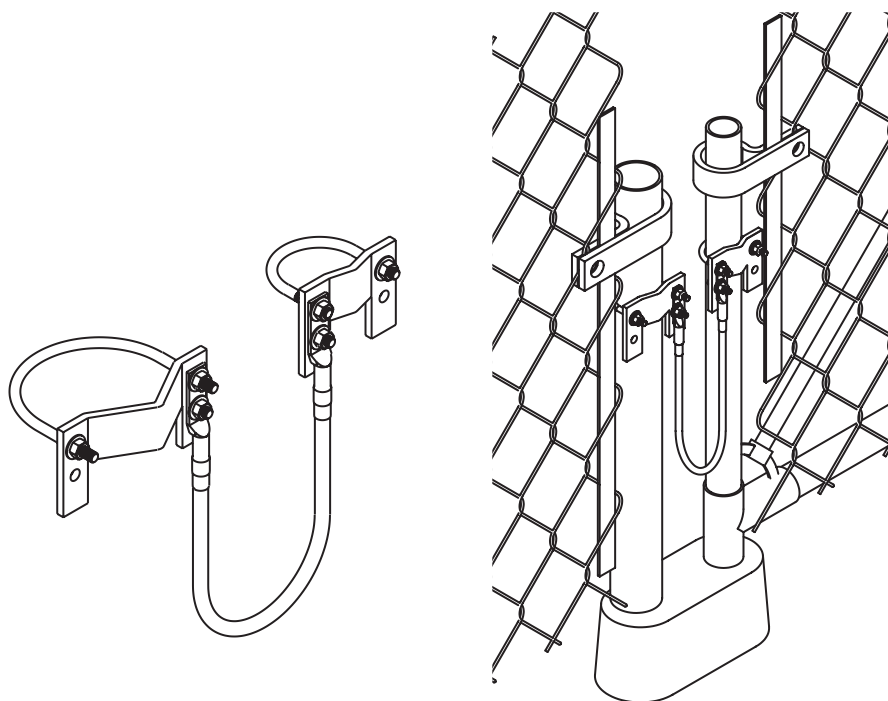
Ground Conductor Length Codes

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

GROUNDING PRODUCTS

FENCE GATE ASSEMBLIES (COMPRESSION LUGS)



Section 8 Grounding Products

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

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

Section 9

Weld Metal, Tools & Accessories

Description	Page #
9.1 Weld Metal.....	168
9.2 Tools & Accessories.....	169-170
9.3 Adapter Sleeves & Shim Stock.....	171
9.4 Wear Plates	171
9.5 Handle Clamps & Chain Clamps	172-174

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 chemical 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
- 3) copper-to-rail



Standard Cartridge Size	Cast Iron Cartridge Size	Cathodic Protection Cartridge Size	Rail Cartridge Size	Packed Per Box
#15	#15CI	#15CP	#15R	20
#25	#25CI	#25CP	#25R	20
#32	#32CI	#32CP	#32R	10
#45	#45CI	#45CP	#45R	20
#65	#65CI	#65CP	#65R	20
#90	#90CI	~	#90R	10
#115	#115CI	~	#115R	10
#150	~	~	#150R	10
#200	~	~	#200R	10
#250	~	~	#250R	10
#500	~	~	#500R	10

thermOweld® Weld Metal is sold in box quantities only

ACCESSORIES



TOOLS

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



TOOL KIT

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



38-0309-00 FLINT IGNITOR

The 38-0309-00 Flint Ignitor is used to ignite the starting powder. Each mold that is sold with a frame has a Flint Ignitor included.

Replacement flints are available upon request.
Part #38-0309-01.



38-0904-00 Flint IGNITOR EXTENSION

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



38-0101-00 RASP

This tempered steel, curved Rasp is recommended for removing rust and mill scale from steel and cast iron surfaces. The blade is replaceable.

Specify part # 38-0101-01.

Not recommended for use on galvanized surfaces.

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

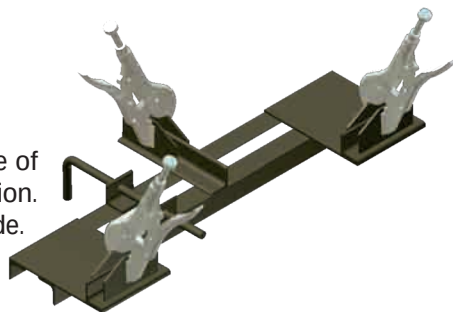
Part #38-412-05 for 5 lb package

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.



38-0135-00



38-0306-00



38-3922-00

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



MOLD CLEANERS

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

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

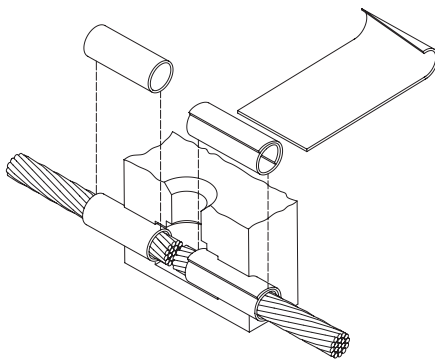
40-0319-03.....for cartridge sizes #90 thru #500

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	.340	.246	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

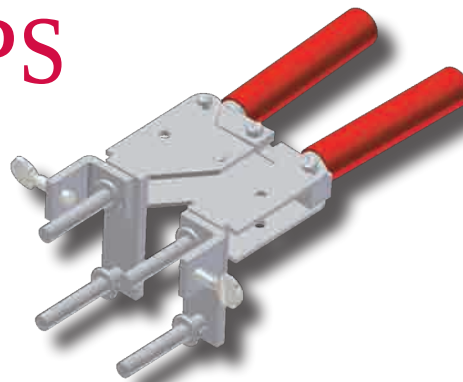
The average life of a mold is 50 plus welds depending on the care and treatment it receives. The maximum wear on a mold takes place at the mold openings due to forcing the mold shut over "out-of-round" conductors, hitting and then chipping openings with ends of conductors, etc. To increase the mold life, "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 plate only available on 1/0 Str or 7/#10 and larger cable.

HANDLE CLAMPS



B-106 & B-107 HANDLE CLAMPS

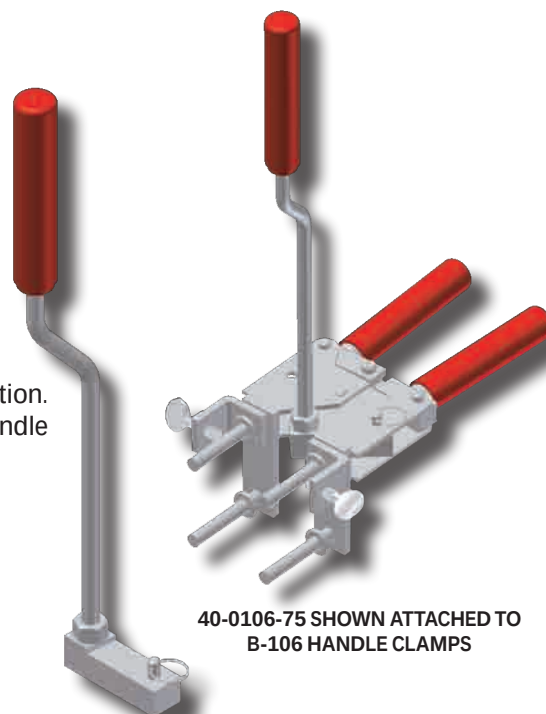
For most connections involving lugs, cable or rectangular bus, thermOweld® Handle Clamps are used. thermOweld® Handle Clamps make possible the use of many different sizes and types of molds with only two different clamps. The two handle clamps are catalog numbers B-106 and B-107. These will fit 95% of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

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

PK-14 HANDLE ATTACHMENT

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

Part # 40-0106-75



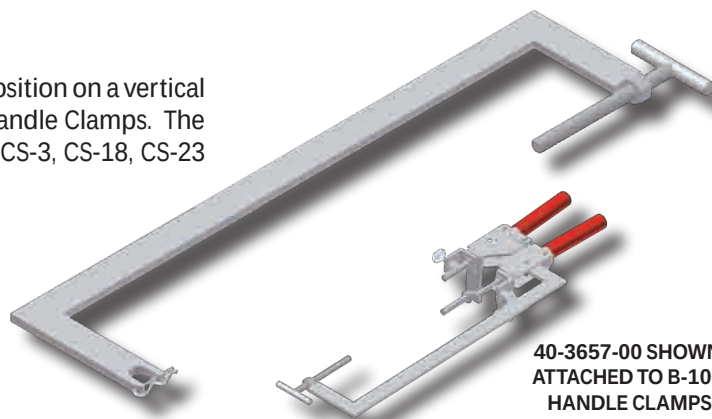
40-0106-75 SHOWN ATTACHED TO
B-106 HANDLE CLAMPS

40-0106-75

MOLD SUPPORT CLAMP

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

Part # 40-3657-00

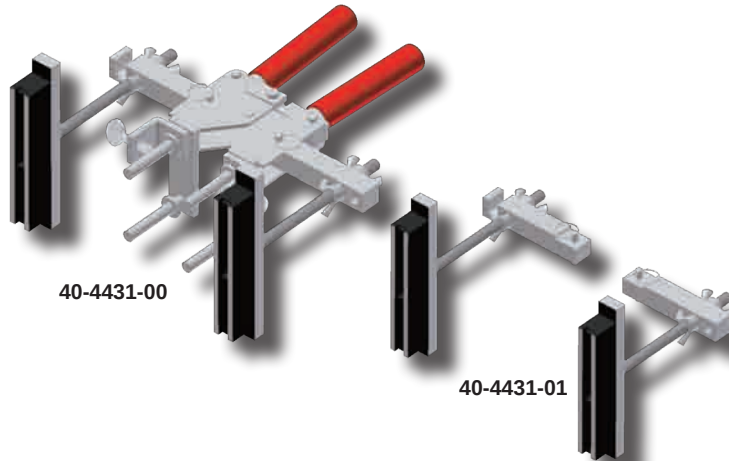


40-3657-00 SHOWN
ATTACHED TO B-106
HANDLE CLAMPS

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.

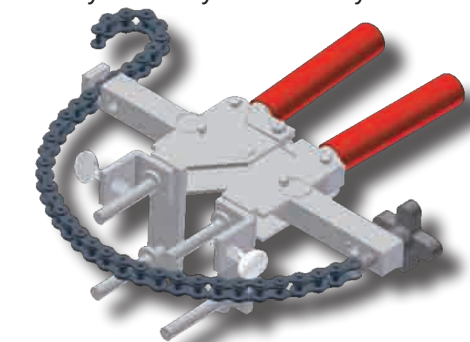


Vertical Magnetic Handle Clamps		
Catalog #	Fits Molds w/ Price Key	For Use With Weld Types
40-4431-00	4 & 17	CS-3, 4, 7 & 23
Magnetic Clamp Only		
Catalog #	Fits Handle Clamp	For Use With Weld Types
40-4431-01	B-106	CS-3, 4, 7 & 23

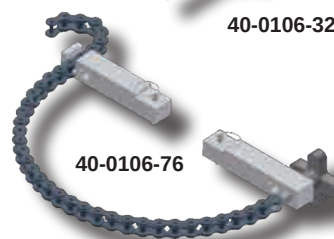
HORIZONTAL & VERTICAL CHAIN CLAMPS

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

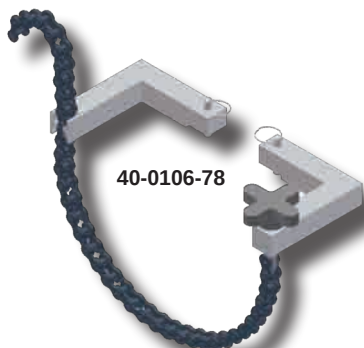
Chain Clamps			
Catalog #	Fits Molds w/ Price Key	For Use With Weld Types	Pipe Position
40-0106-32	4, 17, 22 & 24	CS-3, 4, 7, 23 & CRE-6	Vertical
40-0107-32	5, 6 & 23	CS-3, 4, 7 & 23	Vertical
40-0106-37	4, 17, 22 & 24	CS-1, 2, 5, 8 & 9	Horizontal
40-0107-37	5, 6 & 23	CS-1, 2, 5, 8 & 9	Horizontal
40-0106-41	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



40-0106-32 / 40-0107-32



40-0106-76



40-0106-78



40-0106-41 / 40-0107-41

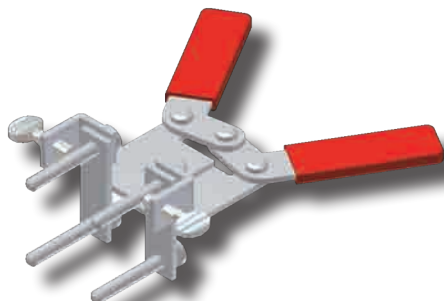


40-0106-77

MINI HANDLE CLAMPS

MINI HANDLE CLAMPS

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



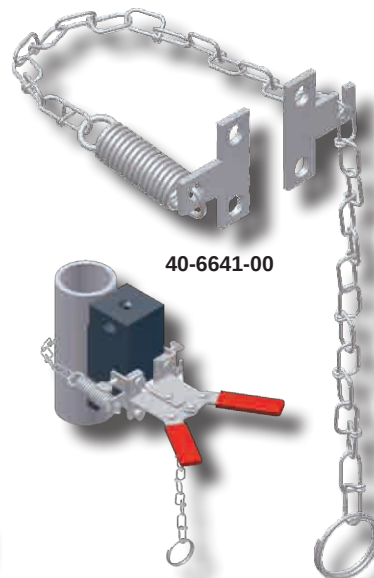
40-4565-00

Mini Handle Clamps	
Catalog #	Fits Molds w/ Price Key
40-4565-00	18, 19, 30

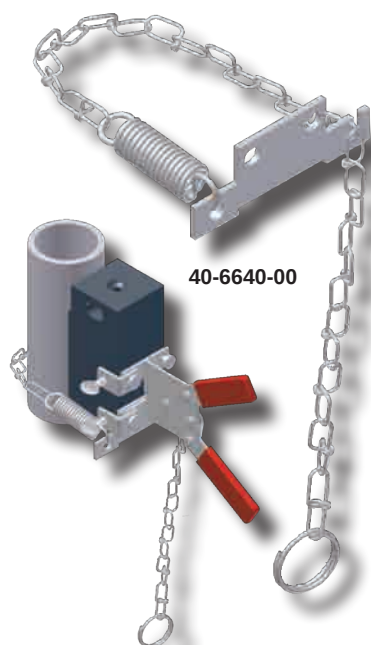
HORIZONTAL & VERTICAL CHAIN CLAMPS

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



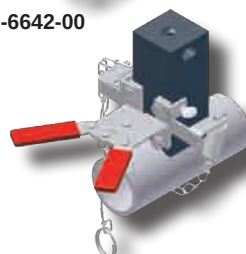
40-6641-00



40-6640-00



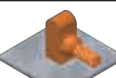
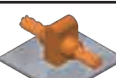
40-6642-00

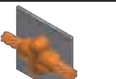
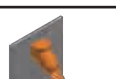


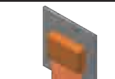
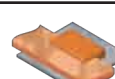
Section 10

Molds for use with Metric Conductors

Description	Page #
10.1 Cable to Cable Connections.....	177-181
10.2 Cable to Ground Rod Connections.....	182-184
10.3 Ground Rod to Ground Rod Connections.....	184
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WELD TYPE		PG #
	CC-1	177
	CC-14	177
	CC-2	178
	CC-4	179
	CC-6	180
	CC-11	180
	CC-7	181
	CR-1	182
	CR-2	183
	CR-3	184
	RR-1	184
	Single Shots	185
	CS-1	186
	CS-8	186
	CS-2	187
	CS-9	187

WELD TYPE		PG #
	CS-3	188
	CS-25	188
	CS-7	189
	CS-27	189
	CS-32	190
	CS-33	190
	CS-34	191
	CS-35	191
	CS-36	192
	CS-28	192
	CB-1	193
	CB-33	193
	CB-4	196
	CB-5	197
	BB-1	198
	BB-7	198
	BB-3	199

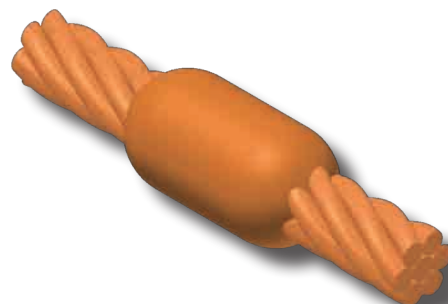
WELD TYPE		PG #
	BB-14	199
	BB-2	200
	BB-41	200
	BS-1	201
	BS-2	201
	BS-3	202
	RS-1	202
	RS-2	202
	BR-1	203
	BR-3	203
	BR-2	204
	BR-7	204
	CRE-1	205
	CRE-4	205
	CRE-6	206
	BRE-8	206

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-1

TYPE MOLDS

Horizontal End to End
For Metric Conductors

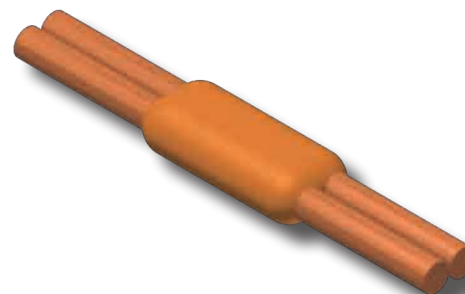


MOLDS FOR METRIC CONDUCTORS						
Cable (mm ²)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
10	10	M-10698	4	45	B-106	4
16	16	M-10699	4	65	B-106	4
25	25	M-10700	4	45	B-106	4
30	30	M-10701	4	45	B-106	4
35	35	M-10702	4	65	B-106	4
	25	M-10703	4	65	B-106	4
8 mm Ø	8 mm Ø	M-10704	4	90	B-106	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	4
	25	M-10709	4	90	B-106	4
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

CC-14

TYPE MOLDS

Horizontal Parallel through Cables
For Metric Conductors

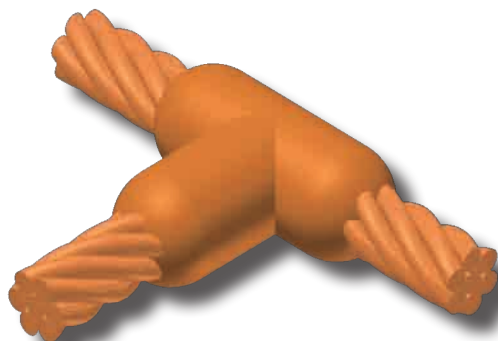


- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended 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



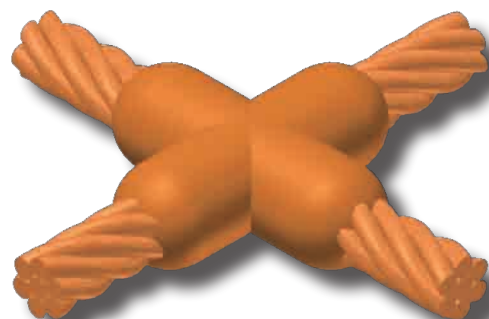
MOLDS FOR METRIC CONDUCTORS						
Cable (mm2)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
10	10	M-10780	4	32	B-106	4
16	16	M-10781	4	32	B-106	2
25	25	M-3021	4	45	B-106	2
5.6 mm Ø	5.6 mm Ø	M-2914	4	45	B-106	4
30	30	M-2915	4	45	B-106	4
35	35	M-3022	4	45	B-106	2
	25	M-3023	4	45	B-106	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
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
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
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
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

- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- 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



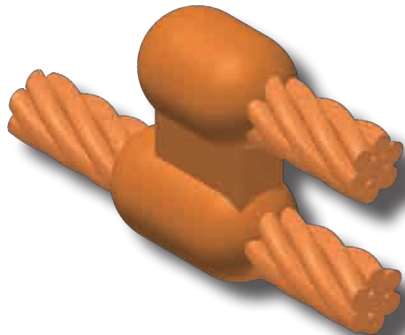
MOLDS FOR METRIC CONDUCTORS						
Cable (mm ²)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
10	10	M-10856	4	32	B-106	4
16	16	M-10782	4	45	B-106	4
25	25	M-3147	4	45	B-106	2
30	30	M-2926	4	45	B-106	4
35	35	M-3148	4	65	B-106	2
	25	M-3149	4	65	B-106	2
8 mm Ø	8 mm Ø	M-2950	4	90	B-106	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	4
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 expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- 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



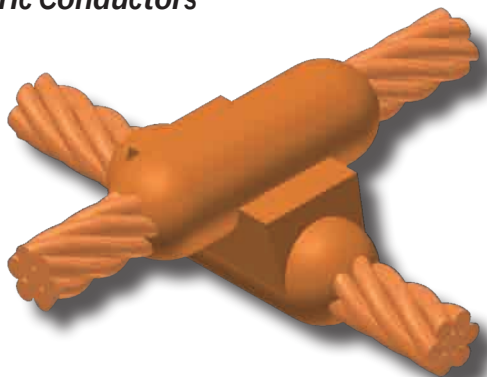
MOLDS FOR METRIC CONDUCTORS

Cable (mm2)		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	4
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	4
	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

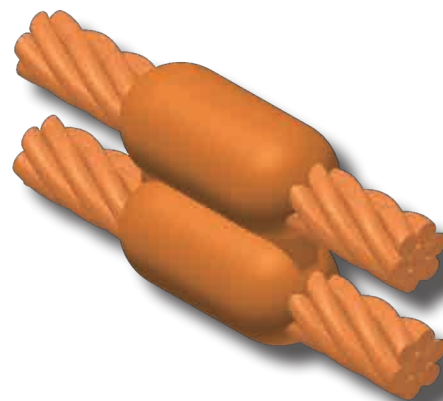
Cable (mm2)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
25	25	M-8762	4	65	B-106	4
35	35	M-4980	4	90	B-106	2
50	50	M-4981	22	150	B-106	2
70	70	M-4060	22	200	B-106	2
95	95	M-3732	22	250	B-106	4
120	120	M-4289	22	2-150	B-106	2
150	150	M-4749	23	2-200	B-107	2
185	185	M-4145	23	500	B-107	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 or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- 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



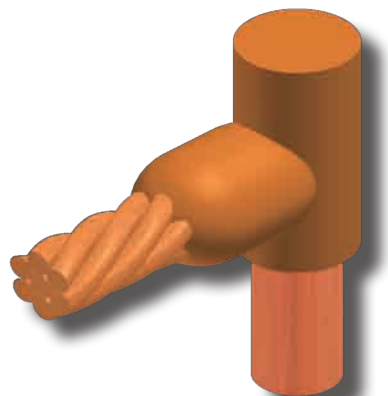
MOLDS FOR METRIC CONDUCTORS						
Cable (mm2)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
10	10	M-10784	4	25	B-106	4
16	16	M-10785	4	32	B-106	4
25	25	M-3254	4	45	B-106	2
30	30	M-4348	4	45	B-106	4
35	35	M-3255	4	65	B-106	2
	25	M-3256	4	65	B-106	4
8 mm Ø	8 mm Ø	M-4643	4	90	B-106	2
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 or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- 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	4
	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
14.3	120	M-3328	4	90	B-106	4
	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	4
	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	4
	70	M-3340	4	90	B-106	2
	95	M-3342	4	90	B-106	2
	120	M-3343	4	90	B-106	2
17.2	150	M-3344	4	115	B-106	2
	185	M-3345	4	115	B-106	2
	240	M-3346	4	150	B-106	2
	25	M-3354	4	65	B-106	2
	30	M-4413	4	65	B-106	4
	35	M-3355	4	65	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 or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush
 - 38-0304-00 ~ File
 - 38-0330-00 ~ Cable Clamp

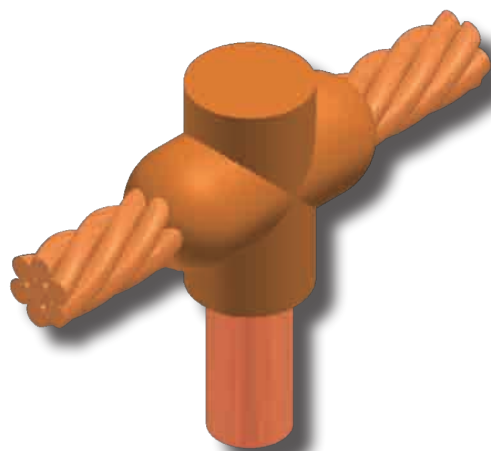
MOLDS FOR METRIC CONDUCTORS						
Ground Rod Size (mm)	Cable Size (mm ²)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
12.8	10	M-10788	4	65	B-106	4
	16	M-10789	4	90	B-106	2
	25	M-3372	4	90	B-106	2
	5.6 mm Ø	M-4486	4	90	B-106	4
	30	M-4503	4	90	B-106	4
	35	M-3373	4	90	B-106	2
	50	M-3374	4	90	B-106	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	4
	300	M-3416	5	2-150	B-107	2

- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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

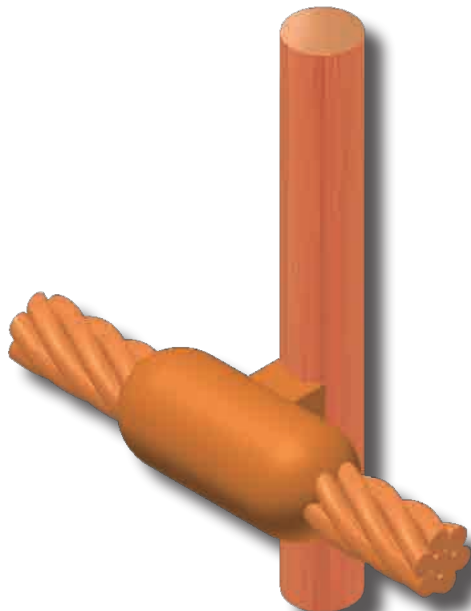
Horizontal Cable to Ground Rod For Metric Conductors



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



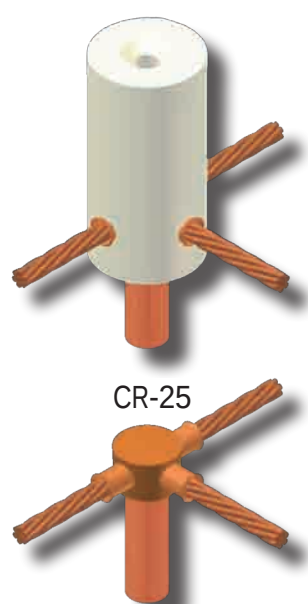
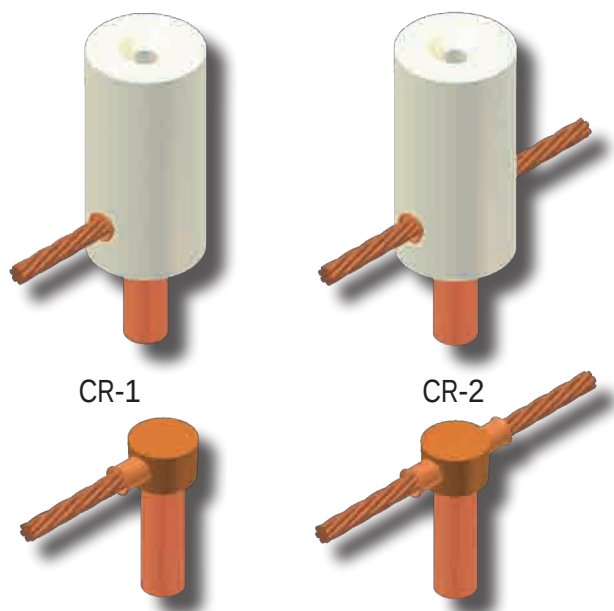
MOLDS FOR METRIC CONDUCTORS

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 or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush (pg 40)
 - 38-0304-00 ~ File

SINGLE SHOT MOLDS

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

Single Shot
Molds

Ground Rod Size (mm)	Cable Size (mm ²)	Type	Mold #
12.8	2.5-6	CR-1	M-8968
	10-16	CR-1	M-8969
	25-35	CR-1	M-8970
	2.5-6	CR-2	M-8971
	10-16	CR-2	M-8972
	25-35	CR-2	M-8973

Ground Rod Size (mm)	Cable Size (mm ²)	Type	Mold #
14.3	2.5-6	CR-1	M-8974
	10-16	CR-1	M-8975
	25-35	CR-1	M-8976
	50	CR-1	M-8977
	2.5-6	CR-2	M-8979
	10-16	CR-2	M-8980
	25-35	CR-2	M-8981
	50	CR-2	M-8982
	10-16	CR-25	M-8984
	25-35	CR-25	M-8985
	50	CR-25	M-8986

Ground Rod Size (mm)	Cable Size (mm ²)	Type	Mold #
17.2	2.5-6	CR-1	M-8987
	10-16	CR-1	M-8988
	25-35	CR-1	M-8989
	50	CR-1	M-8990
	70	CR-1	M-8991
	2.5-6	CR-2	M-8992
	10-16	CR-2	M-8993
	25-35	CR-2	M-8994
	50	CR-2	M-8995
	2.5-6	CR-25	M-8996
	10-16	CR-25	M-8997
	25-35	CR-25	M-8998
	50	CR-25	M-8999

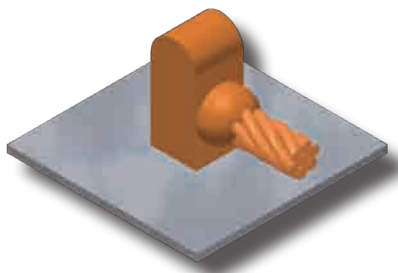
CS-1

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	4
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

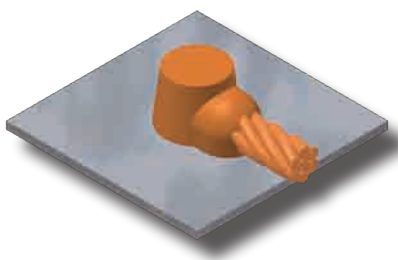
CS-8

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	Not Req'd	2
16	M-10264	3†	45	Not Req'd	2
25	M-3479	3†	45	Not Req'd	2
30	M-4530	3†	45	Not Req'd	4
35	M-3480	3†	45	Not Req'd	2
8 mm Ø	M-4534	3†	45	Not Req'd	4
50	M-3481	3†	45	Not Req'd	2
10 mm Ø	M-4536	3†	65	Not Req'd	4
70	M-3483	3†	65	Not Req'd	2
95	M-3485	4	90	Not Req'd	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

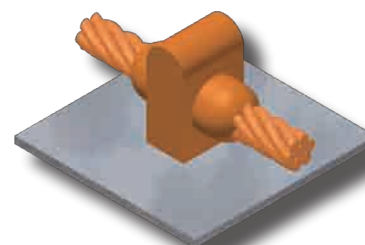
- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - † ~ Sold complete with frame
 - 38-0309-00 ~ Flint Ignitor
- 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 mm² & Larger Molds (CS-8 Molds Only)

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-2

TYPE MOLDS

Horizontal Thru Cable to Horizontal Steel Surface

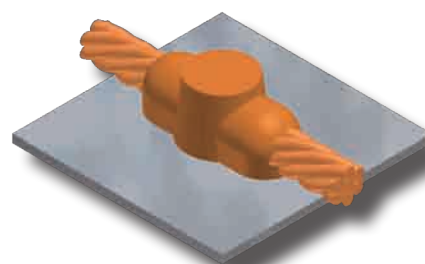
*For Metric Conductors*Note that the cable is **OFF** the surface

MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm ²)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	M-10793	3†	45	Not Req'd	4
16	M-10794	3†	45	Not Req'd	4
25	M-3496	3†	45	Not Req'd	2
30	M-4638	3†	45	Not Req'd	4
35	M-3497	3†	45	Not Req'd	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				

CS-9

TYPE MOLDS

Horizontal Thru Cable to Horizontal Steel Surface

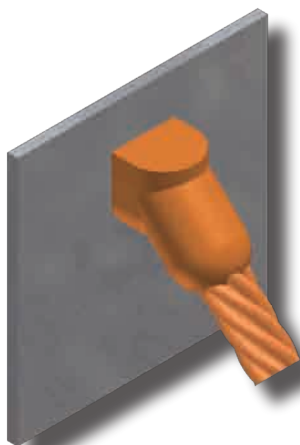
*For Metric Conductors*Note that the cable is **ON** the surface

- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- 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
- 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 mm² & Larger Molds (CS-9 Molds Only)

CS-3

TYPE MOLDS

Angular Cable Drop to Vertical Steel Surface
For Metric Conductors



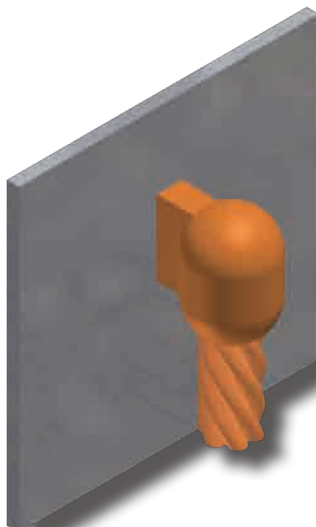
For connections to pipe,
contact thermOweld®.

MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm ²)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	M-10795	4	45	B-106	2
16	M-10796	4	45	B-106	2
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

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	4
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
10 mm Ø	M-3070	4	45	B-106	4
70	M-4678	4	115	B-106	4
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

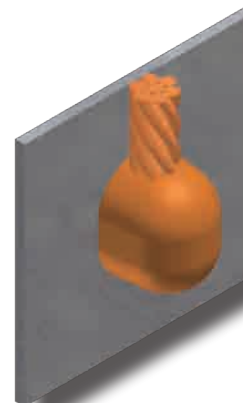
- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
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

MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm ²)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	M-10802	4	65	B-106	2
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-7

TYPE MOLDS

Overhead Vertical Tap Cable to Vertical Steel Surface
For Metric Conductors

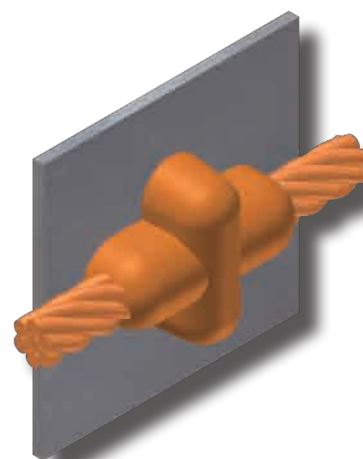


MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm ²)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	M-10804	4	45	B-106	4
16	M-3522	4	45	B-106	4
25	M-3523	4	45	B-106	2
30	M-4779	4	45	B-106	4
35	M-3524	4	45	B-106	2
8 mm Ø	M-4780	4	65	B-106	4
50	M-3525	4	65	B-106	2
10 mm Ø	M-4833	4	115	B-106	4
70	M-3527	4	115	B-106	2
95	M-3529	4	150	B-106	2
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

CS-27

TYPE MOLDS

Horizontal Thru Cable to Vertical Steel Surface
For Metric Conductors
Note that the cable is **ON** the surface



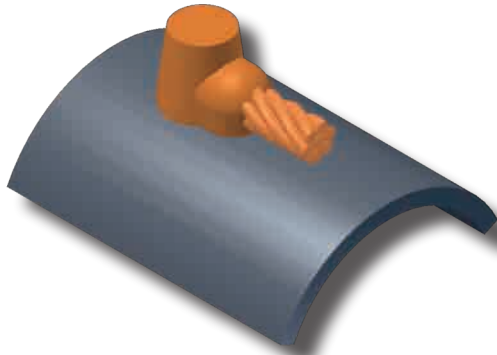
- For sizes not listed, contact thermOweld®.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - † ~ Sold complete with frame
 - 38-0309-00 ~ Flint Ignitor
- Other recommended 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 mm² & 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	Not Req'd	2
2.5, 4 & 6	over 125	M-4147†	3†	15CP	Not Req'd	2
10	up to 125	M-4148	3†	25CP	Not Req'd	2
	over 125	M-4149	3†	25CP	Not Req'd	2
16	up to 125	M-4146	3†	15CP	Not Req'd	2
	over 125	M-4147	3†	15CP	Not Req'd	2
25	up to 70	M-4152	3†	25CP	Not Req'd	2
	70 to 165	M-4153	3†	25CP	Not Req'd	2
	over 165	M-4154	3†	25CP	Not Req'd	2
30	up to 70	M-2833	3†	32CP	Not Req'd	4
	70 to 165	M-2834	3†	32CP	Not Req'd	4
	165 to 250	M-2835	3†	32CP	Not Req'd	4
	over 250	M-2836	3†	32CP	Not Req'd	4
35	up to 70	M-4155	3†	32CP	Not Req'd	2
	70 to 165	M-4156	3†	32CP	Not Req'd	2
	165 to 250	M-4157	3†	32CP	Not Req'd	2
	over 250	M-4158	3†	32CP	Not Req'd	2
50	up to 70	M-4159	3†	45CP	Not Req'd	4
	70 to 165	M-4160	3†	45CP	Not Req'd	2
	165 to 250	M-4161	3†	45CP	Not Req'd	2
	over 250	M-4162	3†	45CP	Not Req'd	2
70	up to 70	M-4163	3†	65CP	Not Req'd	2
	70 to 165	M-4164	3†	65CP	Not Req'd	2
	165 to 250	M-4165	3†	65CP	Not Req'd	2
	over 250	M-4166	3†	65CP	Not Req'd	2

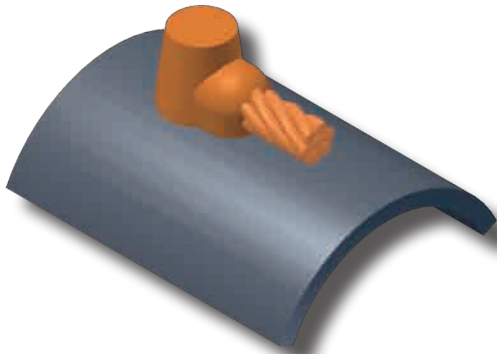
† 38-4590 Sleeve/Weld Req'd

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	M-4188†	3†	25CI	Not Req'd	4
10	Surface	M-10024	3†	25CI	Not Req'd	2
16	or	M-10805	3†	45CI	Not Req'd	4
25	750 Dia	M-4191	3†	45CI	Not Req'd	4
35	and	M-4192	3†	45CI	Not Req'd	2
50	above	M-4193	3†	45CI	Not Req'd	4
70	pipe	M-2868	3†	65CI	Not Req'd	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 metallurgical effects.

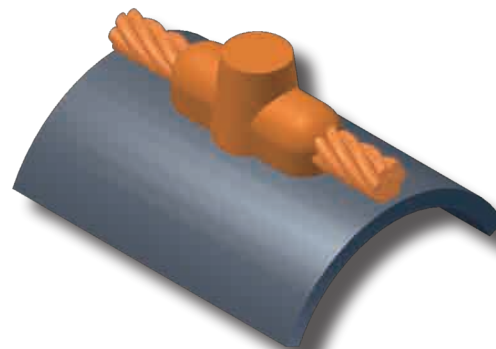
- For sizes not listed, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - † ~ Sold complete with frame
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0319-01 ~ Mold Cleaner for 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 mm² & Larger Molds

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	Not Req'd	2
2.5, 4 & 6	over 105	M-4168†	3†	25CP	Not Req'd	2
10	up to 105	M-10806	3†	25CP	Not Req'd	4
	over 105	M-10807	3†	25CP	Not Req'd	4
16	up to 105	M-10808	3†	25CP	Not Req'd	4
	over 105	M-10809	3†	25CP	Not Req'd	4
25	up to 70	M-4173	3†	32CP	Not Req'd	4
	70 to 165	M-4174	3†	32CP	Not Req'd	4
	over 165	M-4175	3†	32CP	Not Req'd	4
35	up to 70	M-4176	3†	45CP	Not Req'd	2
	70 to 165	M-4177	3†	45CP	Not Req'd	2
	165 to 250	M-4178	3†	45CP	Not Req'd	2
	over 250	M-4179	3†	45CP	Not Req'd	2
50	up to 70	M-4180	3†	65CP	Not Req'd	4
	70 to 165	M-4181	3†	65CP	Not Req'd	4
	165 to 250	M-4182	3†	65CP	Not Req'd	4
	over 250	M-4183	3†	65CP	Not Req'd	2
‡ (2) 38-4590 Sleeve/Weld Req'd						

CS-34

TYPE MOLDS

Cathodic Protection

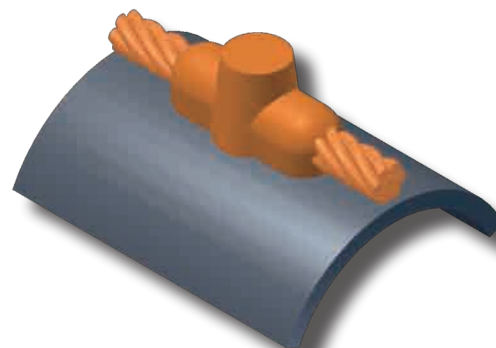
Horizontal Thru Cable to Horizontal Steel Pipe
For Metric Conductors

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	Flat	M-2876‡	3†	32CI	Not Req'd	4
10	Surface	M-10810	3†	32CI	Not Req'd	4
16	or	M-10811	3†	45CI	Not Req'd	4
25	750 Dia	M-2884	3†	45CI	Not Req'd	4
35	and	M-2887	3†	45CI	Not Req'd	2
50	above	M-2889	3†	65CI	Not Req'd	4
70	pipe	M-2890	3†	65CI	Not Req'd	4
‡ (2) 38-4590 Sleeve/Weld Req'd						

CS-35

TYPE MOLDS

Cathodic Protection

Horizontal Thru Cable to Horizontal Cast Iron Pipe
For Metric Conductors

- For sizes not listed, contact thermOweld®.
- 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
- 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 mm² & Larger Molds

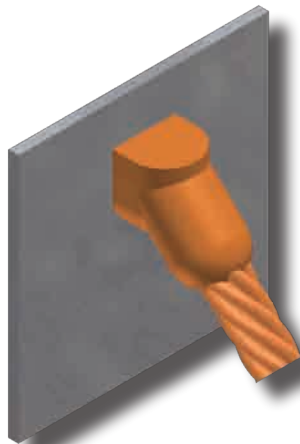
DO NOT use Type CS-35 molds on Soil Pipe (ASTM A74-82). A test weld should be made on a section of the pipe being used to determine the possibility of detrimental metallurgical effects.

CS-36

TYPE MOLDS

Cathodic Protection

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-10721	18	15CP	40-4565-00	4
16	M-10722	18	25CP	40-4565-00	4
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



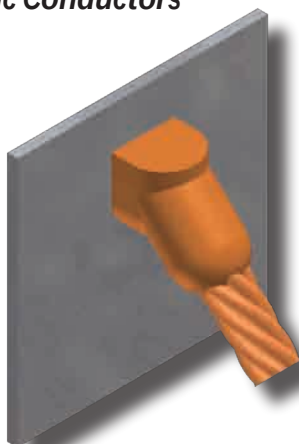
For connections to pipe, contact thermOweld®.

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	4
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®.

- For sizes not listed, contact thermOweld®.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles) 38-0309-00 ~ Flint Ignitor
- 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

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.

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	4
	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	4
	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

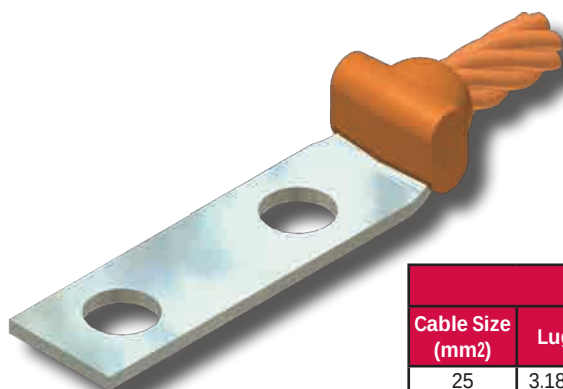
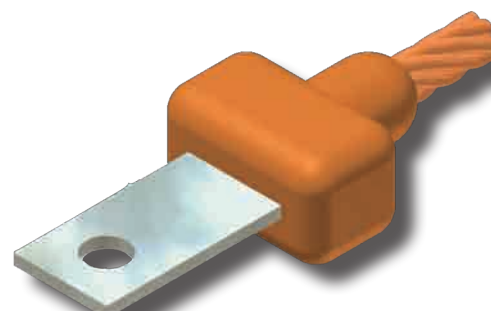
CB-1

TYPE MOLDS

Horizontal Cable Tap to Horizontal Lug or Bus

For Metric Conductors

See pages 194-195 for Lug part numbers.



CB-33

TYPE MOLDS

Horizontal Cable Tap to Horizontal Lug or Bus

For Metric Conductors

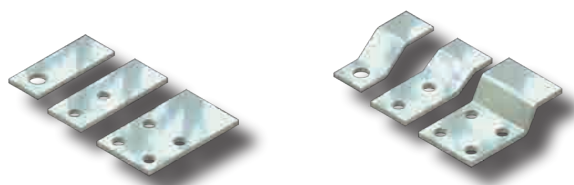
See page 53 for Information on Lugs

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	2	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 or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush

COPPER LUGS

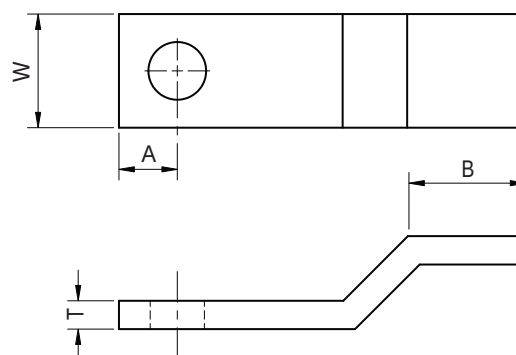
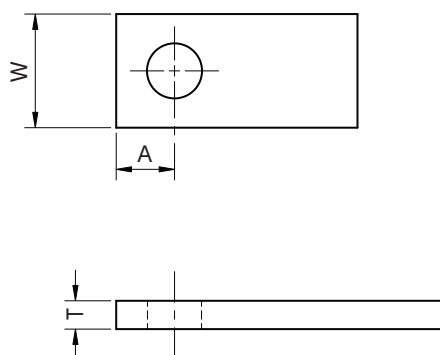
STRAIGHT AND OFFSET COPPER LUGS



thermOweld® straight & offset lugs are designed to be used with CB-1 Type Molds listed on page 137. 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 (mm)	Straight Lug Part #	Offset Lug Part #	# Of Holes	Bolt Size	T (mm)	W (mm)	A (mm)	B (mm)
2 X 20	38-5049-00	38-5059-00	1	M8	2	20	10	8.5
2 X 25	38-5050-00	38-5060-00	1	M8	2	25	12	8.5
3 X 25	38-5051-00	38-5061-00	1	M8	3	25	12	8.5
3 X 25	38-5051-01	38-5061-01	1	M10	3	25	12	10.5
4 X 25	38-5052-00	38-5062-00	1	M8	4	25	12	8.5
4 X 25	38-5052-01	38-5062-01	1	M10	4	25	12	10.5
5 X 25	38-5053-00	38-5063-00	1	M10	5	25	12	10.5
5 X 25	38-5053-01	38-5063-01	1	M12	5	25	14	12.5
5 X 30	38-5054-00	38-5064-00	1	M10	5	30	15	10.5
5 X 30	38-5054-01	38-5064-01	1	M12	5	30	16	12.5
5 X 40	38-5055-00	38-5065-00	1	M10	5	40	18	10.5
5 X 40	38-5055-01	38-5065-01	1	M12	5	40	20	12.5
5 X 50	38-5056-00	38-5066-00	1	M10	5	50	25	10.5
5 X 50	38-5056-01	38-5066-01	1	M12	5	50	25	12.5
6 X 50	38-5057-00	38-5067-00	1	M10	6	50	25	10.5
6 X 50	38-5057-01	38-5067-01	1	M12	6	50	25	12.5
8 X 50	38-5058-00	38-5068-00	1	M12	8	50	25	12.5
8 X 50	38-5058-01	38-5068-01	1	M16	8	50	25	16.5

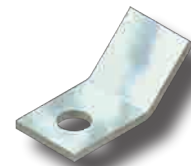
For sizes not listed, contact thermOweld®.



45° COPPER LUGS

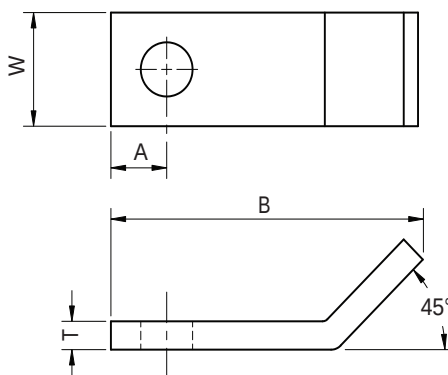
thermOweld® 45° lugs are designed to be used with CB-1 Type Molds listed on page 135. The lugs are made from electrolytic grade copper bar stock and tin plated. The lugs are available with one, two or four bolt holes with NEMA spacing. For lug sizes not listed, contact thermOweld®.

COPPER LUGS



Lug Size	45° Lug Part #	# Of Holes	Bolt Size	T (mm)	W (mm)	A (mm)	B (mm)
2 X 20	38-5069-00	1	M8	2	20	10	8.5
2 X 25	38-5070-00	1	M8	2	25	12	8.5
3 X 25	38-5071-00	1	M8	3	25	12	8.5
3 X 25	38-5071-01	1	M10	3	25	12	10.5
4 X 25	38-5072-00	1	M8	4	25	12	8.5
4 X 25	38-5072-01	1	M10	4	25	12	10.5
5 X 25	38-5073-00	1	M10	5	25	12	10.5
5 X 25	38-5073-01	1	M12	5	25	14	12.5
5 X 30	38-5074-00	1	M10	5	30	15	10.5
5 X 30	38-5074-01	1	M12	5	30	16	12.5
5 X 40	38-5075-00	1	M10	5	40	18	10.5
5 X 40	38-5075-01	1	M12	5	40	20	12.5
5 X 50	38-5076-00	1	M10	5	50	25	10.5
5 X 50	38-5076-01	1	M12	5	50	25	12.5
6 X 50	38-5077-00	1	M10	6	50	25	10.5
6 X 50	38-5077-01	1	M12	6	50	25	12.5
8 X 50	38-5078-00	1	M12	8	50	25	12.5
8 X 50	38-5078-01	1	M16	8	50	25	16.5

For sizes not listed, contact thermOweld®.



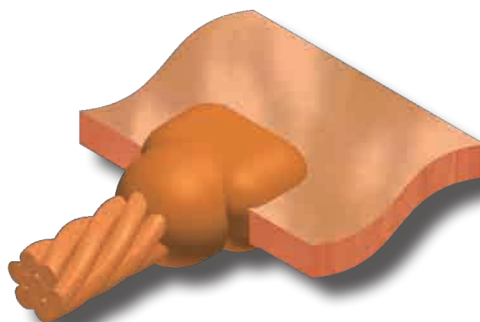
CB-4

TYPE MOLDS

For Metric Conductors

Horizontal Cable Tap to Horizontal Bus

For AWG Conductors



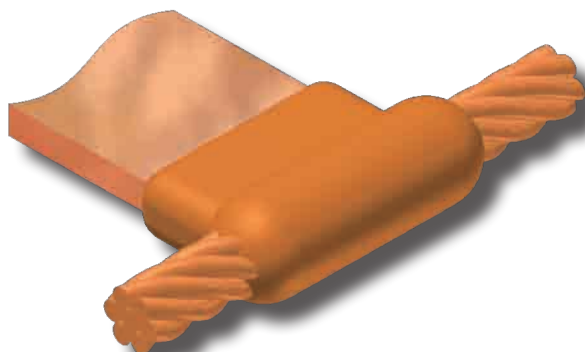
MOLDS FOR METRIC CONDUCTORS						
Cable Size (mm ²)	Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	2 X 20	M-10814	4	25	B-106	4
16	2 X 20	M-10815	4	32	B-106	4
25	2 X 20	M-3563	4	25	B-106	2
35	2 X 20	M-3565	4	32	B-106	2
30	2 X 25	M-3566	4	45	B-106	4
50	2 X 25	M-3567	4	45	B-106	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	4
	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	4
	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®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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

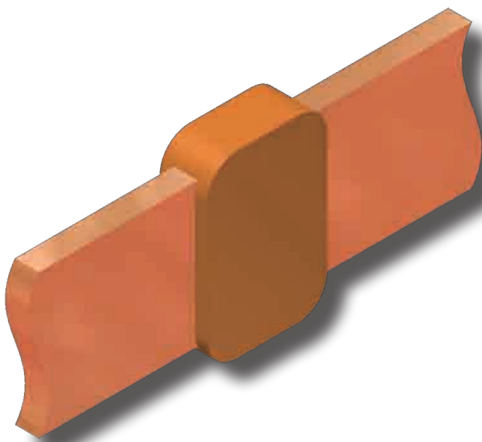
Cable Size (mm ²)	Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	2 X 20	M-10816	4	45	B-106	4
16	2 X 20	M-10817	4	45	B-106	4
25	2 X 20	M-3595	4	45	B-106	4
35	2 X 20	M-3596	4	45	B-106	4
30	2 X 25	M-3597	4	65	B-106	4
50	2 X 25	M-3598	4	65	B-106	4
	3 X 25	M-3599	4	65	B-106	2
8 mm 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	4
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 or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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

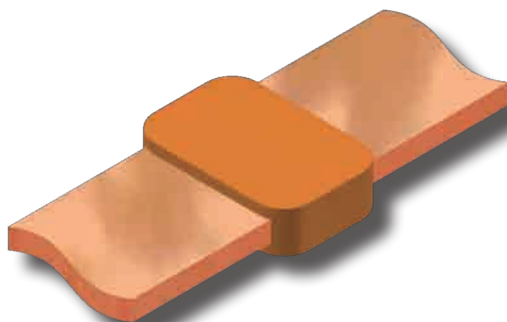


MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-3628	4	45	B-106	4
2 X 25	M-3629	4	65	B-106	4
2 X 30	M-3630	4	65	B-106	2
3 X 20	M-3631	4	45	B-106	4
3 X 25	M-3632	4	65	B-106	2
3 X 30	M-3633	4	90	B-106	4
3 X 40	M-3634	4	115	B-106	4
4 X 25	M-3635	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	4
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®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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

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	4
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

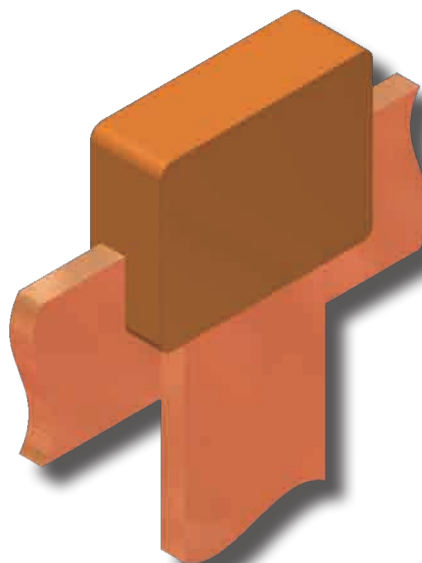
MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-3831	4	45	B-106	4
2 X 25	M-3832	4	45	B-106	4
2 X 30	M-3833	4	65	B-106	2
3 X 20	M-3834	4	45	B-106	4
3 X 25	M-3835	4	65	B-106	2
3 X 30	M-3836	4	65	B-106	2
3 X 40	M-3837	4	90	B-106	4
4 X 20	M-3838	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	4
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 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®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- 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-3

TYPE MOLDS

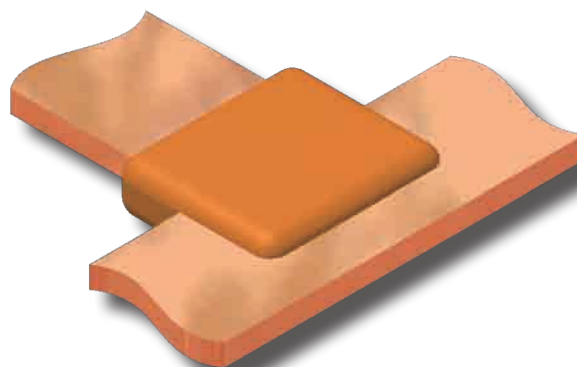
Vertical Drop Tap to Horizontal Run
For Metric Conductors



BB-14

TYPE MOLDS

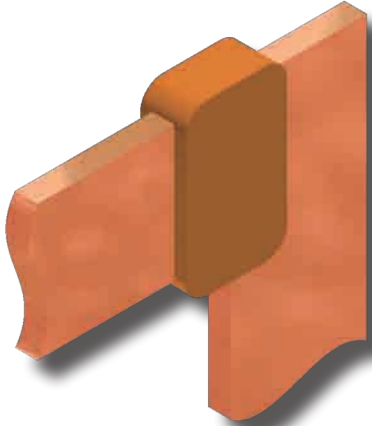
Horizontal Flat Bus Run and Tap
For Metric Conductors



BB-2

TYPE MOLDS

Horizontal to Vertical at Right Angle



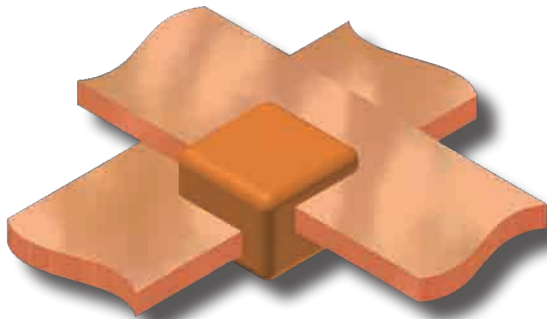
MOLDS FOR METRIC CONDUCTORS

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-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	4
3 X 30	M-9798	4	90	B-106	4
3 X 40	M-10848	4	90	B-106	4
3 X 50	M-4123	4	115	B-106	4
4 X 20	M-9811	4	115	B-106	2
4 X 25	M-9800	4	90	B-106	4
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

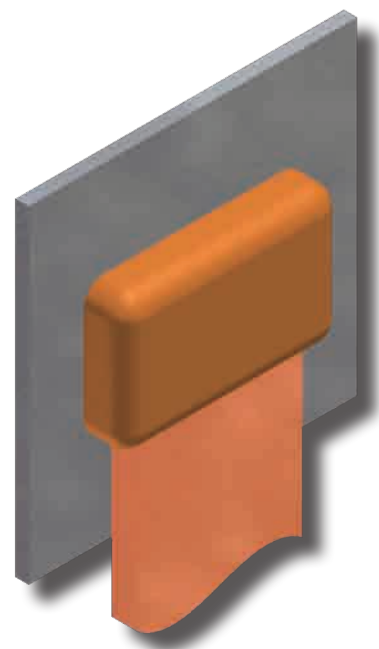
- For sizes not listed, contact thermOweld®.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0319-01 ~ 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

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	4
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-1

TYPE MOLDS

Vertical Tap to Vertical Steel Surface
For Metric Conductors

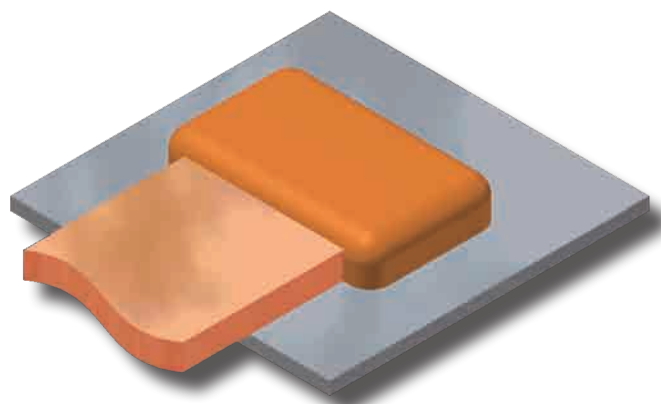


MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-4090	4	65	B-106	4
2 X 25	M-4091	4	90	B-106	4
3 X 20	M-4092	4	90	B-106	4
3 X 25	M-4093	4	90	B-106	2
3 X 30	M-4094	4	115	B-106	4
3 X 40	M-4095	4	115	B-106	4
4 X 25	M-4096	4	90	B-106	4
4 X 30	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

BS-2

TYPE MOLDS

Horizontal Tap to Horizontal Steel Surface
For Metric Conductors

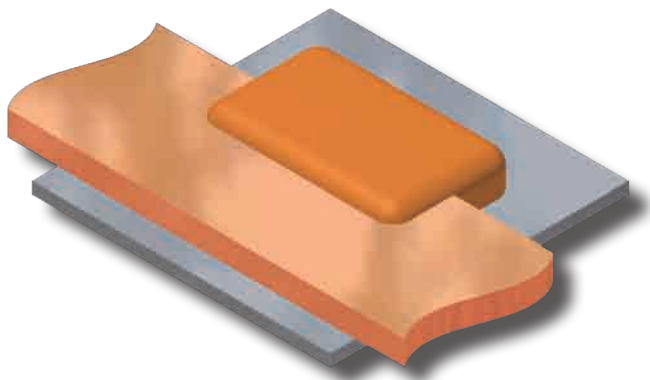


- For sizes not listed, contact thermOweld®.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ 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

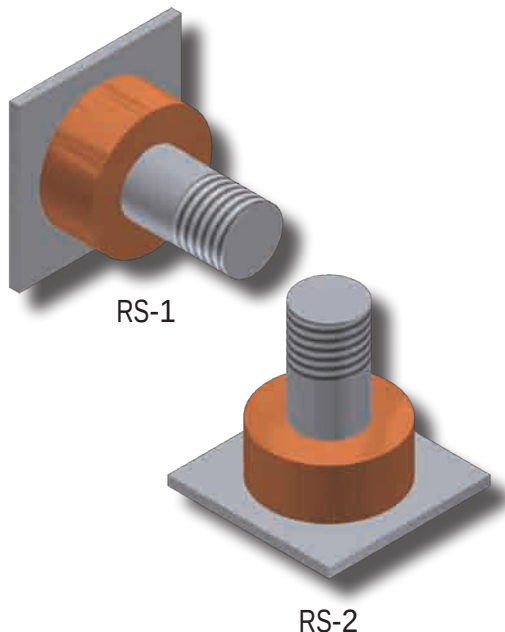
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-2892	4	65	B-106	4
2 X 25	M-2893	4	90	B-106	4
3 X 20	M-2909	4	90	B-106	4
3 X 25	M-2911	4	115	B-106	2
3 X 30	M-2912	4	115	B-106	2
3 X 40	M-2913	4	150	B-106	4
4 X 25	M-2939	4	115	B-106	4
4 X 30	M-2940	4	150	B-106	4
4 X 40	M-2954	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	2
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®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
38-3922-00 ~ Mold Cleaning Brush
38-0306-00 ~ Card Cloth Brush
38-0101-00 ~ Rasp

RS-1/RS-2

TYPE MOLDS

Horizontal and Vertical Stud to Steel



MOLDS FOR METRIC CONDUCTORS

Stud Size (mm)	Type RS-1	Type RS-2	Price Key	Weld Metal	Handle Clamps	Lead Time
6	M-10742	M-10744	4	25	B-106	4
8	M-10743	M-10745	4	32	B-106	4
10	M-2891	M-4382	4	45	B-106	4
12	M-4285	M-4383	4	65	B-106	4
16	M-2822	M-4471	4	115	B-106	4

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

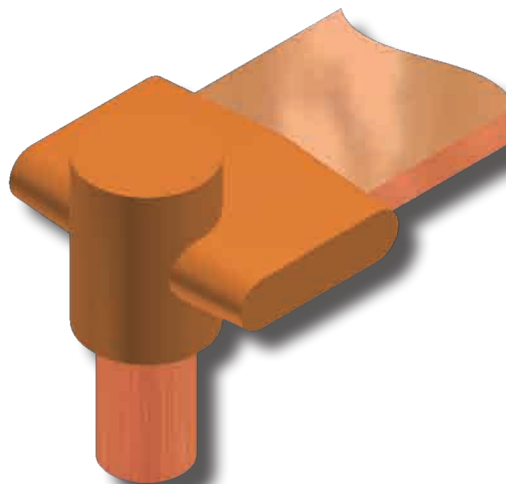
MOLDS FOR METRIC CONDUCTORS						
Ground Rod Size (mm)	Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
12.8	2 X 20	M-3912	4	65	B-106	4
	2 X 25	M-3913	4	65	B-106	4
	2 X 30	M-3914	4	90	B-106	4
	3 X 20	M-3915	4	90	B-106	4
	3 X 25	M-3916	4	90	B-106	4
	3 X 30	M-3917	4	90	B-106	4
	3 X 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	4
	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	4
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®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- 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-1

TYPE MOLDS

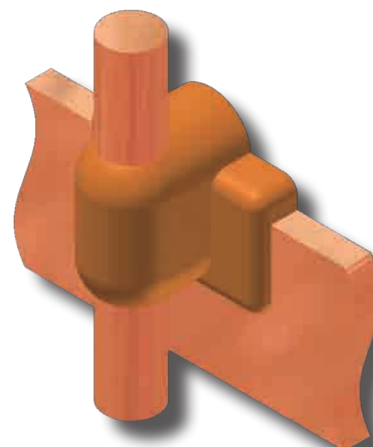
Horizontal Bus Terminal to Ground Rod
For Metric Conductors



BR-3

TYPE MOLDS

Horizontal Thru Bus to Ground Rod
For Metric Conductors

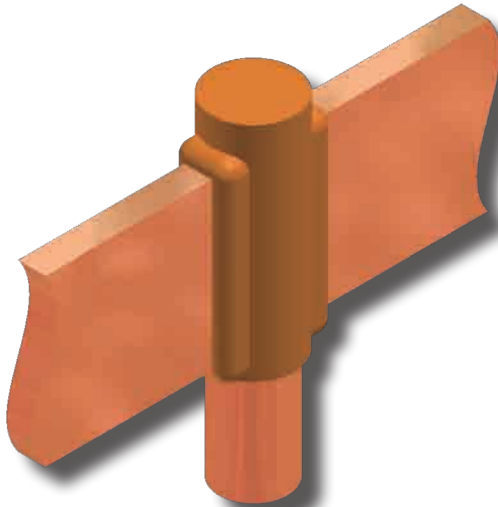


MOLDS FOR METRIC CONDUCTORS						
Ground Rod Size (mm)	Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
12.8	3 X 25	M-10778	24	200	B-106	4
14.3	3 X 25	M-2919	24	200	B-106	4
17.2	3 X 25	M-10779	24	2-200	B-106	4

BR-2

TYPE MOLDS

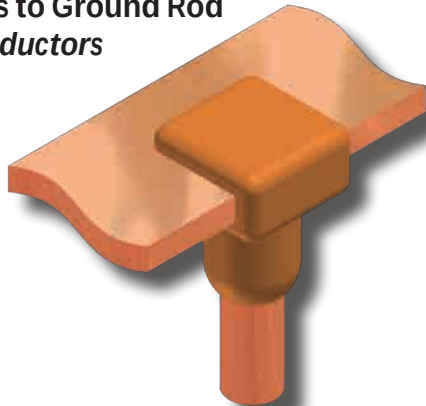
Horizontal Bus to Ground Rod
For Metric Conductors



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 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
14.3	4 X 25	M-3958	4	90	B-106	4
	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	4
	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
17.2	6 X 50	M-3974	4	250	B-106	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	2
	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	4

- For sizes not listed, contact thermOweld®.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
Handle Clamps w/ Flint Ignitor (see chart for correct handles)
38-0309-00 ~ Flint Ignitor
- 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 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	4
17.2		M-9781	5	200	B-107	4

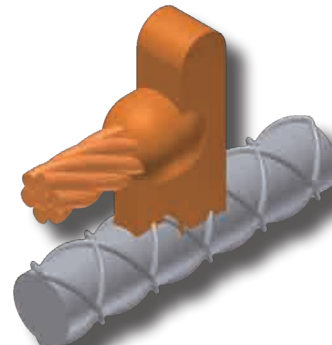
MOLDS FOR AWG CONDUCTORS

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	Not Req'd	4
	50	M-10751	38-4062	14†	90	Not Req'd	4
	70	M-10752	38-4062	14†	90	Not Req'd	4
	95	M-10753	38-4062	14†	115	Not Req'd	4

CRE-1

TYPE MOLDS

Horizontal Parallel Tap
For Metric Conductors



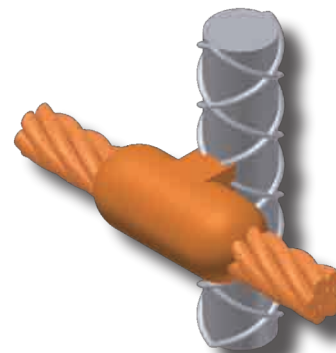
MOLDS FOR AWG CONDUCTORS

Rebar Size (mm)	Cable Size (mm ²)	Mold #	Packing Mat'l # See Note	Price Key	Weld Metal	Handle Clamps	Lead Time
12	25	M-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	4
	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	4
	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

CRE-3

TYPE MOLDS

Horizontal thru Cable to Vertical Rebar
For Metric Conductors



- For sizes not listed, contact thermOweld®.
- For heavy duty connections, contact thermOweld®.
- 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
- Other recommended accessories;
38-3922-00 ~ Mold Cleaning Brush
38-0135-00 ~ Cable Cleaning Brush
38-0304-00 ~ File

PACKING MATERIAL NOTES

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

CRE-6

TYPE MOLDS

Horizontal Cable Tap to Vertical Rebar
For Metric Conductors

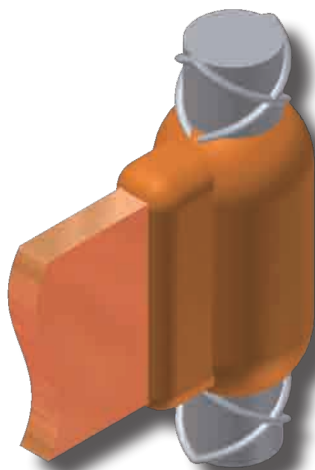


MOLDS FOR AWG CONDUCTORS							
Rebar Size (mm)	Cable Size (mm2)	Mold #	Packing Mat'l # See Note	Price Key	Weld Metal	Handle Clamps	Lead Time
12	25	M-10766	38-0329	4	65	B-106	4
	35	M-10767	38-0329	4	65	B-106	4
	50	M-10768	38-0329	4	115	B-106	4
	70	M-3740	38-0329	4	115	B-106	4
	95	M-10769	38-0329	4	150	B-106	4
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	4
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	4
22		M-10776	38-0329	7	250	B-106	4
25		M-3669	38-0329	7	250	B-106	4
32		M-10777	38-0329	7	250	B-106	4

PACKING MATERIAL NOTES

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

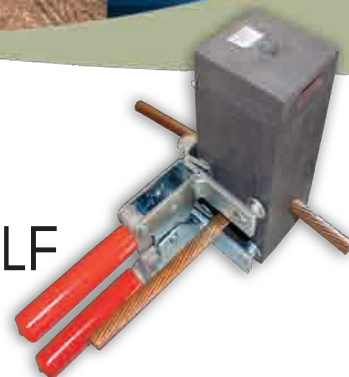
- For sizes not listed, contact thermOweld®.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00 ~ Mold Cleaning Brush
 - 38-0135-00 ~ Cable Cleaning Brush
 - 38-0304-00 ~ File



SAME DAY SERVICE

(International Market)

JUST LIKE HAVING IT ON THE SHELF



MOLDS

M-3022
M-3031
M-3034
M-3047
M-3051
M-3065
M-3071
M-3157
M-3173
M-3391
M-3394
M-3409
M-3412
M-4147
M-4149

WELD METAL

15
25
32
45
65
90
115
150
200
250
500

THERMOCAPS

38-6687-00

ACCESSORIES

Handle Clamp
Vertical Handle Clamp
Mini-Handle Clamp
Steel Disc
Mold Cleaner
Natural Bristle Brush
Shim Stock
1 lb Packing Material
Ceramic Fiber Packing
Copper Lug
Flint Igniters

5PM
CENTRAL STANDARD
TIME



Call Today Ship Today!

*SDS is not a guaranteed service.

thermOweld®
***The Contractor's
Choice
Globally***

Since our start in 1958, thermOweld® has grown to provide superior grounding, lightning protection, cathodic protection and other vital infrastructure solutions in over 55 countries worldwide. From our Oklahoma, USA headquarters and design / manufacturing operations, the industry's most consistent and reliable products are shipped each day to job and project sites, distributors, logistics/supplychain teams, utilities, and key partners. Throughout the globe, thermOweld® is specifically requested, often demanded, by specifying engineers and installers. Clearly, thermOweld is The Contractor's Choice!

Section 11

Earthing and Lightning Protection (Metric)

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GROUND RODS

Copper Bonded Ground Rods (254 Microns)

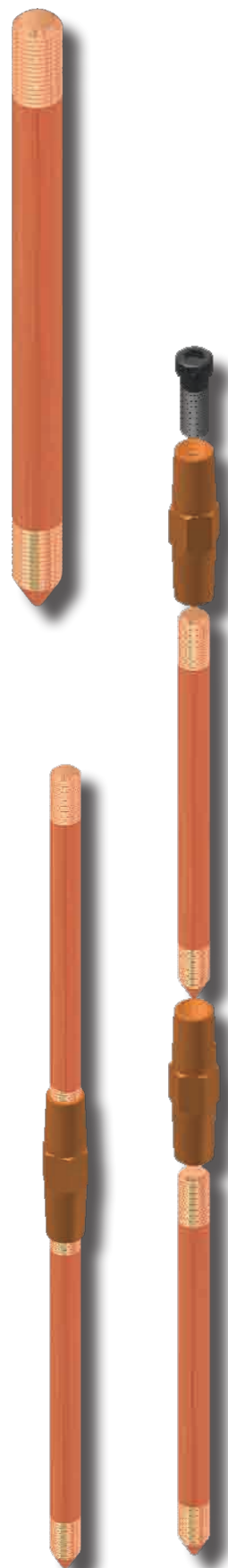
Manufactured from high tensile low carbon steel by molecularly bonding 99.9% pure electrolytic copper, these ground rods conform to BS 4360 grade 43A. Each rod is treated with Benzol triazole derivatives to prevent oxidation of copper bonding. The threads are formed by a roll threading process which ensures strength and maintains the molecularly bonded copper along the full length of the threads. The rods can be deep driven manually or by using a power hammer.

Copper Bonded Ground Rods (254 Microns)			
Catalog #	Rod Dia (mm)	Length (mm)	Thread Dia
38-8000-01	14.2	1200	5/8"
38-8000-02	14.2	1500	5/8"
38-8000-03	14.2	1800	5/8"
38-8000-04	14.2	2400	5/8"
38-8000-05	14.2	3000	5/8"
38-8000-06	14.2	3600	5/8"
38-8000-07	17.2	1200	3/4"
38-8000-08	17.2	1500	3/4"
38-8000-09	17.2	1800	3/4"
38-8000-10	17.2	2400	3/4"
38-8000-11	17.2	3000	3/4"
38-8000-12	17.2	3600	3/4"

Copper Bonded Ground Rods

Manufactured from high tensile low carbon steel by molecularly bonding 99.9% pure electrolytic copper, these ground rods conform to BS 4360 grade 43A. Each rod is treated with Benzol triazole derivatives to prevent oxidation of copper bonding. The threads are formed by a roll threading process which ensures strength and maintains the molecularly bonded copper along the full length of the threads. The rods can be deep driven manually or by using a power hammer.

Copper Bonded Ground Rods			
Catalog #	Rod Dia (mm)	Length (mm)	Thread Dia
38-8001-01	12.7	1200	9/16"
38-8001-02	12.7	1500	9/16"
38-8001-03	12.7	1800	9/16"
38-8001-04	12.7	2400	9/16"
38-8001-05	14.2	1200	5/8"
38-8001-06	14.2	1500	5/8"
38-8001-07	14.2	1800	5/8"
38-8001-08	14.2	2400	5/8"
38-8001-09	14.2	3000	5/8"
38-8001-10	14.2	3600	5/8"
38-8001-11	17.2	1200	3/4"
38-8001-12	17.2	1500	3/4"
38-8001-13	17.2	1800	3/4"
38-8001-14	17.2	2400	3/4"
38-8001-15	17.2	3000	3/4"
38-8001-16	17.2	3600	3/4"

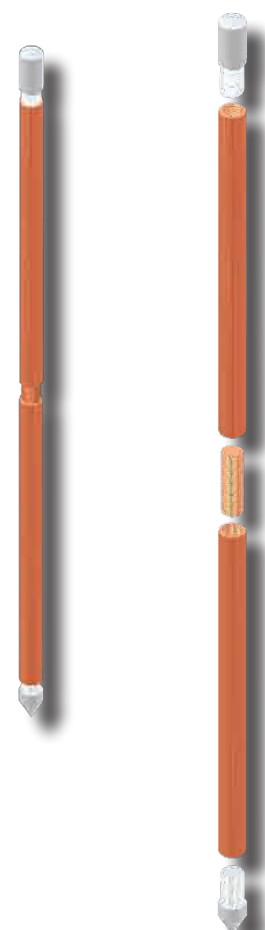


GROUND RODS

Solid Copper Ground Rods (Internally Threaded)

Pure copper ground rods are used where extreme soil conditions such as high salt or moisture content demands high corrosion resistance and exceptionally long life ground rods. Solid Copper Ground Rods are made from high conductivity hard drawn copper to BS2874 C101.

Solid Copper Ground Rods (Internally Threaded)			
Catalog #	Rod Dia (mm)	Length (mm)	Thread Dia
38-8002-01	14.0	1200	M10
38-8002-02	14.0	1500	M10
38-8002-03	15.0	1200	M10
38-8002-04	15.0	1500	M10
38-8002-05	16.0	1200	M10
38-8002-06	16.0	1500	M10
38-8002-07	20.0	1200	M12
38-8000-08	20.0	1500	M12



Solid Copper Ground Rods (Externally Threaded)

thermOweld® offers pure copper ground rods for use where extreme soil conditions such as high salt or moisture content demands high corrosion resistance and exceptionally long life ground rods. Solid Copper Ground Rods are made from high conductivity hard drawn copper to BS2874 C101. Threads are formed by a roll threading process to ensure extra strength and to avoid the risk of chipping while driving the rods in the ground.

Solid Copper Ground Rods (Externally Threaded)			
Catalog #	Rod Dia (mm)	Length (mm)	Thread Dia
38-8003-01	14.0	1200	5/8"
38-8003-02	14.0	1500	5/8"
38-8003-03	17.2	1200	3/4"
38-8003-04	17.2	1500	3/4"



GROUND RODS & ACCESSORIES

Stainless Steel Ground Rod (Internally Threaded)

Stainless Steel Ground Rods are used where galvanic corrosion is likely to affect the ground rods due to dissimilar metals buried in close proximity, as copper ground rods are more vulnerable to galvanic corrosion. Stainless Steel Rods are more anodic than copper and are more effective against corrosion problems. These rods are manufactured from austenitic stainless steel to BS 970, Grade 316 S12.

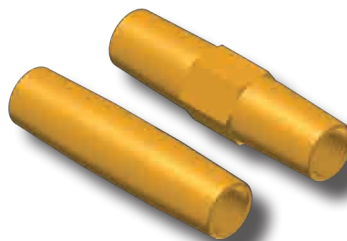
Stainless Steel Ground Rods (Internally Threaded)			
Catalog #	Rod Dia (mm)	Length (mm)	Thread Dia
38-8004-01	16.0	1500	M10
38-8004-02	16.0	1800	M10
38-8004-03	16.0	2400	M10
38-8004-04	20.0	1500	M12
38-8004-05	20.0	1800	M12
38-8004-06	20.0	2400	M12



Heavy Duty Coupler

Heavy Duty Couplers are made of high grade material for higher strength with counter bores for protecting the rod threads from damage.

Heavy Duty Coupler			
Catalog #	Thread Dia	Length (mm)	Style
38-8005-01	9/16"	70	Round
38-8005-04	9/16"	70	Hex
38-8005-02	5/8"	70	Round
38-8005-05	5/8"	70	Hex
38-8005-03	3/4"	80	Round
38-8005-06	3/4"	80	Hex



Driving Stud

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

Driving Stud	
Catalog #	Thread Dia
38-8006-01	9/16"
38-8006-02	5/8"
38-8006-03	3/4"



Eye Bolt

These eye Bolts can be directly screwed onto rods, thereby offering a static discharge unit.

Eye Bolt	
Catalog #	Thread Dia
38-8007-01	9/16"
38-8007-02	5/8"
38-8007-03	3/4"



GROUND RODS & ACCESSORIES

Driving Head

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

Driving Head		
Catalog #	Thread Dia	OD (mm)
38-8008-01	M10	15
38-8008-02	M10	20



Internal Coupling Dowel

Internal coupling dowels are used to join solid copper or stainless steel rods.

Internal Coupling Dowel		
Catalog #	Thread Dia	Material
38-8009-01	M10	Copper
38-8009-02	M10	Brass
38-8009-03	M10	Stainless Steel



Driving Spike

Driving Spikes enable the rod to be driven easily and prevents damaging the copper rods. Spikes also can be used many times.

Driving Spike			
Catalog #	Thread Dia	OD (mm)	Internal/External
38-8010-01	M10	15	External
38-8010-02	M10	20	External
38-8010-03	5/8"	20	Internal
38-8010-04	3/4"	25	Internal



INSPECTION PITS

Concrete Inspection Pit

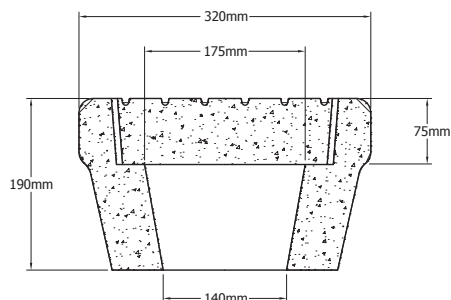
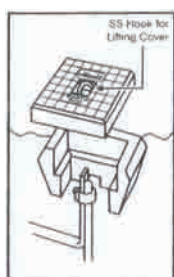
The Concrete Inspection Pit is load rated to 5,000 kgs. and is suitable for most types of earthing and lightning protection installations.

The Pit can have an earth bar fitted diagonally across in slots provided for multiple connections.

Concrete Inspection Pit

Catalog

38-8011-01

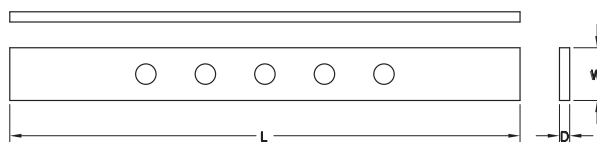
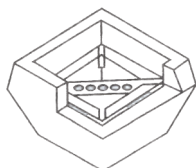
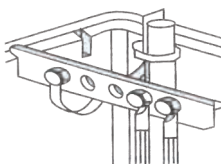
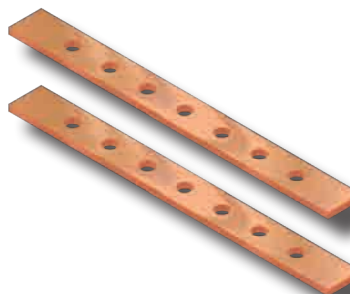


Earth Bars for Inspection Pit

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



INSPECTION PITS

Earth Housing

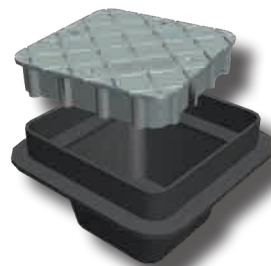
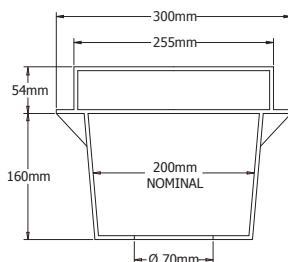
Heavy Duty

This earth housing is load rated up to 5000 kg. The pit is designed, shaped and sized to fit easily into brick paved walk ways. The lip of the pit makes a flush fit with standard sized bricks, making the pit blend in with no requirement for a cement surround to the lid.

The Pit can have an earth bar fitted diagonally across in slots provided for multiple connections.

Material: Polypropylene

Earth Housing - Heavy Duty
Catalog #
38-8013-01



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

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

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

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

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 GM	
Catalog #	Bag Wt
38-6501-25	25 lbs

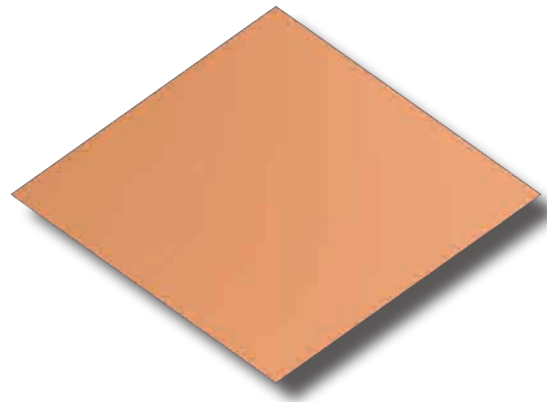


EARTH PLATES & LATTICE

Earth Plate

Earth Plates are used where rods are unsuitable. Earth Plates provide a long lasting alternative when compared to earth rods.

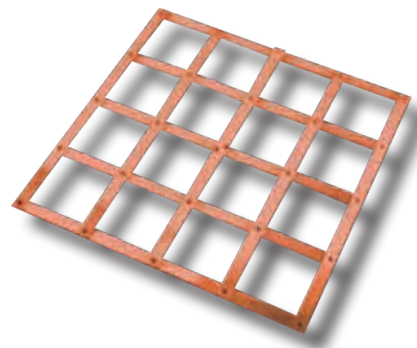
Earth Plate		
Solid Copper Catalog #	Copper Bonded Catalog #	Plate Size (mm)
38-8015-01	38-8016-01	500 x 500 x 1.5
38-8015-02	38-8016-02	500 x 500 x 3
38-8015-03	38-8016-03	600 x 600 x 1.5
38-8015-04	38-8016-04	600 x 600 x 3
38-8015-05	38-8016-05	900 x 900 x 1.5
38-8015-06	38-8016-06	900 x 900 x 3
38-6833-00	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 Bars for Inspection Pit			
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

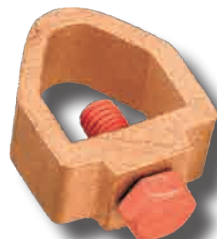
thermOweld® offers a variety of ground rod clamps suitable for different applications. Conductivity, Mechanical strength and corrosion resistance are important considerations in clamp design to ensure the earthing system is perfect for the life time of the system. All clamps are made of high strength 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 Cable Clamp - Type 'G'		
Catalog #	Rod Dia (mm)	Conductor Range (mm)
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

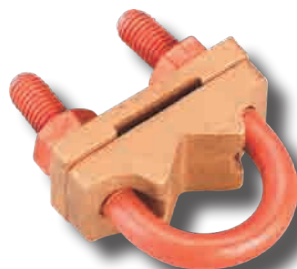


Rod to Tape Clamp

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

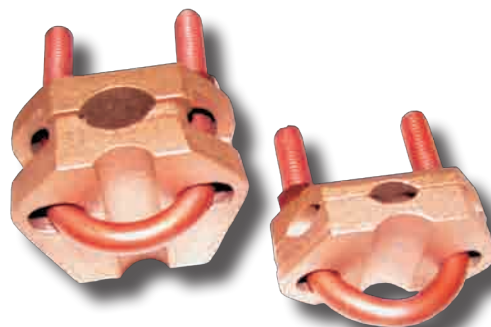


Rod to Cable Clamp

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)
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)
38-8024-01	12 - 20	35 - 185
38-8024-02	16 - 25	70 - 300

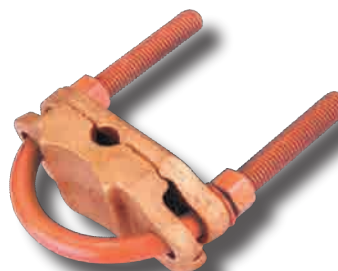


U Bolt Pipe to Cable Clamp

Type 'PUB'

'U' Bolt Pipe to Cable Clamps are used for universal parallel or 90° connection of cable to pipe. It is also used for fence post grounding connection.

U Bolt Pipe to Cable Clamp - Type 'PUB'		
Catalog #	Pipe Dia	Conductor Range (mm)
38-8025-01	1/2"	35 - 95
38-8025-02	3/4"	35 - 95
38-8025-03	1"	35 - 95
38-8025-04	1 1/4"	35 - 95
38-8025-05	1 1/2"	35 - 95
38-8025-06	2"	35 - 95
38-8025-07	2 1/2"	35 - 95
38-8025-08	3"	35 - 95
38-8025-09	4"	35 - 95
38-8025-10	5"	35 - 95
38-8025-11	6"	35 - 95

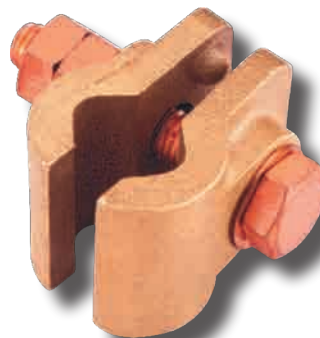


GROUND ROD CLAMPS

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

Split Connector Clamp

Type 'L'

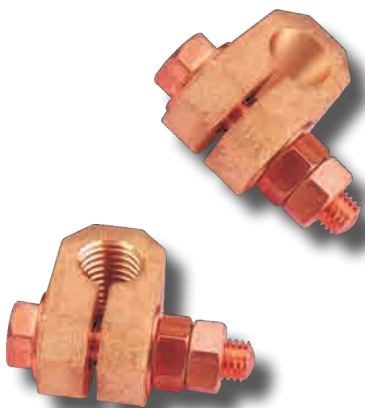
Used with threaded and unthreaded rods, suitable for connecting ground rods with cable lugs.

Rod to Cable Lug Clamp - Type 'B'

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 'B'

Catalog #	Thread Dia
38-8040-07	9/16"
38-8040-08	5/8"
38-8040-09	3/4"



EARTH BONDS

RWP Bond

Rainwater Pipe Bonds are used for bonding tapes to rainwater pipes and hand rails, etc...

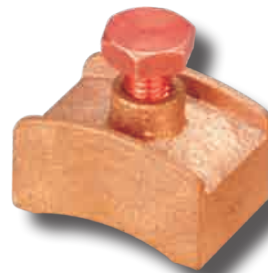
RWP Bond		
Catalog #	Tape Width (mm)	Bolt Size
38-8041-01	25.0	M10



Watermain Pipe Bond

These types of bonds are used for bonding pipes into the earthing or lightning protection systems. thermOweld® watermain pipe bonds are used for bonding tape to large diameter pipes.

Watermain Pipe Bond	
Catalog #	Tape Width (mm)
38-8042-01	25.0



Tower Earth Clamp Single Plate

Tower Earth Clamps are designed for bonding copper conductors to metal surfaces.

Tower Earth Clamp Single Plate			
Catalog #	Conductor Range (mm)	Channel Thickness (mm)	Bolt Size
38-8043-01	16 - 70	10	M10
38-8043-02	70 - 120	10	M10
38-8043-03	120 - 185	10	M12
38-8043-04	185 - 240	10	M12

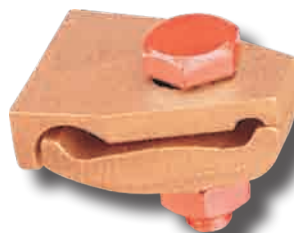


EARTH BONDS

Tower Earth Clamp Double Plate

Tower Earth Clamps are designed for bonding copper conductor to metal surfaces.

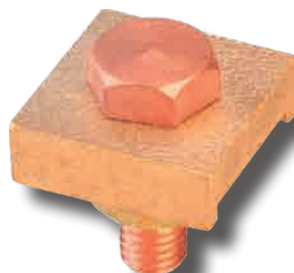
Tower Earth Clamp Double Plate			
Catalog #	Conductor Range (mm)	Channel Thickness (mm)	Bolt Size
38-8044-01	16 - 70	10	M10
38-8044-02	70 - 120	10	M10
38-8044-03	120 - 185	10	M12
38-8044-04	185 - 240	10	M12



B Bond

B Bonds are used for bonding tape to metal structure.

B Bond		
Catalog #	Tape Width (mm)	Bolt Size
38-8045-01	25	M10



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



EARTH BONDING POINTS

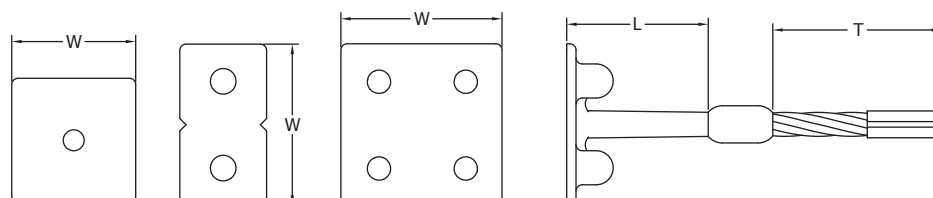
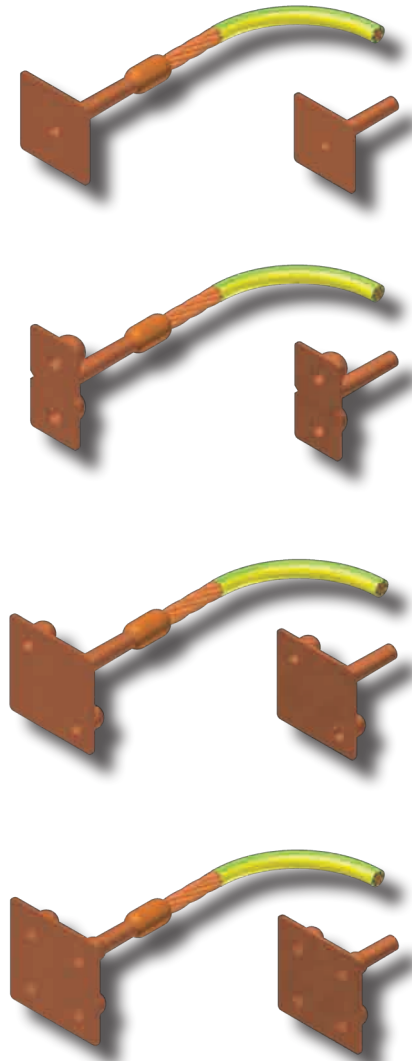
Earth Bonding Point

Earth Bonding Points are used for providing earthing continuity and a multiple bonding point. These bonding points are available with one, two and four hole connections. When cast into concrete they connect the rebar to the main earthing or lightning protection system. These are also available with a variety of tail lengths to suit different applications. The tail ends consist of 70 mm² yellow green pvc coated stranded cable which are pre welded by an exothermic welding method.

Earth Bonding Point			
Catalog #	# of Holes	L (mm)	W (mm)
38-8047-01	1	77	49
38-8047-02	2	71	69
38-8047-03	4	80	63

Bonding Point With Tail				
Catalog #	# of Holes	L (mm)	W (mm)	T (mm)
38-8048-01	1	76	40	500
38-8048-02	2	76	79	500
38-8048-03	2	76	79	1000
38-8048-04	2	76	79	1500
38-8048-05	2	76	79	3000
38-8048-06	4	80	64	500
38-8048-07	4	80	64	1000
38-8048-08	4	80	64	3000

Bonding Point For Tape				
Catalog #	# of Holes	L (mm)	W (mm)	T (mm)
38-8049-01	2	82	54	-
38-8049-02	2	82	54	500
38-8049-03	2	82	54	1000
38-8049-04	2	82	54	1500
38-8049-05	2	82	54	3000



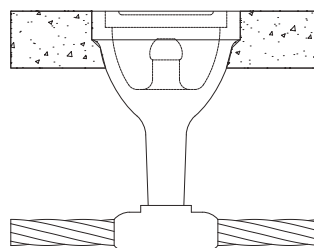
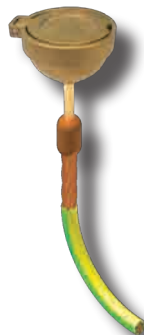
EARTH BONDS & SEALS

Static Earth Receptacle

Static Earth Receptacles are used to provide a static discharge point for aircraft, fuel tankers, etc...

These receptacles are used in open areas or anywhere a temporary earthing point may be required such as airfields or petrol stations. These are also available with welded tails of different length.

Static Earth Receptacle	
Catalog #	T
38-8050-01	-
38-8050-02	500
38-8050-03	1000
38-8050-04	1500
38-8050-05	3000

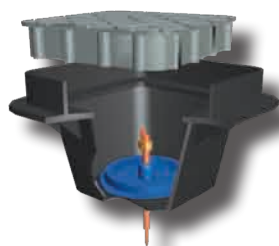


Ground Rod Seals

Ground Rod Seals are fitted when the earth rod connection is below the water level and where there is a possibility of water entering the inspection pit from the ground such as in a basement.

This seal is used in conjunction with the heavy duty earth housing.

Ground Rod Seal
Catalog #
38-8051-01

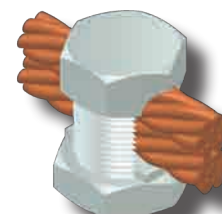
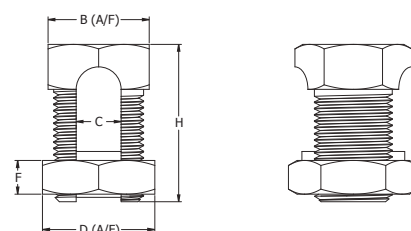
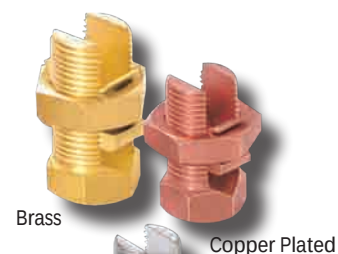


SPLIT BOLTS & CRIMPS

Split Bolt Connectors / Line Taps

Split Bolt Connectors are used to couple a range of Stranded or Solid circular Conductors. No specialized tool is required for installation.

Split Bolt Connectors / Line Taps								
Catalog # (Brass)	Catalog # (Copper Plated)	Catalog # (Tin Plated)	Size (mm ²)	H (mm)	C (mm)	B A/F (mm)	D A/F (mm)	F
38-8052-01	38-8052-21	38-8052-41	6	19.85	4.00	12.70	13.35	4.80
38-8052-02	38-8052-22	38-8052-42	10	26.75	4.70	12.70	19.00	5.60
38-8052-03	38-8052-23	38-8052-43	16	26.00	5.70	12.70	19.00	5.60
38-8052-04	38-8052-24	38-8052-44	25	28.00	7.30	16.00	19.00	5.60
38-8052-05	38-8052-25	38-8052-45	35	35.00	7.80	18.50	24.00	6.35
38-8052-06	38-8052-26	38-8052-46	50	42.00	9.70	24.10	27.20	8.65
38-8052-07	38-8052-27	38-8052-47	70	44.50	11.50	24.10	27.20	8.65
38-8052-08	38-8052-28	38-8052-48	95	50.00	14.40	26.50	35.40	9.40
38-8052-09	38-8052-29	38-8052-49	120	57.50	16.20	30.00	35.40	12.00
38-8052-10	38-8052-30	38-8052-50	150	57.50	16.20	30.00	35.40	12.00
38-8052-11	38-8052-31	38-8052-51	185	57.50	18.20	31.75	38.00	12.00
38-8052-12	38-8052-32	38-8052-52	240	72.50	22.00	40.00	48.20	14.25
38-8052-13	38-8052-33	38-8052-53	300	72.50	24.00	42.00	50.00	14.25
38-8052-14	38-8052-34	38-8052-54	400	76.50	26.00	48.00	56.00	16.00
38-8052-15	38-8052-35	38-8052-55	500	80.00	30.00	55.00	65.00	16.00

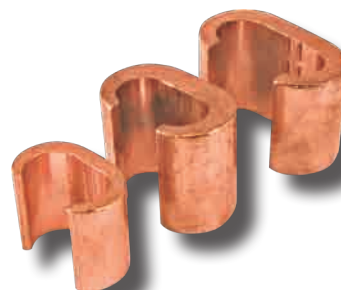


Crimp Connections

Type 'C'

"C" Crimp Connectors are used to produce very robust joints. They are ideal for use in situations where exothermic welding is not appropriate and periodic disconnection is not required. These are used for parallel or Tap Connections of Copper Cables. Hydraulic Crimping tool with special dies are required for installation.

Crimp Connections - Type 'C'		
Catalog #	Main Conductor (mm ²)	Conductor Range (mm ²)
38-8053-01	25	16 - 25
38-8053-02	35	25 - 35
38-8053-03	50	16 - 25
38-8053-04	50	35 - 50
38-8053-05	70	25 - 35
38-8053-06	70	50 - 70
38-8053-07	95	35 - 50
38-8053-08	95	70 - 95
38-8053-09	120	50 - 70
38-8053-10	120	95 - 120
38-8053-11	150	70 - 95
38-8053-12	150	120 - 150
38-8053-13	185	95 - 120
38-8053-14	185	150 - 185
38-8053-15	240	120 - 150
38-8053-16	240	185 - 240



FLEXIBLE BONDS & CLAMPS

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.



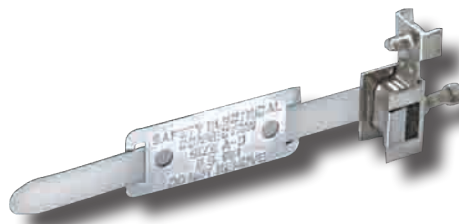
Flexible Braid Bond				
Catalog #	mm ²	Center to Center Dist. of Fixing Hole (mm)	Braid Dimension (mm)	Hole Size (mm)
38-8054-01	4	105	6 x 1.5	6
38-8054-02	70	150	25 x 3.5	12
38-8054-03	70	200	25 x 3.5	12
38-8054-04	70	300	25 x 3.5	12
38-8054-05	70	400	25 x 3.5	12

Earth Clamps

Earth Clamps are used to warn the open/close circuit of an earthing system. These are also used during maintenance work. The label contains "SAFETY ELECTRICAL CONNECTION SIZE 12mm - 330mm, BS: 951 DO NOT REMOVE". It has a provision for attaching earthing cable terminal to the clamp.

Label in other languages can be made to order

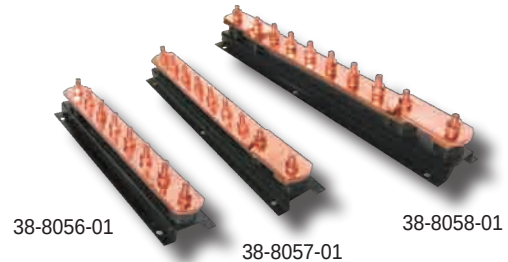
Earth Clamps			
Catalog #	Length (mm)	Size	Pipe Dia. (mm)
38-8055-01	152	14-1	12 - 32
38-8055-02	222	14-2	32 - 50
38-8055-03	330	14-3	50 - 75
38-8055-04	152	15-1	12 - 32
38-8055-05	222	15-2	32 - 50
38-8055-06	330	15-3	50 - 75



EARTH BARS & DISCONNECTION LINKS

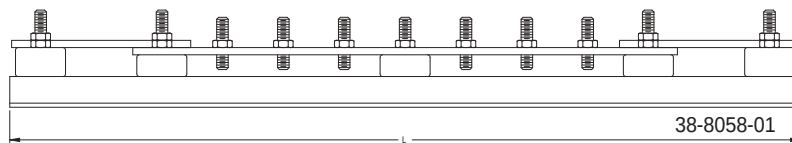
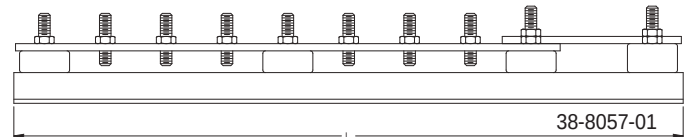
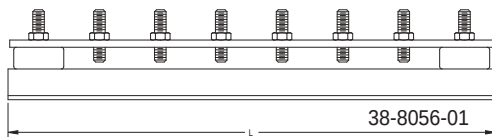
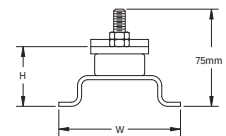
Earth Bars & Disconnection Links

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.

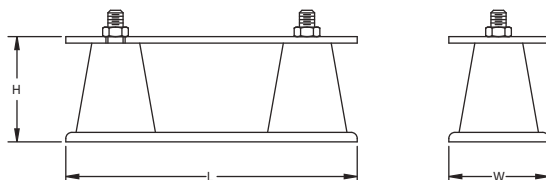


Other sizes and variations can be made to order.

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



38-8059-01

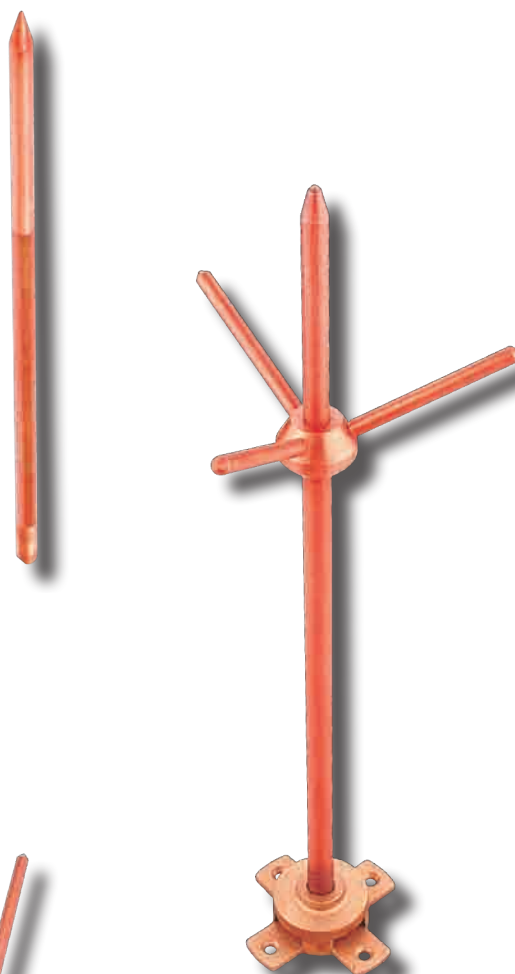
TAPER POINTED AIR RODS

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 effectiveness.

Taper Pointed Air Rods have a taper of less than 5 Deg. on one side for a perfect taper fit with multipoints. On the other side, they have suitable threads for fixing into terminal Base, Flat Saddle, Ridge Saddle, Air Rod Base, Rod Brackets and Air Rod Couplings.

Taper Pointed Air Rods				
Catalog #	Rod Length (mm)	Rod Dia (mm)	Thread Dia	Material
38-8060-01	500	15	16 mm	Copper
38-8060-02	1000	15	16 mm	Copper
38-8060-03	1200	15	16 mm	Copper
38-8060-04	1500	15	16 mm	Copper
38-8060-05	2000	15	16 mm	Copper



MultiPoint - Taper

Suitable only with copper taper pointed air rods.

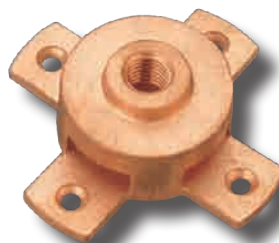
MultiPoint - Taper
Catalog #
38-8062-00



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



AIR TERMINALS & ATTACHMENTS

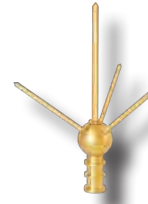
MultiPoint with Elevation Rod

thermOweld® has several options for lightning arrestors and multipoint with elevation rods as an economical option to suit different climatic conditions. Several Designs are available in Multipoint.

MultiPoint		
Catalog #	Thread Dia	Material
38-8062-01	5/8"	(A) Copper
38-8062-02		(B) Brass
38-8062-03		(C) Copper Plated
38-8062-04		(D) Gun Metal - Knife Type
38-8062-05		(E) Copper - Knife Type
38-8062-06	3/4"	(A) Copper
38-8062-07		(B) Brass
38-8062-08		(C) Copper Plated
38-8062-09		(D) Gun Metal - Knife Type
38-8062-10		(E) Copper - Knife Type



Copper
(A)



Brass (A)
Copper Plated (C)



Gun Metal - Knife Type
(D)



Copper - Knife Type
(E)

Elevation Rod				
Catalog #	Rod Length (mm)	Rod Dia (mm)	Thread Dia	Material
38-8063-01	500	15	16 mm	Copper
38-8063-02	1000	15	16 mm	Copper
38-8063-03	1300	15	16 mm	Copper
38-8063-04	800	17.2	3/4"	Copper
38-8063-05	1300	17.2	3/4"	Copper
38-8063-06	500	15	16 mm	Aluminum
38-8063-07	1000	15	16 mm	Aluminum
38-8063-08	1300	15	16 mm	Aluminum
38-8063-09	800	17.2	3/4"	Aluminum
38-8063-10	1300	17.2	3/4"	Aluminum



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.

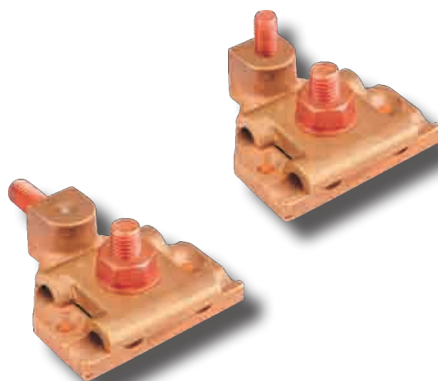
Flat Saddle - Type 'C'			
Catalog #	Conductor Size (mm)	Rod Dia (mm)	Thread Dia
38-8065-01	50 - 70	16	16 mm
38-8065-02	95	16	16 mm



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)	Thread Dia
38-8066-01	Vertical	8	10 mm
38-8066-02	Horizontal	8	10 mm



LIGHTNING PROTECTION PRODUCTS (Metric)

SADDLES & ATTACHMENTS

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



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 mm ²
38-8068-03	15	16 mm	95 mm ²
38-8068-04	14.2	5/8"	3 x 25 mm
38-8068-05	14.2	5/8"	50 - 70 mm ²
38-8068-06	14.2	5/8"	95 mm ²
38-8068-07	17.2	3/4"	3 x 25 mm
38-8068-08	17.2	3/4"	50 - 70 mm ²
38-8068-09	17.2	3/4"	95 mm ²

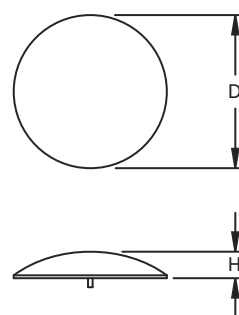


AIR TERMINALS & ATTACHMENTS

Strike Pad

Strike Pads are used where it is not possible or preferred to attach conductors on the roof or side of the building. Applications like warehouses or Multi-story parking garages, where the conductors are laid into the tarmac, or the side of the building, but not possible to run the conductor outside.

Strike Pad			
Catalog #	D (mm)	H (mm)	Maximum Tape Size (mm)
38-8069-01	110	20	30 x 6



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.

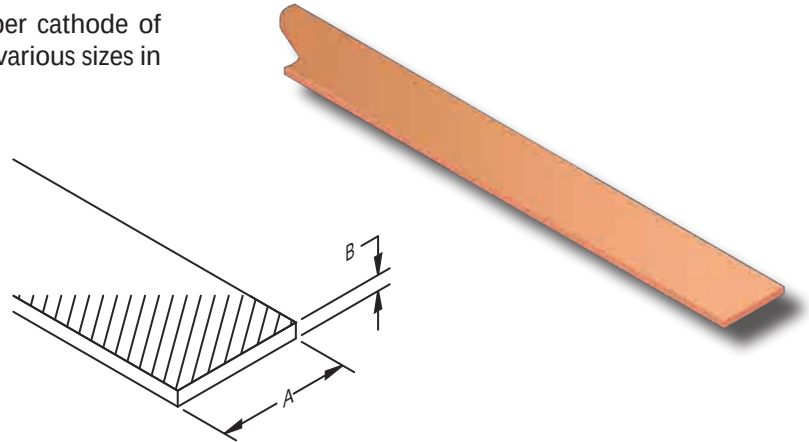
Ridge Saddle			
Catalog #	Rod Dia (mm)	Thread Dia	Maximum Tape Size (mm)
38-8070-01	15.0	M16	30 x 6
38-8070-02	14.2	5/8"	30 x 6
38-8070-03	17.2	3/4"	30 x 6



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.

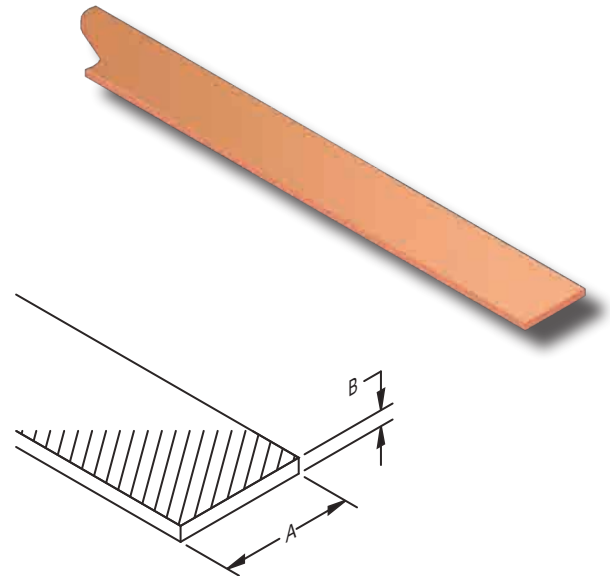
Hard Drawn Copper Bar	
Catalog #	Conductor Size (A x B) mm
38-8071-01	25 x 3
38-8071-02	25 x 6
38-8071-03	38 x 6
38-8071-04	50 x 6
38-8071-05	50 x 10
38-8071-06	75 x 6
38-8071-07	100 x 6



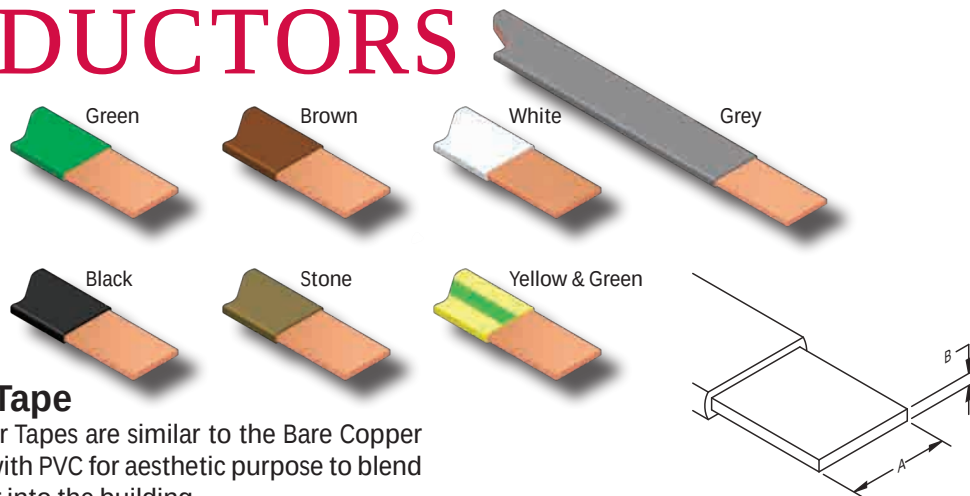
Bare Copper Tape

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 Deg. And a Maximum of 250 Deg. 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



CONDUCTORS



PVC Covered Tape

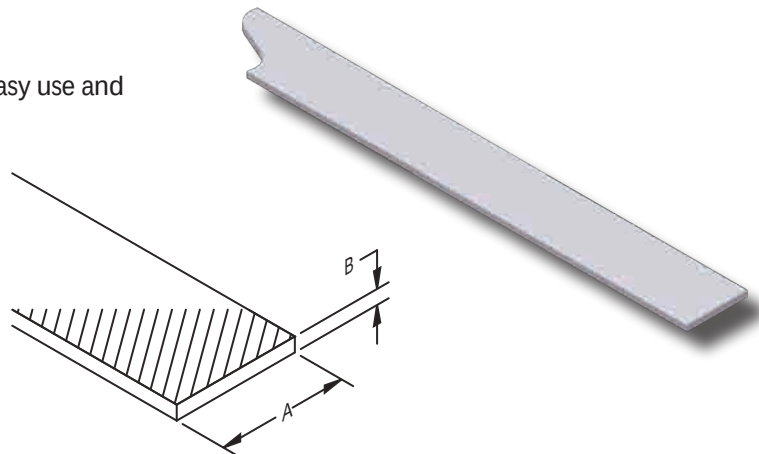
PVC Covered Copper Tapes are similar to the Bare Copper Tapes But Covered with PVC for aesthetic purpose to blend the down conductor into the building.

PVC Covered Tape							Conductor Size (A x B) mm
Catalog # (Grey)	Catalog # (Green)	Catalog # (Brown)	Catalog # (White)	Catalog # (Black)	Catalog # (Stone)	Catalog # (Yellow/Green)	
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

Tinned Copper Tape

Bare Copper Tape is Annealed and Tinned for easy use and extend the life of the conductor.

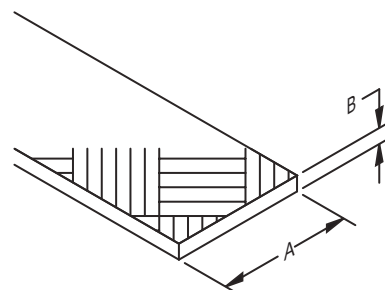
Tinned Copper Tape	
Catalog #	Conductor Size (A x B) mm
38-8074-01	25 x 3
38-8074-02	25 x 6
38-8074-03	30 x 5
38-8074-04	50 x 6



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



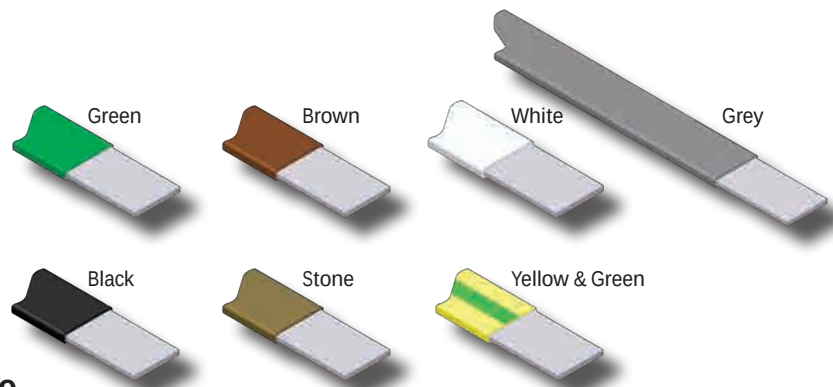
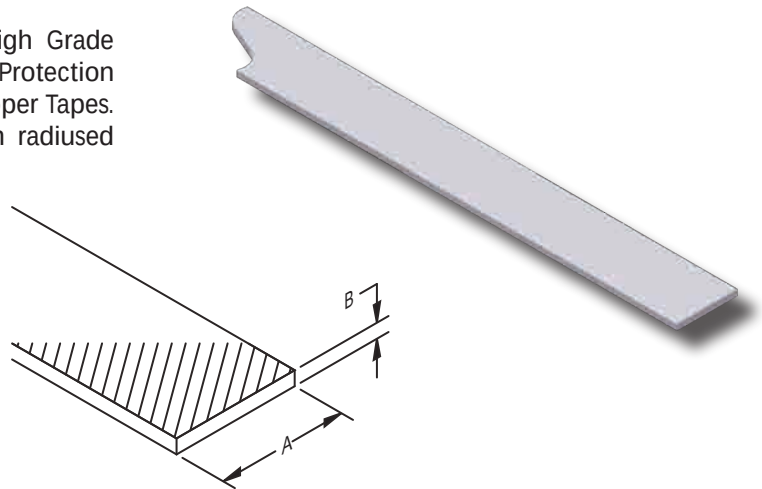
LIGHTNING PROTECTION PRODUCTS (Metric)

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.

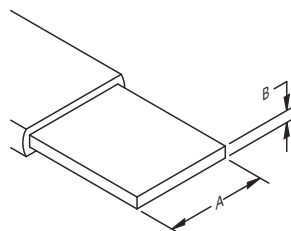
Bare Aluminum Tape	
Catalog #	Conductor Size (A x B) mm
38-8075-01	25 x 3
38-8075-02	25 x 6
38-8075-03	30 x 5
38-8075-04	50 x 6



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

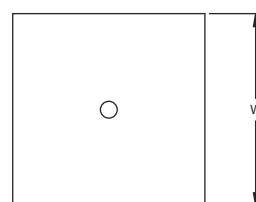
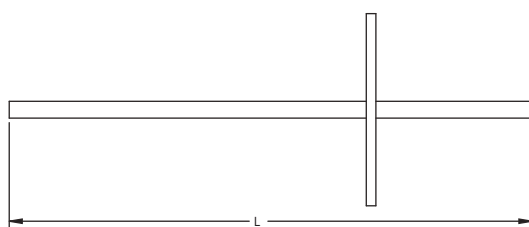
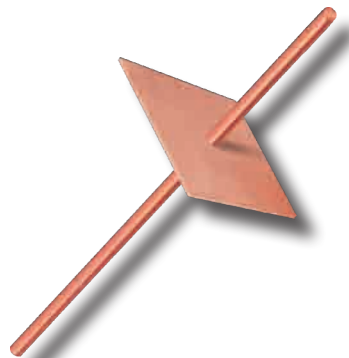


GUARDS & FLANGES

Puddle Flange

The Puddle Flange is used where the lightning conductors must pass through a waterproof membrane in roofs. The Flats are made waterproof by applying Glue, Cement, and specialized roofing materials.

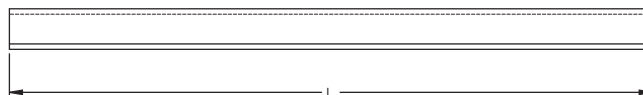
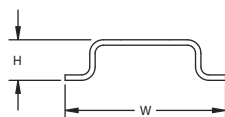
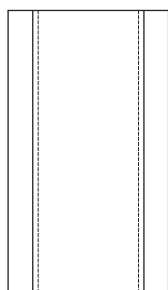
Puddle Flange			
Catalog #	L (mm)	W (mm)	Conductor
38-8081-01	600	150	Copper



Anti Vandal Guard

These are used to cover the down conductors for extra protection against accidental damage, and the Galvanisation gives a long lasting corrosion resistance.

Anti Vandal Guard		
Catalog #	Conductor Size (mm)	Size (mm) L x W x H
38-8082-01	25 x 3	2000 x 60 x 15
38-8082-02	25 x 3	3000 x 60 x 15



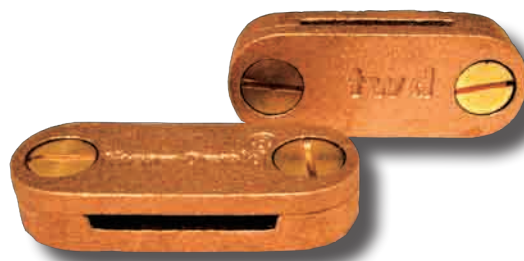
LIGHTNING PROTECTION PRODUCTS (Metric)

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
38-8084-04	31 x 3
38-8085-05	31 x 6
38-8086-06	38 x 3
38-8087-07	38 x 6
38-8087-08	50 x 3
38-8087-09	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.

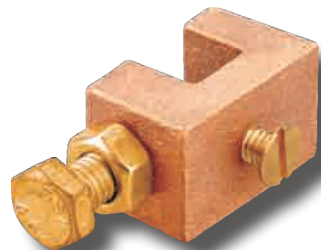
Back Plate Hold Fast Stem
Catalog #
38-8084-01



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



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



Bi-Metallic Connector - Tape to Tape

Bi-Metallic 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 Bi-Metallic 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



LIGHTNING PROTECTION PRODUCTS (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

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.



Joining Clamp	
Catalog #	Conductor Size (mm ²)
38-8101-01	35 - 50
38-8101-02	70 - 95
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.



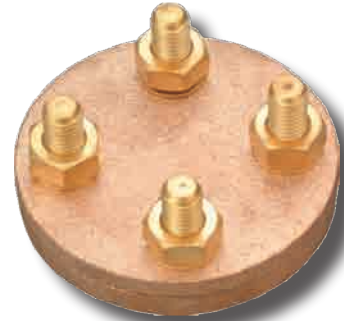
One Hole Clip	
Catalog #	Conductor Size (mm ²)
38-8102-01	25
38-8102-02	35
38-8102-03	50
38-8102-04	70
38-8102-05	95
38-8102-06	120
38-8102-07	150
38-8102-08	185
38-8102-09	240
38-8102-10	300

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.

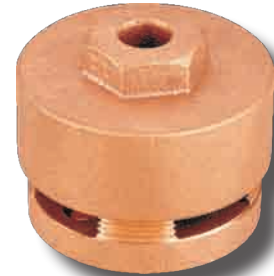
Plate Type Test Clamp	
Catalog # (Black)	Conductor Size (mm)
38-8091-01	26 x 12



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

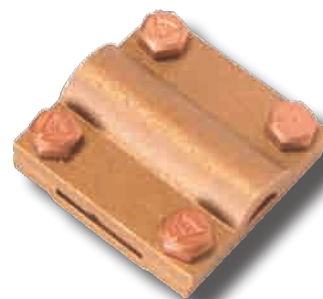


CLAMPS

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



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



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



BONDS & CLAMPS

Tee Clamp

Tee Clamps are suitable for forming tee joints of circular conductors.

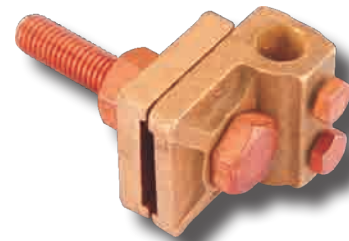
Tee Clamp	
Catalog #	Conductor Size (mm)
38-8098-01	8 Dia or 35 - 50 sq



Pipe Bond

Pipe Bonds are used for bonding Handrails, reinforced bars, pipes, with solid conductors.

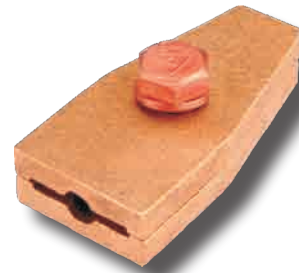
Pipe Bond		
Catalog #	Conductor Size (mm)	Tape Size (mm)
38-8095-01	8 Dia or 35 - 50 sq	50 x 200



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



BONDS & CLAMPS

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



Metalwork Bonding Clamp

One piece Metalwork Bonding Clamps are designed for bonding round conductors to the metal surfaces. The bond can be fastened by bolts and nuts or by welding onto the metal surface.

Metalwork Bonding Clamp	
Catalog #	Conductor Size (mm)
38-8104-01	8 Dia or 35 - 50 sq



LIGHTNING PROTECTION PRODUCTS (Metric)

TEST & JUNCTION CLAMPS

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



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

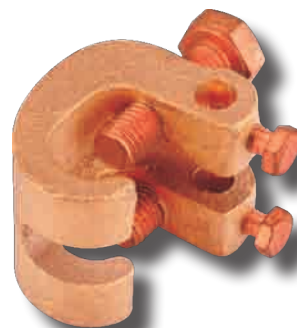


CLAMPS & PROTECTION

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



Petrolatum Tape

This is a waterproof tape for wrapping joints to provide protection against corrosion.

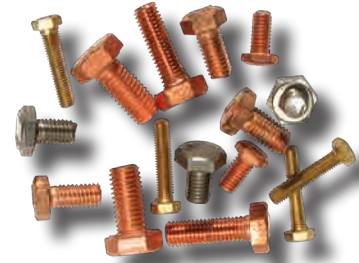
Petrolatum Tape	
Catalog #	Pack
38-8106-01	Roll



Hex Head Set Screws

These screws are made of standard Hex heads to suit the standard spanners and torque wrenches

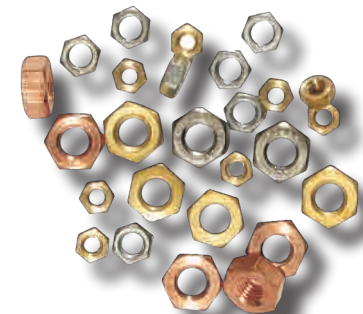
Hex Head Set Screws				
Catalog # (Naval Brass)	Catalog # (Silicon Bronze)	Catalog # (Phosphor Bronze)	Catalog # (Stainless Steel)	Size (mm)
38-8107-01	38-8108-01	38-8109-01	38-8110-01	8 x 25
38-8107-02	38-8108-02	38-8109-02	38-8110-02	10 x 25
38-8107-03	38-8108-03	38-8109-03	38-8110-03	10 x 35
38-8107-04	38-8108-04	38-8109-04	38-8110-04	12 x 35



Hexagon Nuts

These nuts are suitable with the set screws to form a strong and rigid mechanical connection.

Hexagon Nuts				
Catalog # (Naval Brass)	Catalog # (Silicon Bronze)	Catalog # (Phosphor Bronze)	Catalog # (Stainless Steel)	Size (mm)
38-8111-01	38-8112-01	38-8113-01	38-8114-01	8
38-8111-02	38-8112-02	38-8113-02	38-8114-02	10
38-8111-03	38-8112-03	38-8113-03	38-8114-03	12



Countersunk Set Screws

These screws can be fastened by standard Flat Screw Drivers.

Countersunk Set Screws	
Catalog # (Naval Brass)	Size (mm)
38-8115-01	4 x 6
38-8115-02	4 x 8
38-8115-03	5 x 8
38-8115-04	5 x 10
38-8115-05	6 x 30



Flat Head Rivets

These Flat Head Rivets are used for making lattice.

Flat Head Rivets	
Catalog # (Naval Brass)	Size (mm)
38-8116-01	5 x 8
38-8116-02	5 x 10
38-8116-03	5 x 12
38-8116-04	5 x 15
38-8116-05	5 x 20
38-8116-06	6 x 12
38-8116-07	6 x 15
38-8116-08	6 x 20

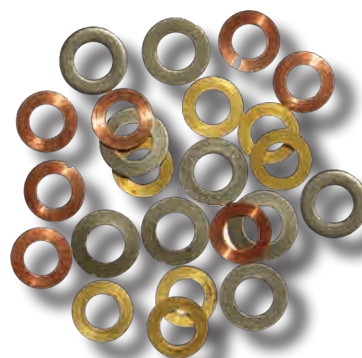


ACCESSORIES

Plain / Flat Washers

These Plain or Flat Washers are used in conjunction with bolts and nuts, and can be used more than once depending upon the junction requirement or use.

Plain / Flat Washers			
Catalog # (Naval Brass)	Catalog # (Phosphor Bronze)	Catalog # (Stainless Steel)	Size (mm)
38-8117-01	38-8118-01	38-8119-01	6
38-8117-02	38-8118-02	38-8119-02	8
38-8117-03	38-8118-03	38-8119-03	10
38-8117-04	38-8118-04	38-8119-04	12



Spring Washers

These Spring Washers are used in conjunction with Bolts, Nuts, and Flat Washers, and can be used more than one depending upon the junction requirement or use.

Spring Washers			
Catalog # (Naval Brass)	Catalog # (Phosphor Bronze)	Catalog # (Stainless Steel)	Size (mm)
38-8120-01	38-8121-01	38-8122-01	6
38-8120-02	38-8121-02	38-8122-02	8
38-8120-03	38-8121-03	38-8122-03	10
38-8120-04	38-8121-04	38-8122-04	12

Plastic Wall Plugs

These Plastic wall plugs are used to fasten the components to the building surface. Use the components masonry drill bit for the plug.

Plastic Wall PLUGs	
Catalog #	Size (mm)
38-8123-01	10
38-8123-02	12



Round Head Nails

These nails are made of copper, and should be hammered with care.

Round Head Nails	
Catalog #	Size (mm)
38-8126-01	25
38-8126-02	35
38-8126-03	50



Countersunk Wood Screws

These Screws are used in conjunction with plastic plugs to form a perfect attachment.

Flat Head Rivits		
Catalog # (Naval Brass)	Catalog # (Stainless Steel)	Size (mm)
38-8124-01	38-8125-01	25 x 8
38-8124-02	38-8125-02	30 x 8
38-8124-03	38-8125-03	30 x 10
38-8124-04	38-8125-04	35 x 10
38-8124-05	38-8125-05	35 x 12
38-8124-06	38-8125-06	45 x 10
38-8124-07	38-8125-07	45 x 12



TROUBLE SHOOTING TIPS

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

Continued on next page

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 to fast.	Improper cleaning of mold.	Use mold cleaner, soft natural bristle brush or clean rag to clean mold between shots. Do not use wire brush or screwdriver on molds.
	Bent or out of round cable causes chipping and premature wear of the mold.	Use caution when closing mold. Do not force mold shut around bent, twisted or out of round conductors.
Poor weld to ground rod.	Weight of mold not supported during reaction causing mold to slip when cable melts.	Use locking pliers on ground rod under mold to support the weight of the mold during the reaction.
	Moisture or contaminant on cable or ground rod.	Pre-heat conductors with propane torch then use a clean wire brush on conductors to remove any residue left on conductors.
Weld will not stick to steel surface.	Improperly cleaned area on steel.	An area larger than the weld area should be cleaned down to bright clean metal.
	Moisture or contaminant on cable or steel surface.	Pre-heat conductors with propane torch then use a clean wire brush on conductors to remove any residue left on conductors.
	Cable is improperly positioned in mold, blocking the flow of weld metal.	Position cable in mold in accordance with directions for mold. If directions are not available, position top of cable in the center of where the liquid weld metal hits the steel.
Weld will not stick to cast iron surface.	All of the causes listed under welding to steel surface also apply to this section.	
	Not using CI (Cast Iron) powder.	Specify "CI" behind cartridge when order powder (i.e. 25 CI).
Cable pulls out of mold when it is red.	Cables are either twisted or under tension.	Use 38-0330-00 cable clamp or other method to remove tension. Cut out severely twisted cable.

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#15CI	168	27-7027-"L"	137	38-0304-00	169	38-4244-00	52
#15CP	118 & 168	27-7028-"L"	137	38-0305-00	169	38-4245-00	52
#15CPS	118	27-7029-"L"	137	38-0306-00	169 & 170	38-4247-00	52
#15R	168	27-7030-"L"	137	38-0307-00	169	38-4248-00	52
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#25R	168	27-7034-"L"	137	38-0310-00	129	38-4294-00	53 & 193
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#32CP	168	27-7037-"L"	137	38-0329-00	129 & 171	38-4297-00	53 & 193
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#65CP	168	27-7042-12	139	38-3607-00	51	38-4521-††	77
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#115R	168	27-7049-13	140	38-3662-07	170	38-4529-††	77
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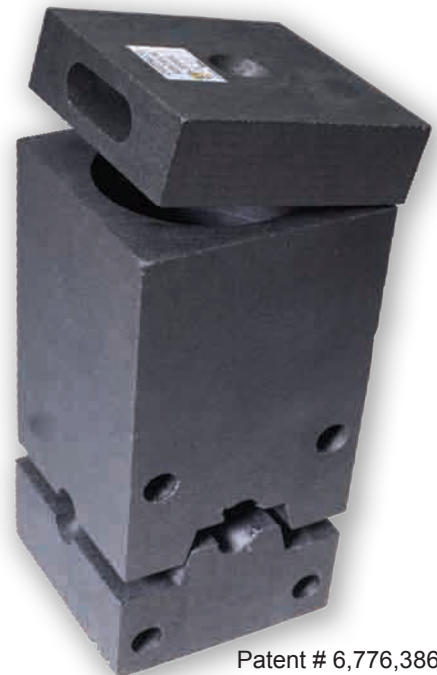
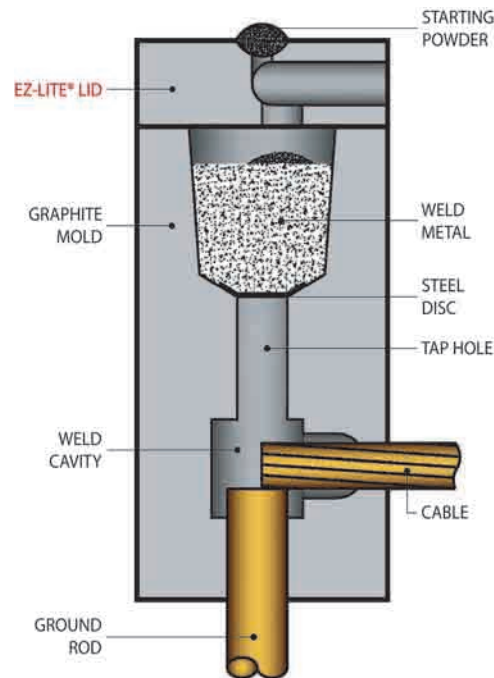
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- EZ to ignite with the top ignition hole.
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