

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 →

Data Table →

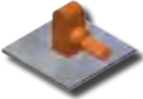
Lead Time (In Days) →

Data Table →

Additional Information →

Contact Information →

AWG Conductors
MOLDS



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

MOLDS FOR AWG CONDUCTORS

Cable Size	Standard Connection					Heavy Duty Connection				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/0	M-644	4	90	B-106	2	M-644-H	4	150	B-106	2
2/0	M-645	4	90	B-106	2	M-645-H	4	150	B-106	2
3/0	M-646	4	115	B-106	2	M-646-H	4	200	B-106	2
4/0	M-647	4	115	B-106	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
AWG Conductors**

MOLDS FOR AWG CONDUCTORS
CS-8



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	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	45	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 Igniter (see chart for correct handles)

1 = Sold complete with frame

38-0309-00 = Flint Igniter

• Other recommended accessories:

40-0319-01 = Mold Cleaner for cartridge sizes #15-#65 (Price Key 3, CS-8 Molds Only)

38-0302-00 = 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)

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41

2

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TABLE OF CONTENTS

Description	Page #
Section 1: Technical Information.....	5-20
Section 2: Molds for use with AWG Conductors & Bus Bar.....	21-72
Section 3: Ground Plates & Aircraft Grounding Receptacles.....	73-79
Section 4: Molds for use with Copper-Clad Steel Conductors.....	81-99
Section 5: Molds for use with Lightning Protection Conductors.....	101-117
Section 6: Products for Cathodic Protection.....	119-132
Section 7: Products for Rail.....	133-142
Section 8: Grounding Products.....	143-166
Section 9: Weld Metal, Handle Clamps and Accessories.....	167-174
Section 10: Molds for use with Metric Conductors.....	175-206
Section 11: Earthing & Lightning Protection Products (Metric).....	209-248
Section 12: Trouble Shooting Tips.....	249-250
Section 13: Index.....	251-272

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 and 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 carriers 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 of 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

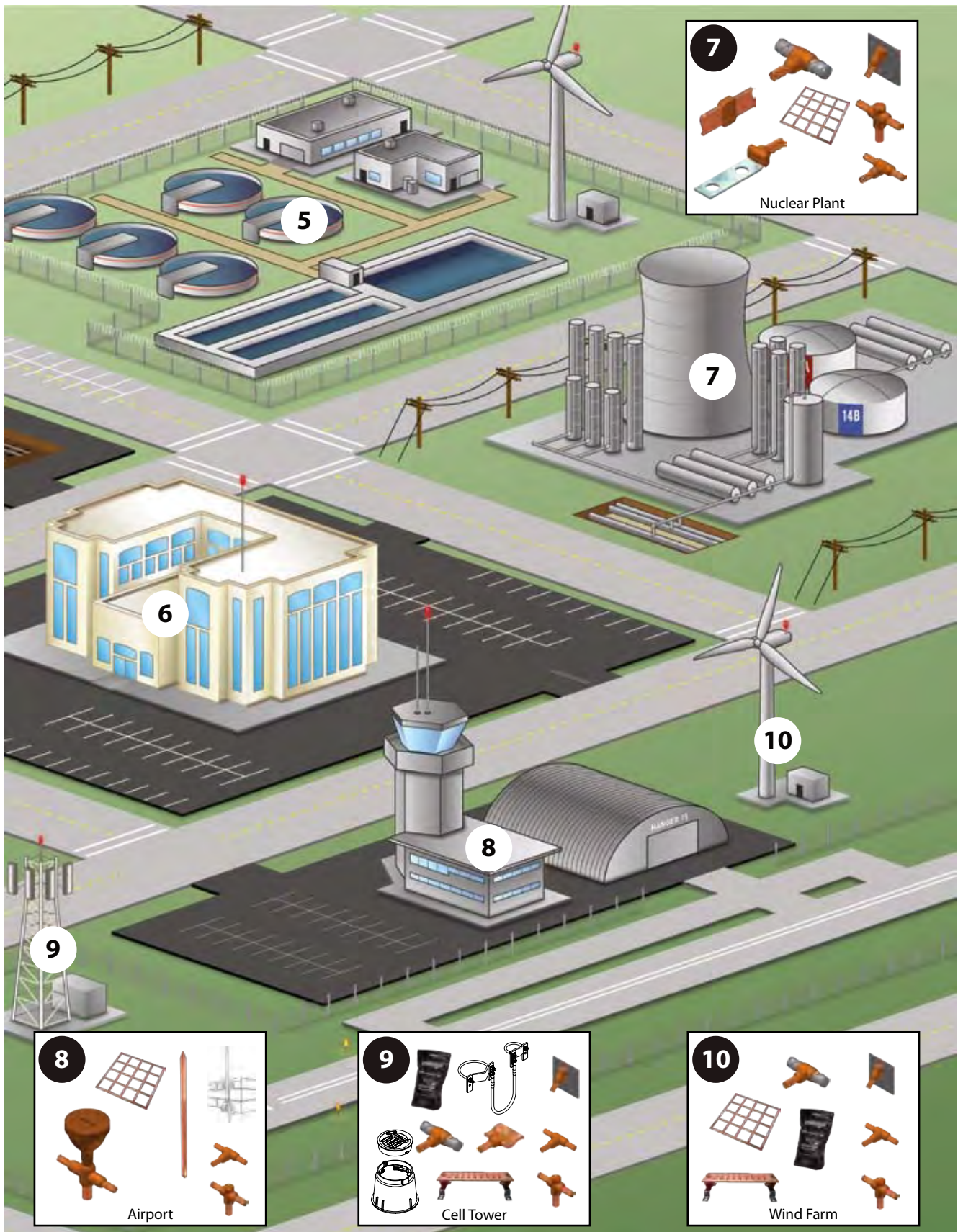
Technical Information

Description	Page #
1.1 Infrastructure Applications.....	6-7
1.2 The thermOweld® Process	8
1.3 Grounding	9
1.4 Quick Overview	10-11
1.3 Making a thermOweld® Connection.....	12-13
1.4 Conductor Information.....	14-16
1.5 How to Order	17
1.6 Weld Selector Charts.....	18-20

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 off-set 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.

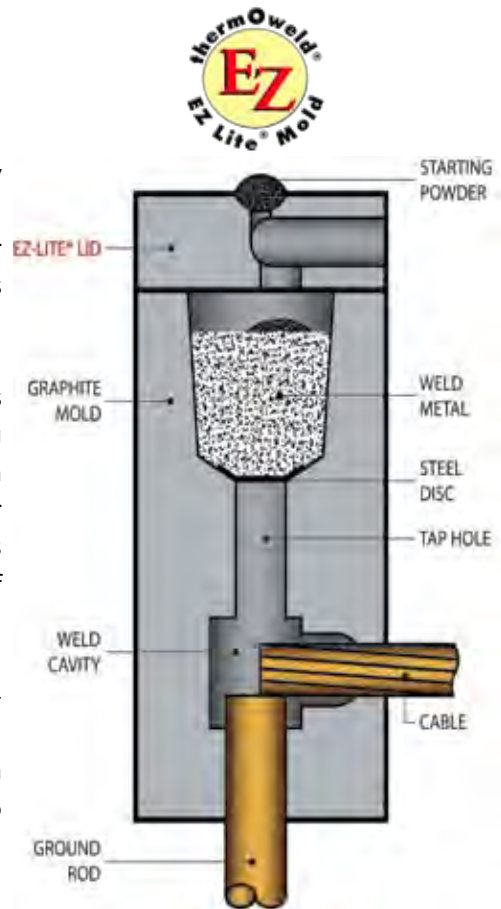
The thermOweld® process creates a permanent, homogenous and molecular bond that cannot loosen or corrode. Compared to compression connectors, split bolts, crimp connectors, brazing and other connections, the thermOweld® connection is clearly superior. In fact, a thermOweld® connection will also withstand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

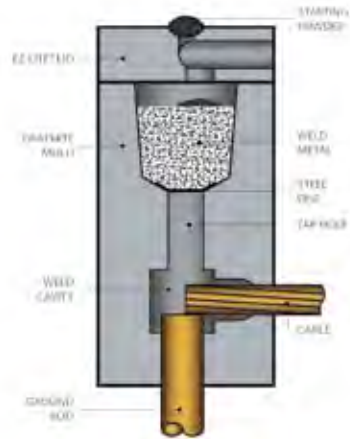
thermOweld® is a process of welding copper to copper, copper to steel and copper to ductile iron. The exothermic reaction takes place in a semi-permanent graphite mold with a special formula of copper oxide and aluminum.

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 flint ignitor. This innovative process eliminates the need for a mold, handle clamps, and frames.



SUPERIOR WELD METAL

thermOweld® weld metal is packaged in moisture resistant plastic cartridges that have tight fitting caps. These cartridges and the necessary steel 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.

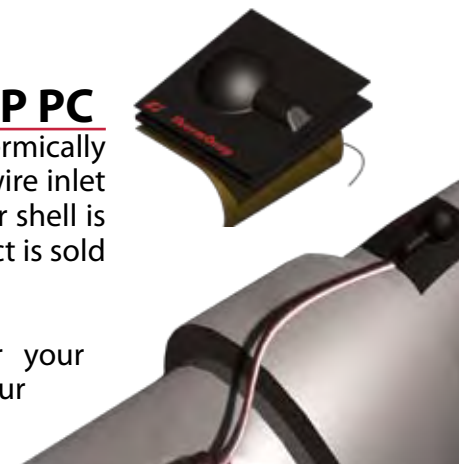
This system is currently available in all of thermOweld's standard configurations that use 200 gram or less cartridge. To order molds, replace the "M" in the mold number with "LE" (ex M-241 becomes LE-241). To order weld metal, place prefix "LE" in front of cartridge size (ex #115 becomes LE#115). For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

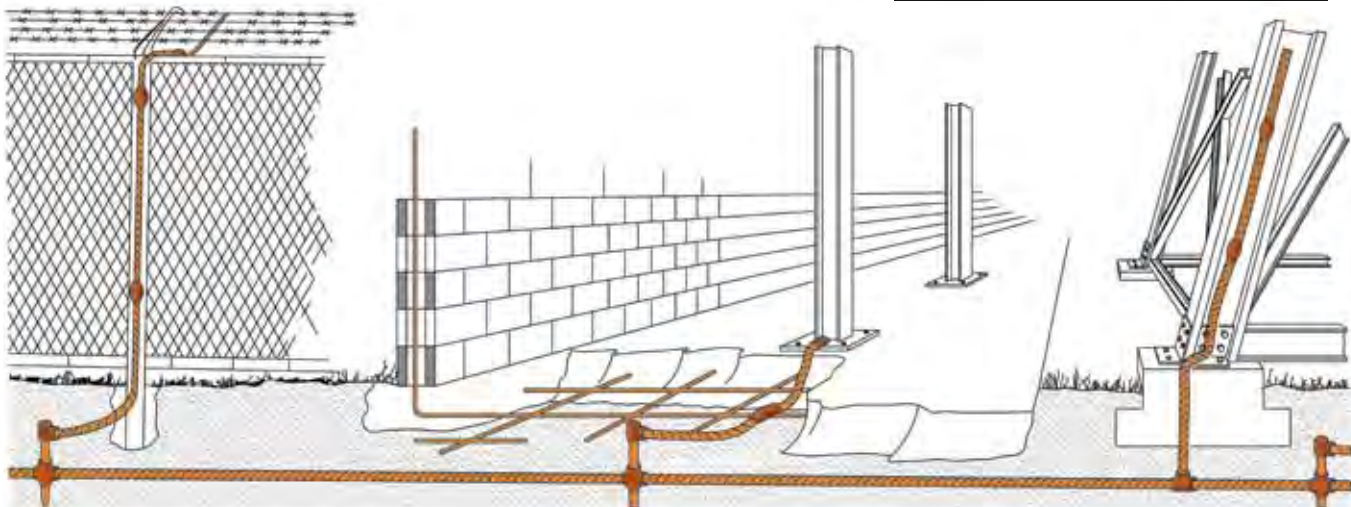
Based on ASTM
Standard Specifications

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
	4"	1,910,000	5.81
1/2"	2"	1,273,000	3.88
	3"	1,910,000	5.81
	4"	2,546,000	7.75

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 Mills	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

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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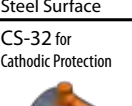
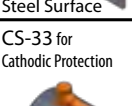
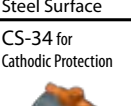
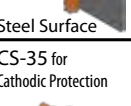
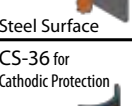
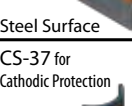
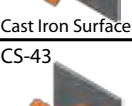
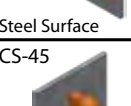
THREADED STUD OR ROD TO STEEL

RS-1 	RS-2 	RS-3 
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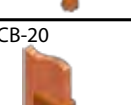
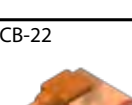
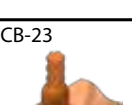
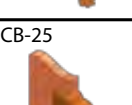
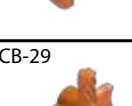
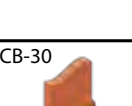
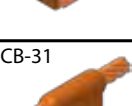
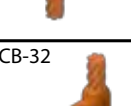
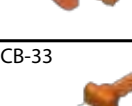
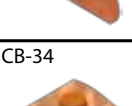
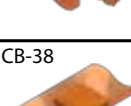
SELECTOR CHART

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 
--	--

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

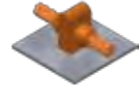
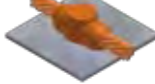
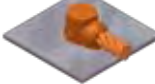
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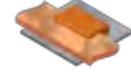
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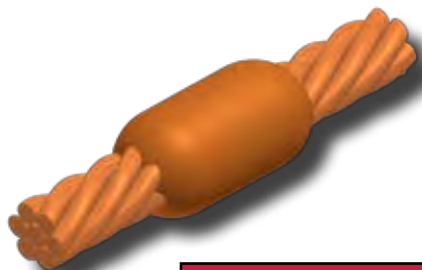
Molds for use with AWG Conductors & Bus Bar

Description	Page #
2.1 Cable to Cable Connections.....	23-31
2.2 Cable to Ground Rod Connections.....	32-38
2.3 Single Shot Connections (Cable to Ground Rod)	39
2.4 CR-18 Wire-to-Ground Kits	40
2.5 Ground Rod to Ground Rod Connections.....	41
2.6 Steel Stud to Steel Connections	41
2.7 Cable to Steel or Cast Iron Connections	42-49
2.8 Cable to Lug Connections & Copper Lugs	50-53
2.9 Prefabricated Lug Bonds	54-55
2.10 Cable to Copper Bus Bar Connections	56-62
2.11 Copper Bus Bar to Copper Bus Bar Connections	63-64
2.12 Copper Bus Bar to Steel Connections	65-66
2.13 Cable to Reinforcing Bar (Rebar) Connections	67-71
2.14 Single Shot Connections (Cable to Rebar)	72

WELD TYPE	PG #
	CC-1 23
	CC-14 23
	CC-2 24-25
	CC-4 26-27
	CC-6 28
	CC-7 29
	CC-34 30
	CC-11 31
	CR-1 32-33
	CR-2 34-35
	CR-3 36
	CR-17 37
	CR-24 38
	Single Shots 39
	RR-1 41
	RS-1 41
	RS-2 41

WELD TYPE	PG #
	CS-1 42
	CS-8 42
	CS-2 43
	CS-9 43
	CS-3 44-45
	CS-23 46
	CS-5 47
	CS-4 47
	CS-6 48
	CS-18 48
	CS-7 49
	CB-1 50
	CB-33 53
	CB-4 56
	CB-2 57
	CB-6 58
	CB-3 59

WELD TYPE	PG #
	CB-7 60
	CB-29 61
	CB-5 62
	BB-1 63
	BB-2 64
	BB-3 64
	BS-1 65
	BS-2 65
	BS-3 66
	BS-4 66
	BS-5 66
	CRE-1 67
	CRE-2 68
	CRE-3 69
	CRE-4 70
	CRE-6 71
	Rebar Single Shots 72



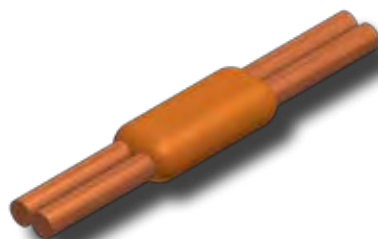
CC-1

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

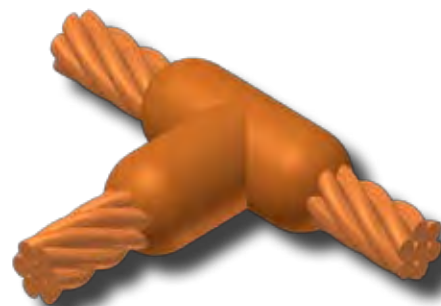
MOLDS FOR AWG CONDUCTORS						
Cable		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
#8	#8	M-5709	18†	15	40-4565-00	2
#6	#6	M-5618	18†	25	40-4565-00	2

- 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

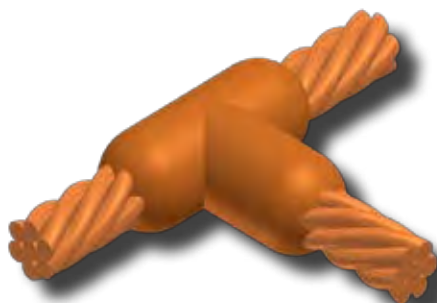
TYPE MOLDS

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	250 MCM	M-247	4	150	B-106	SDS	M-247-H	4	250	B-106	2
	4/0	M-248	4	150	B-106	2	M-248-H	4	250	B-106	2
	3/0	M-249	4	150	B-106	2	M-249-H	4	250	B-106	4
	2/0	M-250	4	90	B-106	2	M-250-H	4	150	B-106	2
	1/0	M-251	4	90	B-106	2	M-251-H	4	150	B-106	4
	#1	M-252	4	90	B-106	2	M-252-H	4	150	B-106	4
	#2	M-253	4	90	B-106	2	M-253-H	4	150	B-106	4

- 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

Section 2 - Molds
AWG Conductors

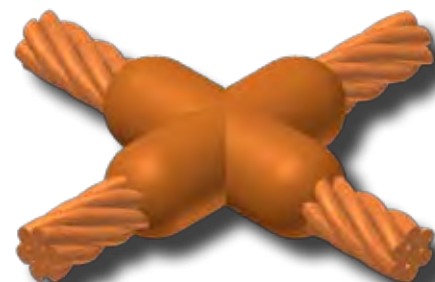
MOLDS FOR AWG CONDUCTORS											
Cable		STANDARD CONNECTION					HEAVY DUTY CONNECTION				
Run	Tap	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
300 MCM	300 MCM	M-254	4	200	B-106	2	M-254-H	5	2-150	B-107	2
	250 MCM	M-255	4	150	B-106	2	M-255-H	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

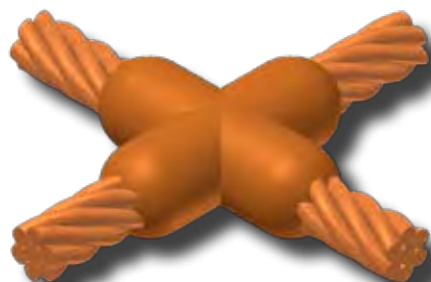
TYPE MOLDS

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

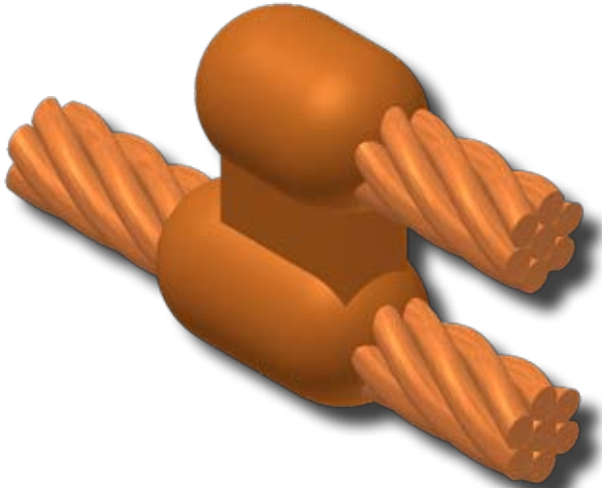
CC-6

TYPE MOLDS

Horizontal Parallel Tap

For AWG Conductors

Section 2 - Molds
AWG Conductors



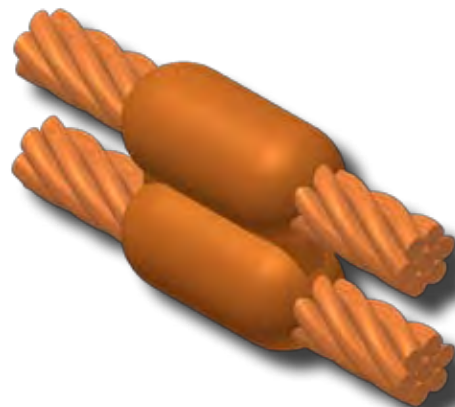
MOLDS FOR AWG CONDUCTORS						
Cable		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
#6 Sol	#6 Sol	M-1270	4	25	B-106	2
#6	#6	M-1271	4	25	B-106	2
#4	#4	M-1272	4	32	B-106	2
	#6	M-1273	4	32	B-106	2
	#6 Sol	M-1274	4	32	B-106	4
	#8 Sol	M-1275	4	32	B-106	2
#2	#2	M-1276	4	65	B-106	SDS
	#4	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
2/0	#8 Sol	M-5645	4	65	B-106	4
	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
500 MCM	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	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

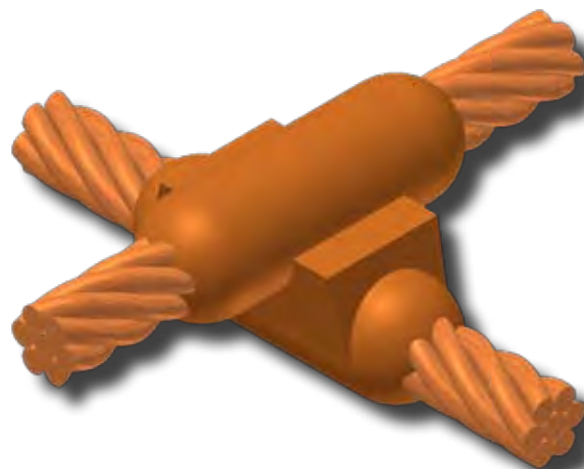
CC-11

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

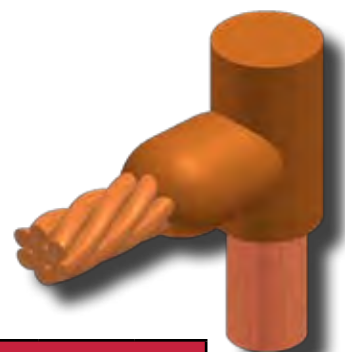


Section 2 - Molds
AWG Conductors

CR-1

TYPE MOLDS

Horizontal Cable Terminal to Ground Rod
For AWG Conductors

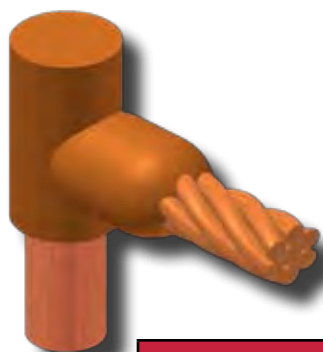


MOLDS FOR AWG CONDUCTORS											
Ground Rod Size	Cable Size	STANDARD MOLD					HEAVY DUTY CONNECTION				
		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2"	#6	M-5858	4	45	B-106	4	M-5858-H	4	65	B-106	4
	#4	M-6448	4	65	B-106	4	M-6448-H	4	90	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 suffix "-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 suffix "-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 suffix "-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 suffix "-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 suffix "-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 suffix "-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

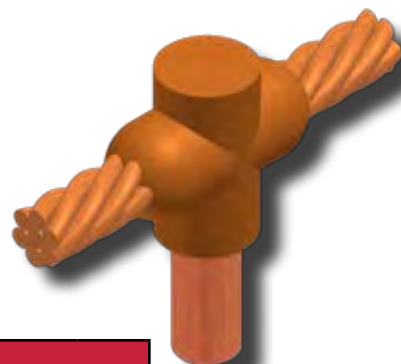
NOTES

1. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add suffix "-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 suffix "-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 suffix "-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 suffix "-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



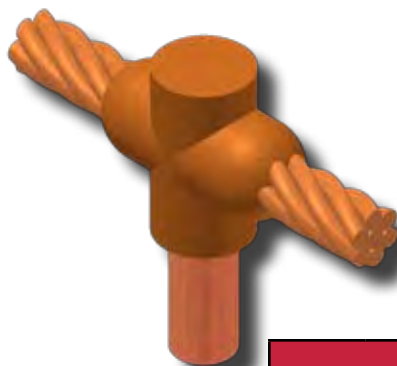
MOLDS FOR AWG CONDUCTORS

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
5/8"	300 MCM	M-544	4	200	B-106	4	M-544-H	4	2-150	B-106	4
	#6	M-5815	4	65	B-106	2	M-5815-H	4	115	B-106	4
	#4	M-5915	4	90	B-106	2	M-5915-H	4	150	B-106	4
	#2	M-545	4	90	B-106	SDS	M-545-H	4	150	B-106	2
	#1	M-546	4	90	B-106	2	M-546-H	4	150	B-106	2
	1/0	M-547	4	90	B-106	SDS	M-547-H	4	150	B-106	2
	2/0	M-548	4	115	B-106	SDS	M-548-H	4	200	B-106	2
	3/0	M-549	4	115	B-106	SDS	M-549-H	4	200	B-106	2
	4/0	M-550	4	115	B-106	SDS	M-550-H	4	200	B-106	2
	250 MCM	M-551	4	150	B-106	2	M-551-H	4	250	B-106	4
	300 MCM	M-552	4	200	B-106	2	M-552-H	5	2-150	B-107	4
	350 MCM	M-553	4	200	B-106	2	M-553-H	5	2-150	B-107	4
	500 MCM	M-555	4	250	B-106	2	M-555-H	5	2-200	B-107	2

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

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
	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
1"	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 suffix "-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

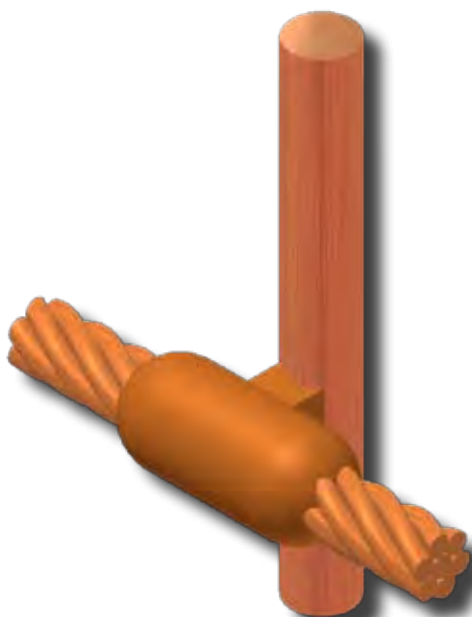
1. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add suffix "-N" to mold number, i.e. M-542-N is full 1/2" diameter ground rod or roll-threaded rod to 4/0 Str cable.
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add suffix "-N" to mold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

1. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add suffix "-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.
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add suffix "-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.
3. .682" actual diameter. For full 3/4" (.750) ground rod and roll-threaded rod, add suffix "-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.
4. .914" actual diameter. For full 1" (1.00) ground rod and roll-threaded rod, add suffix "-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 suffix "-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

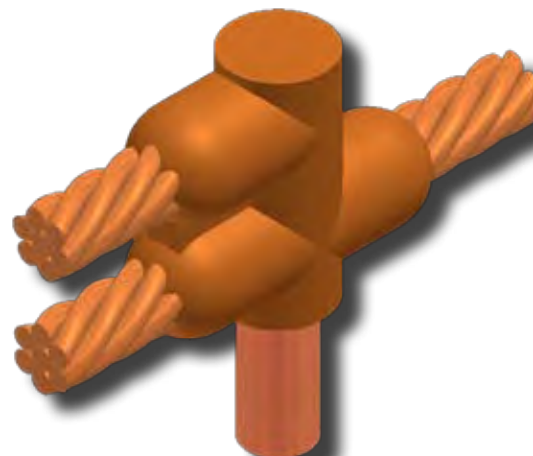
MOLDS FOR AWG CONDUCTORS						
Ground Rod Size	Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2"	#4	M-5416	4	90	B-106	4
	#2	M-6165	4	90	B-106	4
	#1	M-5830	4	90	B-106	4
	1/0	M-5940	4	115	B-106	4
	2/0	M-5850	4	150	B-106	2
	3/0	M-5833	4	200	B-106	2
	4/0	M-5380	4	200	B-106	2
5/8"	#4	M-5972	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 suffix "-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-17

TYPE MOLDS

Horizontal Run and Tap Cables to Ground Rod
For AWG Conductors



Section 2 - Molds
 AWG Conductors

NOTES

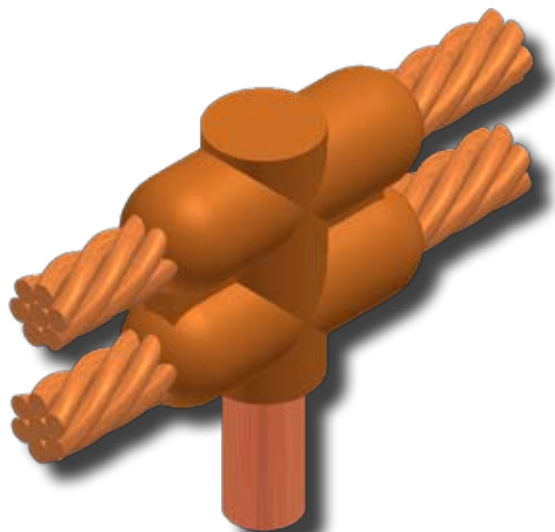
1. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add suffix "-N" to mold number, i.e. M-5380-N is full 1/2" diameter ground rod or roll-threaded rod to 4/0 Str cable.
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add suffix "-N" to mold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

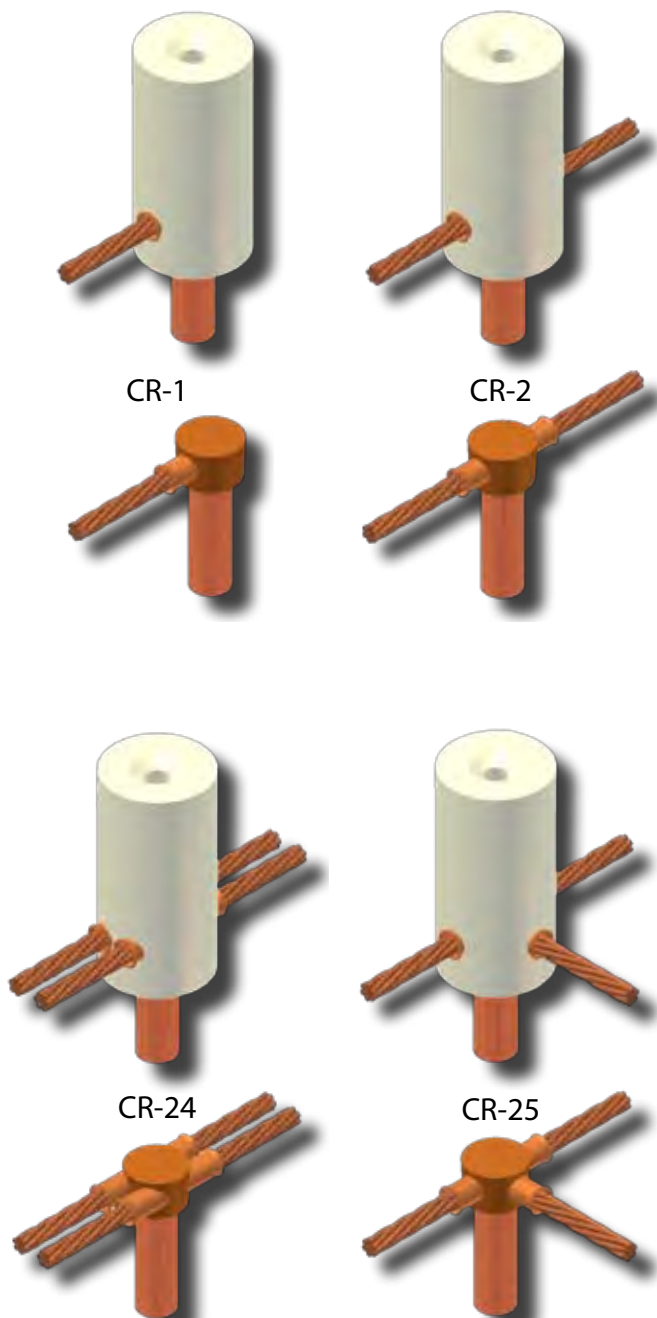
- .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add suffix "-N" to mold number, i.e. M-6766-N is full 1/2" diameter ground rod or roll-threaded rod to 4/0 Str cable.
- .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add suffix "-N" to mold 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 suffix "-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 suffix "-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 suffix "-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

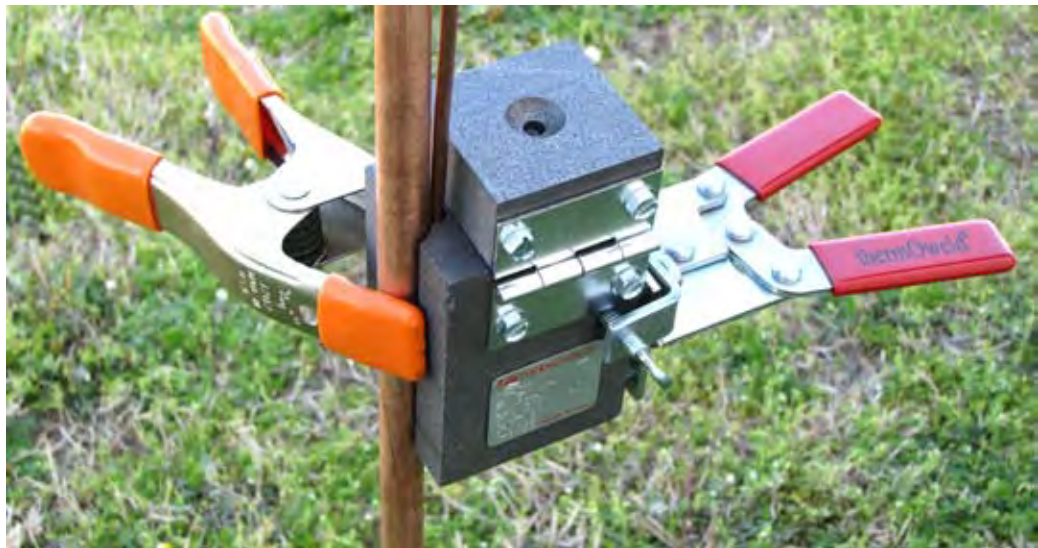
Grd Rod Size	Cable Size		Type	Mold #
	Solid	Stranded		
3/4"	#6, #8	#8	CR-1	M-2017
	#3, #4	#4, #6	CR-1	M-2018
	#1, #2	#2, #3	CR-1	M-2019
	2/0, 1/0	1/0, #1	CR-1	M-2020
		2/0	CR-1	M-2021
	#6, #8	#8	CR-2	M-2031
	#3, #4	#4, #6	CR-2	M-2032
	#1, #2	#2, #3	CR-2	M-2033
	2/0, 1/0	1/0, #1	CR-2	M-2034
	#6, #8	#8	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 suffix "-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 suffix "-N" to mold number, i.e. M-581-HN is full 1/2" diameter ground rod or roll-threaded rod to 4/0 Str cable.
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add suffix "-N" to mold number, i.e. M-582-HN is full 5/8" diameter ground rod or roll-threaded rod to 4/0 Str cable.
3. .682" actual diameter. For full 3/4" (.750) ground rod and roll-threaded rod, add suffix "-N" to mold number, i.e. M-583-HN is full 3/4" diameter ground rod or roll-threaded rod to 4/0 Str. cable.
4. .914" actual diameter. For full 1" (1.00) ground rod and roll-threaded rod, add suffix "-N" to mold number, i.e. M-584-HN is full 1" diameter ground rod or roll-threaded rod to 4/0 Str. cable.

RR-1

TYPE MOLDS

Ground Rod to Ground Rod



Section 2 - Molds
AWG Conductors

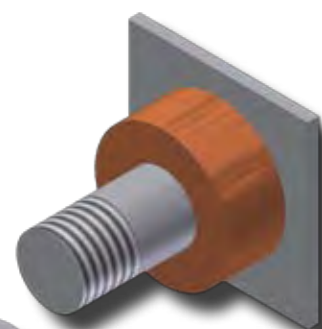
RS-1/RS-2

TYPE MOLDS

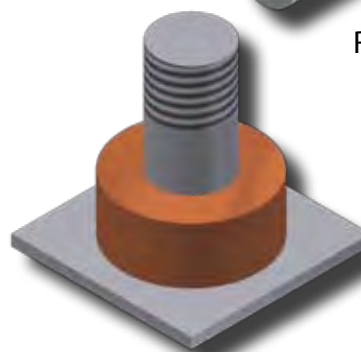
Horizontal and Vertical Stud to Steel

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

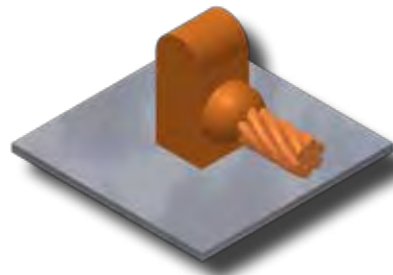
CS-1

TYPE MOLDS

Horizontal Cable to Horizontal Steel Surface

For AWG Conductors

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



Section 2 - Molds
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
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

CS-8

TYPE MOLDS

Horizontal Cable to Horizontal Steel Surface

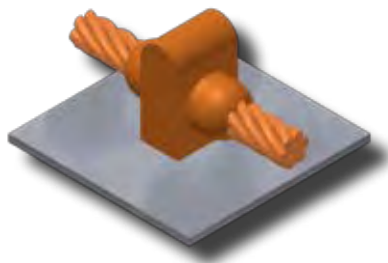
For AWG Conductors.

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	M-591-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

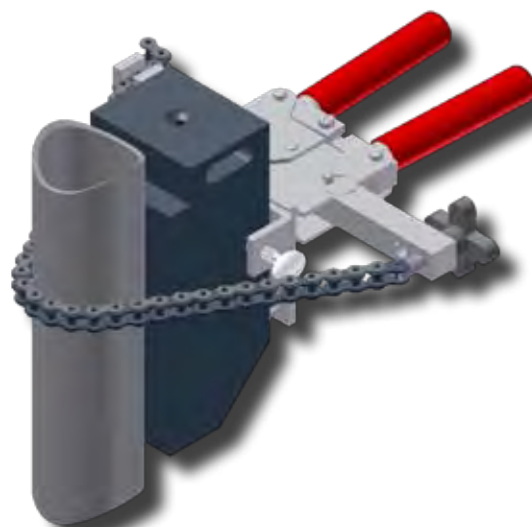
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see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



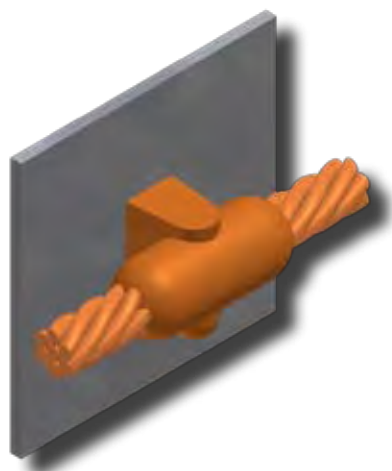
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see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

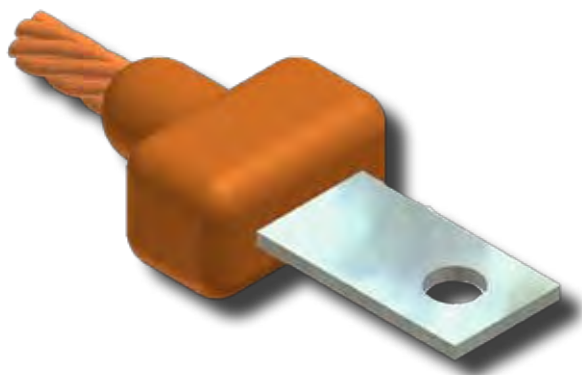
TYPE MOLDS

Horizontal Cable Tap to Horizontal Lug or Bus

For AWG Conductors

See page 51-52 for Lug part numbers.

Section 2 - Molds
AWG Conductors



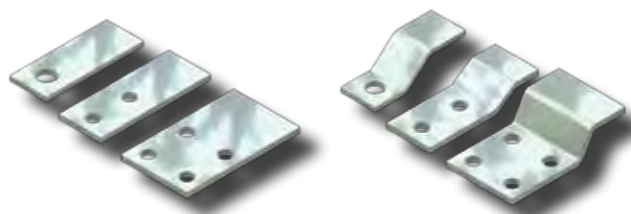
MOLDS FOR AWG CONDUCTORS						
Cable Size	Lug Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#8	1/16 X 1/2	M-966	4	15	B-106	4
	1/8 X 1	M-967	4	45	B-106	2
#6	1/16 X 1/2	M-968	4	15	B-106	4
	1/8 X 1	M-969	4	45	B-106	2
#4	1/8 X 9/16	M-970	4	25	B-106	2
	1/8 X 1	M-971	4	45	B-106	2
#2	1/8 X 5/8	M-974	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

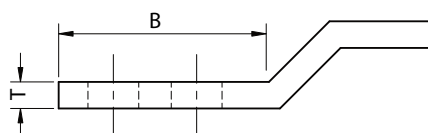
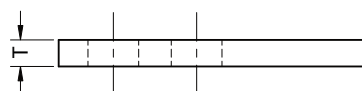
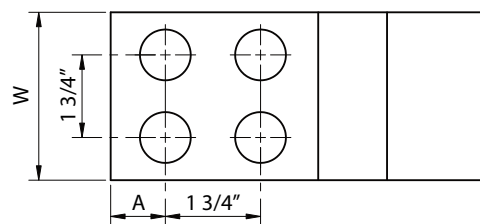
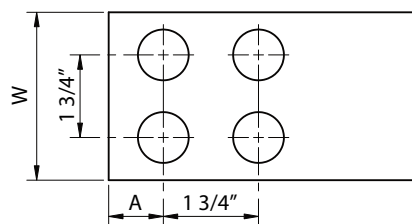
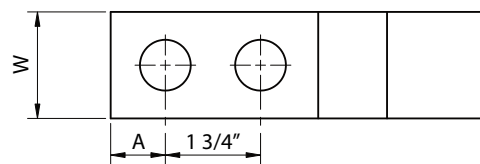
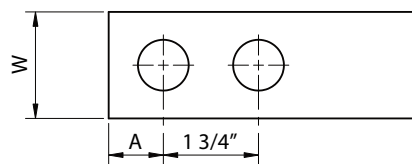
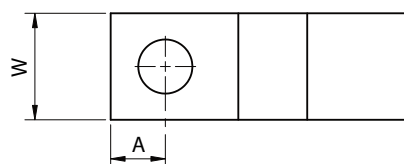
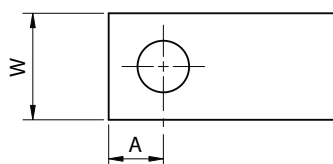
COPPER LUGS

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

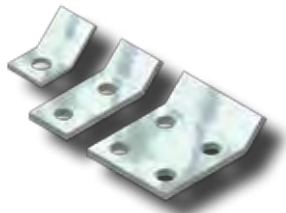
† Non-NEMA spaced bolt holes. Two 3/8" bolt holes on 1" centers. For use with thermOweld® Ground Plates 38-2864-00 & 38-4177-00
For sizes not listed, contact thermOweld®.



STRAIGHT LUG

OFFSET LUG

COPPER LUGS

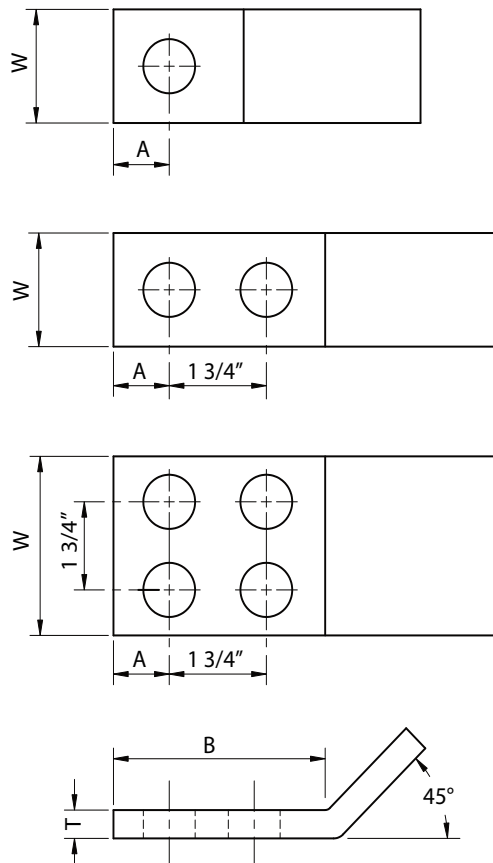


45° COPPER LUGS

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®.



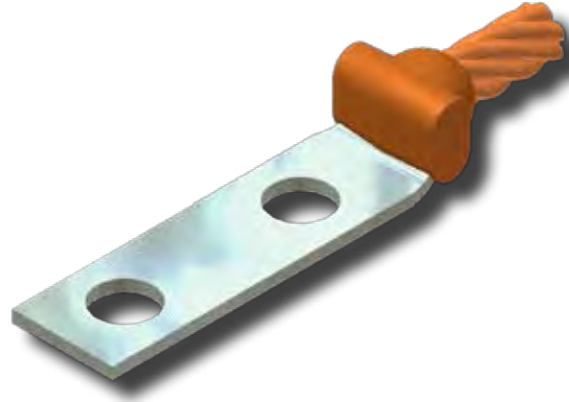
MOLDS FOR AWG CONDUCTORS						
Cable Size	Lug Size (See Lugs Below)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#4	1/8 X 1	M-2035	4	32	B-106	2
#2 Sol	1/8 X 1	M-2036-S	4	32	B-106	2
#2	1/8 X 1	M-2036	4	32	B-106	2
#1	1/8 X 1	M-2037	4	32	B-106	2
1/0	1/8 X 1	M-2038	4	45	B-106	2
2/0	1/8 X 1	M-2039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



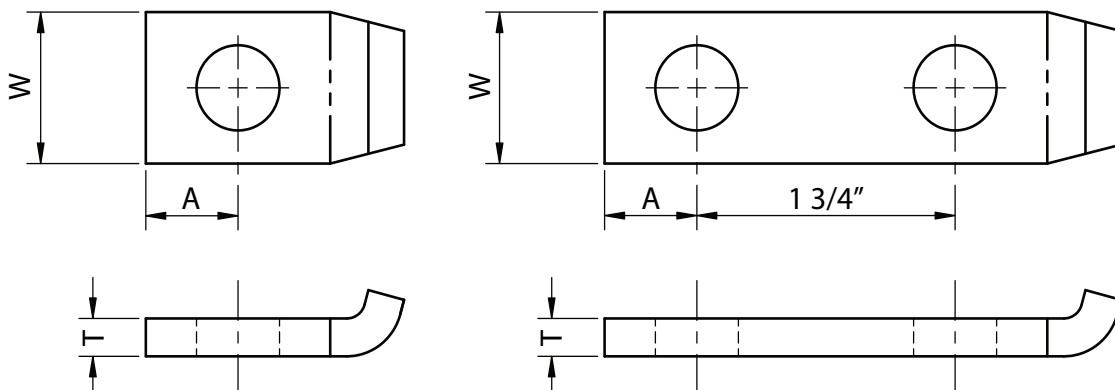
Section 2 - Molds
AWG Conductors

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

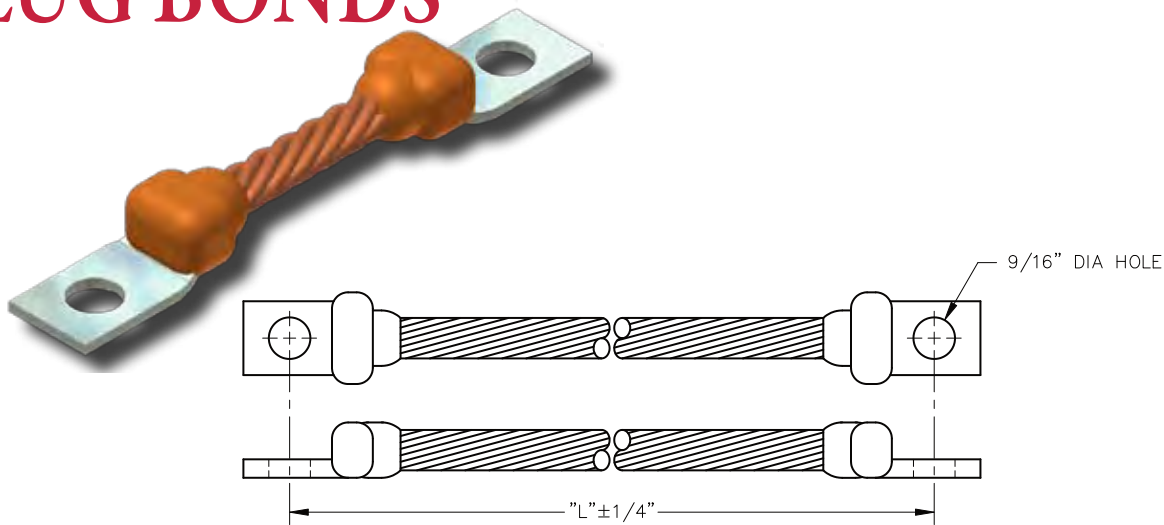


FIGURE 1

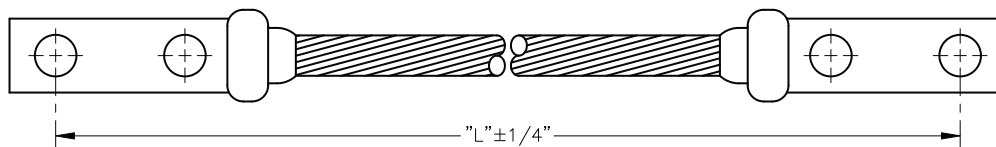


FIGURE 2

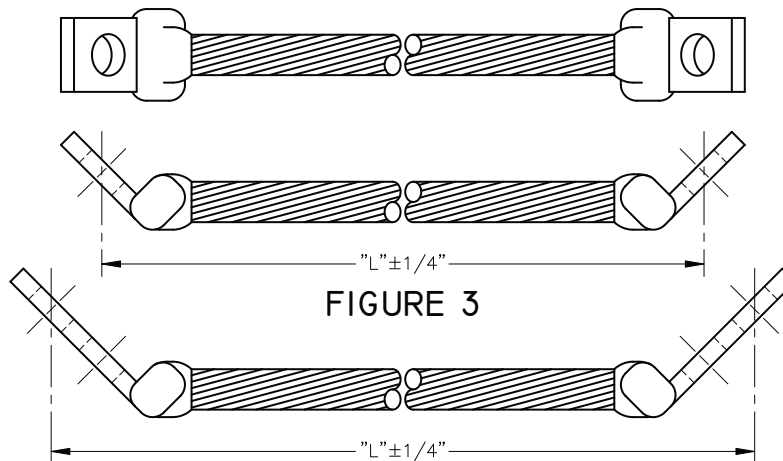


FIGURE 3

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

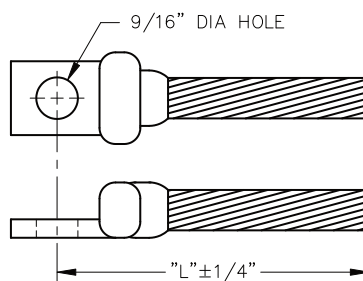


FIGURE 1

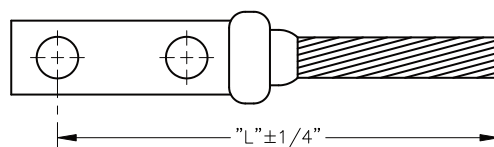


FIGURE 2

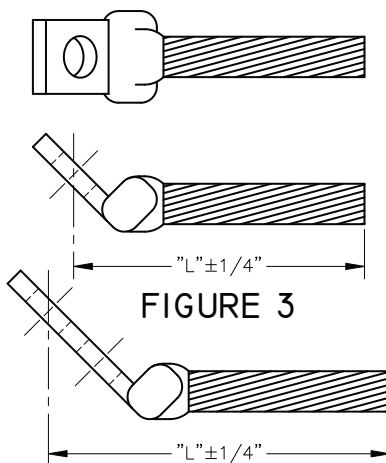


FIGURE 3

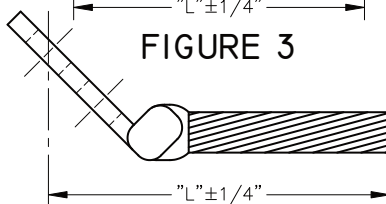


FIGURE 4

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"

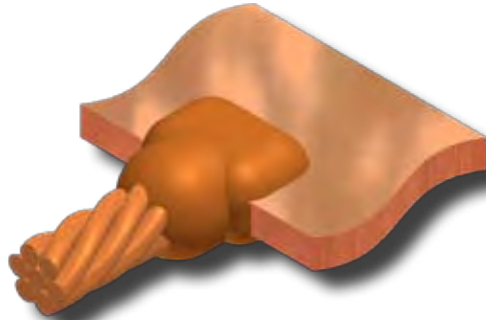
"L" = Length of Bond in inches

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
	500 MCM	M-1659	4	200	B-106	2
3/8 X 1-1/2 & WIDER	1/0	M-1660	4	90	B-106	2
	2/0	M-1661	4	90	B-106	2
	3/0	M-1662	4	115	B-106	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
	500 MCM	M-1668	4	250	B-106	4
1/2 X 1-1/2 & WIDER	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

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
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
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

CB-2

TYPE MOLDS

Vertical Overhead Tap to Horizontal Bus
For AWG Conductors



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) 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 $\frac{3}{4}$ " to 5" from the bus bar.

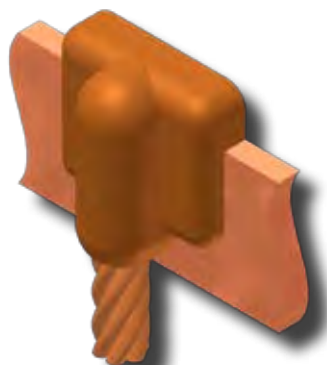


Section 2 - Molds
AWG Conductors

- 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
	350 MCM	M-906	7†	150	B-106	4
1/4" X 1	1/0	M-907	7†	150	B-106	4
	2/0	M-908	7†	150	B-106	4
	4/0	M-909	7†	150	B-106	4
	250 MCM	M-910	7†	150	B-106	4
	300 MCM	M-911	7†	200	B-106	4
	350 MCM	M-912	7†	200	B-106	4
	500 MCM	M-914	7†	2-150	B-106	4
1/4 X 1-1/2 & WIDER	#2	M-6967	7†	90	B-106	2
	1/0	M-915	7†	150	B-106	4
	2/0	M-916	7†	150	B-106	4
	4/0	M-917	7†	150	B-106	2
	250 MCM	M-918	7†	150	B-106	2
	300 MCM	M-919	7†	200	B-106	4
	350 MCM	M-920	7†	200	B-106	4
	500 MCM	M-922	7†	2-150	B-106	4
	750 MCM	M-923	8†	2-200	B-107	4
3/8 X 1	1/0	M-925	7†	150	B-106	4
	2/0	M-926	7†	150	B-106	4
	4/0	M-927	7†	150	B-106	4
	250 MCM	M-928	7†	150	B-106	4
	300 MCM	M-929	7†	200	B-106	4
	350 MCM	M-930	7†	200	B-106	4
	500 MCM	M-932	7†	250	B-106	4
	750 MCM	M-933	8†	2-200	B-107	4
3/8 X 1-1/2 & WIDER	1/0	M-935	7†	150	B-106	4
	2/0	M-936	7†	150	B-106	4
	4/0	M-937	7†	150	B-106	4
	250 MCM	M-938	7†	150	B-106	4
	300 MCM	M-939	7†	200	B-106	4
	350 MCM	M-940	7†	200	B-106	4
	500 MCM	M-942	7†	250	B-106	4
	750 MCM	M-943	8†	2-200	B-107	4
1/2 X 1	1/0	M-945	7†	200	B-106	4
	2/0	M-946	7†	200	B-106	4
	4/0	M-947	7†	200	B-106	4
	250 MCM	M-948	7†	200	B-106	4
	300 MCM	M-949	7†	250	B-106	4
	350 MCM	M-950	7†	250	B-106	4
	500 MCM	M-952	8†	2-150	B-107	4
	750 MCM	M-953	8†	500	B-107	4
1/2 X 1-1/2 & WIDER	1/0	M-955	7†	200	B-106	4
	2/0	M-956	7†	200	B-106	4
	4/0	M-957	7†	200	B-106	4
	250 MCM	M-958	7†	200	B-106	4
	300 MCM	M-959	7†	250	B-106	4
	350 MCM	M-960	7†	250	B-106	4
	500 MCM	M-962	8†	2-150	B-107	4
	750 MCM	M-963	8†	500	B-107	4



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
1/4 X 3 & WIDER	#2	M-5944	4	90	B-106	2
	1/0	M-692	4	115	B-106	4
	2/0	M-693	4	115	B-106	2
	4/0	M-694	4	150	B-106	2
	250 MCM	M-695	4	150	B-106	2
	300 MCM	M-696	4	200	B-106	4
	350 MCM	M-697	4	200	B-106	2
	500 MCM	M-699	4	250	B-106	2
	750 MCM	M-700	5	2-200	B-107	2
	1000 MCM	M-701	5	500	B-107	4

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

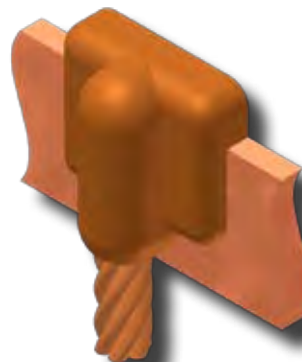
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see 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 $\frac{3}{4}$ " 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
	500 MCM	M-776	7†	250	B-106	4
	750 MCM	M-777	8†	2-200	B-107	4
1/4 X 3 & WIDER	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

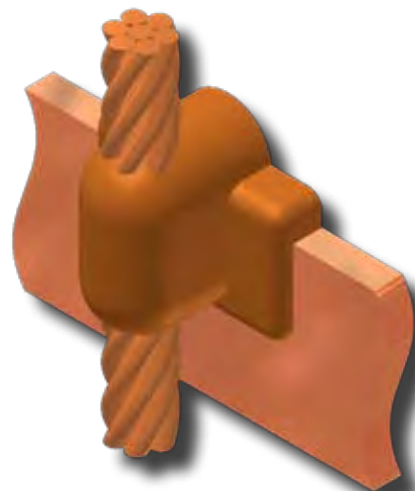
MOLDS FOR AWG CONDUCTORS						
Bus Bar Size	Cable Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/4 X 2 & Wider	#2	M-6922	7	250	B-106	2
	#2 Sol	M-6922-S	7	250	B-106	2
	1/0	M-6758	8	2-200	B-107	2
	2/0	M-6963	8	2-200	B-107	2
	4/0	M-6184	8	500	B-107	2
	250 MCM	M-9937	8	500	B-107	2
	500 MCM	M-6183	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



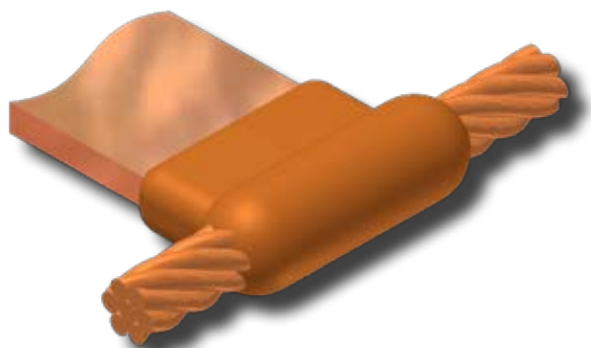
Section 2 - Molds
AWG Conductors

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

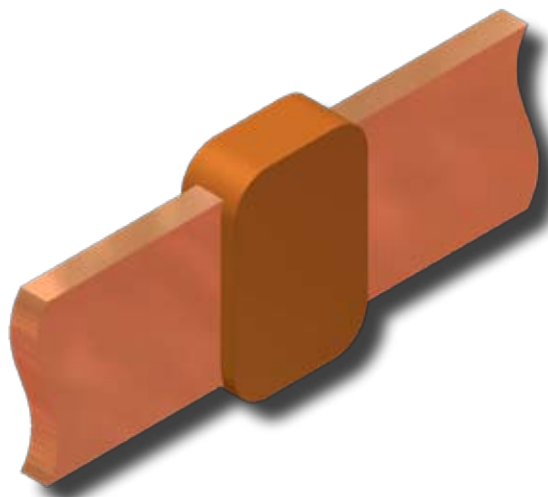
Bus Bar Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/8 X 1	M-1118	4	45	B-106	2
1/8 X 2	M-1119	4	90	B-106	4
3/16 X 1	M-1120	4	65	B-106	2
3/16 X 2	M-1121	4	115	B-106	4
1/4 X 1	M-1122	4	90	B-106	4
1/4 X 1-1/4	M-1123	4	115	B-106	4
1/4 X 1-1/2	M-1124	4	150	B-106	2
1/4 X 2	M-1125	4	200	B-106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

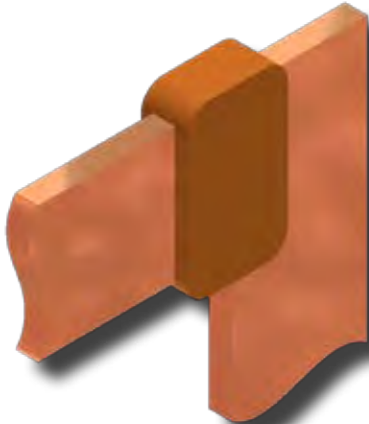


Section 2 - Molds
AWG Conductors

BB-2

TYPE MOLDS

Horizontal to Vertical at Right Angle



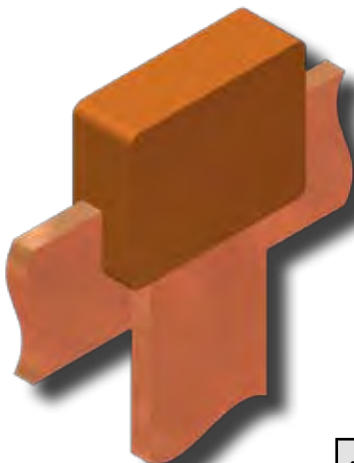
Section 2 - Molds
AWG Conductors

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



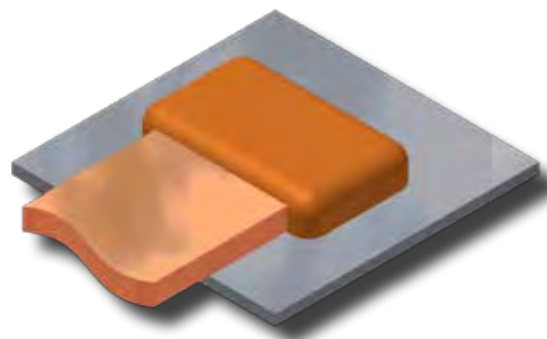
Section 2 - Molds
AWG Conductors

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

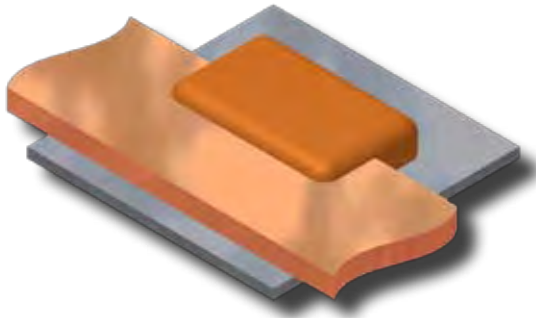


- For sizes not listed, contact thermOweld®.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00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

BS-3

TYPE MOLDS

Horizontal Thru Bar to Horizontal Steel Surface



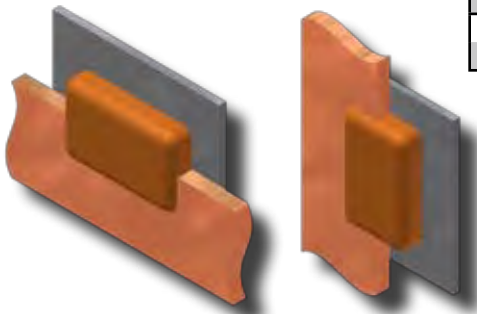
Bus Bar Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/8 X 1	M-1088	4	115	B-106	4
1/8 X 1-1/2 & WIDER	M-1089	4	150	B-106	4
1/4 X 1	M-1090	4	150	B-106	4
1/4 X 1-1/4	M-1091	4	200	B-106	4
1/4 X 1-1/4 & WIDER	M-1092	4	250	B-106	4
3/8 X 1	M-1093	4	200	B-106	4
3/8 X 1-1/2 & WIDER	M-1094	4	250	B-106	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 & Larger	4/0	M-7507	38-0329	4	115	B-106	2
	#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
#4	#1	M-7511	38-4061	3†	65	Not Req'd	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
#5	4/0	M-7515	38-0329	4	115	B-106	2
	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
#6 & Larger	4/0	M-7523	38-0329	4	115	B-106	2
	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

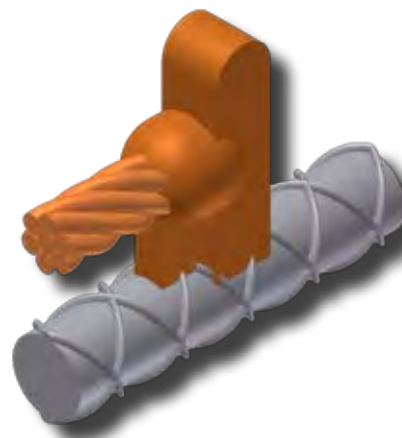
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see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

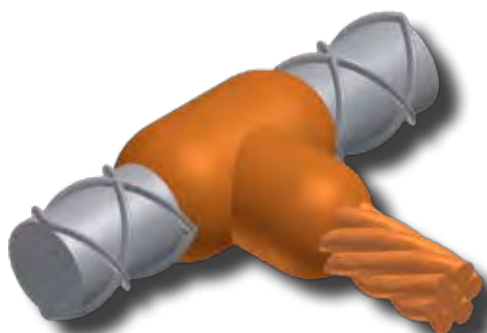


CRE-2

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

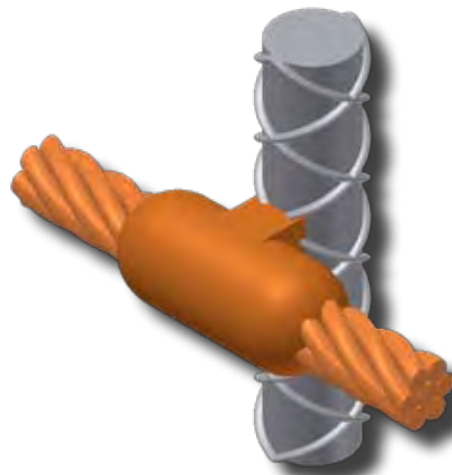
MOLDS FOR AWG CONDUCTORS

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.

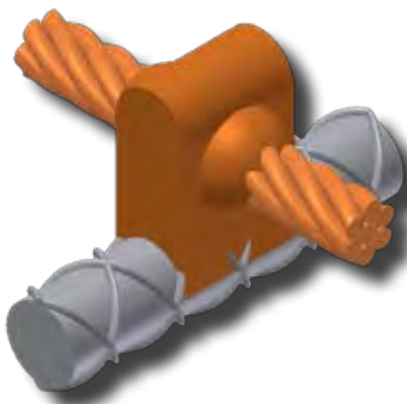


CRE-4

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



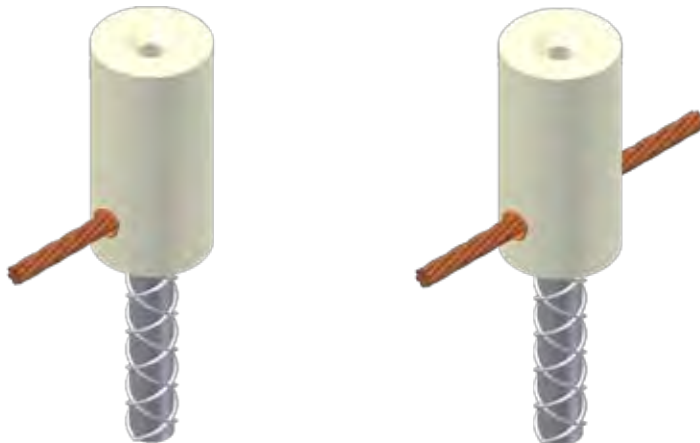
Section 2 - Molds
AWG Conductors

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.

Section 2 - Molds
AWG Conductors



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

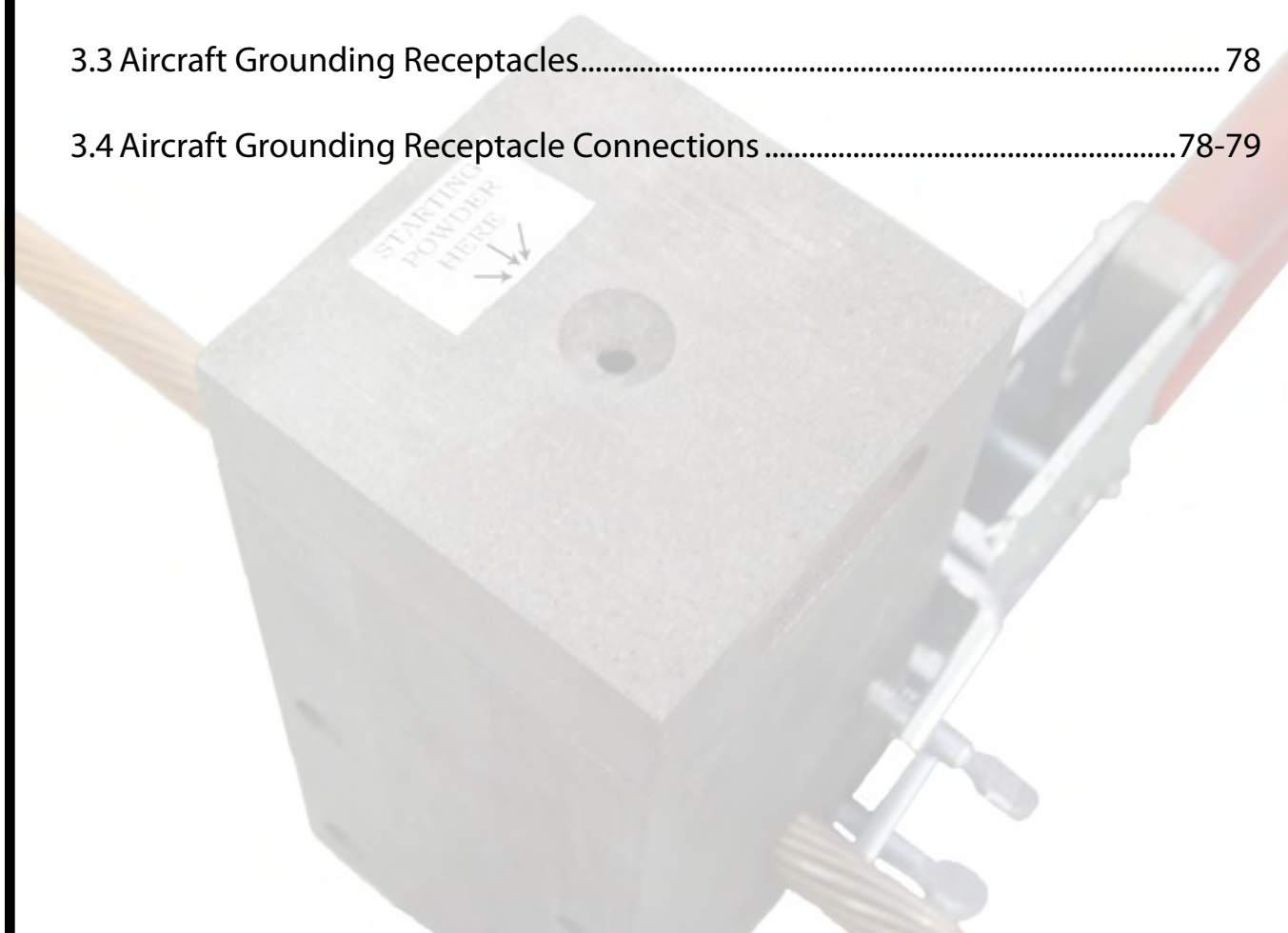
Rebar Size	Cable Size		Type	Mold #
	Solid	Stranded		
#4	#6, #8	#8	CRE-21	M-8932
	#3, #4	#4, #6	CRE-21	M-8933
	#1, #2	#2, #3	CRE-21	M-8934
	2/0, 1/0	1/0, #1	CRE-21	M-8935
		2/0	CRE-21	M-8936
	#6, #8	#8	CRE-16	M-8947
	#3, #4	#4, #6	CRE-16	M-8948
	#1, #2	#2, #3	CRE-16	M-8949
	2/0, 1/0	1/0, #1	CRE-16	M-8950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

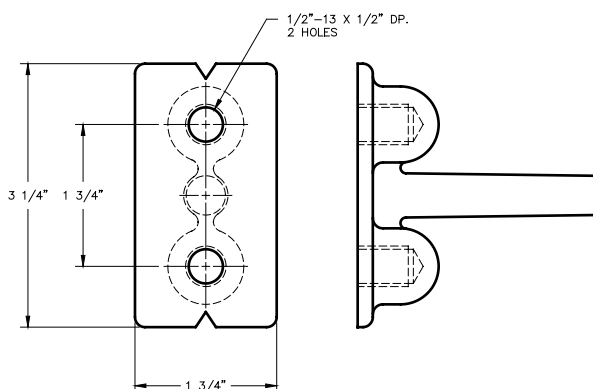
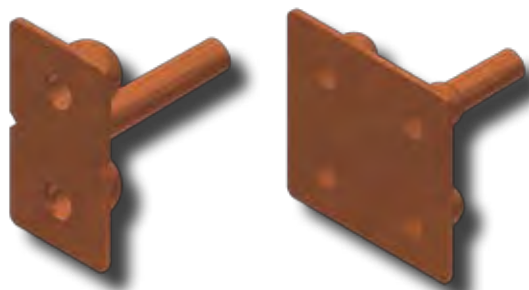
WELD TYPE		PG #
	Grd Plates	75
	RS-3	76
	CRS-1	76
	CRS-2	76
	CR-27	77
	CR-30	77
	CR-31	77

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

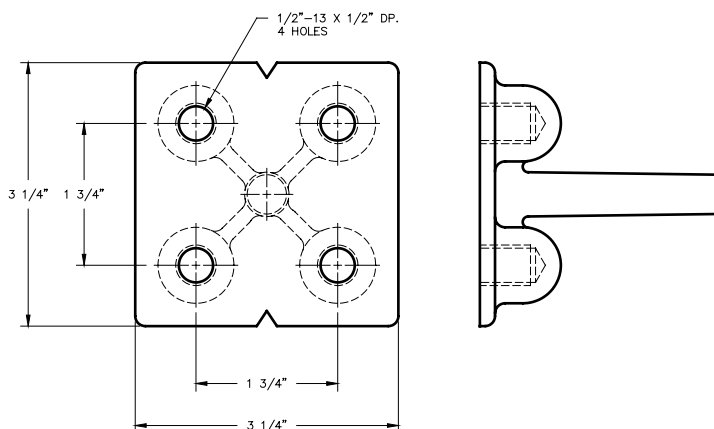
GROUND PLATES

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.

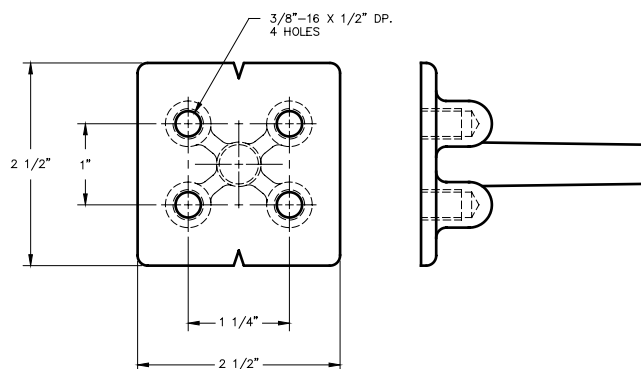
GROUND PLATES



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

GROUND PLATES

GROUND PLATES

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

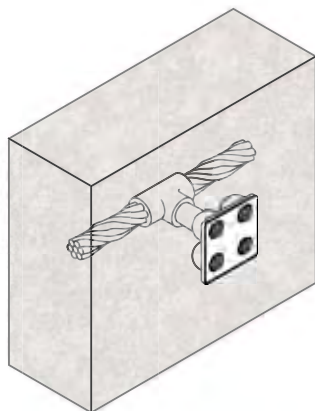
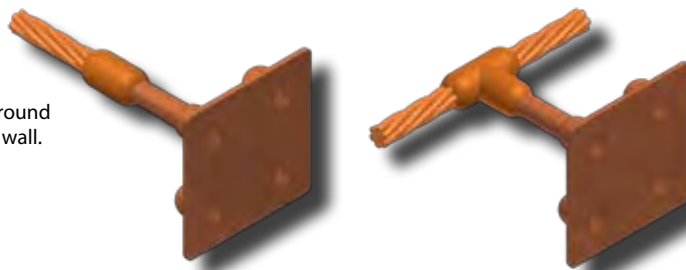
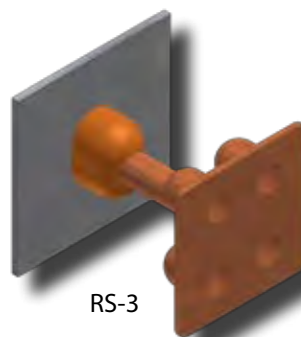


Illustration at left shows a ground plate installed in a concrete wall.

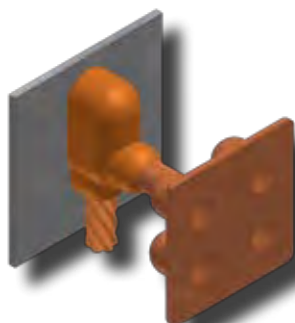


MOLDS FOR AWG CONDUCTORS

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



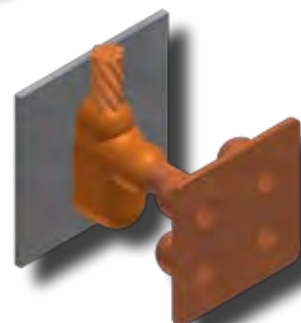
RS-3



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

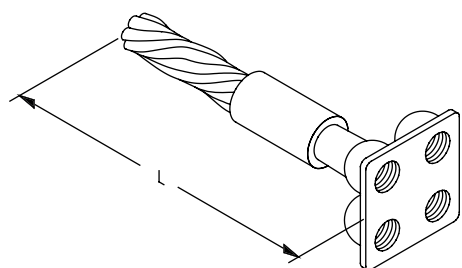
† These mold numbers are for use with Ground Plates 38-2999-00, 38-4051-00 and 38-2864-00. Contact thermOweld® for molds used with Ground Plate 38-4178-00.

GROUND PLATES & AIRCRAFT GROUNDING RECEPTACLES

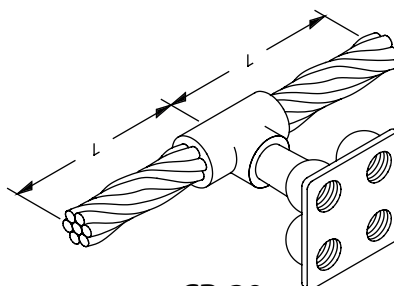
GROUND PLATES

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.

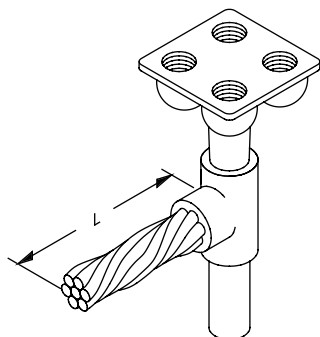
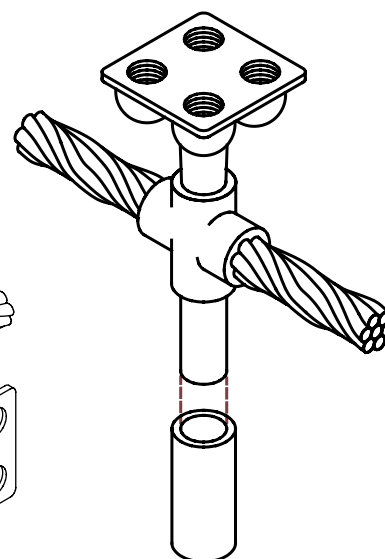
GROUND PLATES



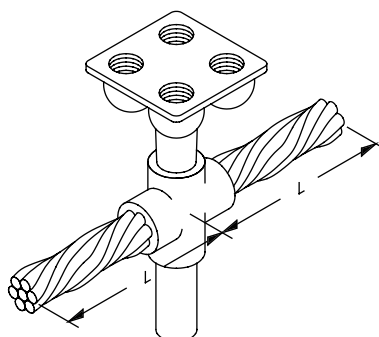
CR-27



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

- 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

‡ = LENGTH IN INCHES

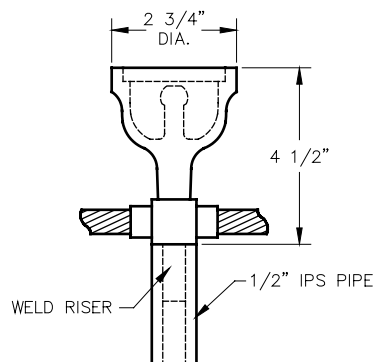
- A = 6"
- B = 12"
- C = 18"
- D = 24"
- E = 36"
- F = 48"

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.

Section 3
Grd Plates & Aircraft Grounding Recept.

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

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



ACR-1

ACR-2

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 suffix "-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

SINGLE SHOTS

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



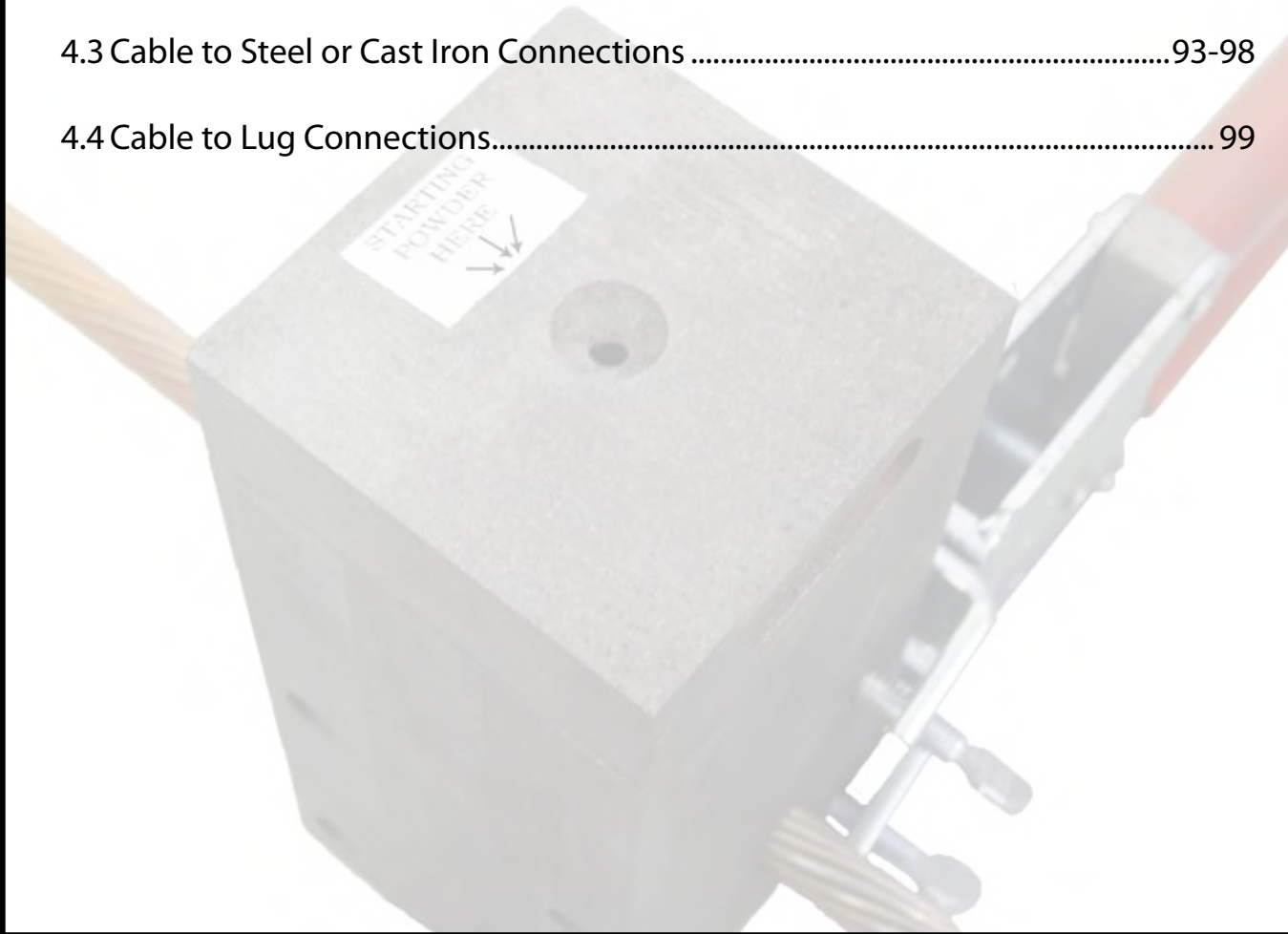
Call Today Ship Today!

*SDS is not a guaranteed service.

Section 4

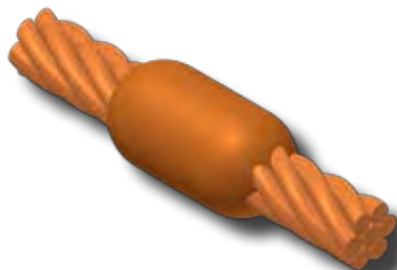
Molds for use with Copper-Clad Steel Conductors

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

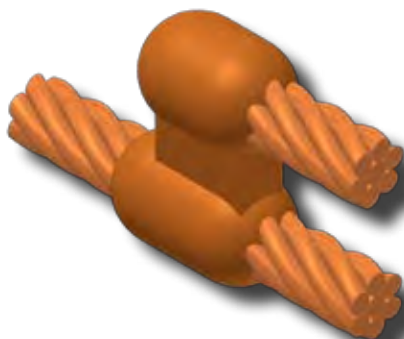
MOLDS FOR COPPER-CLAD STEEL CONDUCTORS										
Cable	STANDARD CONNECTION					HEAVY DUTY CONNECTION				
	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7/#10	M-9018	4	32	B-106	2	M-9018-H	4	65	B-106	4
7/#8	M-9050	4	45	B-106	4	M-9050-H	4	90	B-106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

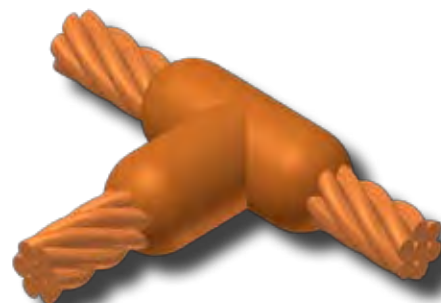
MOLDS FOR COPPER-CLAD STEEL CONDUCTORS						
Cable		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
7/#10	#2	M-9384	4	65	B-106	4
	#4	M-9392	4	45	B-106	4
	#6	M-9700	4	32	B-106	4
	#6 Sol	M-9407	4	32	B-106	4
	#8 Sol	M-9423	4	32	B-106	4
7/#8	#2	M-924	4	65	B-106	4
	#4	M-9425	4	45	B-106	4
	#6	M-9429	4	45	B-106	4
	#6 Sol	M-9447	4	45	B-106	4
	#8 Sol	M-9448	4	45	B-106	4
7/#7	#2	M-9449	4	65	B-106	4
	#4	M-9450	4	65	B-106	4
	#6	M-9451	4	45	B-106	4
	#6 Sol	M-9452	4	45	B-106	4
	#8 Sol	M-9453	4	45	B-106	4
7/#6	#2	M-9454	4	90	B-106	4
	#4	M-9455	4	65	B-106	4
	#6	M-9456	4	65	B-106	4
	#6 Sol	M-9457	4	65	B-106	4
	#8 Sol	M-9458	4	65	B-106	4
7/#5	#2	M-9459	4	90	B-106	4
	#4	M-9460	4	90	B-106	4
	#6	M-9461	4	65	B-106	4
	#6 Sol	M-9462	4	65	B-106	4
	#8 Sol	M-9463	4	90	B-106	4

CC-2

TYPE MOLDS

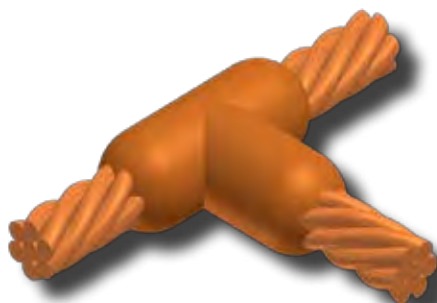
Horizontal Cable Tap to Horizontal Cable Run

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

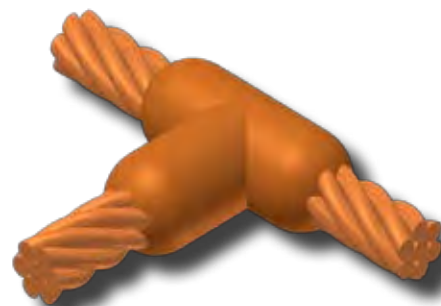
- For sizes not listed, contact thermOweld®.
- For molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0319-01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

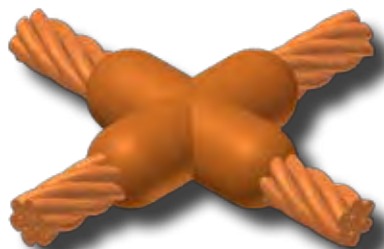
For Copper-Clad Steel Conductors



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	7/#10	M-9004	4	65	B-106	4	M-9004-H	4	115	B-106	4
	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
250 MCM	7/#8	M-9085	4	90	B-106	4	M-9085-H	4	150	B-106	4
	7/#10	M-9216	4	90	B-106	4	M-9216-H	4	150	B-106	4
	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
500 MCM	7/#7	M-9223	4	90	B-106	4	M-9223-H	4	150	B-106	4
	7/#8	M-9087	4	90	B-106	4	M-9087-H	4	150	B-106	4
	7/#10	M-9224	4	90	B-106	4	M-9224-H	4	150	B-106	4
	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

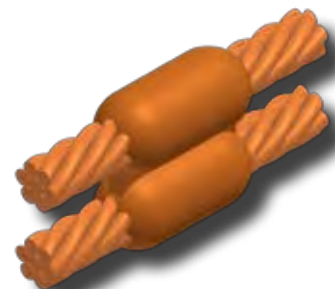
- For sizes not listed, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0319-01 ~ Mold Cleaner for cartridge sizes #15-#65
 - 40-0319-03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

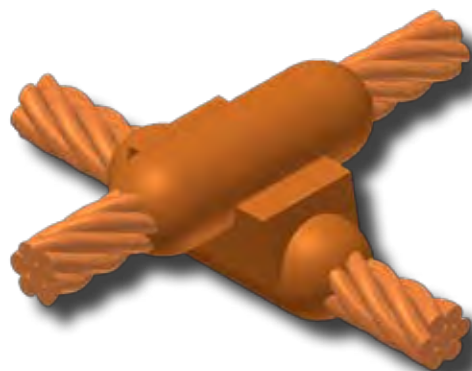
For Copper-Clad Steel Conductors



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
19/#8	7/#8	M-9476	4	150	B-106	2	M-9476-H	4	250	B-106	4
	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
19/#7	7/#8	M-9480	4	150	B-106	4	M-9480-H	4	250	B-106	4
	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
19/#6	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	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	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

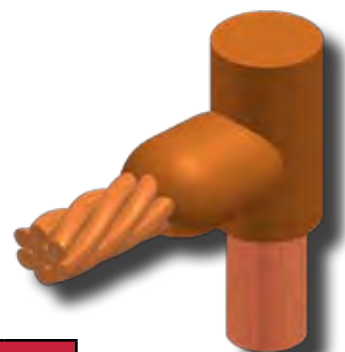
- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended 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
	19/#8	M-9526	4	90	B-106	4	M-9526-H	4	150	B-106	4
5/8"	7/#10	M-9095	4	65	B-106	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
	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
3/4"	7/#10	M-9436	4	90	B-106	4	M-9436-H	4	115	B-106	4
	7/#8	M-9099	4	90	B-106	2	M-9099-H	4	150	B-106	4
	7/#7	M-9390	4	90	B-106	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
	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
1"	7/#10	M-9533	4	150	B-106	4	M-9533-H	4	200	B-106	4
	7/#8	M-9534	4	150	B-106	4	M-9534-H	4	200	B-106	4
	7/#7	M-9535	4	150	B-106	4	M-9535-H	4	200	B-106	4
	7/#6	M-9002	4	150	B-106	4	M-9002-H	4	250	B-106	4
	7/#5	M-9536	4	150	B-106	4	M-9536-H	4	250	B-106	4
	19/#9	M-9537	4	150	B-106	4	M-9537-H	4	250	B-106	4
	19/#8	M-9538	4	200	B-106	4	M-9538-H	5	2-150	B-107	4
	19/#7	M-9539	4	200	B-106	4	M-9539-H	5	2-150	B-107	4
	19/#6	M-9540	4	200	B-106	4	M-9540-H	5	2-150	B-107	4

- For sizes not listed, contact thermOweld®.
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add suffix "-N" to mold number.
- For molds with wear plates, 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

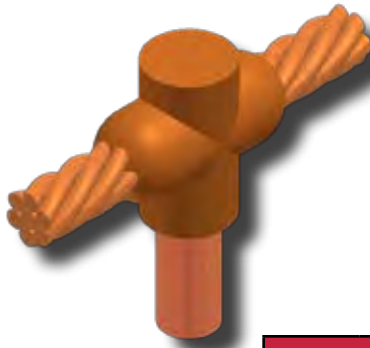
NOTES

1. .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add suffix "-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.
2. .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add suffix "-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.
3. .682" actual diameter. For full 3/4" (.750) ground rod and roll-threaded rod, add suffix "-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.
4. .914" actual diameter. For full 1" (1.00) ground rod and roll-threaded rod, add suffix "-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
	19/#8	M-9546	4	200	B-106	4	M-9546-H	5	2-150	B-107	4
5/8"	7/#10	M-9550	4	90	B-106	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
	19/#7	M-9172	4	250	B-106	2	M-9172-H	5	2-200	B-107	4
3/4"	7/#10	M-9552	4	90	B-106	4	M-9552-H	4	150	B-106	4
	7/#8	M-9108	4	115	B-106	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
	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
1"	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

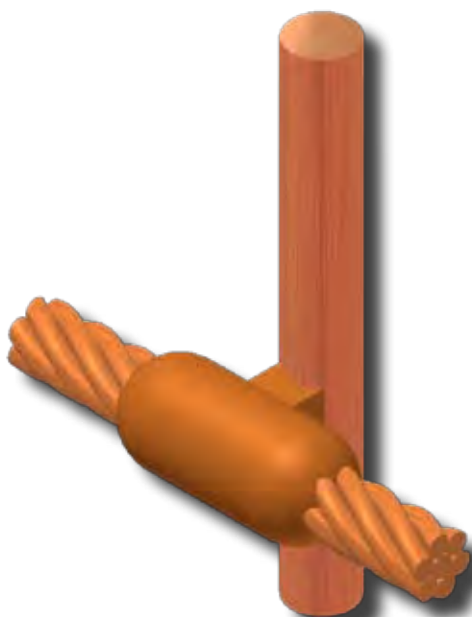
- .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add suffix "-N" to mold number, i.e. M-9102-N is full 1/2" diameter ground rod or roll-threaded rod to 7/#5 CCS cable.
- .563" actual diameter. For full 5/8" (.625) ground rod and roll-threaded rod, add suffix "-N" to mold 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 suffix "-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 suffix "-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 suffix "-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



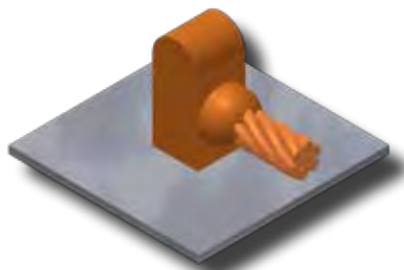
NOTES

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

MOLDS FOR COPPER-CLAD STEEL CONDUCTORS

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

- **For sizes not listed, contact thermOweld®.**
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add suffix "-N" to mold number.
- For heavy duty connections 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)

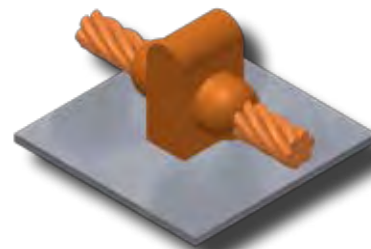
CS-2

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

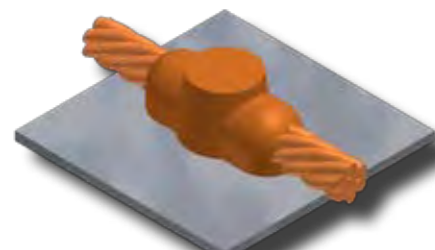
CS-9

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

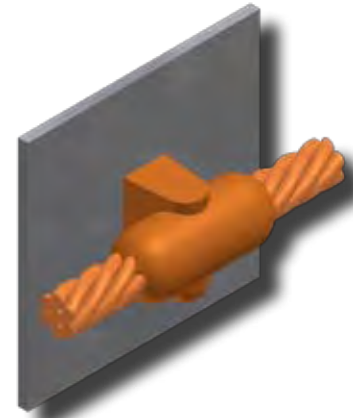
CS-6

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

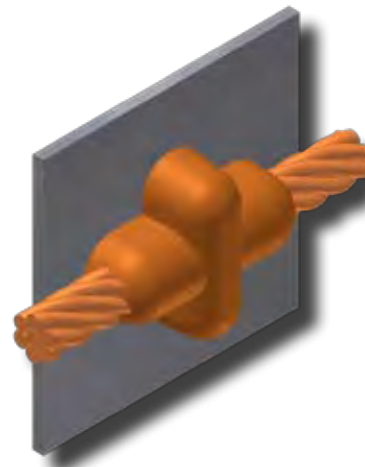
CS-27

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

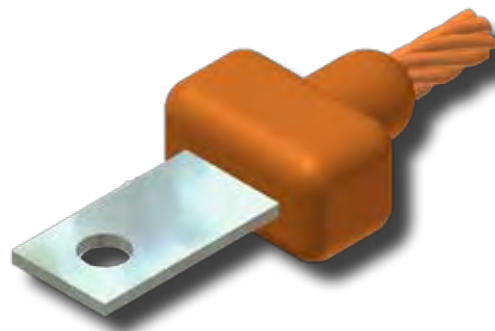
Cable Size	Lug Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7#10	3/16 X 1	M-9607	4	65	B-106	4
7/#8	3/16 X 1	M-9701	4	65	B-106	4
	1/4 X 1	M-9121	4	65	B-106	4
7/#7	3/16 X 1	M-9609	4	90	B-106	4
	1/4 X 1	M-9126	4	90	B-106	4
7/#6	3/16 X 1	M-9410	4	90	B-106	4
	1/4 X 1	M-9613	4	90	B-106	4
	1/4 X 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

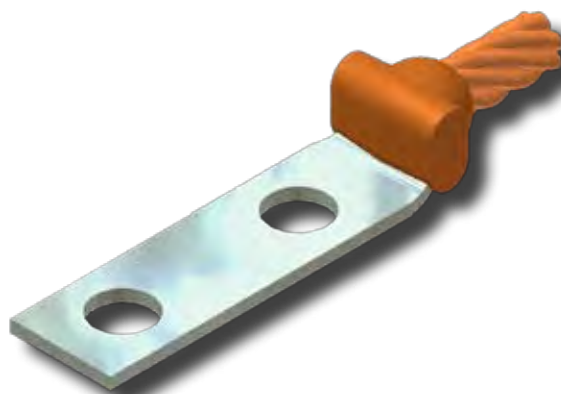
Cable Size	Lug Size	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
7#10	1/8 X 1	M-9365	4	32	B-106	4
7/#8	1/8 X 1	M-9366	4	45	B-106	4
7/#7	1/8 X 1	M-9367	4	45	B-106	4
7/#6	1/8 X 1	M-9368	4	65	B-106	4
7/#5	1/8 X 1	M-9369	4	65	B-106	4
19/#9	3/16 X 1	M-9370	4	65	B-106	4
19/#8	3/16 X 1	M-9371	4	90	B-106	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.



- 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



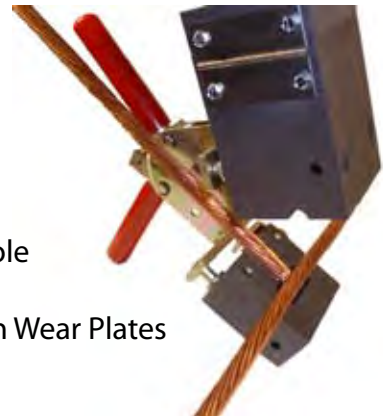
Patented EZ-Lite® System

- 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



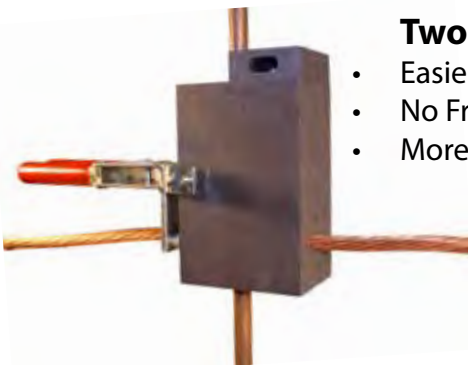
Offset Handles

- 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

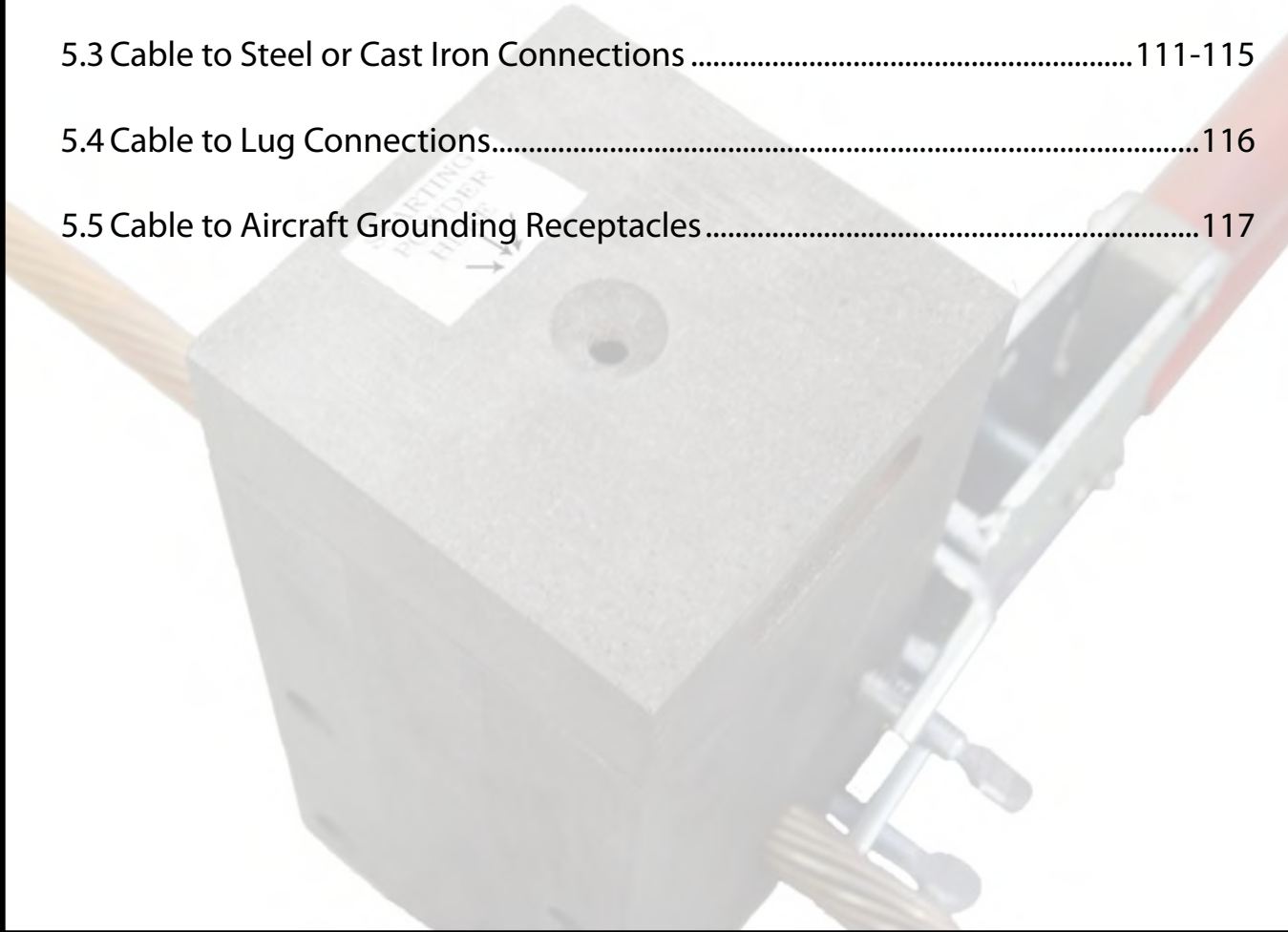
- Easier To Use
- No Frame Required
- More Economical Than 3 Piece Molds



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

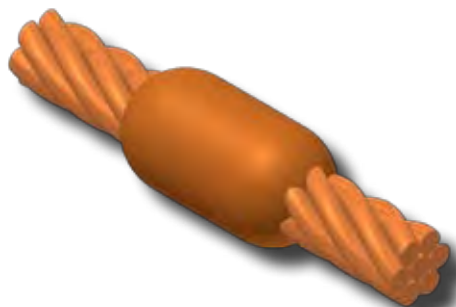
WELD TYPE		PG #
	CR-36	110
	CS-1	111
	CS-8	111
	CS-2	112
	CS-9	112
	CS-3	113
	CS-18	113

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, 50S, 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

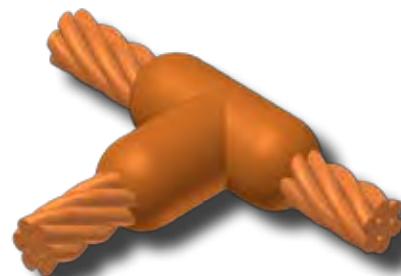
Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
A	M-5002	4	25	B-106	2
B	M-5006	4	45	B-106	4
C	M-5032	4	65	B-106	2
D	M-5012	4	90	B-106	2
E	M-5013	4	90	B-106	2
F	M-5016	4	90	B-106	2
G	M-5005	4	115	B-106	2
H	M-2176	4	115	B-106	4
J	M-2178	4	115	B-106	4
K	M-2180	4	115	B-106	2
L	M-2182	4	150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

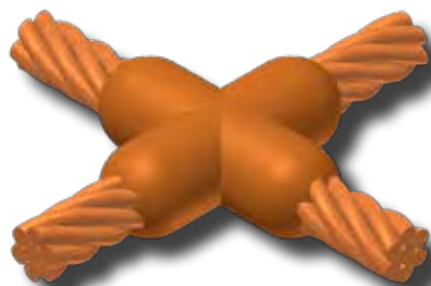
Horizontal Cable Tap to Horizontal Cable Run
For Lightning Protection Conductors



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
G	Q	M-2290	4	200	B-106	4
	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
H	Q	M-2298	4	200	B-106	4
	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

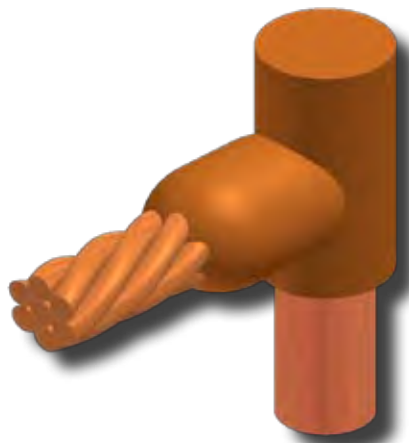
MOLDS FOR LIGHTNING PROTECTION CONDUCTORS						
Cable Code		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
K	K	M-2318	4	250	B-106	2
	J	M-2319	4	250	B-106	4
	H	M-2855	4	250	B-106	4
	G	M-2321	4	200	B-106	4
	F	M-2322	4	200	B-106	4
	E	M-2323	4	200	B-106	4
	D	M-2324	4	200	B-106	4
	C	M-2325	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 suffix "-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 suffix "-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 suffix "-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 suffix "-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

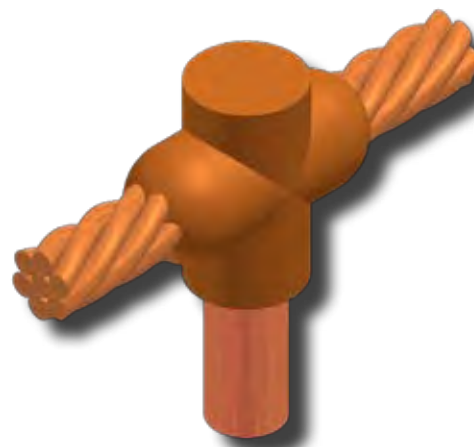
- **For sizes not listed, contact thermOweld®.**
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add suffix "-N" to mold number.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, 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 suffix "-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 suffix "-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 suffix "-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 suffix "-N" to mold number, i.e. M-2395-N is full 1" diameter ground rod or roll-threaded rod to "D" cable.

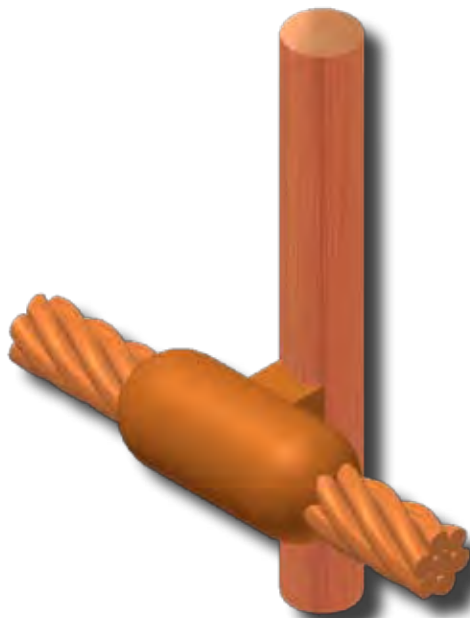
- For sizes not listed, contact thermOweld®.
- Molds listed are for copper clad ground rods. For welding to steel, stainless steel or galvanized steel ground rods add suffix "-N" to mold number.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact 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 suffix "-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 suffix "-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 suffix "-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 suffix "-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 suffix "-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-18

TYPE MOLDS

**Vertical Cable Up to Ground Rod
For Lightning Protection Conductors**



MOLDS FOR LIGHTNING PROTECTION CONDUCTORS						
Ground Rod Size	Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2"	A	M-10570	17	90	B-106	4
	B	M-10571	17	90	B-106	4
	C	M-10572	17	115	B-106	4
	D	M-10573	17	150	B-106	4
	E	M-10574	17	150	B-106	4
	F	M-10575	17	150	B-106	4
	G	M-10576	17	150	B-106	4
	H	M-10577	17	150	B-106	4
	J	M-10578	17	200	B-106	4
	K	M-10579	17	200	B-106	4
	L	M-10580	17	250	B-106	4
	Q	M-10581	17	150	B-106	4
5/8"	A	M-10582	17	90	B-106	4
	B	M-10583	17	90	B-106	4
	C	M-5177	17	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

NOTES

- .475" actual diameter. For full 1/2" (.500) ground rod and roll-threaded rod, add suffix "-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 suffix "-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 suffix "-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 suffix "-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 suffix "-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 suffix "-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 suffix "-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 suffix "-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 suffix "-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 suffix "-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

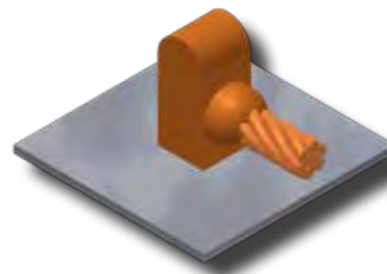
CS-1

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

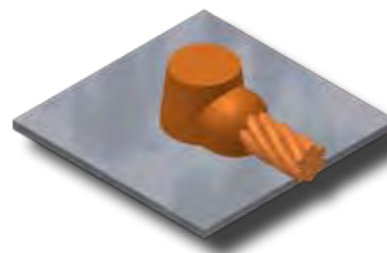
CS-8

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)

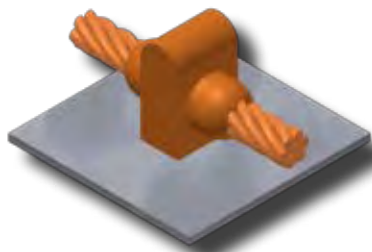
CS-2

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

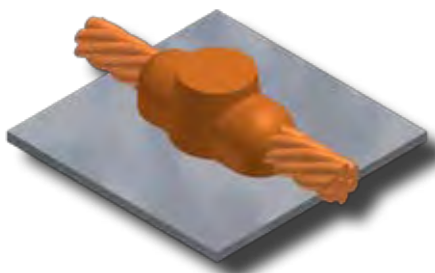
CS-9

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)

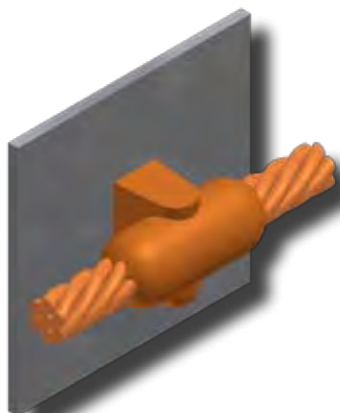
CS-6

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

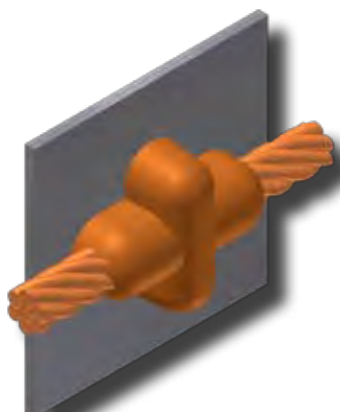
CS-27

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



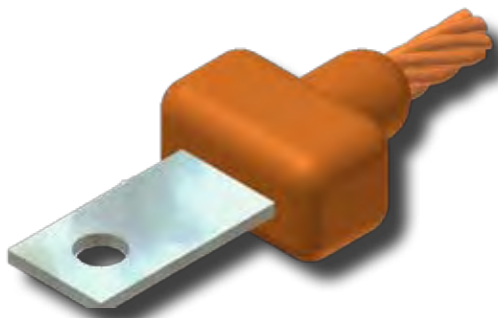
- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended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

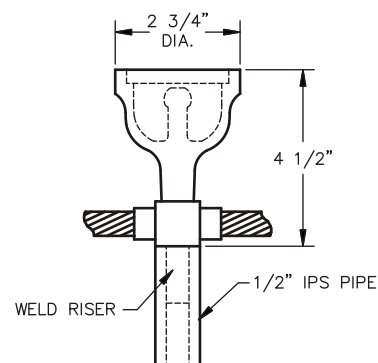
Types AC-1 and AC-2 are made with the receptacle in an inverted position. The resulting riser is then used to position the receptacle on top of 1/2" IPS pipe. See page 78 for Aircraft Grounding Receptacle part numbers.



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!

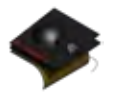
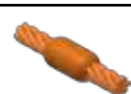
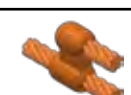
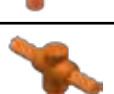
*SDS is not a guaranteed service.

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
2/0	10" to 18" pipe	M-123	3	65CP	Not Req'd	2
	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

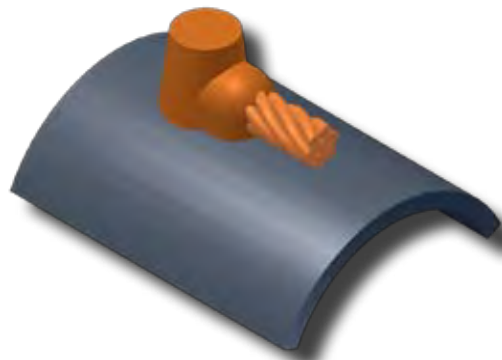
† For Wire Size #14 to #10 Solid, 38-0200-00 Sleeve/Weld Req'd

- 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 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-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

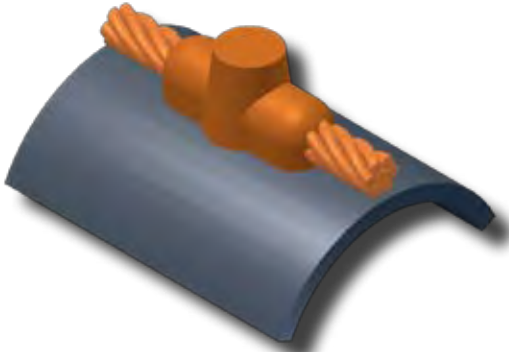
Flat to 4" & Larger Pipe	3/4" to 3 1/2" & Larger Pipe
(1) M-100 Mold	(1) M-101 Mold
(80) 15PS Cartridges	(80) 15PS Cartridges
(80) Sleeves	(80) Sleeves
Flint Ignitor	Flint Ignitor
Mold Cleaner	Mold Cleaner
Part #	Part #
38-4350-00	38-4351-00

Specialty kits are available for other infrastructure applications and unique contractor needs. The NACE-trained staff 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-5529	3	65CP	Not Req'd	4
	3" to 4" pipe	M-6251	3	65CP	Not Req'd	4
	5" to 6" pipe	M-5530	3	65CP	Not Req'd	4
	8" to 10" pipe	M-5531	3	65CP	Not Req'd	4
	12" to 28" pipe	M-5532	3	65CP	Not Req'd	4
		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 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

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

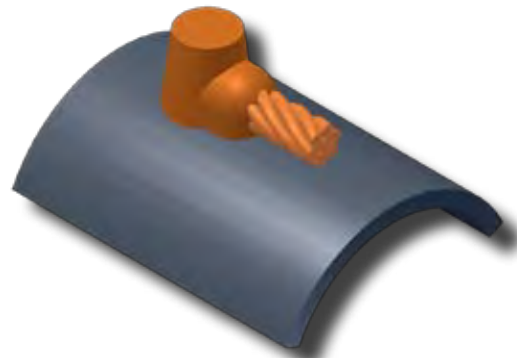
TYPE MOLDS

Cathodic Protection

Horizontal Cable to

Horizontal Cast Iron Surface

For AWG Conductors

Section 6 - Products for
Cathodic Protection

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

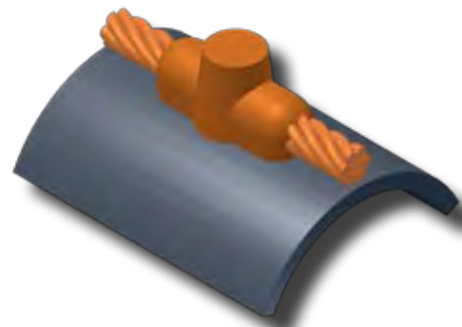
TYPE MOLDS

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.

CS-37

TYPE MOLDS

**Cathodic Protection
Cable to Vertical Cast Iron
For AWG Conductors**



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 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

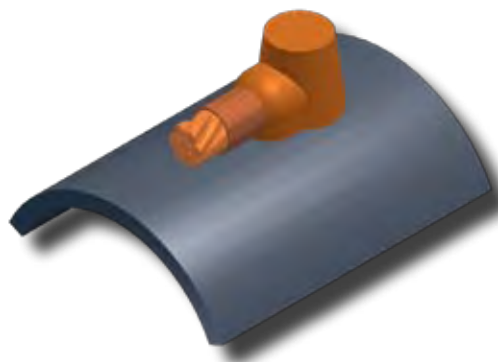
† For Wire Size #14 to #10 Solid, 38-0200-00 Sleeve/Weld Req'd

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 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



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.

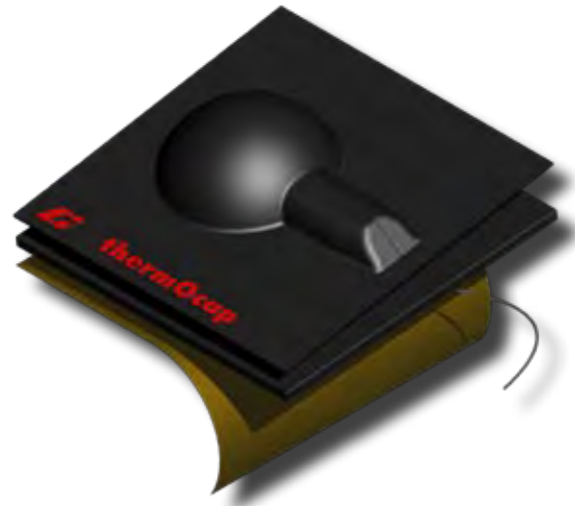
- For sizes not listed, contact thermOweld®.
- Molds listed are for concentric stranded cable. Add suffix "-S" to mold number for solid conductors.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - † ~ Sold complete with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

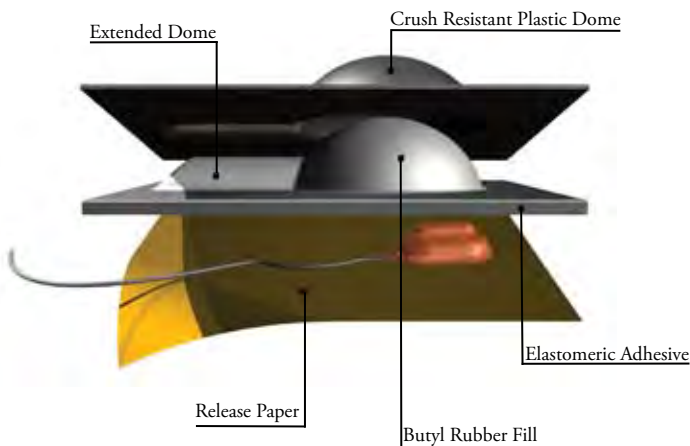
- Elongated wire inlet allows the cap to conform easier to the pipe.
- Outer shell designed to prevent crushing.
- Butyl rubber filled dome.
- Easier field application.
- Packaged in boxes of 20 with immediate delivery available.



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.

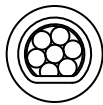
thermOprime liquid adhesive systems consist of butyl based elastomers blended with polymeric resin dissolved on an organic solvent system. They are non-toxic and non-polluting, and conform to local and national standards. In addition to the excellent adhesion to the pipe substrate and cathodic disbondment 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



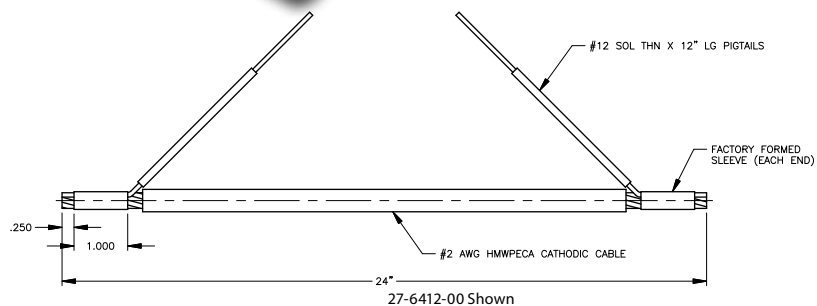
MOLDS FOR AWG CONDUCTORS								
CS-48 MOLD INFORMATION FOR STEEL PIPE				Bond Size	CS-49 MOLD INFORMATION FOR CAST IRON PIPE			
Surface	Mold #	Price Key	Weld Metal		Surface	Mold #	Price Key	Weld Metal
4" pipe	M-7346	3	25CP	#4 Str	4" to 24" pipe	M-154-P.S.	3	32CI
6" to 8" pipe	M-7347	3	25CP		30" & Larger 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

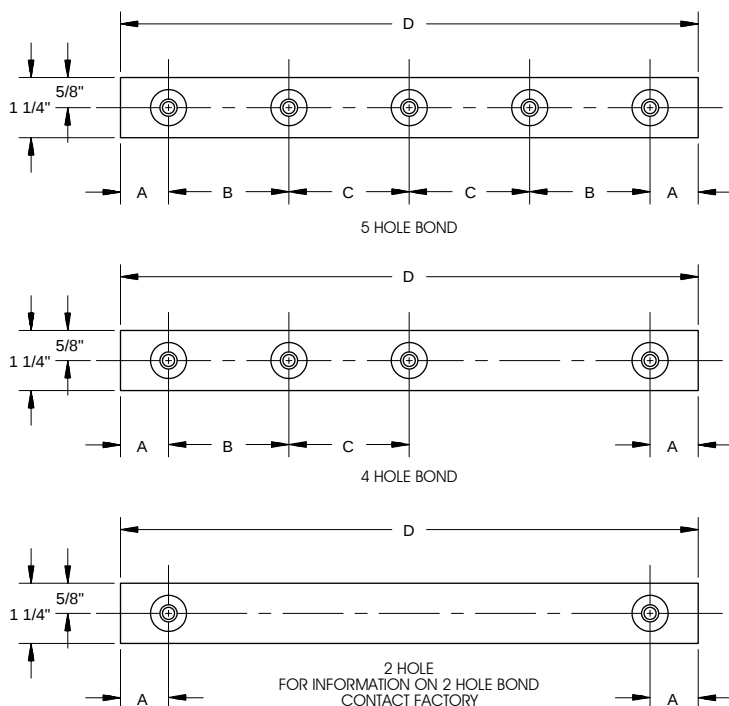


CS-48 MOLD INFORMATION FOR STEEL PIPE				CS-32 MOLD FOR PIGTAIL TO STEEL PIPE			BOND SIZE	CS-49 MOLD INFORMATION FOR <u>CAST IRON</u> PIPE				CS-33 MOLD FOR PIGTAIL TO <u>CAST IRON</u> PIPE		
Surface	Mold #	Price Key	Weld Metal	Mold #	Price Key	Weld Metal		Surface	Mold #	Price Key	Weld Metal	Mold #	Price 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 flint 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.

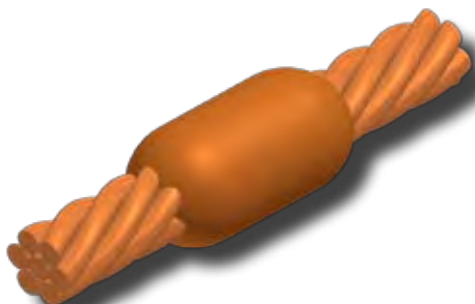
Hammer Die Catalog #	For Use On Cable Size	Adapter Sleeve Catalog #
38-6019-00	#8 Str	38-0201-00
38-4388-00	#6 Str	38-0202-00
38-4859-00	#4 Str	38-0204-00
38-0310-00	#2 Str	38-0203-00
38-0392-00	#1 Str	38-0209-00
38-0311-00	1/0 Str	38-0205-00
38-0312-00	2/0 Str	38-0240-00



CC-1

TYPE MOLDS

Horizontal End to End
For AWG Conductors

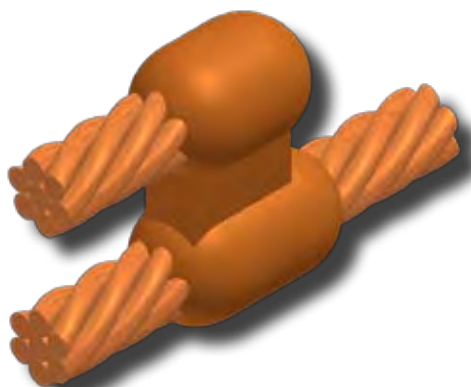


MOLDS FOR AWG CONDUCTORS					
Cable	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#12 Sol	M-8224-S	18	15	40-4565-00	4
#10 Sol	M-8225-S	18	15	40-4565-00	2
#8 Sol	M-8228-S	18	15	40-4565-00	2
#6 Sol	M-8229-S	18	25	40-4565-00	2
#6	M-8229	18	25	40-4565-00	2
#4 Sol	M-8232-S	18	25	40-4565-00	4
#4	M-8232	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



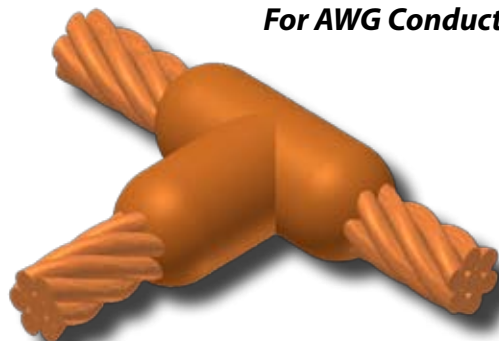
MOLDS FOR AWG CONDUCTORS						
Cable		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
#6	#6	M-8261	18	25	40-4565-00	2
	#6 Sol	M-8264	18	25	40-4565-00	2
	#8	M-8265	18	25	40-4565-00	2
	#8 Sol	M-8266	18	25	40-4565-00	4
#4	#4	M-8267	18	32	40-4565-00	4
	#6	M-8268	18	32	40-4565-00	2
	#6 Sol	M-8269	18	32	40-4565-00	4
	#8	M-8274	18	32	40-4565-00	4
#2	#8 Sol	M-8275	18	32	40-4565-00	4
	#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
#1	#8 Sol	M-8285	18	32	40-4565-00	4
	#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
1/0	#8 Sol	M-8293	19	45	40-4565-00	4
	#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
2/0	#8 Sol	M-8304	19	45	40-4565-00	4
	#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



- 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

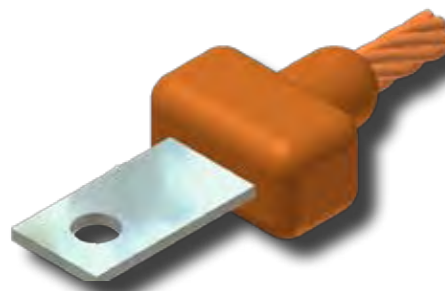
MOLDS FOR AWG CONDUCTORS							
Cable Size	Lug Size	Lug Part #	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
#6 Sol†	1/16" x 1/2"	38-4709-00	M-8391-S	18 †	25	40-4565-00	4
#6	1/16" x 1/2"		M-8391	18 †	25	40-4565-00	4
#4 Sol	1/16" x 1/2"		M-8393-S	18 †	25	40-4565-00	4
#4	1/16" x 1/2"		M-8393	18 †	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 suffix "-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

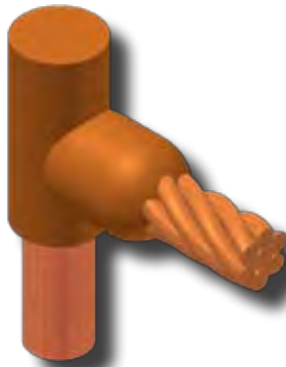
Cathodic Protection
Cable to Lug
For AWG Conductors



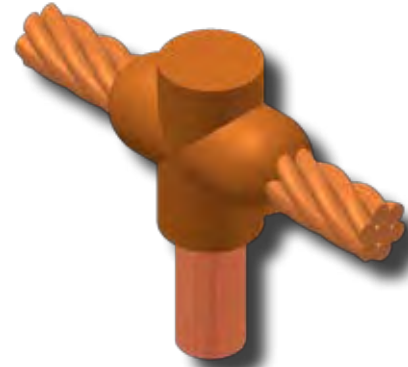
CR-1 / CR-2

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 suffix "-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 suffix "-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 suffix "-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 suffix "-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

Description	Page #
7.1 Joint Bonds & Joint Bond Welders	134-136
7.2 Bonds for Switches, Bootlegs, Frogs & Foulings	137
7.3 Hammer Dies	138
7.4 Bond Strand & Cable Gaurds.....	138
7.5 Track Connectors.....	139
7.6 Power Bonds	140-141
7.7 Ground Connections to Web of Rail.....	142

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



Section 7 - Products
for Rail Connections

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.



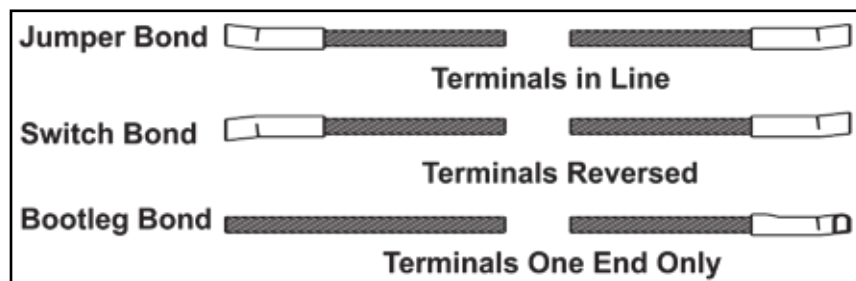
WW-1 WELDER FRAME (PAIR) CATALOG NUMBER 40-7025-00

BONDS FOR SWITCHES BOOTLEGS, FROGS & FOULINGS

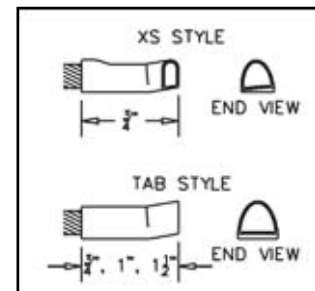
FOR USE WITH WW1 WELDERS

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.

HAMMER DIES

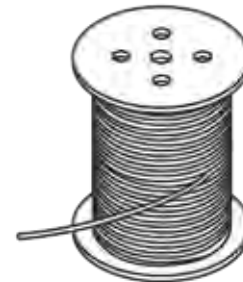
Bonds can be made in the field using our supplied copper alloy signal cable, or your own cable, a copper sleeve, and a hammer die. The terminals made by this process will be TAB style. The catalog numbers necessary to do this, are listed below.

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



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



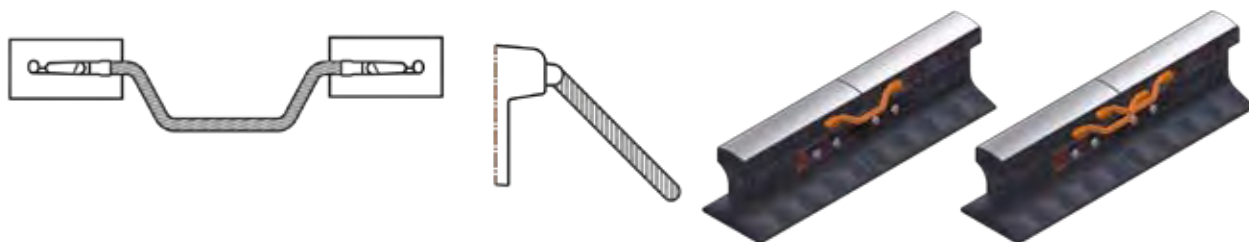
Catalog Number	Description
27-7042-04	1" TAB X 4" Track Connector
27-7042-12	1" TAB x 12" Track Connector
M-8609	Pair of mold and frames for welding track connector to the web of the rail.
M-8609-G	Mold only for welding track connectors to the web of the rail.
38-7043-00	Track connector compression tool.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



POWER BONDS

TYPE "C" BONDS

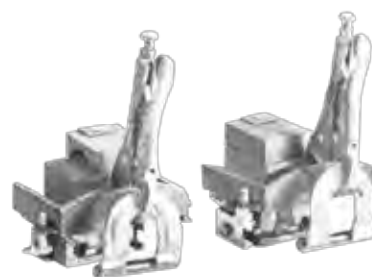
Type "C" Bonds are made from ropelay cable and designed to be welded to the head of 75IL and heavier rail for the purpose of providing propulsion current when so required. If current carrying capacity can not be met with one bond, a double bond may be made using the 13" bonds.



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.

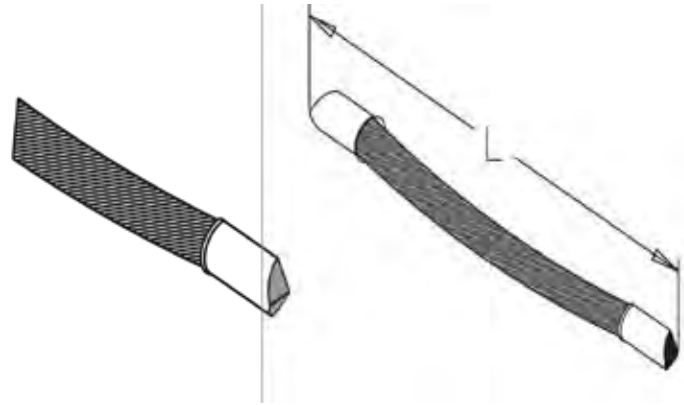


RAIL PRODUCTS

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 Ropelay	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, flint 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.

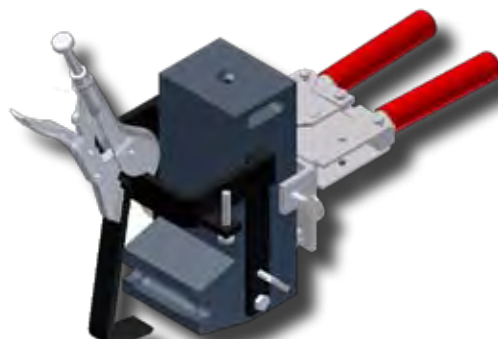
GROUND CONNECTIONS TO WEB OF RAIL



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"

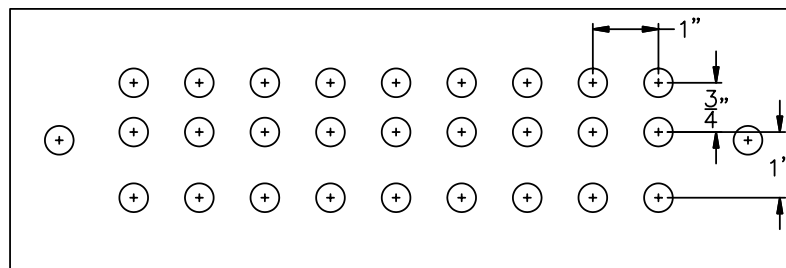
Duct Seal Catalog Number	
1lb	38-4129-00
5lbs	38-4129-05

Section 8

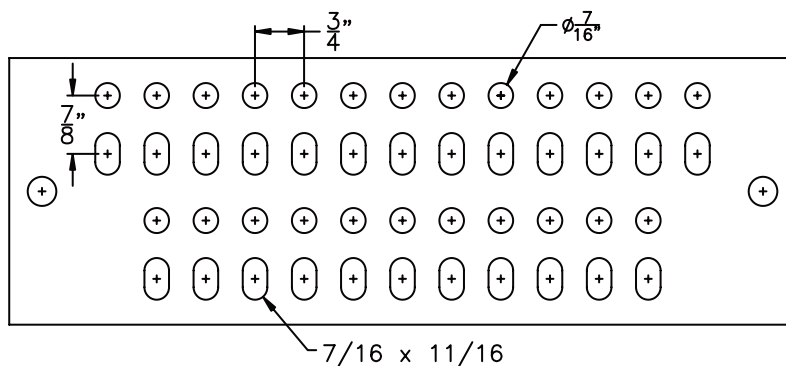
Grounding Products

Description	Page #
8.1 Ground Bars	144-145
8.2 Standoffs Insulators & Mounting Brackets.....	146
8.3 Copper Ground Plates	147
8.4 Chemical Ground Rod Kits.....	148-149
8.5 Contact-GM.....	150
8.6 Ground Access Wells.....	151
8.7 Signal Reference Grid (SRG)	152
8.8 Cable to Floor Pedestal & SRG Connections.....	153-156
8.9 Cable to Steel & Cable to Copper Lug Connections	154
8.10 Low Impedence Risers (L.I.R.) & Low Emissions System	155
8.11 Pole Plates.....	155
8.12 Round-Wire Signal Reference Grid & Ground Pedestal Clamps	156-157
8.13 Computer Room Ground Clamps	157
8.14 Prefabricated Copper Ground Mess.....	158
8.15 AC Mitigation Mats.....	158
8.16 Pipe Clamps, Universal Pipe Clamps & Fence Clamp Assemblies.....	159-161
8.17 Fence Fabric Ground Clamps.....	162
8.18 Flexible Gate Jumpers & Fence Gate Assemblies	163-166

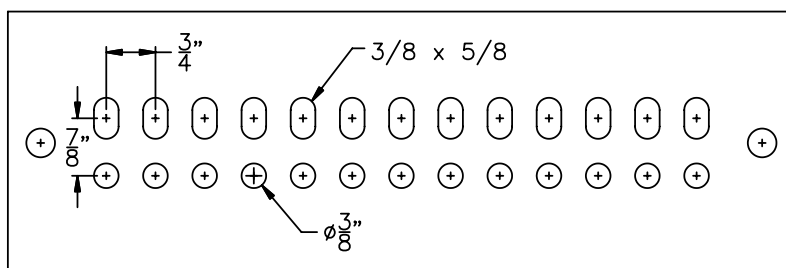
GROUND BAR HOLE PATTERNS



"J"



"M"



"P"

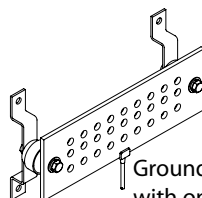
NOTES:

- 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.

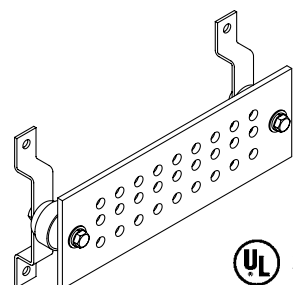
GROUND BARS

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.



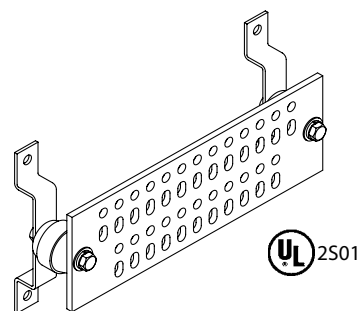
Ground Bar shown with optional pigtail.



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

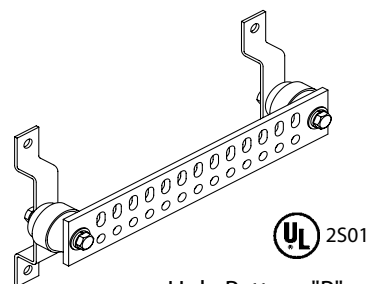
- Mounting holes not included in total.
- Accommodates two hole lugs spaced 3/4" and 1" on center.
- 12" bar pictured. Holes are 7/16" diameter and slots are 7/16" x 11/16".
- Bars available electro-tin plated.
- Tamper proof bolts available.
- Plexiglass cover available.
- Other sizes available. Contact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

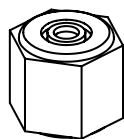
- Mounting holes not included in total.
- Accommodates two hole lugs spaced 3/8" and 1" on center.
- 12" bar pictured. Holes are 7/16" diameter and slots are 7/16" x 11/16".
- Bars available electro-tin plated.
- Tamper proof bolts available.
- Plexiglas cover available.
- Other sizes available. Contact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



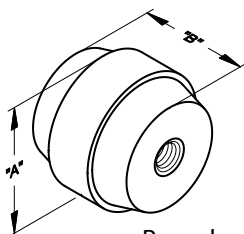
Hole Pattern "P"

GROUNDING PRODUCTS

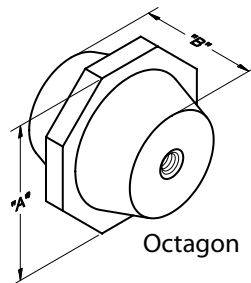
STANDOFF INSULATORS - RED



Hexagon



Round

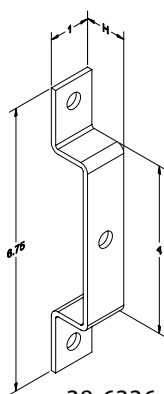


Octagon

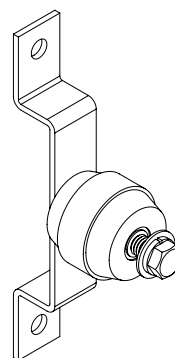
Manufactured from glass reinforced thermoset polyester.

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



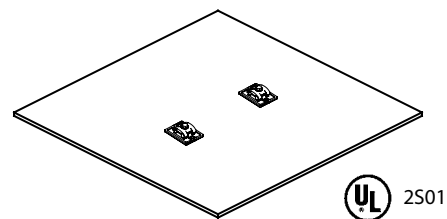
Catalog Number	Mounting Hole Size	"H"	Kit	Heavy Duty
38-6336-00	7/16"	1"	No	No
38-6337-00	7/16"	1"	Yes	No

- 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

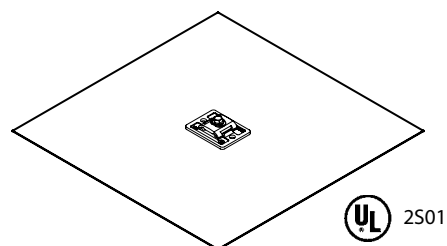
Catalog Number	Ground Plate Size	Thickness (Inches)
38-6338-00	18" X 18"	.032
38-6339-00	24" X 24"	.032

- 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.



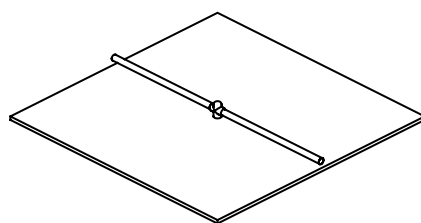
Catalog Number	Ground Plate Size	Thickness (Inches)
38-6340-"X"0	18" X 18"	.032
38-6341-"X"0	24" X 24"	.032

- 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.

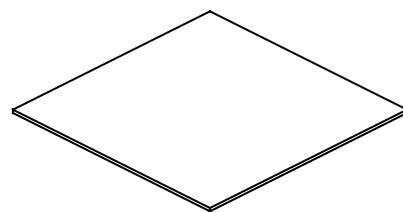
1 = #4 STR	4 = 1/0 STR	7 = 250 MCM
2 = #2 SOL	5 = 2/0 STR	8 = 350 MCM
3 = #2 STR	6 = 4/0 STR	9 = 500 MCM

(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.

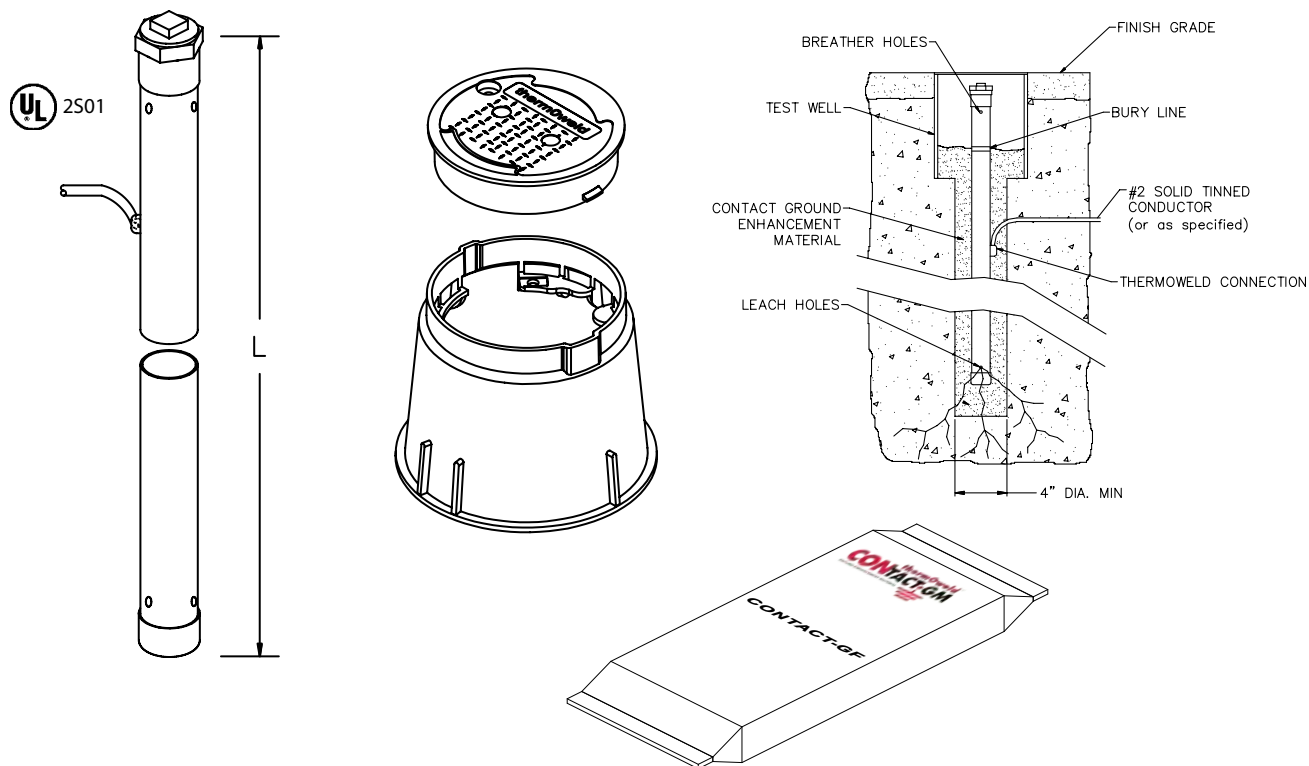


**Other sizes and thicknesses are available.
Please contact factory for details.**

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.

CHEMICAL GROUND ROD KITS VERTICAL



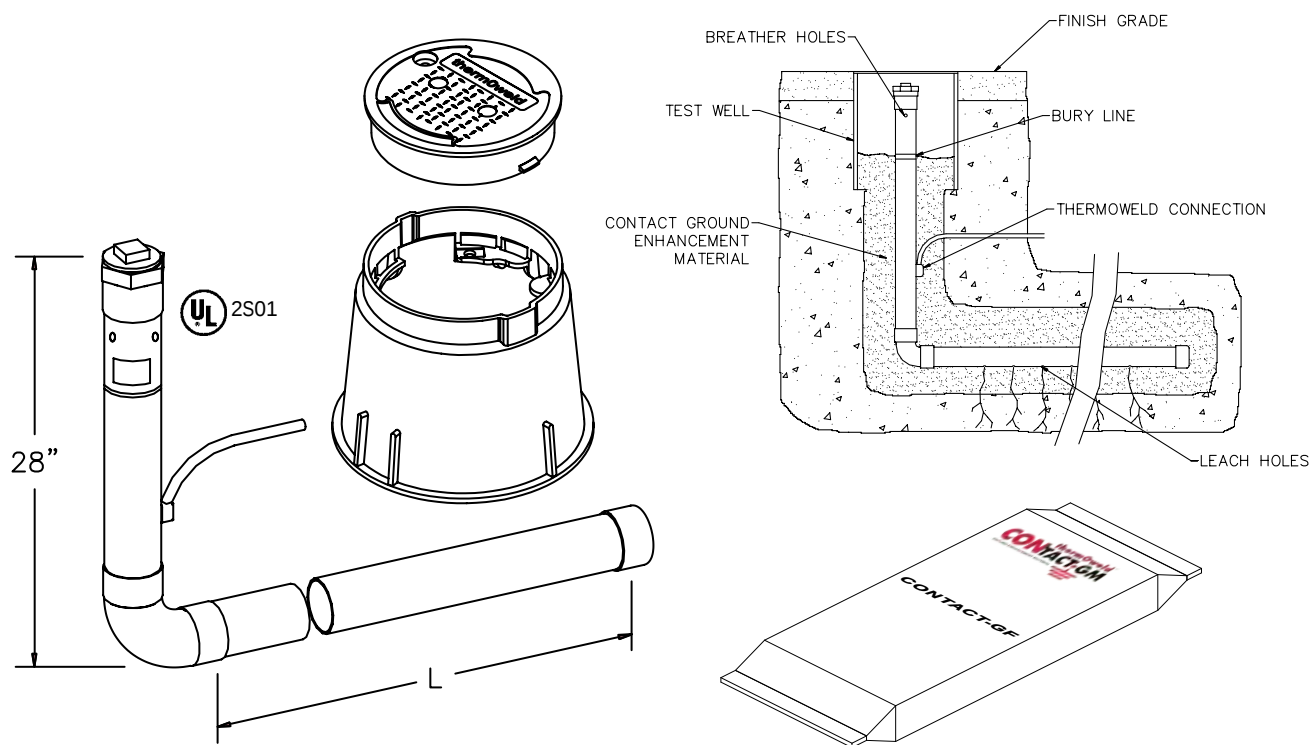
Catalog Number	Length	Inspection Well	Contact GF 25# Bag	Pigtail
38-6050-31	5'	Yes	2	5' - 4/0 STR
38-6050-32	10'	Yes	4	5' - #2 SOL (Tinned)
38-6050-33	10'	Yes	4	5' - 2/0 STR
38-6050-34	10'	Yes	4	5' - 4/0 STR
38-6050-35	20'	Yes	8	5' - #2 SOL (Tinned)
38-6050-36	20'	Yes	8	5' - 2/0 STR
38-6050-37	20'	Yes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

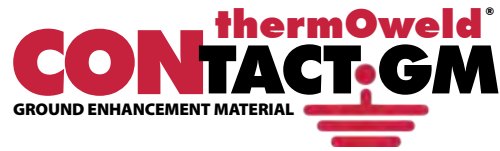
- Other sizes and conductor types available. Contact the factory for details.

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.

GROUNDING PRODUCTS

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.

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

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

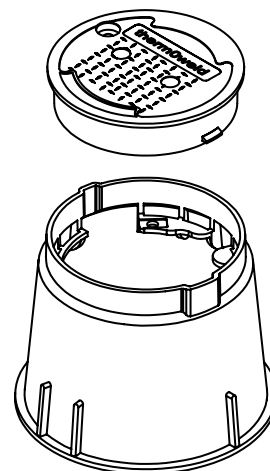


New Contact GP, featuring pelletized low-dust material for specialized applications, is in final development at the printing of this catalog. Contact thermOweld® for more information.

GROUND ACCESS WELLS

Light Duty Ground Access Well

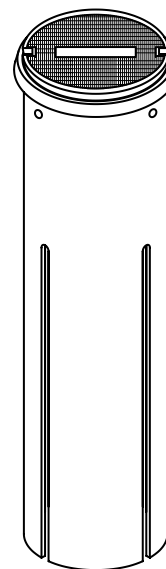
Catalog Number	Diameter	Length	Cover Type
38-6627-00	10"	10"	HDPE



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

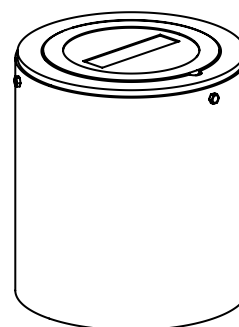
- 10" diameter Schedule 80 PVC well.
- Available in 36" and 42" lengths.
- Four 27" slots allow for ground electrode connections to be made before installation of test well.
- Cast iron cover fits into cast iron ring for extra support.
- For use in traffic areas.



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

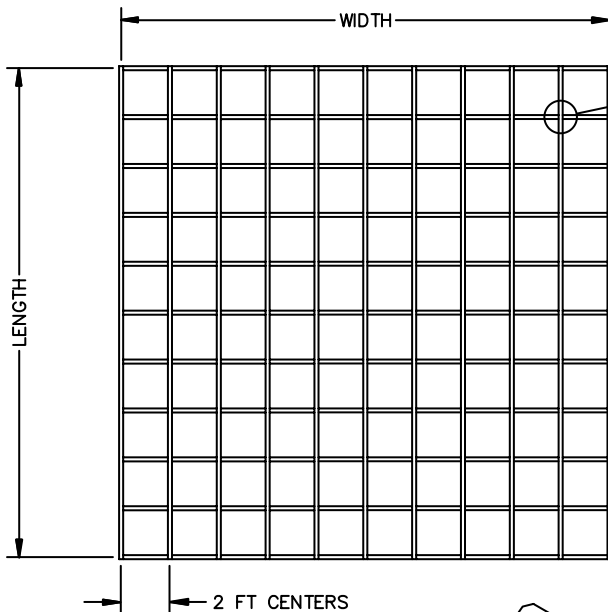
- 12" diameter Schedule 80 PVC well.
- Available in 12" and 30" lengths.
- Cast iron cover fits into cast iron ring for extra support.
- For use in traffic areas.



APPLICATION NOTES:

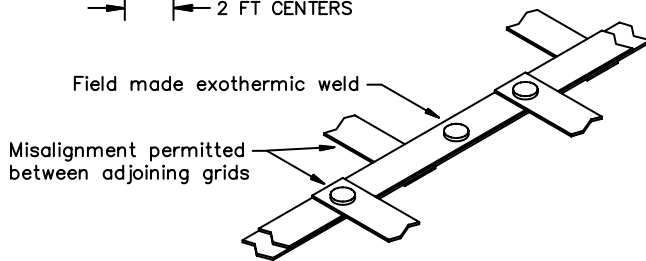
- Provides ready access to ground electrode for testing and inspection purposes.
- To prevent displacement by frost, the access well must be longer than the frost line is deep.

SIGNAL REFERENCE GRID (SRG)

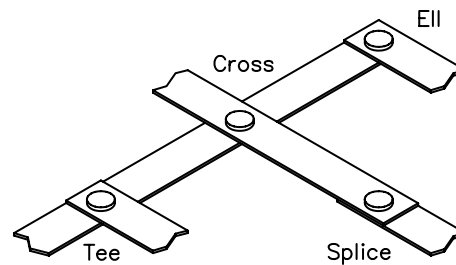


Signal Reference Grid Is:

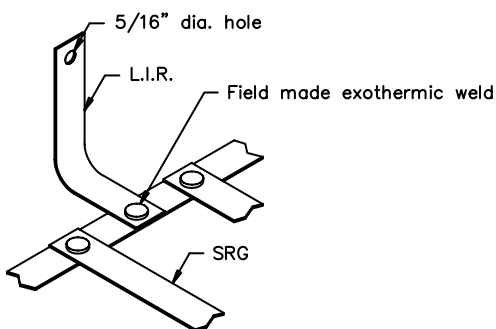
- manufactured from 2" x 26 Gage copper strips
- spaced on 2 ft centers
- factory welded at each crossover
- furnished in sections with widths from 4 ft to 18 ft (length limited by weight, approx. 200 lbs)
- shipped on tubes and protected for transporting
- interconnected in the field using thermOweld®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



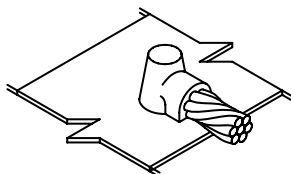
Adjoining sections of SRG are to be exothermically welded by installer using thermOweld® molds and powder



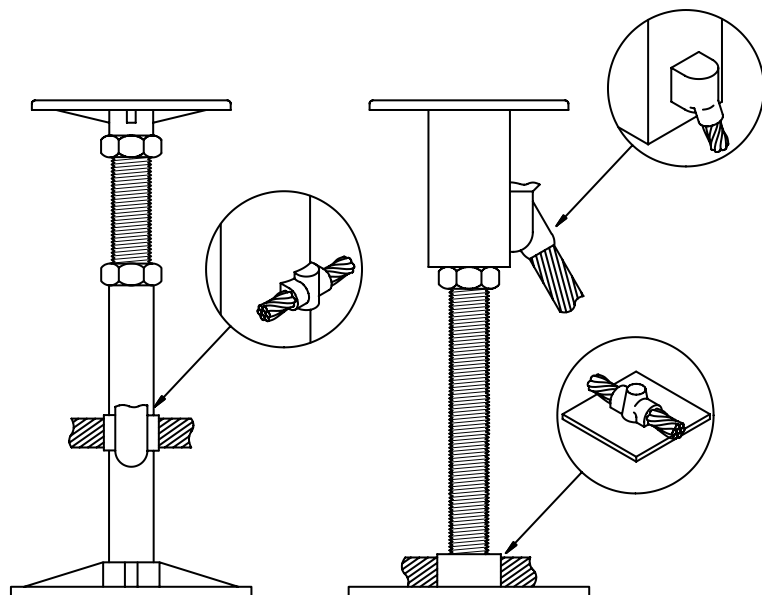
The same thermOweld® mold used to connect adjoining SRG's may be used to make splices, tees, ells or crosses



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

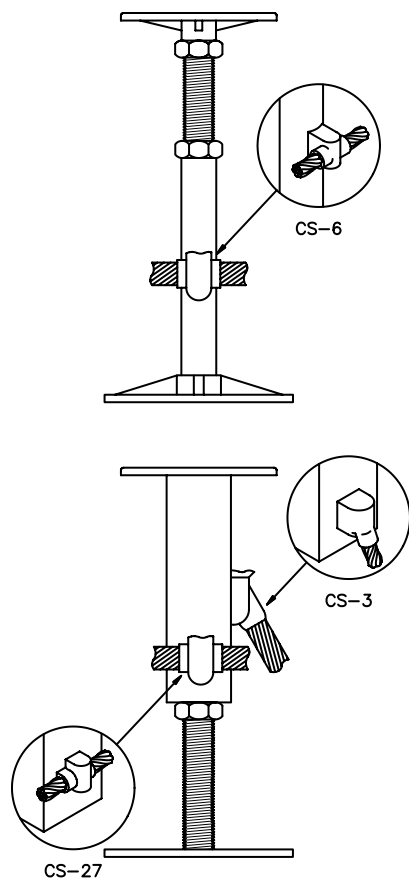


Bonding conductor exothermically
welded to SRG



Bonding conductor exothermically welded to
round and square floor pedestals

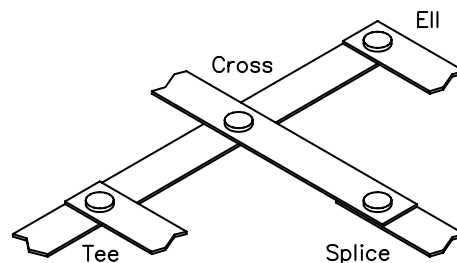
CABLE TO FLOOR PEDESTALS



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



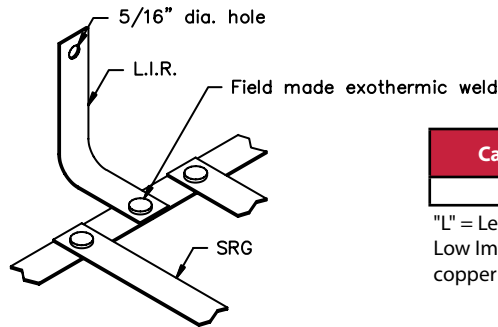
CABLE TO LUG CONNECTION



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



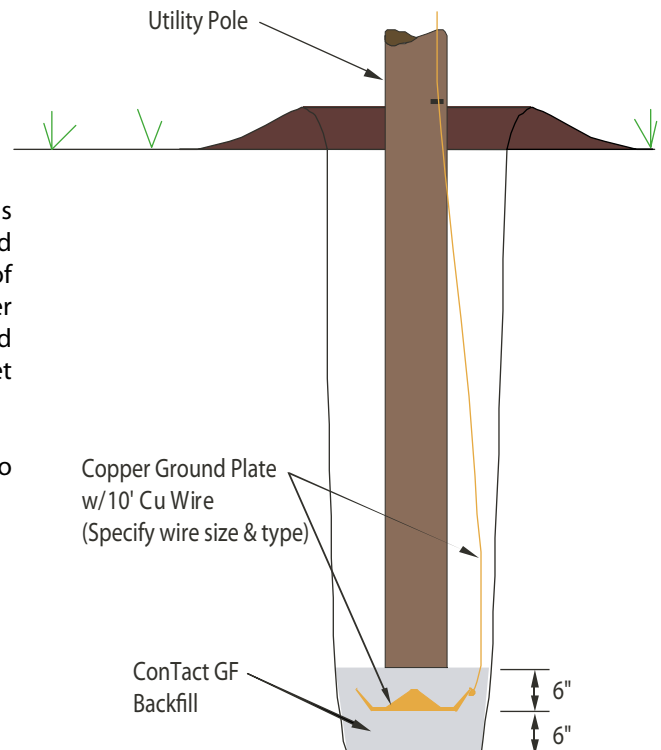
POLE PLATES

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

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.



GROUNDING PRODUCTS

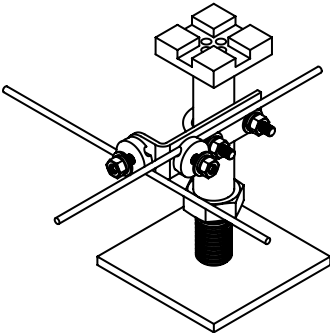
ROUND - WIRE SIGNAL
REFERENCE GRID

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

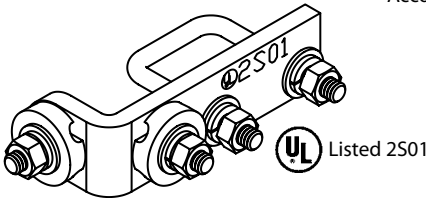
GROUND PEDESTAL CLAMPS

Section 8
Grounding Products

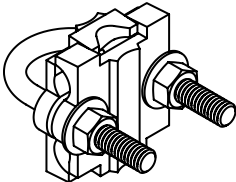


Catalog Number	U-Bolt Type	Pedestal Size	Conductor Size	Box Qty
38-6345-00	Square	1"	#6 STR	10
38-6346-00	Round	1"	#6 STR	10
38-6345-01	Square	1"	#4 STR	10
38-6346-01	Round	1"	#4 STR	10
38-6345-02	Square	1"	#2 STR	10
38-6346-02	Round	1"	#2 STR	10

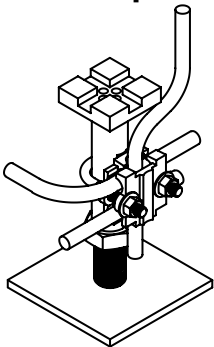
- Fits a 1" pedestal (1-1/8" OD).
- Accommodates cross runs without adding an additional connector.



38-6347-00 Ground Pedestal Clamp



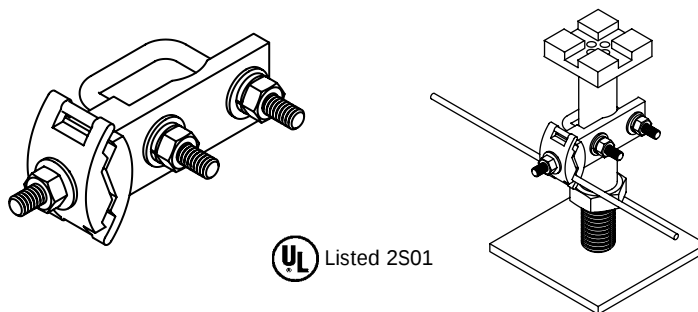
UL Listed 50H2



Ground lead to
equipment cabinet.

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

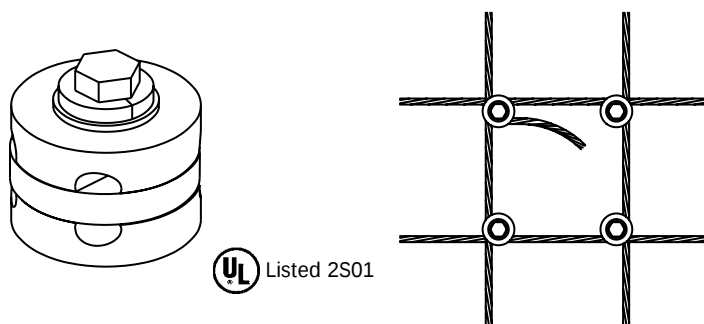
GROUND PEDESTAL CLAMPS



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

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

COMPUTER ROOM GROUND CLAMPS



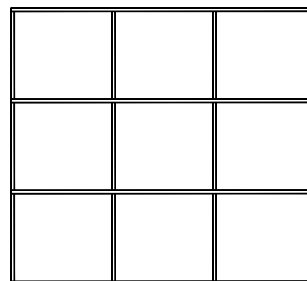
Catalog Number	Conductor Size	Box Qty
38-6348-00	#6 STR	25
38-6348-01	#4 STR	10
38-6348-02	#2 STR	10

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

GROUNDING PRODUCTS

UL LISTED PREFABRICATED COPPER GROUND MESH

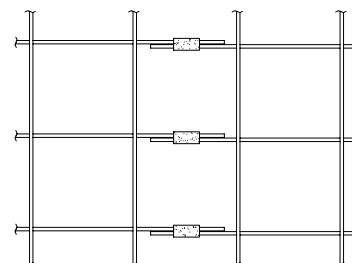
thermOweld® Prefabricated Wire Mesh can be supplied with no overhang, overlapping ends and butt splice ends.  Listed 2S01



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".

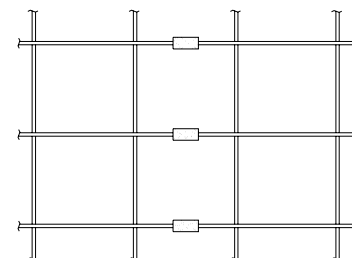
 Listed 2S01



"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

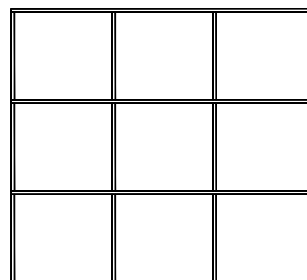


"Butt Splice" ends

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'

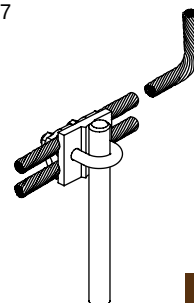
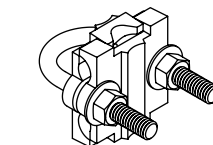


PIPE CLAMPS

- 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.

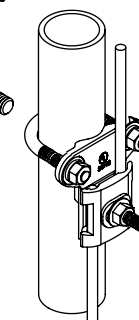
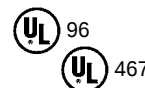
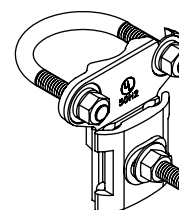
Pipe Range .5/.75

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



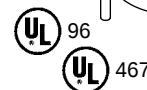
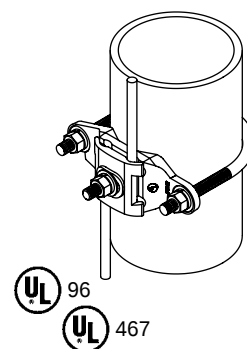
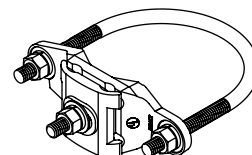
Pipe Range 1/1.25

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



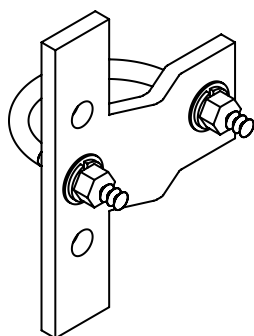
GROUNDING PRODUCTS

UNIVERSAL PIPE CLAMPS

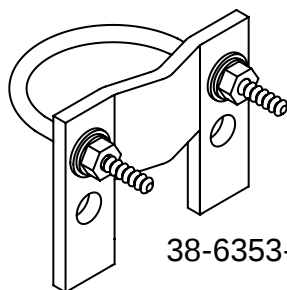
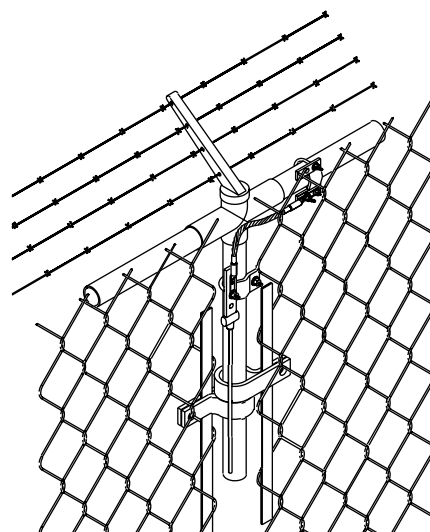
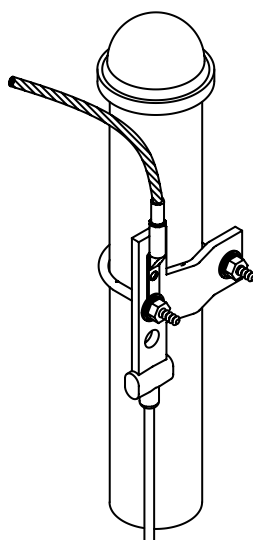
Catalog Number	Nominal Pipe Size	Box Qty
38-6352-00	.75" to 1.25"	10
38-6353-00	1.5" to 2"	10
38-6353-01	2.5" to 3"	5
38-6353-02	3.5" to 4"	5
38-6353-03	5" to 6"	10
38-6353-04	8"	5
38-6353-05	10"	5
38-6353-06	12"	5

- 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.

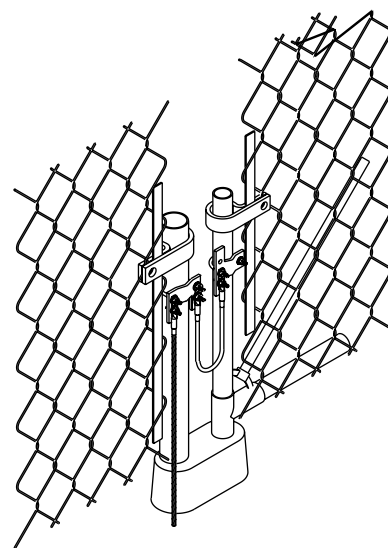
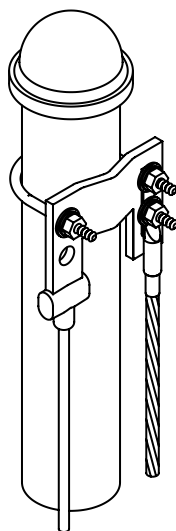
Section 8 Grounding Products



38-6352-00



38-6353-XX



FENCE CLAMP ASSEMBLIES

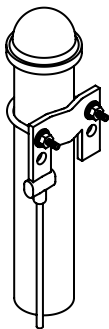


Figure 1
EXAMPLE
0000-38-6007-1D
3" Post

Left Ground Conductor is
#2 AWG Tinned Solid x 24" long
Right No Right Ground Conductor

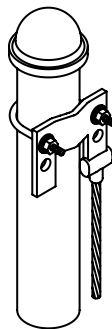


Figure 2
EXAMPLE
0000-38-6010-6L
4" Post

Left No Left Ground Conductor
Right Ground Conductor is
4/0 Concentric x 144" long

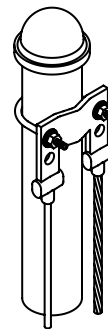


Figure 3
EXAMPLE
0000-38-6013-1D
1.5" Post

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 (‡)

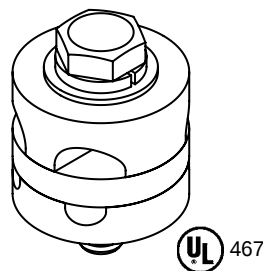
Conductor Length Codes

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

FENCE FABRIC GROUND CLAMPS

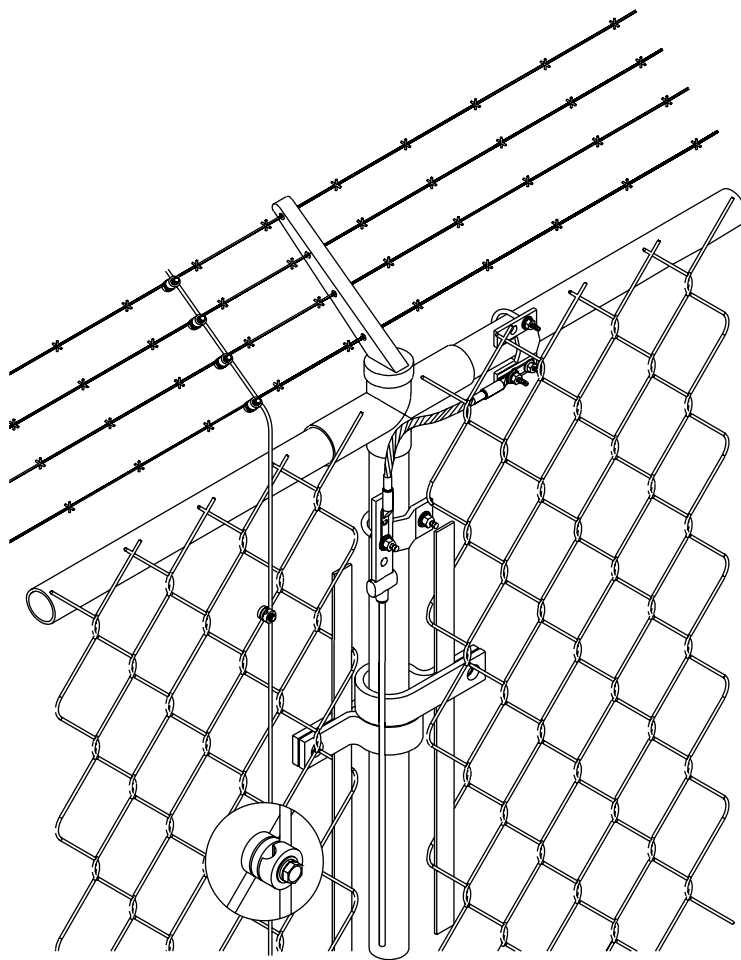
Catalog Number	Conductor Size	Box Qty
38-6354-00	#2	25
38-6354-01	#2 - 4/0	10

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



Fence Ground System

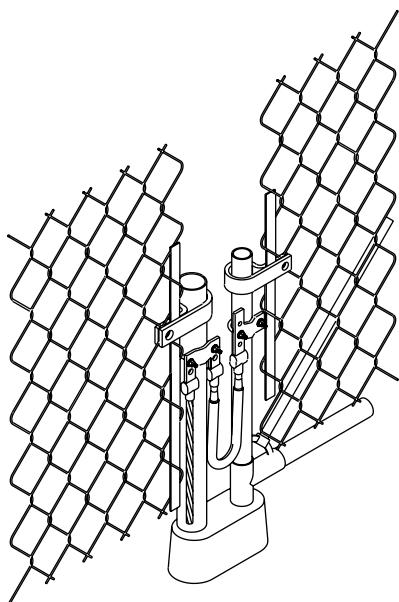
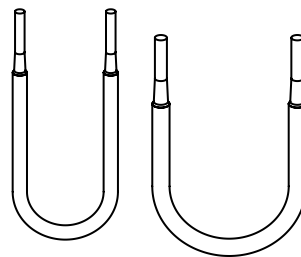
Fence grounding systems are designed to provide protection against dangerous “touch” potentials. The Fence Fabric Ground Clamp is an integral component of this personnel safety system.



FLEXIBLE GATE JUMPERS

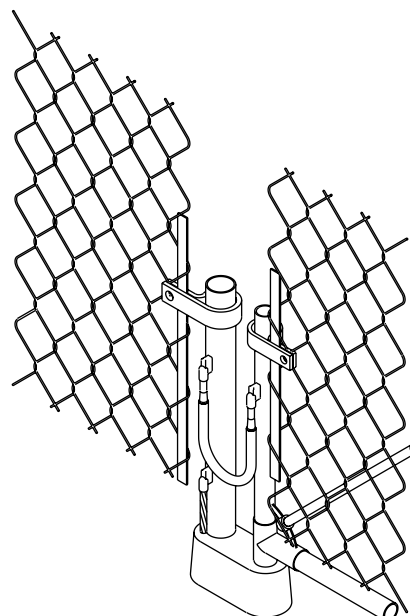
Catalog Number	Jumper Size	Mold Size	Box Qty
38-5532-24	#2	#2 SOLID	10
38-5533-24	2/0	2/0 STR	10
38-5534-24	4/0	4/0 STR	10

- 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

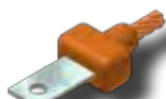


CS-23 Weld Type

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



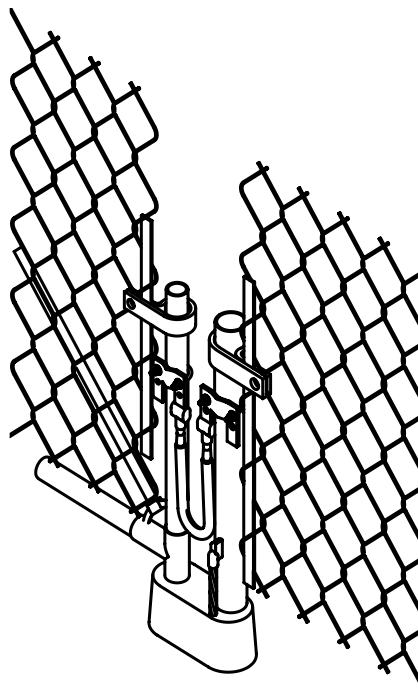
CS-23

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

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

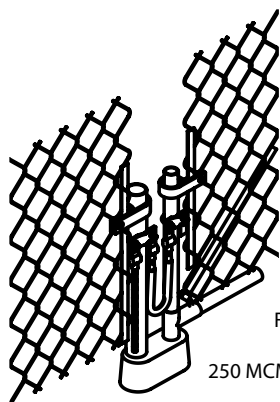
B = 12"
C = 18"
D = 24"
E = 36"
F = 48"

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-±±		Fits 3 1/2" to 4" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
38-7360-±±			Right Hand
38-6361-±±	2/0 W/C	Fits 1 1/2" to 2" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
38-7361-±±			Right Hand
38-6362-±±		Fits 2 1/2" to 3" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
38-7362-±±			Right Hand
38-6363-±±		Fits 2 1/2" to 3" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
38-7363-±±			Right Hand
38-6364-±±		Fits 3 1/2" to 4" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
38-7364-±±			Right Hand
38-6365-±±		Fits 3 1/2" to 4" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
38-7365-±±			Right Hand
38-6366-±±	#2 W/C	Fits 1 1/2" to 2" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
38-7366-±±			Right Hand
38-6367-±±		Fits 2 1/2" to 3" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
38-7367-±±			Right Hand
38-6368-±±		Fits 2 1/2" to 3" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
38-7368-±±			Right Hand
38-6369-±±		Fits 3 1/2" to 4" Gate Post & 3/4" to 1 1/4" Gate Frame	Left Hand
38-7369-±±			Right Hand
38-6370-±±		Fits 3 1/2" to 4" Gate Post & 1 1/2" to 2" Gate Frame	Left Hand
38-7370-±±			Right Hand

Chart A (+)

Ground Conductor Size Codes

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

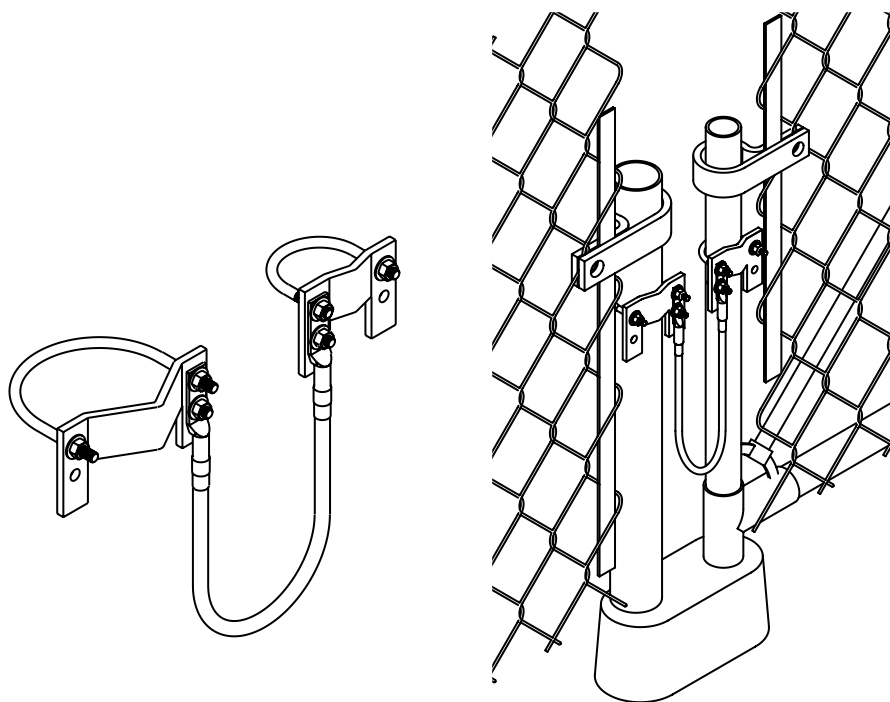
Chart B (±)

Ground Conductor Length Codes

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

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

FENCE GATE ASSEMBLIES (COMPRESSION LUGS)



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

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

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

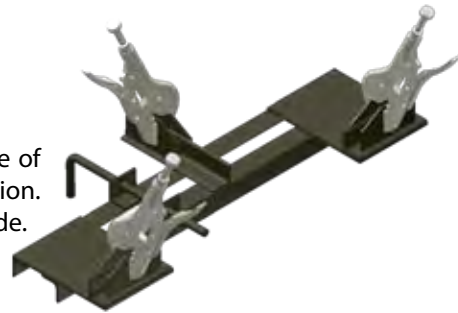
Part #38-412-05 for 5 lb package

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

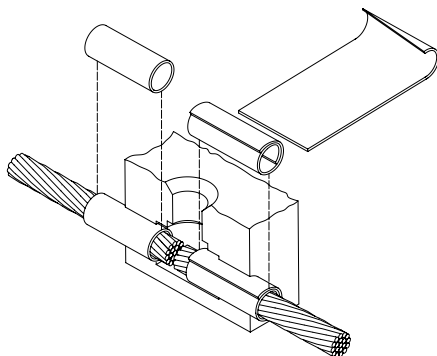
40-0319-03.....for cartridge sizes #90 thru #500

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

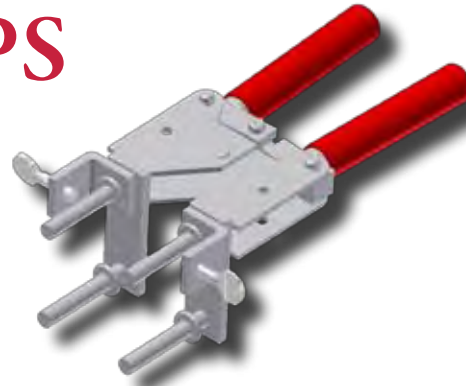
The average life of a mold is 50 plus welds depending on the care and treatment it receives. The maximum wear on a mold takes place at the mold openings due to forcing the mold shut over "out-of-round" conductors, hitting and then chipping openings with ends of conductors, etc. To increase the mold life, "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

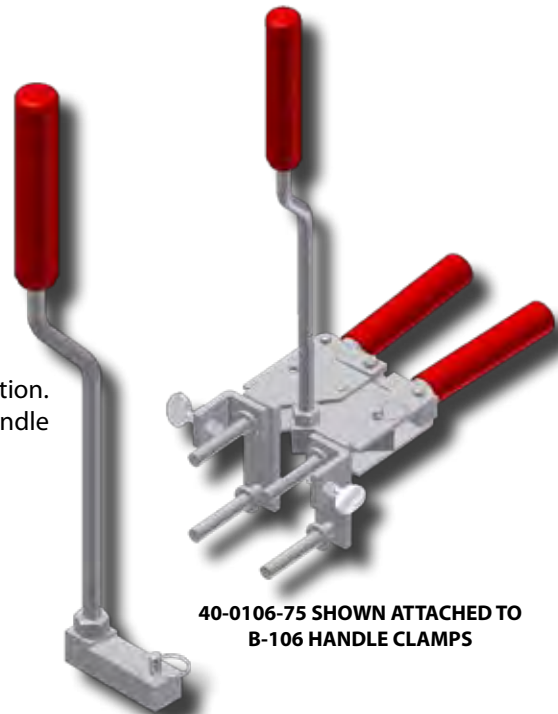
For most connections involving lugs, cable or rectangular bus, thermOweld® Handle Clamps are used. thermOweld® Handle Clamps make possible the use of many different sizes and types of molds with only two different clamps. The two handle clamps are catalog numbers B-106 and B-107. These will fit 95% of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



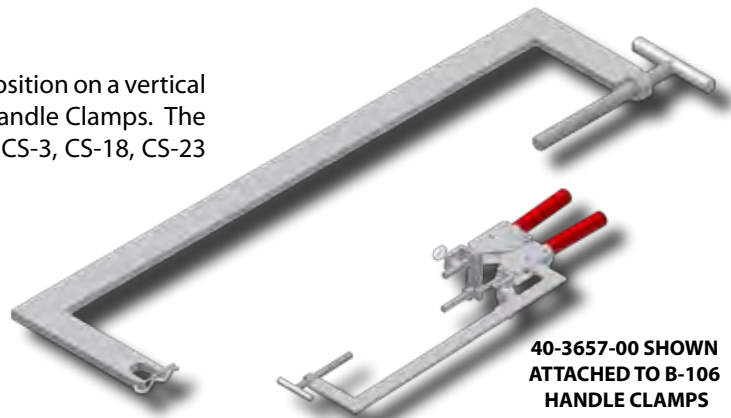
40-0106-75 SHOWN ATTACHED TO
B-106 HANDLE CLAMPS

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

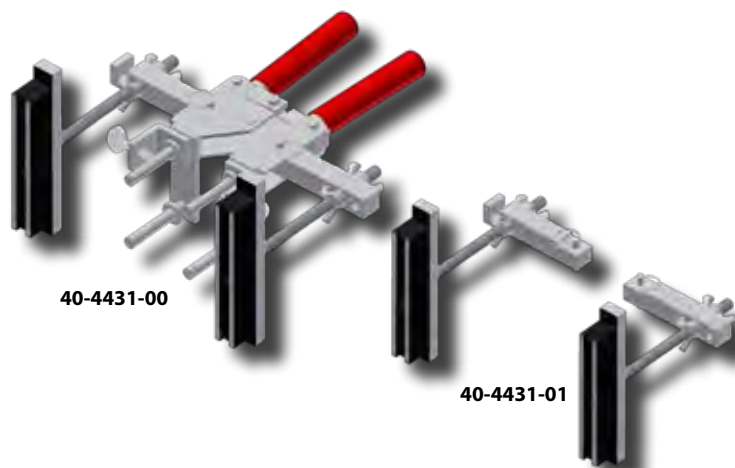


40-3657-00 SHOWN
ATTACHED TO B-106
HANDLE CLAMPS

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.

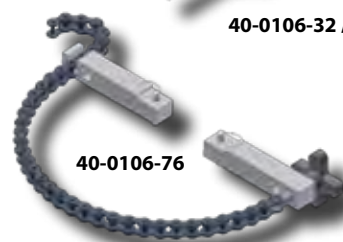
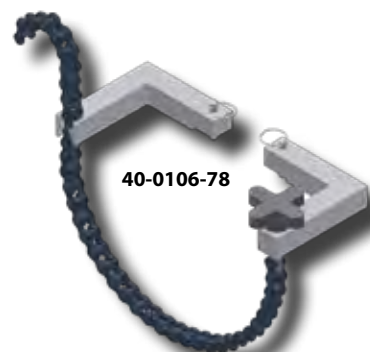


Vertical Magnetic Handle Clamps		
Catalog #	Fits Molds w/ Price Key	For Use With Weld Types
40-4431-00	4 & 17	CS-3, 4, 7 & 23
Magnetic Clamp Only		
Catalog #	Fits Handle Clamp	For Use With Weld Types
40-4431-01	B-106	CS-3, 4, 7 & 23

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.

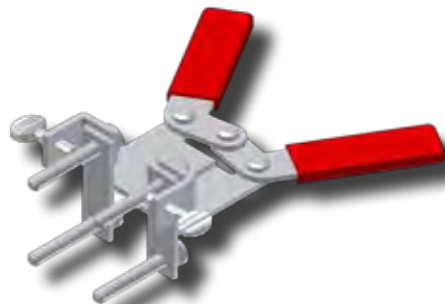
Chain Clamps			
Catalog #	Fits Molds w/ Price Key	For Use With Weld Types	Pipe Position
40-0106-32	4, 17, 22 & 24	CS-3, 4, 7, 23 & CRE-6	Vertical
40-0107-32	5, 6 & 23	CS-3, 4, 7 & 23	Vertical
40-0106-37	4, 17, 22 & 24	CS-1, 2, 5, 8 & 9	Horizontal
40-0107-37	5, 6 & 23	CS-1, 2, 5, 8 & 9	Horizontal
40-0106-41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



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

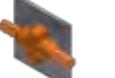


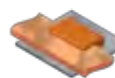
Section 10

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
10.4 Single Shot Connections	185
10.5 Cable to Steel or Cast Iron Connections	186-192
10.6 Cable to Lug Connections & Copper Lugs	193-195
10.7 Cable to Copper Bus Bar Connections	196-197
10.8 Copper Bus Bar to Copper Bus Bar Connections	198-200
10.9 Copper Bus Bar to Steel Connections.....	201-202
10.10 Steel Stud to Steel Connections.....	202
10.11 Copper Bus Bar to Ground Rod Connections.....	203-204
10.12 Cable to Reinforcing Bar (Rebar) Connections	205-206
10.13 Copper Bus Bar to Reinforcing Bar (Rebar) Connections	206

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

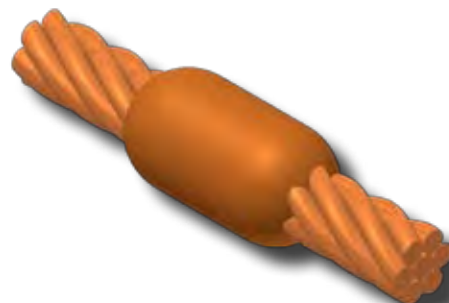
WELD TYPE		PG #
	BB-14	199
	BB-2	200
	BB-41	200
	BS-1	201
	BS-2	201
	BS-3	202
	RS-1	202
	RS-2	202
	BR-1	203
	BR-3	203
	BR-2	204
	BR-7	204
	CRE-1	205
	CRE-4	205
	CRE-6	206
	BRE-8	206

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

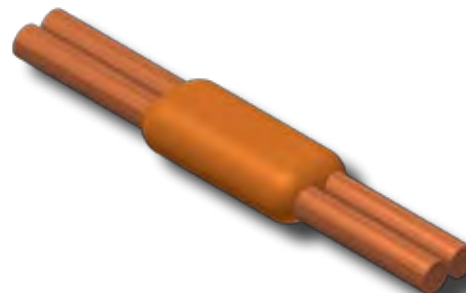


MOLDS FOR METRIC CONDUCTORS						
Cable (mm ²)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
10	10	M-10698	4	45	B-106	4
16	16	M-10699	4	65	B-106	4
25	25	M-10700	4	45	B-106	4
30	30	M-10701	4	45	B-106	4
35	35	M-10702	4	65	B-106	4
	25	M-10703	4	65	B-106	4
8 mm Ø	8 mm Ø	M-10704	4	90	B-106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

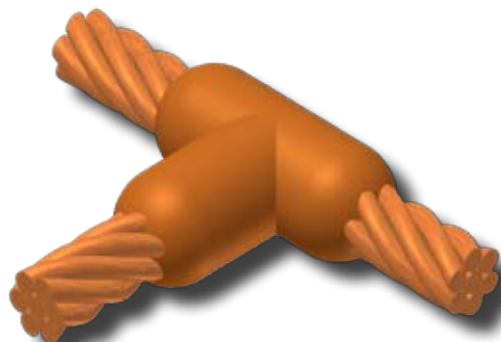


- For sizes not listed, contact thermOweld®.
- For heavy duty connections or molds with wear plates, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended 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 (mm ²)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
10	10	M-10780	4	32	B-106	4
16	16	M-10781	4	32	B-106	2
25	25	M-3021	4	45	B-106	2
5.6 mm Ø	5.6 mm Ø	M-2914	4	45	B-106	4
30	30	M-2915	4	45	B-106	4
35	35	M-3022	4	45	B-106	2
	25	M-3023	4	45	B-106	2
8 mm Ø	8 mm Ø	M-2949	4	65	B-106	2
50	50	M-3024	4	90	B-106	2
	35	M-3025	4	65	B-106	2
	25	M-3026	4	65	B-106	2
10 mm Ø	10 mm Ø	M-2916	4	90	B-106	2
70	70	M-3031	4	90	B-106	2
	50	M-3033	4	90	B-106	2
	35	M-3034	4	65	B-106	2
	25	M-3035	4	65	B-106	2
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

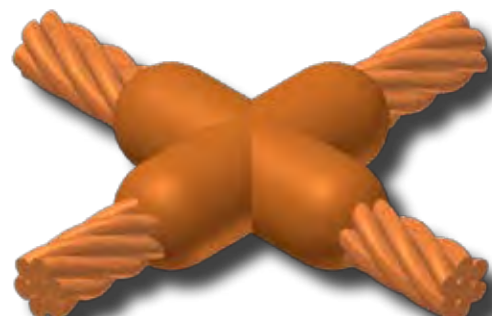
MOLDS FOR METRIC CONDUCTORS						
Cable (mm ²)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
10	10	M-10856	4	32	B-106	4
16	16	M-10782	4	45	B-106	4
25	25	M-3147	4	45	B-106	2
30	30	M-2926	4	45	B-106	4
35	35	M-3148	4	65	B-106	2
	25	M-3149	4	65	B-106	2
8 mm Ø	8 mm Ø	M-2950	4	90	B-106	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-4

TYPE MOLDS

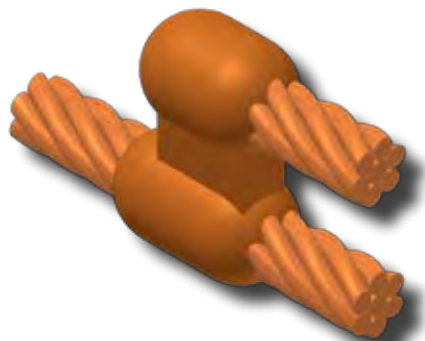
Horizontal to Horizontal Cable Cross
For Metric Conductors



CC-6

TYPE MOLDS

Horizontal Parallel Tap
For Metric Conductors



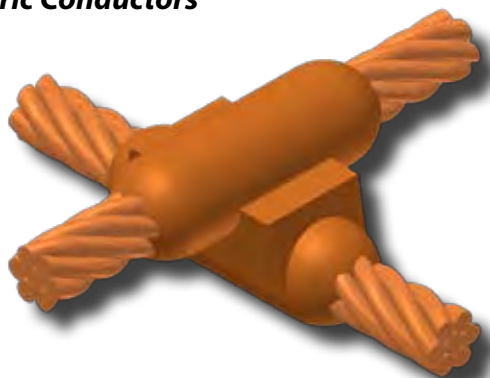
MOLDS FOR METRIC CONDUCTORS

Cable (mm ²)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
10	10	M-10783	4	25	B-106	4
16	16	M-9993	4	32	B-106	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



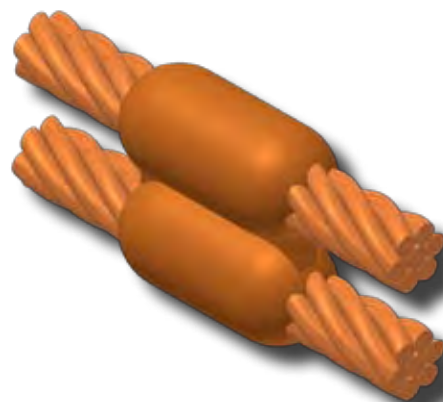
MOLDS FOR METRIC CONDUCTORS

Cable (mm ²)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
25	25	M-8762	4	65	B-106	4
35	35	M-4980	4	90	B-106	2
50	50	M-4981	22	150	B-106	2
70	70	M-4060	22	200	B-106	2
95	95	M-3732	22	250	B-106	4
120	120	M-4289	22	2-150	B-106	2
150	150	M-4749	23	2-200	B-107	2
185	185	M-4145	23	500	B-107	2
240	240	M-3044	23	3-200	B-107	2
300	300	M-3392	23	2-500	B-107	2

- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections 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

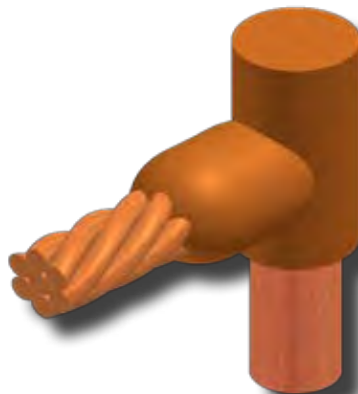
MOLDS FOR METRIC CONDUCTORS						
Cable (mm ²)		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
10	10	M-10784	4	25	B-106	4
16	16	M-10785	4	32	B-106	4
25	25	M-3254	4	45	B-106	2
30	30	M-4348	4	45	B-106	4
35	35	M-3255	4	65	B-106	2
	25	M-3256	4	65	B-106	4
8 mm Ø	8 mm Ø	M-4643	4	90	B-106	2
50	50	M-3257	4	90	B-106	2
	35	M-3258	4	90	B-106	4
	25	M-3259	4	65	B-106	4
10 mm Ø	10 mm Ø	M-4350	4	115	B-106	4
70	70	M-3264	4	115	B-106	2
	50	M-3266	4	115	B-106	2
	35	M-3267	4	90	B-106	2
	25	M-3268	4	90	B-106	2
95	95	M-3274	4	150	B-106	2
	70	M-3276	4	115	B-106	4
	50	M-3278	4	115	B-106	2
	35	M-3279	4	115	B-106	4
120	120	M-3280	4	200	B-106	2
	95	M-3281	4	200	B-106	2
	70	M-3283	4	150	B-106	2
	50	M-3285	4	150	B-106	4
150	150	M-3286	5	2-150	B-107	2
	120	M-3287	4	250	B-106	2
	95	M-3288	4	200	B-106	2
	70	M-3290	4	150	B-106	4
185	185	M-3292	5	2-150	B-107	2
	150	M-3293	5	2-150	B-107	2
	120	M-3294	4	250	B-106	2
	95	M-3295	4	200	B-106	4
240	240	M-3298	5	2-200	B-107	2
	185	M-3299	5	2-150	B-107	4
	150	M-3300	5	2-150	B-107	4
	120	M-3301	4	250	B-106	2
300	300	M-3304	5	500	B-107	2
	240	M-3305	5	500	B-107	2
	185	M-3306	5	2-200	B-107	4
	150	M-3307	5	2-150	B-107	2

- For sizes not listed, contact thermOweld®.
- For heavy duty connections 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
	120	M-3328	4	90	B-106	4
14.3	5.6 mm Ø	M-4381	4	65	B-106	4
	25	M-3336	4	65	B-106	2
	30	M-4392	4	65	B-106	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
	150	M-3344	4	115	B-106	2
17.2	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

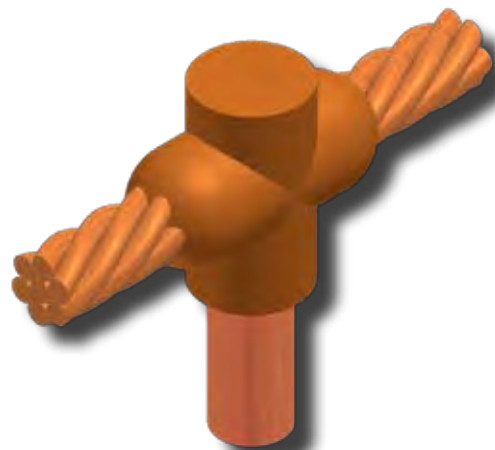
MOLDS FOR METRIC CONDUCTORS						
Ground Rod Size (mm)	Cable Size (mm ²)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
12.8	10	M-10788	4	65	B-106	4
	16	M-10789	4	90	B-106	2
	25	M-3372	4	90	B-106	2
	5.6 mm Ø	M-4486	4	90	B-106	4
	30	M-4503	4	90	B-106	4
	35	M-3373	4	90	B-106	2
	50	M-3374	4	90	B-106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

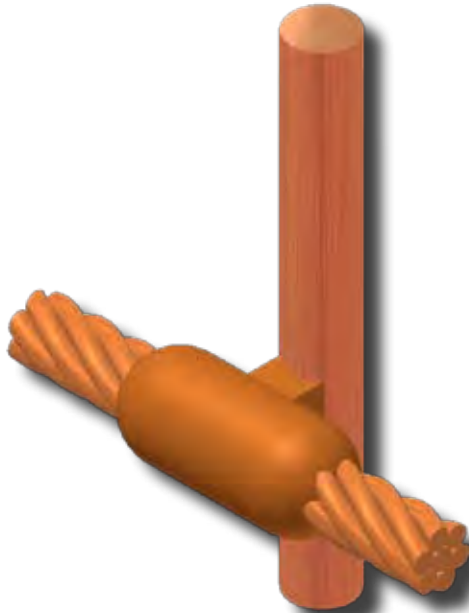
Horizontal Cable to Ground Rod
For Metric Conductors



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



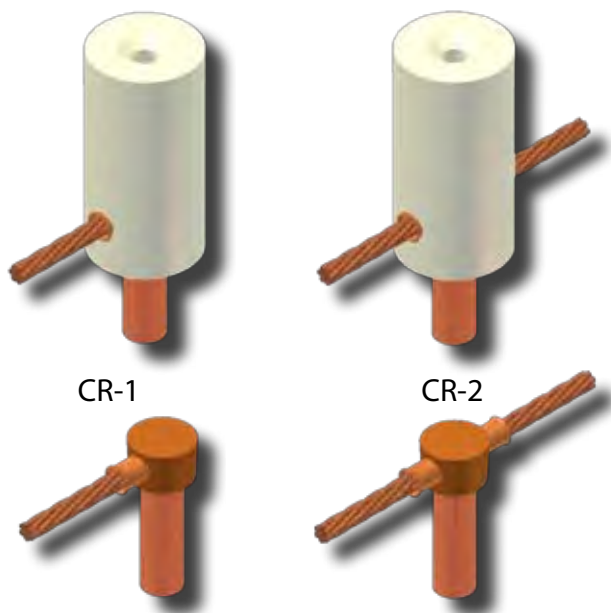
MOLDS FOR METRIC CONDUCTORS

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

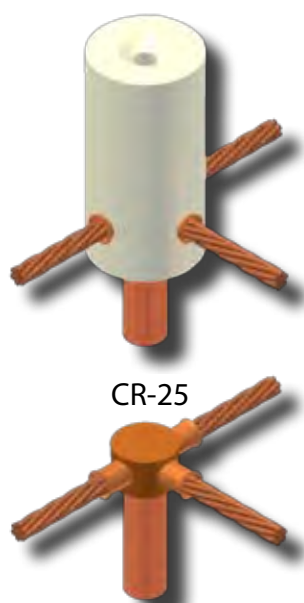
SINGLE SHOT MOLDS

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.



CR-1

CR-2



CR-25

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

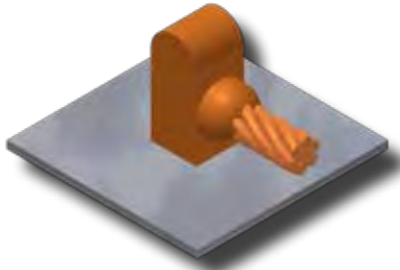
CS-1

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)

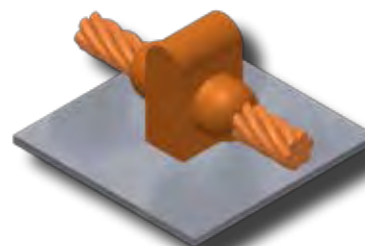
MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm ²)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
8 mm Ø	M-4537	4	90	B-106	2
50	M-4538	4	90	B-106	2
10 mm Ø	M-4551	4	115	B-106	4
70	M-4552	4	115	B-106	2
95	M-4560	4	115	B-106	2
120	M-4585	4	150	B-106	2
150	M-4592	4	200	B-106	4
185	M-4602	4	250	B-106	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



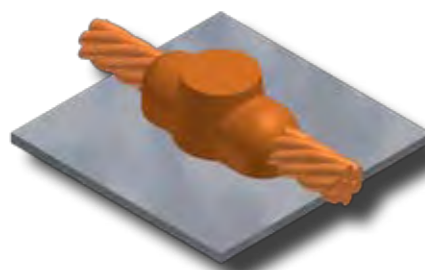
MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm ²)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	M-10793	3†	45	Not Req'd	4
16	M-10794	3†	45	Not Req'd	4
25	M-3496	3†	45	Not Req'd	2
30	M-4638	3†	45	Not Req'd	4
35	M-3497	3†	45	Not Req'd	4
8 mm Ø	M-4641	4	90	B-106	4
50	M-3498	4	90	B-106	2
10 mm 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



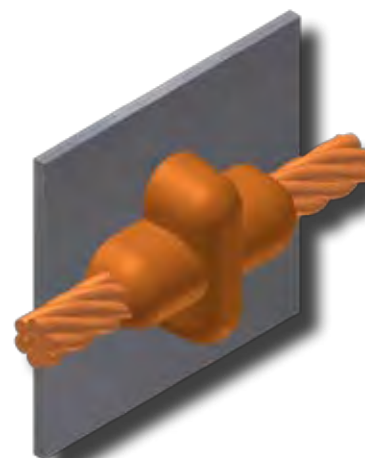
MOLDS FOR METRIC CONDUCTORS					
Cable Size (mm ²)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	M-10804	4	45	B-106	4
16	M-3522	4	45	B-106	4
25	M-3523	4	45	B-106	2
30	M-4779	4	45	B-106	4
35	M-3524	4	45	B-106	2
8 mm Ø	M-4780	4	65	B-106	4
50	M-3525	4	65	B-106	2
10 mm Ø	M-4833	4	115	B-106	4
70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



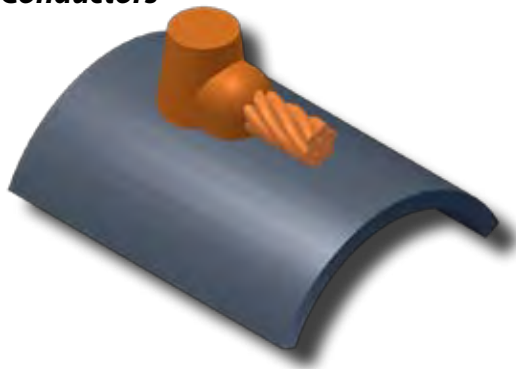
- **For sizes not listed, contact thermOweld®.**
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - † ~ Sold complete with frame
 - 38-0309-00 ~ Flint Ignitor
- Other recommended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



CP Kit



CP Kit Contains	
Flat to 125mm & Larger Pipe	
(1) M-4147 Mold	
(80) 15PS Cartridges	
(80) Sleeves	
Flint Ignitor	
Mold Cleaner	
Part #	
38-4518-00	

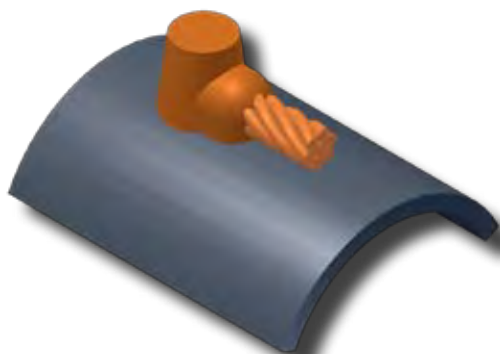
MOLDS FOR METRIC CONDUCTORS						
Cable Size (mm ²)	Pipe Dia. in mm	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2.5, 4 & 6	up to 125	M-4146†	3†	15CP	Not Req'd	2
2.5, 4 & 6	over 125	M-4147†	3†	15CP	Not Req'd	2
10	up to 125	M-4148	3†	25CP	Not Req'd	2
	over 125	M-4149	3†	25CP	Not Req'd	2
16	up to 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.

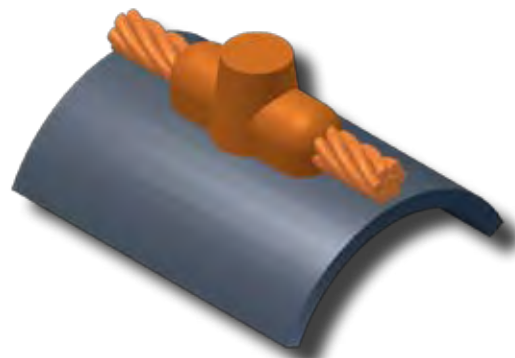
- For sizes not listed, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - † ~ Sold complete with frame
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 40-0319-01 ~ Mold Cleaner for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

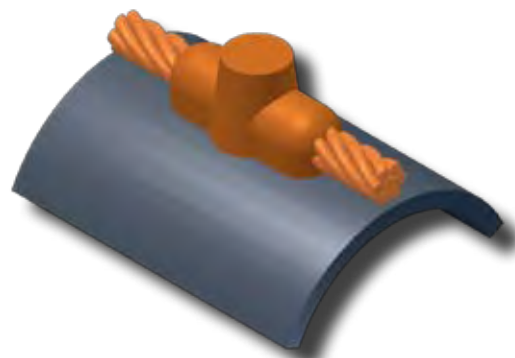
Horizontal Thru Cable to Horizontal Steel Pipe
For Metric Conductors

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

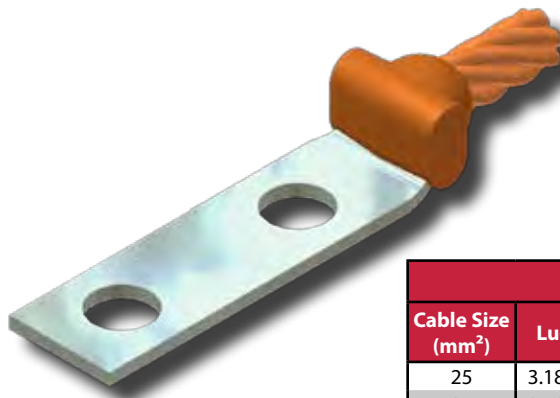
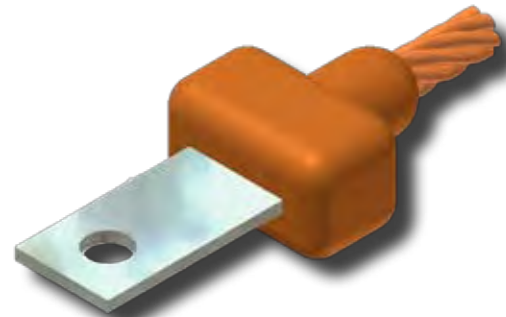
CB-1

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

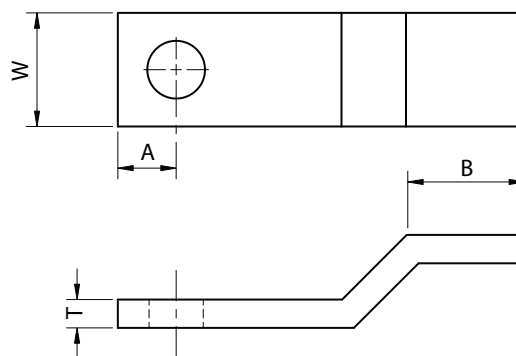
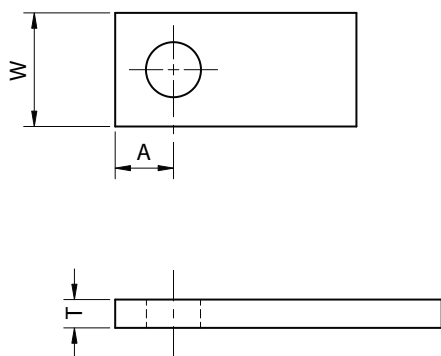
STRAIGHT AND OFFSET COPPER LUGS



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

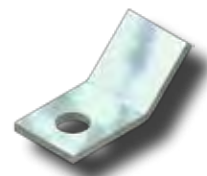
For sizes not listed, contact thermOweld®.



45° COPPER LUGS

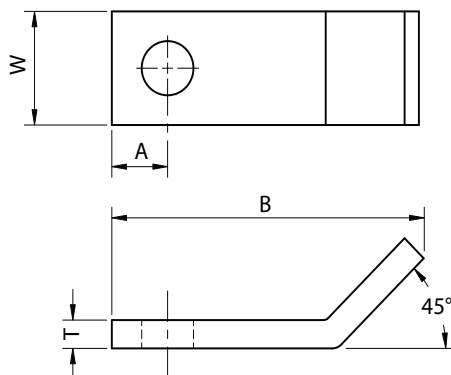
thermOweld® 45° lugs are designed to be used with CB-1 Type Molds listed on page 135. The lugs are made from electrolytic grade copper bar stock and tin plated. The lugs are available with one, two or four bolt holes with NEMA spacing. For lug sizes not listed, contact thermOweld®.

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®.



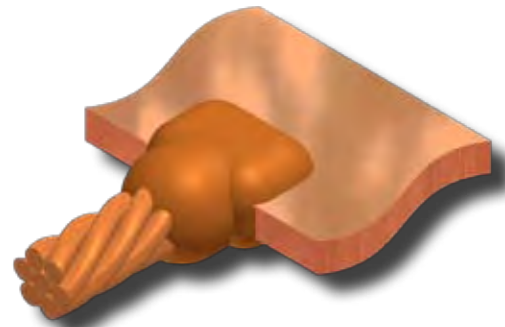
CB-4

TYPE MOLDS

For Metric Conductors

Horizontal Cable Tap to Horizontal Bus

For AWG Conductors



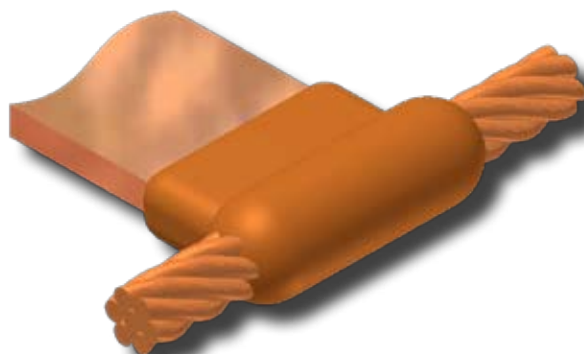
MOLDS FOR METRIC CONDUCTORS						
Cable Size (mm ²)	Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	2 X 20	M-10814	4	25	B-106	4
16	2 X 20	M-10815	4	32	B-106	4
25	2 X 20	M-3563	4	25	B-106	2
35	2 X 20	M-3565	4	32	B-106	2
30	2 X 25	M-3566	4	45	B-106	4
50	2 X 25	M-3567	4	45	B-106	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

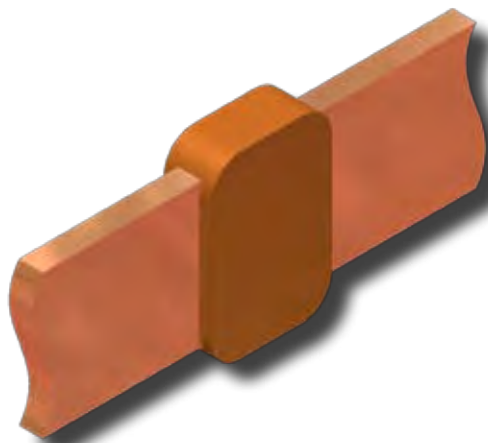
Cable Size (mm ²)	Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
10	2 X 20	M-10816	4	45	B-106	4
16	2 X 20	M-10817	4	45	B-106	4
25	2 X 20	M-3595	4	45	B-106	4
35	2 X 20	M-3596	4	45	B-106	4
30	2 X 25	M-3597	4	65	B-106	4
50	2 X 25	M-3598	4	65	B-106	4
	3 X 25	M-3599	4	65	B-106	2
8 mm 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

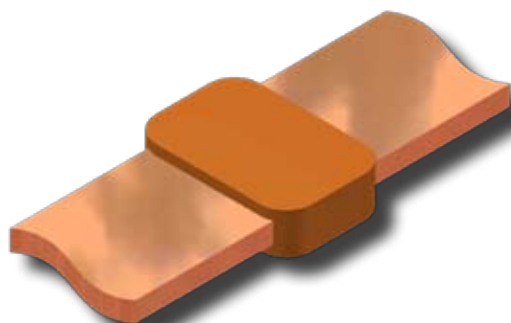


MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-3628	4	45	B-106	4
2 X 25	M-3629	4	65	B-106	4
2 X 30	M-3630	4	65	B-106	2
3 X 20	M-3631	4	45	B-106	4
3 X 25	M-3632	4	65	B-106	2
3 X 30	M-3633	4	90	B-106	4
3 X 40	M-3634	4	115	B-106	4
4 X 25	M-3635	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

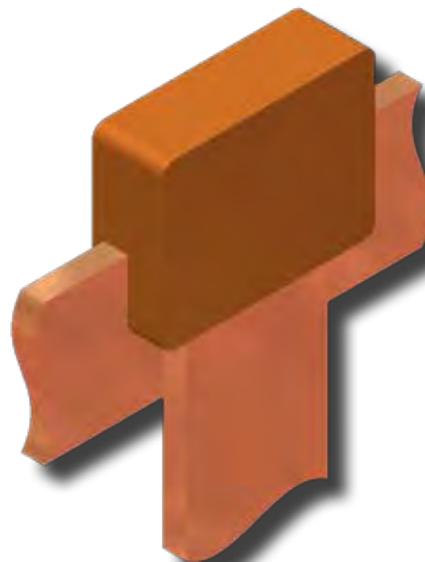
MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-3831	4	45	B-106	4
2 X 25	M-3832	4	45	B-106	4
2 X 30	M-3833	4	65	B-106	2
3 X 20	M-3834	4	45	B-106	4
3 X 25	M-3835	4	65	B-106	2
3 X 30	M-3836	4	65	B-106	2
3 X 40	M-3837	4	90	B-106	4
4 X 20	M-3838	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

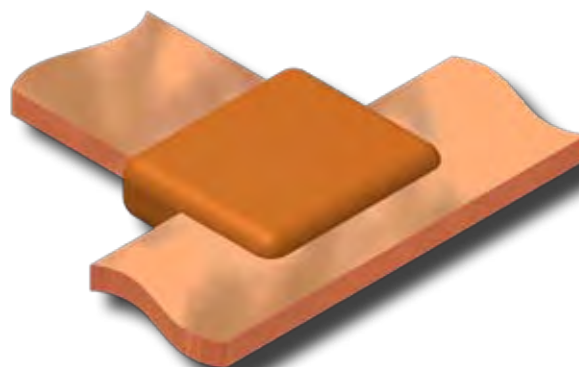
Vertical Drop Tap to Horizontal Run
For Metric Conductors



BB-14

TYPE MOLDS

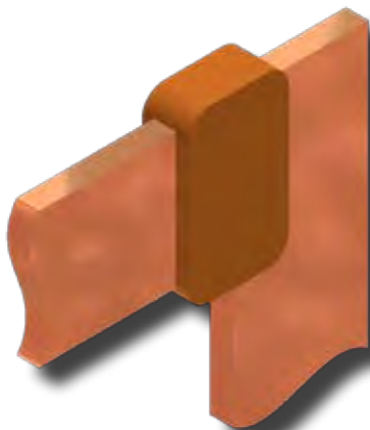
Horizontal Flat Bus Run and Tap
For Metric Conductors



BB-2

TYPE MOLDS

Horizontal to Vertical at Right Angle

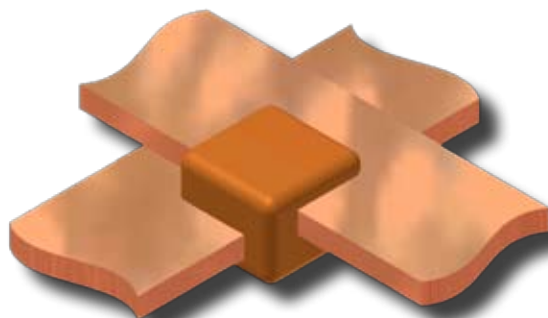


MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-10831	4	45	B-106	4
2 X 25	M-10832	4	45	B-106	4
2 X 30	M-10833	4	45	B-106	4
3 X 20	M-4514	4	45	B-106	2
3 X 25	M-4509	4	45	B-106	2
3 X 30	M-10834	4	65	B-106	4
3 X 40	M-5977	4	65	B-106	4
4 X 25	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

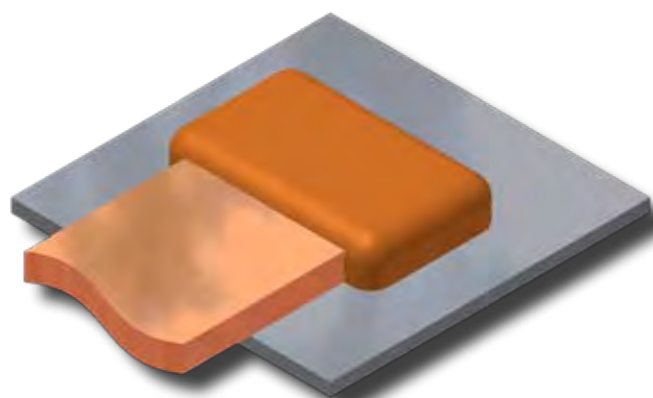


MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-4090	4	65	B-106	4
2 X 25	M-4091	4	90	B-106	4
3 X 20	M-4092	4	90	B-106	4
3 X 25	M-4093	4	90	B-106	2
3 X 30	M-4094	4	115	B-106	4
3 X 40	M-4095	4	115	B-106	4
4 X 25	M-4096	4	90	B-106	4
4 X 30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

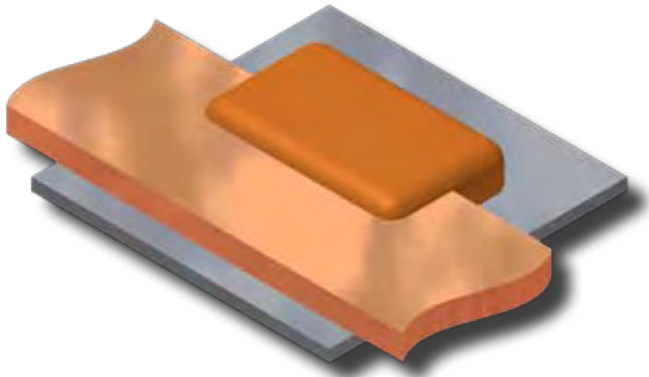


- For sizes not listed, contact thermOweld®.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- Required Tools;
 - Handle Clamps w/ Flint Ignitor (see chart for correct handles)
 - 38-0309-00 ~ Flint Ignitor
- Other recommended accessories;
 - 38-3922-00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



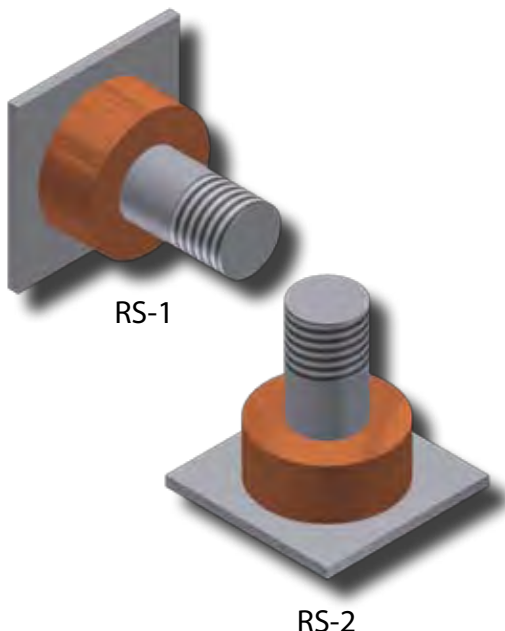
MOLDS FOR METRIC CONDUCTORS					
Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
2 X 20	M-2892	4	65	B-106	4
2 X 25	M-2893	4	90	B-106	4
3 X 20	M-2909	4	90	B-106	4
3 X 25	M-2911	4	115	B-106	2
3 X 30	M-2912	4	115	B-106	2
3 X 40	M-2913	4	150	B-106	4
4 X 25	M-2939	4	115	B-106	4
4 X 30	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

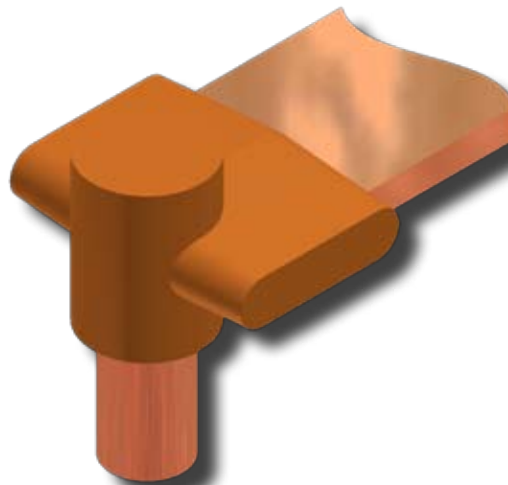
MOLDS FOR METRIC CONDUCTORS						
Ground Rod Size (mm)	Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
12.8	2 X 20	M-3912	4	65	B-106	4
	2 X 25	M-3913	4	65	B-106	4
	2 X 30	M-3914	4	90	B-106	4
	3 X 20	M-3915	4	90	B-106	4
	3 X 25	M-3916	4	90	B-106	4
	3 X 30	M-3917	4	90	B-106	4
	3 X 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

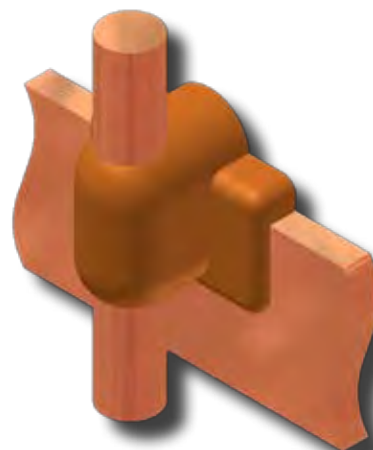
Horizontal Bus Terminal to Ground Rod
For Metric Conductors



BR-3

TYPE MOLDS

Horizontal Thru Bus to Ground Rod
For Metric Conductors

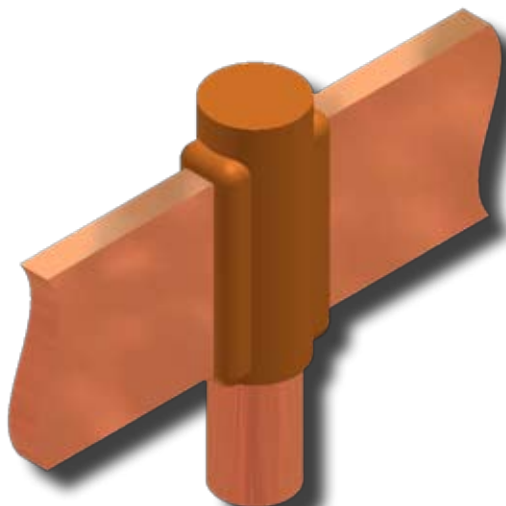


MOLDS FOR METRIC CONDUCTORS						
Ground Rod Size (mm)	Bus Bar Size (mm)	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
12.8	3 X 25	M-10778	24	200	B-106	4
14.3	3 X 25	M-2919	24	200	B-106	4
17.2	3 X 25	M-10779	24	2-200	B-106	4

BR-2

TYPE MOLDS

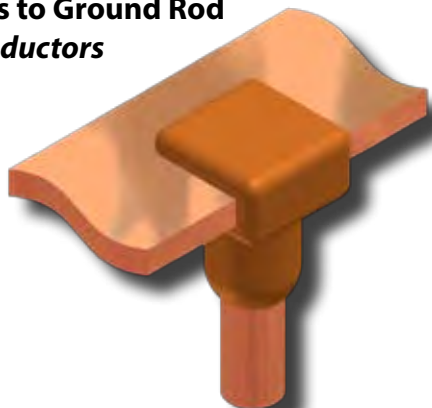
Horizontal Bus to Ground Rod
For Metric Conductors



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
	4 X 25	M-3958	4	90	B-106	4
14.3	2 X 30	M-3959	4	90	B-106	4
	3 X 20	M-3960	4	90	B-106	4
	3 X 25	M-3961	4	90	B-106	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
	6 X 50	M-3974	4	250	B-106	2
17.2	2 X 30	M-3975	4	150	B-106	4
	3 X 20	M-3976	4	150	B-106	4
	3 X 25	M-3977	4	150	B-106	2
	3 X 30	M-3978	4	150	B-106	4
	3 X 40	M-3979	4	200	B-106	4
	3 X 50	M-3980	5	2-150	B-107	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

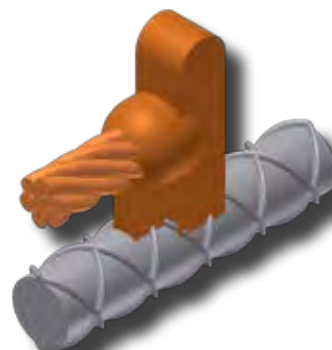
MOLDS FOR AWG CONDUCTORS

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



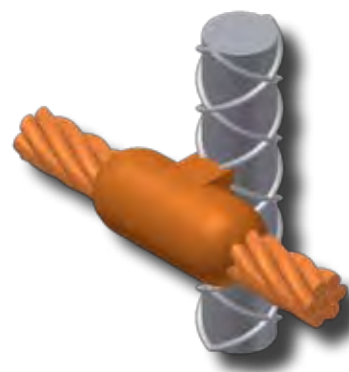
MOLDS FOR AWG CONDUCTORS

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

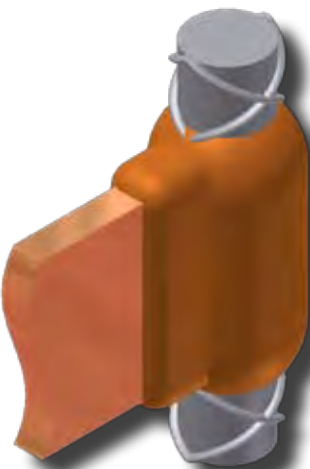


MOLDS FOR AWG CONDUCTORS							
Rebar Size (mm)	Cable Size (mm ²)	Mold #	Packing Mat'l # See Note	Price Key	Weld Metal	Handle Clamps	Lead Time
12	25	M-10766	38-0329	4	65	B-106	4
	35	M-10767	38-0329	4	65	B-106	4
	50	M-10768	38-0329	4	115	B-106	4
	70	M-3740	38-0329	4	115	B-106	4
	95	M-10769	38-0329	4	150	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.



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)

Description	Page #
11.1 Ground Rods	210-212
11.2 Ground Rod Accessories	212-213
11.3 Inspection Pits & Accessories	214-215
11.4 Earthing Compound.....	215
11.5 Earth Plates & Lattice.....	216
11.6 Ground Rod Clamps	217-220
11.7 Earth Bonds	221-222
11.8 Earth Bonding Points	223
11.9 Earth Bonds & Seals	224
11.10 Split Bolts & Crimps.....	225
11.11 Flexible Bonds & Clamps.....	226
11.12 Earth Bars & Disconnection Links	227
11.13 Taper Pointed Air Rods, Air Terminals & Attachments.....	228-229
11.14 Saddles & Attachments	230-231
11.15 Air Terminals & Attachments	232
11.16 Conductors	233-235
11.17 Guards & Flanges	236
11.18 Conductor Attachments	237-240
11.19 Test Clamps, Clamps, Bonds & Clamps	241-244
11.20 Test, Junction & Rebar Clamps.....	245-246
11.21 Petrolatum Tape	246
11.22 Accessories.....	247-248

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)

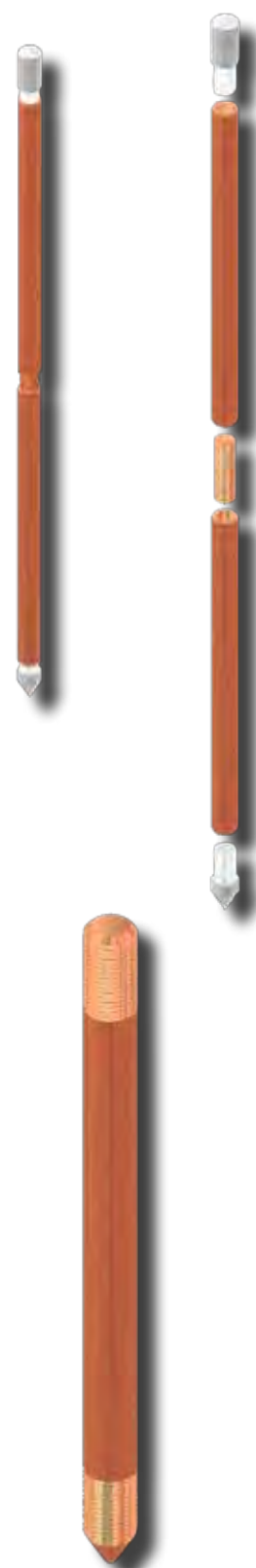
Pure copper ground rods are used where extreme soil conditions such as high salt or moisture content demands high corrosion resistance and exceptionally long life ground rods. Solid Copper Ground Rods are made from high conductivity hard drawn copper to BS2874 C101.

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.

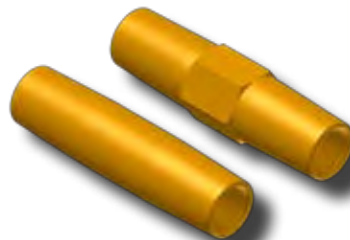
Driving Stud	
Catalog #	Thread Dia
38-8006-01	9/16"
38-8006-02	5/8"
38-8006-03	3/4"



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

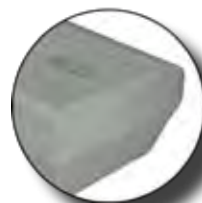
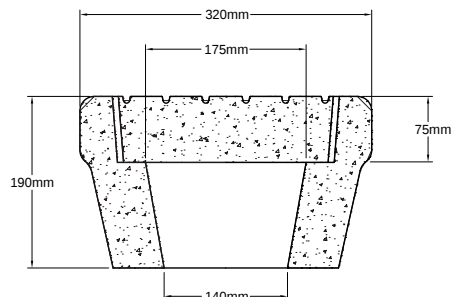
The Concrete Inspection Pit is load rated to 5,000 kgs. and is suitable for most types of earthing and lightning protection installations.

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

Concrete Inspection Pit

Catalog

38-8011-01

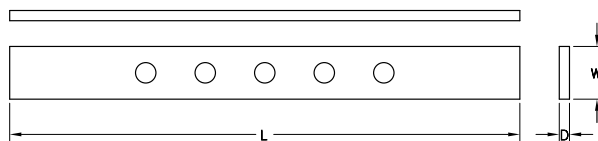
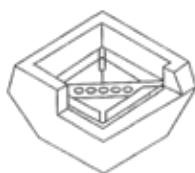
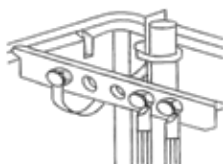
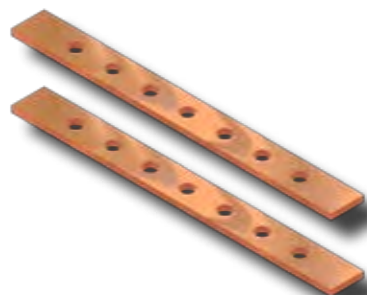


Earth Bars for Inspection Pit

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

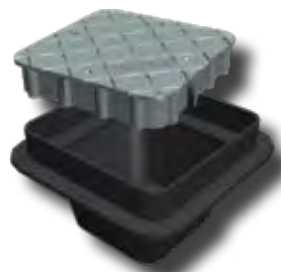
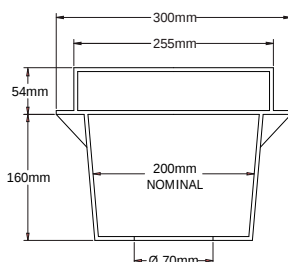
Heavy Duty

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.

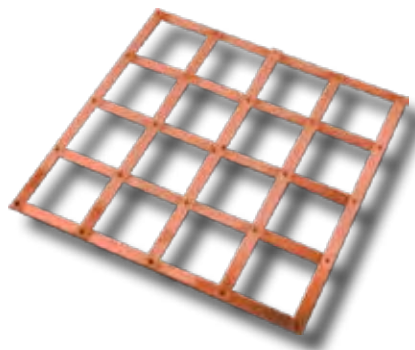
Earth Plate		
Solid Copper Catalog #	Copper Bonded Catalog #	Plate Size (mm)
38-8015-01	38-8016-01	500 x 500 x 1.5
38-8015-02	38-8016-02	500 x 500 x 3
38-8015-03	38-8016-03	600 x 600 x 1.5
38-8015-04	38-8016-04	600 x 600 x 3
38-8015-05	38-8016-05	900 x 900 x 1.5
38-8015-06	38-8016-06	900 x 900 x 3
38-6833-00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

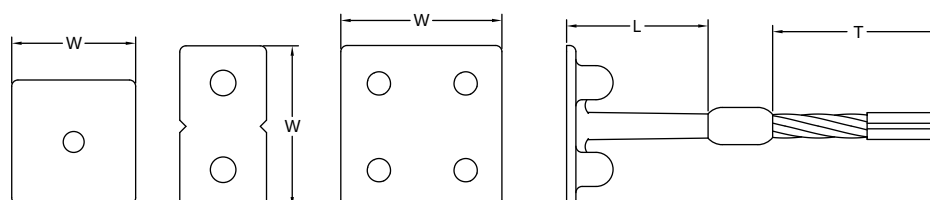
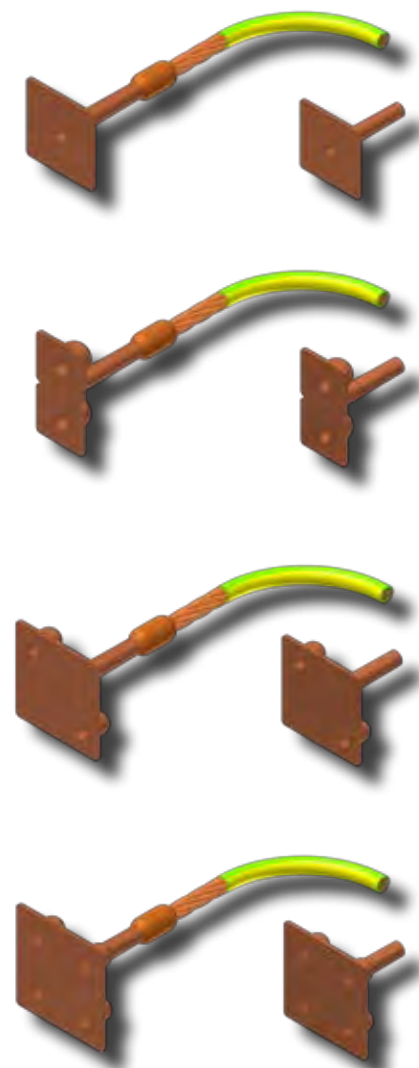
Earth Bonding Point

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



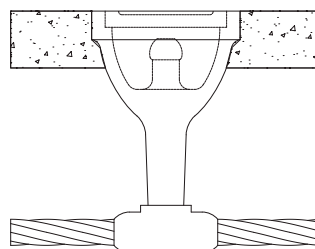
EARTH BONDS & SEALS

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

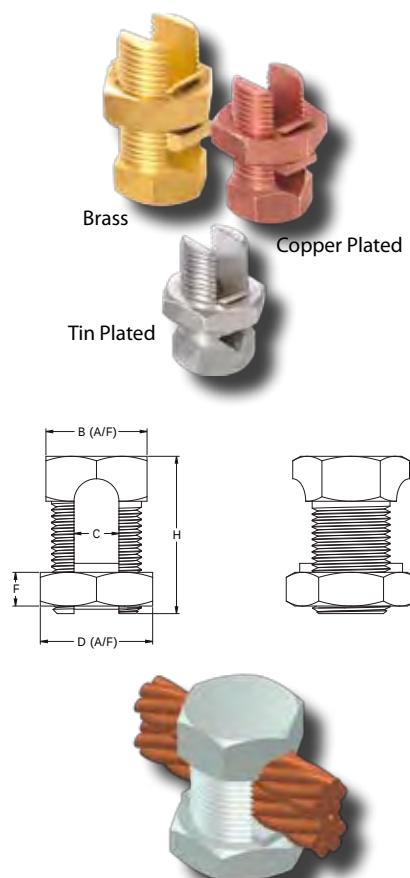


SPLIT BOLTS & CRIMPS

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

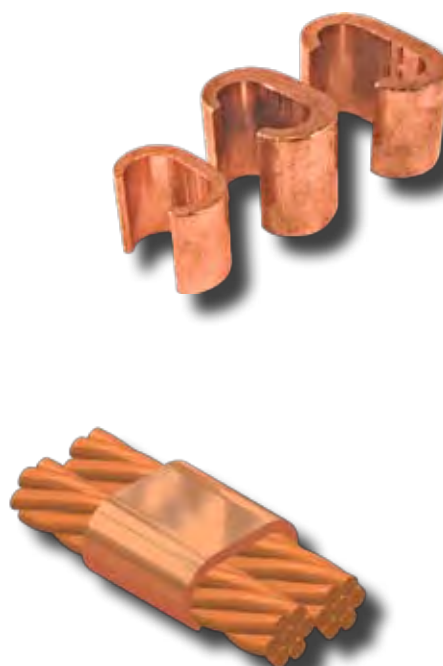


Crimp Connections

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

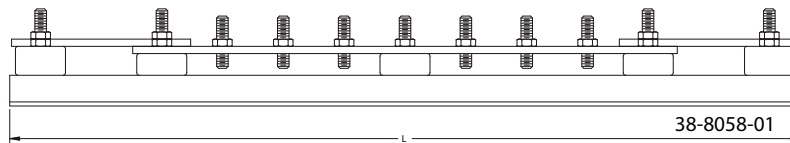
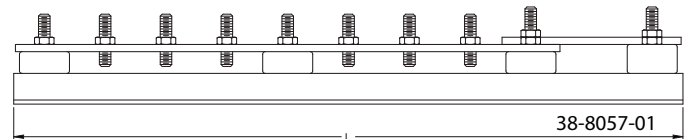
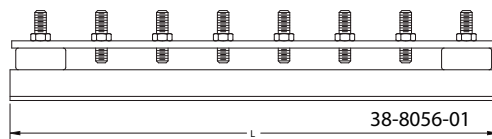
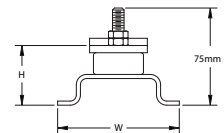
Earth Bars & Disconnection Links

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.

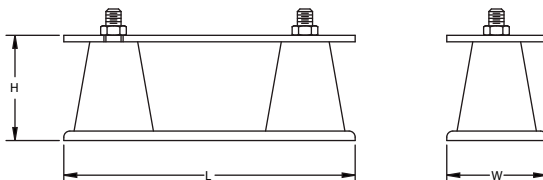


Other sizes and variations can be made to order.

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

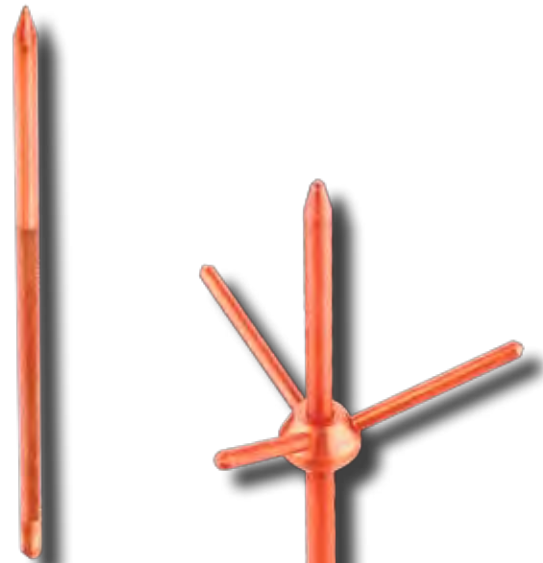
TAPER POINTED AIR RODS

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 effectivity.

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.

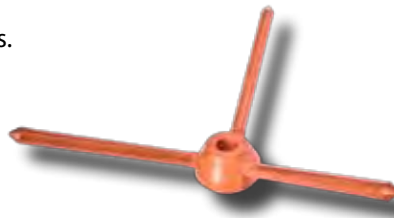
Taper Pointed Air Rods				
Catalog #	Rod Length (mm)	Rod Dia (mm)	Thread Dia	Material
38-8060-01	500	15	16 mm	Copper
38-8060-02	1000	15	16 mm	Copper
38-8060-03	1200	15	16 mm	Copper
38-8060-04	1500	15	16 mm	Copper
38-8060-05	2000	15	16 mm	Copper



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 accomodate 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

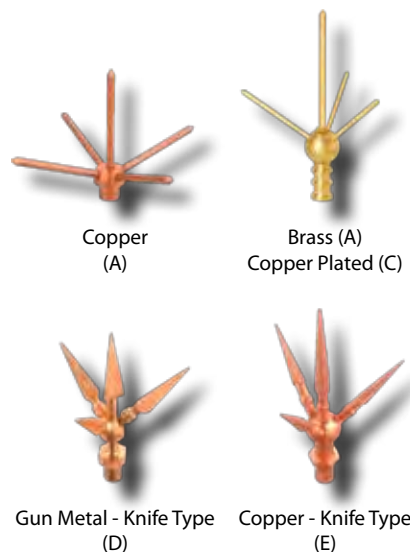


AIR TERMINALS & ATTACHMENTS

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



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.

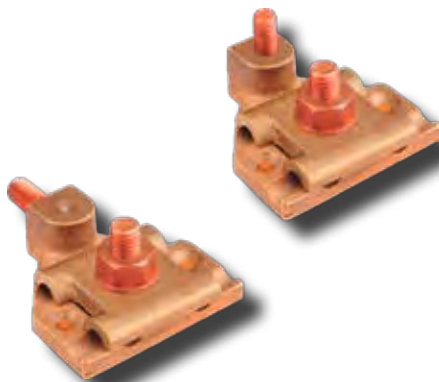
Flat Saddle - Type 'C'			
Catalog #	Conductor Size (mm)	Rod Dia (mm)	Thread Dia
38-8065-01	50 - 70	16	16 mm
38-8065-02	95	16	16 mm



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



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

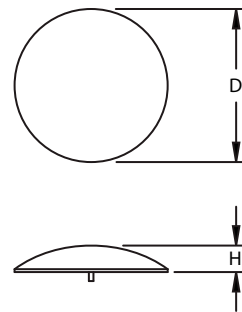


AIR TERMINALS & ATTACHMENTS

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

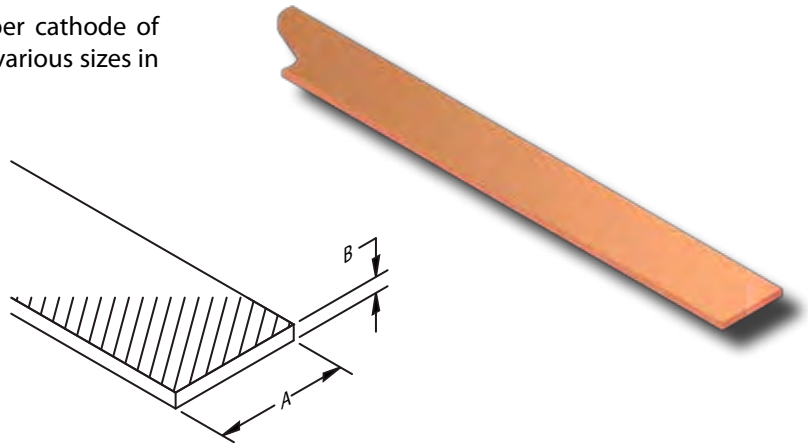


CONDUCTORS

Hard Drawn Copper Bar

These are extruded from high grade Copper cathode of purity 99.99% purity. These are available in various sizes in standard length of 4 Mtr.

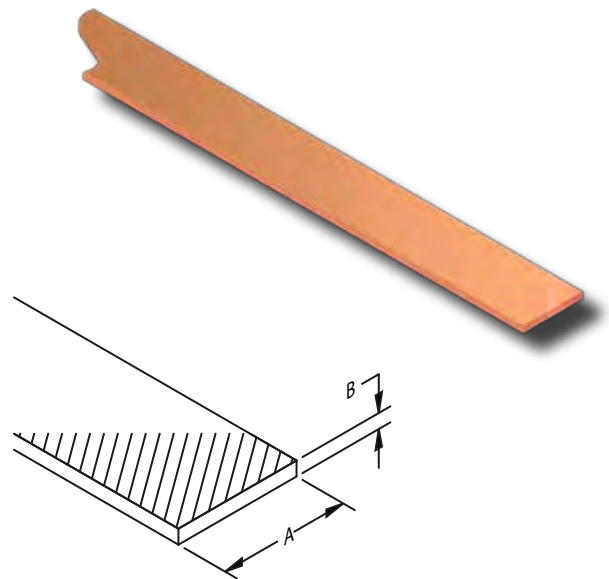
Hard Drawn Copper Bar	
Catalog #	Conductor Size (A x B) mm
38-8071-01	25 x 3
38-8071-02	25 x 6
38-8071-03	38 x 6
38-8071-04	50 x 6
38-8071-05	50 x 10
38-8071-06	75 x 6
38-8071-07	100 x 6



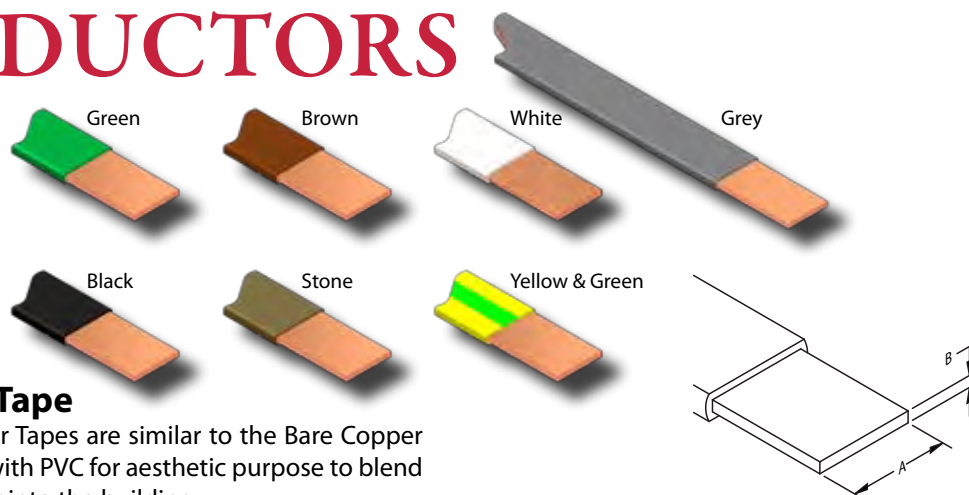
Bare Copper Tape

The main component of any Earthing or Lightning Protection System is the actual Conductor. thermOweld's Bare Copper Tape is manufactured from the finest quality Cathodes with a purity of 99.99%. These Tapes are Annealed for ease of use with radiused edges and are Oxygen free (Oxygen 5ppm). The KA Rating is based on the recommendations of BS: 7430 with an initial temp. of 30 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

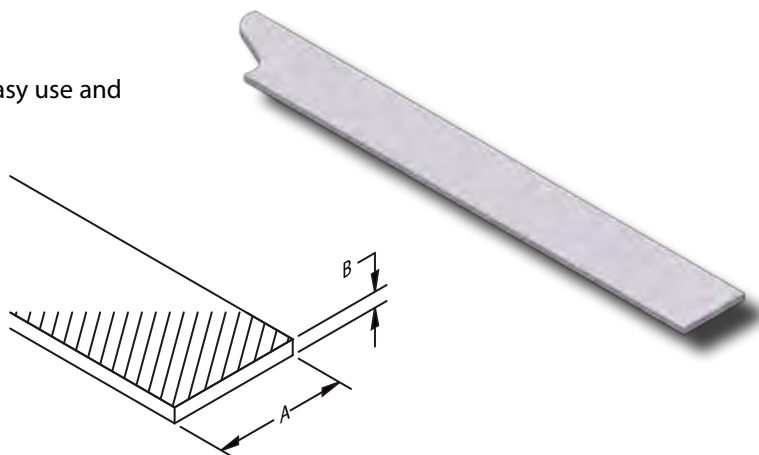
PVC Covered Copper Tapes are similar to the Bare Copper Tapes But Covered with PVC for aesthetic purpose to blend the down conductor into the building.

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.

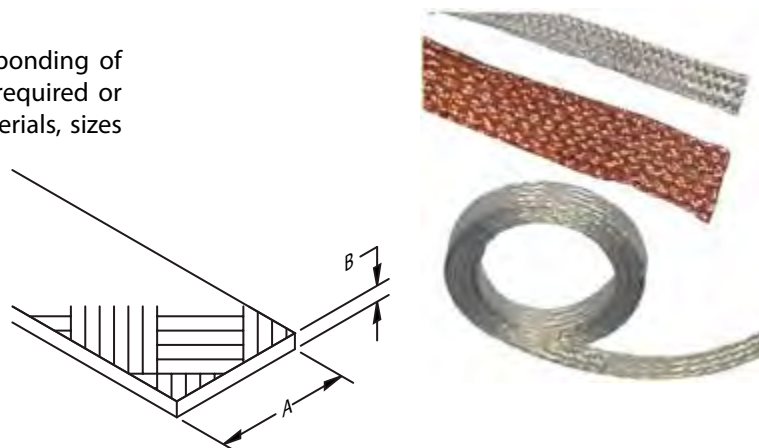
Tinned Copper Tape	
Catalog #	Conductor Size (A x B) mm
38-8074-01	25 x 3
38-8074-02	25 x 6
38-8074-03	30 x 5
38-8074-04	50 x 6



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.

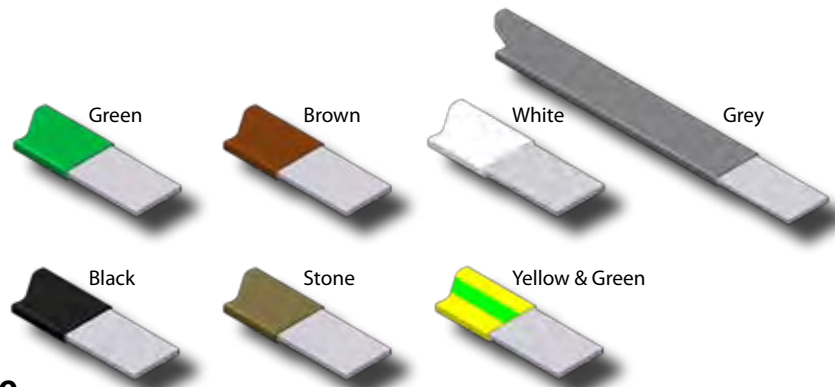
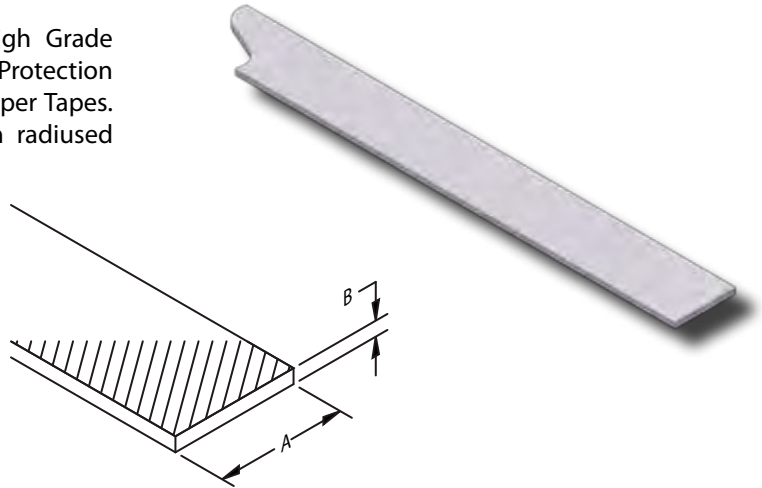
Flexible Copper Braids		
Catalog #	Overall Size (A x B) mm	Size (mm ²)
38-8080-01	12 x 1	6
38-8080-02	15 x 1.5	10
38-8080-03	19 x 2.5	16
38-8080-04	25 x 3.5	35
38-8080-05	32 x 6	70



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.

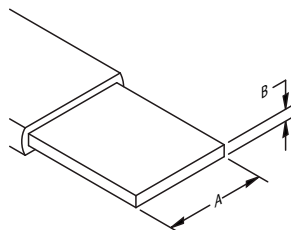
Bare Aluminum Tape	
Catalog #	Conductor Size (A x B) mm
38-8075-01	25 x 3
38-8075-02	25 x 6
38-8075-03	30 x 5
38-8075-04	50 x 6



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

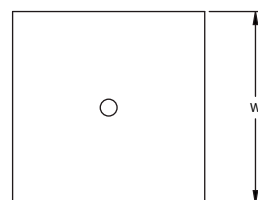
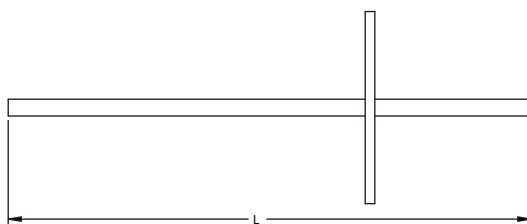
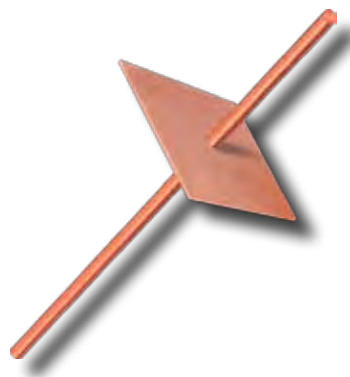


GUARDS & FLANGES

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.

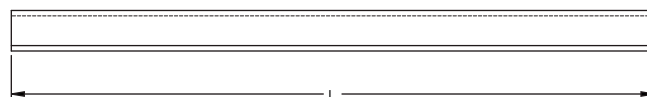
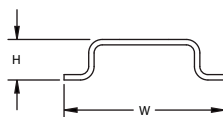
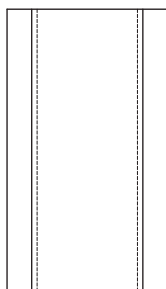
Puddle Flange			
Catalog #	L (mm)	W (mm)	Conductor
38-8081-01	600	150	Copper



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



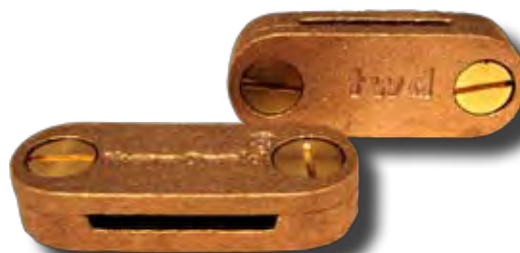
LIGHTNING PROTECTION PRODUCTS (Metric)

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.

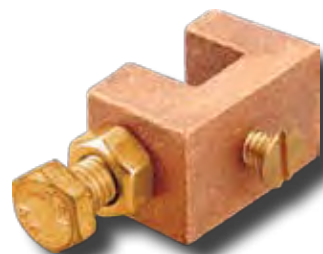
Back Plate Hold Fast Stem
Catalog #
38-8084-01



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



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

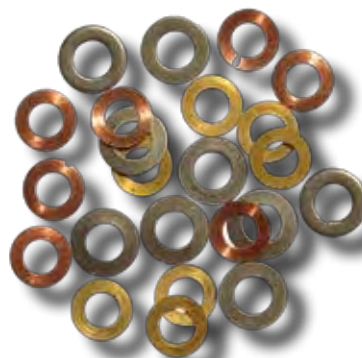


ACCESSORIES

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 Rivets		
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 fired.	Cables are either twisted or under tension.	Use 38-0330-00 cable clamp or other method to remove tension. Cut out severely twisted cable.

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
#15	80, 168 & 207	27-7026-"L"	137	38-0303-00	169	38-4242-00	52
#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
#25	80, 168 & 207	27-7031-"L"	137	38-0308-00	169	38-4252-00	52
#25CI	118 & 168	27-7032-"L"	137	38-0309-00	169	38-4253-00	52
#25CP	168	27-7033-"L"	137	38-0309-01	169	38-4293-00	53 & 193
#25R	168	27-7034-"L"	137	38-0310-00	129	38-4294-00	53 & 193
#32	80, 168 & 207	27-7035-"L"	137	38-0311-00	129	38-4295-00	53 & 193
#32CI	118 & 168	27-7036-"L"	137	38-0312-00	129	38-4296-00	53
#32CP	168	27-7037-"L"	137	38-0329-00	129 & 171	38-4297-00	53 & 193
#32R	168	27-7038-"L"	137	38-0330-00	170	38-4298-00	53 & 193
#45	80, 168 & 207	27-7039-"L"	137	38-0392-00	129	38-4299-00	53
#45CI	118 & 168	27-7040-"L"	137	38-0904-00	169	38-4350-00	121
#45CP	168	27-7041-04	139	38-2864-00	75 & 76	38-4351-00	121
#45R	168	27-7041-12	139	38-2999-00	75 & 76	38-4388-00	129
#65	80, 168 & 207	27-7042-04	138	38-3575-00	53 & 193	38-4395-00	155
#65CI	168	27-7042-04	139	38-3605-00	51	38-4519-1+	77
#65CP	168	27-7042-12	139	38-3607-00	51	38-4521-1+	77
#65R	168	27-7046-09	140	38-3662-01	170	38-4522-1+	77
#90	80, 168 & 207	27-7046-13	140	38-3662-02	170	38-4523-1+	77
#90CI	168	27-7047-09	140	38-3662-03	170	38-4524-1+	77
#90R	168	27-7047-13	140	38-3662-04	170	38-4526-1+	77
#115	80, 168 & 207	27-7048-13	140	38-3662-05	170	38-4527-1+	77
#115CI	168	27-7049-09	140	38-3662-06	170	38-4528-1+	77
#115R	168	27-7049-13	140	38-3662-07	170	38-4529-1+	77
#150	80, 168 & 207	27-7050-09	140	38-3922-00	169 & 170	38-4531-1+	77
#150R	168	27-7050-13	140	38-4051-00	75 & 76	38-4532-1+	77
#200	80, 168 & 207	27-7051-13	140	38-4129-00	142 & 169	38-4533-1+	77
#200R	168	27-7052-"L"	141	38-4129-05	142 & 169	38-4534-1+	77
#250	80, 168 & 207	27-7053-"L"	141	38-4150-00	51	38-4536-1+	77
#250R	168	27-7054-"L"	141	38-4152-00	51	38-4537-1+	77
#500	80, 168 & 207	27-7055-"L"	141	38-4153-00	51	38-4538-1+	77
#500R	168	27-7056-"L"	141	38-4154-00	51	38-4588-00	171
27-0180-00	128	27-7057-"L"	141	38-4155-00	51	38-4589-00	171
27-0181-00	128	27-7058-"L"	141	38-4156-00	51	38-4590-00	171
27-0182-00	128	27-7059-"L"	141	38-4158-00	51	38-4709-00	131, 154 & 155
27-0183-00	128	27-7060-"L"	141	38-4162-00	51	38-4859-00	129
27-0184-00	128	27-7061-"L"	141	38-4164-00	51	38-5049-00	194
27-0185-00	128	27-7062-"L"	141	38-4165-00	51	38-5050-00	194
27-0186-00	128	27-7063-"L"	141	38-4167-00	51	38-5051-00	194
27-0187-00	128	27-7064-"L"	141	38-4168-00	51	38-5051-01	194
27-0188-00	128	27-7065-"L"	141	38-4170-00	51	38-5052-00	194
27-6378-18	127	27-7066-"L"	141	38-4171-00	51	38-5052-01	194
27-6378-24	127	27-7067-"L"	141	38-4175-00	51	38-5053-00	194
27-6378-36	127	27-7068-"L"	141	38-4176-00	51	38-5053-01	194
27-6378-48	127	27-7069-"L"	141	38-4178-00	75 & 76	38-5054-00	194
27-6412-00	127	27-7070-"L"	141	38-4200-00	51 & 131	38-5054-01	194
27-6523-18	127	27-7071-"L"	141	38-4202-00	51	38-5055-00	194
27-6523-24	127	36-7043-01	138	38-4203-00	51	38-5055-01	194
27-6523-36	127	36-7043-02	138	38-4205-00	51	38-5056-00	194
27-6523-48	127	36-7044-00	138	38-4206-00	51	38-5056-01	194
27-6540-18	127	36-7044-01	138	38-4208-00	51	38-5057-00	194
27-6570-18	127	38-0101-00	169	38-4212-00	51	38-5057-01	194
27-6644-00	127	38-0101-01	169	38-4214-00	51	38-5058-00	194
27-7000-00	134	38-0119-00	78	38-4215-00	51	38-5058-01	194
27-7001-00	134	38-0119-13	78	38-4217-00	51	38-5059-00	194
27-7002-00	134	38-0135-00	170	38-4218-00	51	38-5060-00	194
27-7003-00	134	38-0135-01	170	38-4220-00	51	38-5061-00	194
27-7004-00	134	38-0200-00	118, 129 & 171	38-4221-00	51	38-5061-01	194
27-7005-00	134	38-0201-00	118, 129 & 171	38-4225-00	51	38-5062-00	194
27-7006-00	134	38-0202-00	129, 155 & 171	38-4226-00	51	38-5062-01	194
27-7007-00	134	38-0203-00	129 & 171	38-4227-00	52	38-5063-00	194
27-7008-00	134	38-0204-00	129 & 171	38-4229-00	52	38-5063-01	194
27-7009-00	134	38-0205-00	129 & 171	38-4230-00	52	38-5064-00	194
27-7010-00	134	38-0207-00	118, 129 & 171	38-4231-00	52	38-5064-01	194
27-7011-00	134	38-0208-00	129 & 171	38-4232-00	52	38-5065-00	194
27-7012-00	134	38-0209-00	129 & 171	38-4233-00	52	38-5065-01	194
27-7013-00	134	38-0240-00	129 & 171	38-4235-00	52	38-5066-00	194
27-7014-00	134	38-0302-00	169	38-4239-00	52	38-5066-01	194
27-7015-00	134	38-0302-02	169	38-4241-00	52	38-5067-00	194

INDEX

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
38-5067-01	194	38-5718-"L"	55	38-6329-03	145	38-6356-††	165
38-5068-00	194	38-5719-"L"	55	38-6329-04	145	38-6357-††	165
38-5068-01	194	38-5720-"L"	55	38-6330-00	146	38-6358-††	165
38-5069-00	195	38-5721-"L"	55	38-6331-00	146	38-6359-††	165
38-5070-00	195	38-5722-"L"	55	38-6332-00	146	38-6360-††	165
38-5071-00	195	38-5723-"L"	55	38-6333-00	146	38-6361-††	165
38-5071-01	195	38-5724-"L"	55	38-6334-00	146	38-6362-††	165
38-5072-00	195	38-5725-"L"	55	38-6335-00	146	38-6363-††	165
38-5072-01	195	38-5726-"L"	55	38-6336-00	146	38-6364-††	165
38-5073-00	195	38-5727-"L"	55	38-6337-00	146	38-6365-††	165
38-5073-01	195	38-5987-††	164	38-6338-00	147	38-6366-††	165
38-5074-00	195	38-5988-††	164	38-6338-01	147	38-6367-††	165
38-5074-01	195	38-5989-††	164	38-6339-00	147	38-6368-††	165
38-5075-00	195	38-5990-††	164	38-6339-01	147	38-6369-††	165
38-5075-01	195	38-5991-††	164	38-6340-10	147	38-6370-††	165
38-5076-00	195	38-5992-††	164	38-6340-20	147	38-6376-00	157
38-5076-01	195	38-5993-††	164	38-6340-30	147	38-6376-01	157
38-5077-00	195	38-5994-††	164	38-6340-40	147	38-6501-25	150 & 215
38-5077-01	195	38-5995-††	164	38-6340-50	147	38-6501-50	150
38-5078-00	195	38-5996-††	164	38-6340-60	147	38-6502-25	150
38-5078-01	195	38-6003-††	161	38-6340-70	147	38-6502-50	150
38-5101-"L"	155	38-6004-††	161	38-6340-80	147	38-6627-00	151
38-5238-00	155	38-6005-††	161	38-6340-90	147	38-6662-00	40
38-5532-24	163	38-6006-††	161	38-6341-10	147	38-6662-01	40
38-5533-24	163	38-6007-††	161	38-6341-20	147	38-6662-02	40
38-5534-24	163	38-6008-††	161	38-6341-30	147	38-6662-03	40
38-5672-"L"	54	38-6009-††	161	38-6341-40	147	38-6662-04	40
38-5673-"L"	54	38-6010-††	161	38-6341-50	147	38-6662-05	40
38-5674-"L"	54	38-6011-††	161	38-6341-60	147	38-6662-10	40
38-5675-"L"	54	38-6013-††	161	38-6341-70	147	38-6662-11	40
38-5676-"L"	54	38-6015-††	161	38-6341-80	147	38-6662-12	40
38-5677-"L"	54	38-6017-††	161	38-6341-90	147	38-6662-13	40
38-5678-"L"	54	38-6019-00	129	38-6342-18	147	38-6662-14	40
38-5679-"L"	54	38-6050-31	148	38-6342-24	147	38-6662-15	40
38-5680-"L"	54	38-6050-32	148	38-6343-36	151	38-6687-00	118, 126 & 207
38-5681-"L"	54	38-6050-33	148	38-6343-42	151	38-6687-02	118 & 126
38-5682-"L"	54	38-6050-34	148	38-6344-12	151	38-6769-00	118 & 126
38-5683-"L"	54	38-6050-35	148	38-6344-30	151	38-6833-00	216
38-5684-"L"	54	38-6050-36	148	38-6345-00	156	38-7043-00	139
38-5685-"L"	54	38-6050-37	148	38-6345-01	156	38-7045-00	138
38-5686-"L"	54	38-6051-32	149	38-6345-02	156	38-7045-01	138
38-5687-"L"	54	38-6051-33	149	38-6346-00	156	38-7074-00	138
38-5688-"L"	54	38-6051-34	149	38-6346-01	156	38-7075-00	138
38-5689-"L"	54	38-6051-35	149	38-6346-02	156	38-7076-00	138
38-5690-"L"	54	38-6051-36	149	38-6347-00	156	38-7077-00	138
38-5691-"L"	54	38-6051-37	149	38-6348-00	157	38-7078-00	138
38-5692-"L"	54	38-6323-01	145	38-6348-01	157	38-7079-00	138
38-5693-"L"	54	38-6323-02	145	38-6348-02	157	38-7356-††	165
38-5694-"L"	54	38-6323-03	145	38-6349-00	159	38-7357-††	165
38-5695-"L"	54	38-6323-04	145	38-6350-00	159	38-7358-††	165
38-5696-"L"	54	38-6324-01	145	38-6350-01	159	38-7359-††	165
38-5697-"L"	54	38-6324-02	145	38-6351-00	159	38-7360-††	165
38-5698-"L"	54	38-6324-03	145	38-6351-01	159	38-7361-††	165
38-5699-"L"	54	38-6324-04	145	38-6351-02	159	38-7362-††	165
38-5700-"L"	55	38-6325-01	145	38-6351-03	159	38-7363-††	165
38-5701-"L"	55	38-6325-02	145	38-6351-04	159	38-7364-††	165
38-5702-"L"	55	38-6325-03	145	38-6351-05	159	38-7365-††	165
38-5703-"L"	55	38-6325-04	145	38-6351-06	159	38-7366-††	165
38-5704-"L"	55	38-6326-01	145	38-6352-00	160	38-7367-††	165
38-5705-"L"	55	38-6326-02	145	38-6353-00	160	38-7368-††	165
38-5706-"L"	55	38-6326-03	145	38-6353-01	160	38-7369-††	165
38-5707-"L"	55	38-6326-04	145	38-6353-02	160	38-7370-††	165
38-5708-"L"	55	38-6327-01	145	38-6353-03	160	38-8000-01	210
38-5709-"L"	55	38-6327-02	145	38-6353-04	160	38-8000-02	210
38-5710-"L"	55	38-6327-03	145	38-6353-05	160	38-8000-03	210
38-5711-"L"	55	38-6327-04	145	38-6353-06	160	38-8000-04	210
38-5712-"L"	55	38-6328-01	145	38-6353-07	159	38-8000-05	210
38-5713-"L"	55	38-6328-02	145	38-6354-00	162	38-8000-06	210
38-5714-"L"	55	38-6328-03	145	38-6354-01	162	38-8000-07	210
38-5715-"L"	55	38-6328-04	145	38-6355-00	166	38-8000-08	210 & 211
38-5716-"L"	55	38-6329-01	145	38-6355-01	166	38-8000-09	210
38-5717-"L"	55	38-6329-02	145	38-6355-02	166	38-8000-10	210

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
38-8000-11.....	210	38-8016-04.....	216	38-8048-03.....	223	38-8053-11.....	225
38-8000-12.....	210	38-8016-05.....	216	38-8048-04.....	223	38-8053-12.....	225
38-8001-01.....	210	38-8016-06.....	216	38-8048-05.....	223	38-8053-13.....	225
38-8001-02.....	210	38-8016-07.....	216	38-8048-06.....	223	38-8053-14.....	225
38-8001-03.....	210	38-8016-08.....	216	38-8048-07.....	223	38-8053-15.....	225
38-8001-04.....	210	38-8017-01.....	216	38-8048-08.....	223	38-8053-16.....	225
38-8001-05.....	210	38-8017-02.....	216	38-8049-01.....	223	38-8054-01.....	226
38-8001-06.....	210	38-8017-03.....	216	38-8049-02.....	223	38-8054-02.....	226
38-8001-07.....	210	38-8017-04.....	216	38-8049-03.....	223	38-8054-03.....	226
38-8001-08.....	210	38-8017-05.....	216	38-8049-04.....	223	38-8054-04.....	226
38-8001-09.....	210	38-8017-06.....	216	38-8049-05.....	223	38-8054-05.....	226
38-8001-10.....	210	38-8018-01.....	217	38-8050-01.....	224	38-8055-01.....	226
38-8001-11.....	210	38-8018-02.....	217	38-8050-02.....	224	38-8055-02.....	226
38-8001-12.....	210	38-8018-03.....	217	38-8050-03.....	224	38-8055-03.....	226
38-8001-13.....	210	38-8018-04.....	217	38-8050-04.....	224	38-8055-04.....	226
38-8001-14.....	210	38-8019-01.....	217	38-8050-05.....	224	38-8055-05.....	226
38-8001-15.....	210	38-8019-02.....	217	38-8051-01.....	224	38-8055-06.....	226
38-8001-16.....	210	38-8019-03.....	217	38-8052-01.....	225	38-8056-01.....	227
38-8002-01.....	211	38-8019-04.....	217	38-8052-02.....	225	38-8056-02.....	227
38-8002-02.....	211	38-8019-05.....	217	38-8052-03.....	225	38-8056-03.....	227
38-8002-03.....	211	38-8020-01.....	218	38-8052-04.....	225	38-8056-04.....	227
38-8002-04.....	211	38-8020-02.....	218	38-8052-05.....	225	38-8056-05.....	227
38-8002-05.....	211	38-8021-01.....	218	38-8052-06.....	225	38-8056-06.....	227
38-8002-06.....	211	38-8021-02.....	218	38-8052-07.....	225	38-8056-07.....	227
38-8002-07.....	211	38-8021-03.....	218	38-8052-08.....	225	38-8056-08.....	227
38-8003-01.....	211	38-8021-04.....	218	38-8052-09.....	225	38-8056-09.....	227
38-8003-02.....	211	38-8022-01.....	218	38-8052-10.....	225	38-8056-10.....	227
38-8003-03.....	211	38-8022-02.....	218	38-8052-11.....	225	38-8056-11.....	227
38-8003-04.....	211	38-8023-01.....	219	38-8052-12.....	225	38-8056-12.....	227
38-8004-01.....	212	38-8024-01.....	219	38-8052-13.....	225	38-8056-13.....	227
38-8004-02.....	212	38-8024-02.....	219	38-8052-14.....	225	38-8057-01.....	227
38-8004-03.....	212	38-8025-01.....	219	38-8052-15.....	225	38-8057-02.....	227
38-8004-04.....	212	38-8025-02.....	219	38-8052-21.....	225	38-8057-03.....	227
38-8004-05.....	212	38-8025-03.....	219	38-8052-22.....	225	38-8057-04.....	227
38-8004-06.....	212	38-8025-04.....	219	38-8052-23.....	225	38-8057-05.....	227
38-8005-01.....	212	38-8025-05.....	219	38-8052-24.....	225	38-8057-06.....	227
38-8005-02.....	212	38-8025-06.....	219	38-8052-25.....	225	38-8057-07.....	227
38-8005-03.....	212	38-8025-07.....	219	38-8052-26.....	225	38-8057-08.....	227
38-8005-04.....	212	38-8025-08.....	219	38-8052-27.....	225	38-8057-09.....	227
38-8005-05.....	212	38-8025-09.....	219	38-8052-28.....	225	38-8057-10.....	227
38-8005-06.....	212	38-8025-10.....	219	38-8052-29.....	225	38-8057-11.....	227
38-8006-01.....	212	38-8025-11.....	219	38-8052-30.....	225	38-8057-12.....	227
38-8006-02.....	212	38-8039-01.....	220	38-8052-31.....	225	38-8057-13.....	227
38-8006-03.....	212	38-8040-01.....	220	38-8052-32.....	225	38-8058-01.....	227
38-8007-01.....	212	38-8040-02.....	220	38-8052-33.....	225	38-8058-02.....	227
38-8007-02.....	212	38-8040-03.....	220	38-8052-34.....	225	38-8058-03.....	227
38-8007-03.....	212	38-8040-04.....	220	38-8052-35.....	225	38-8058-04.....	227
38-8008-01.....	213	38-8040-05.....	220	38-8052-41.....	225	38-8058-05.....	227
38-8008-02.....	213	38-8040-06.....	220	38-8052-42.....	225	38-8058-06.....	227
38-8009-01.....	213	38-8040-07.....	220	38-8052-43.....	225	38-8058-07.....	227
38-8009-02.....	213	38-8040-08.....	220	38-8052-44.....	225	38-8058-08.....	227
38-8009-03.....	213	38-8040-09.....	220	38-8052-45.....	225	38-8058-09.....	227
38-8010-01.....	213	38-8041-01.....	221	38-8052-46.....	225	38-8058-10.....	227
38-8010-02.....	213	38-8042-01.....	221	38-8052-47.....	225	38-8058-11.....	227
38-8010-03.....	213	38-8043-01.....	221	38-8052-48.....	225	38-8058-12.....	227
38-8010-04.....	213	38-8043-02.....	221	38-8052-49.....	225	38-8058-13.....	227
38-8011-01.....	214	38-8043-03.....	221	38-8052-50.....	225	38-8060-01.....	228
38-8012-01.....	214	38-8043-04.....	221	38-8052-51.....	225	38-8060-02.....	228
38-8012-02.....	214	38-8044-01.....	222	38-8052-52.....	225	38-8060-03.....	228
38-8012-03.....	214	38-8044-02.....	222	38-8052-53.....	225	38-8060-04.....	228
38-8013-01.....	215	38-8044-03.....	222	38-8052-54.....	225	38-8060-05.....	228
38-8015-01.....	216	38-8044-04.....	222	38-8052-55.....	225	38-8061-01.....	228
38-8015-02.....	216	38-8045-01.....	222	38-8053-01.....	225	38-8061-02.....	228
38-8015-03.....	216	38-8046-01.....	222	38-8053-02.....	225	38-8061-03.....	228
38-8015-04.....	216	38-8046-02.....	222	38-8053-03.....	225	38-8062-00.....	228
38-8015-05.....	216	38-8046-03.....	222	38-8053-04.....	225	38-8062-01.....	229
38-8015-06.....	216	38-8046-04.....	222	38-8053-05.....	225	38-8062-02.....	229
38-8015-07.....	216	38-8047-01.....	223	38-8053-06.....	225	38-8062-03.....	229
38-8015-08.....	216	38-8047-02.....	223	38-8053-07.....	225	38-8062-04.....	229
38-8016-01.....	216	38-8047-03.....	223	38-8053-08.....	225	38-8062-05.....	229
38-8016-02.....	216	38-8048-01.....	223	38-8053-09.....	225	38-8062-06.....	229
38-8016-03.....	216	38-8048-02.....	223	38-8053-10.....	225	38-8062-07.....	229

INDEX

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
38-8062-08.....	229	38-8073-24.....	234	38-8086-13.....	238	38-8107-04.....	247
38-8062-09.....	229	38-8073-25.....	234	38-8086-14.....	238	38-8108-01.....	247
38-8062-10.....	229	38-8073-26.....	234	38-8086-21.....	238	38-8108-02.....	247
38-8063-01.....	229	38-8073-27.....	234	38-8086-22.....	238	38-8108-03.....	247
38-8063-02.....	229	38-8073-31.....	234	38-8086-23.....	238	38-8108-04.....	247
38-8063-03.....	229	38-8073-32.....	234	38-8086-24.....	238	38-8109-01.....	247
38-8063-04.....	229	38-8073-33.....	234	38-8086-31.....	238	38-8109-02.....	247
38-8063-05.....	229	38-8073-34.....	234	38-8086-32.....	238	38-8109-03.....	247
38-8063-06.....	229	38-8073-35.....	234	38-8086-33.....	238	38-8109-04.....	247
38-8063-07.....	229	38-8073-36.....	234	38-8086-34.....	238	38-8110-01.....	247
38-8063-08.....	229	38-8073-37.....	234	38-8087-01.....	238	38-8110-02.....	247
38-8063-09.....	229	38-8073-41.....	234	38-8087-02.....	238	38-8110-03.....	247
38-8063-10.....	229	38-8073-42.....	234	38-8087-03.....	238	38-8110-04.....	247
38-8065-01.....	230	38-8073-43.....	234	38-8087-04.....	238	38-8111-01.....	247
38-8065-02.....	230	38-8073-44.....	234	38-8087-07.....	237	38-8111-02.....	247
38-8066-01.....	230	38-8073-45.....	234	38-8087-08.....	237	38-8111-03.....	247
38-8066-02.....	230	38-8073-46.....	234	38-8087-09.....	237	38-8112-01.....	247
38-8067-01.....	231	38-8073-47.....	234	38-8088-01.....	238	38-8112-02.....	247
38-8068-01.....	231	38-8074-01.....	234	38-8088-02.....	238	38-8112-03.....	247
38-8068-02.....	231	38-8074-02.....	234	38-8088-03.....	238	38-8113-01.....	247
38-8068-03.....	231	38-8074-03.....	234	38-8089-01.....	239	38-8113-02.....	247
38-8068-04.....	231	38-8074-04.....	234	38-8089-02.....	239	38-8113-03.....	247
38-8068-05.....	231	38-8075-01.....	235	38-8089-03.....	239	38-8114-01.....	247
38-8068-06.....	231	38-8075-02.....	235	38-8089-04.....	239	38-8114-02.....	247
38-8068-07.....	231	38-8075-03.....	235	38-8089-05.....	239	38-8114-03.....	247
38-8068-08.....	231	38-8075-04.....	235	38-8089-06.....	239	38-8115-01.....	247
38-8068-09.....	231	38-8076-01.....	235	38-8089-07.....	239	38-8115-02.....	247
38-8069-01.....	232	38-8076-02.....	235	38-8089-08.....	239	38-8115-03.....	247
38-8070-01.....	232	38-8076-03.....	235	38-8089-09.....	239	38-8115-04.....	247
38-8070-02.....	232	38-8076-04.....	235	38-8090-01.....	239	38-8115-05.....	247
38-8070-03.....	232	38-8076-05.....	235	38-8090-02.....	239	38-8116-01.....	247
38-8071-01.....	233	38-8076-06.....	235	38-8090-03.....	239	38-8116-02.....	247
38-8071-02.....	233	38-8076-07.....	235	38-8090-04.....	239	38-8116-03.....	247
38-8071-03.....	233	38-8076-21.....	235	38-8090-05.....	239	38-8116-04.....	247
38-8071-04.....	233	38-8076-22.....	235	38-8090-06.....	239	38-8116-05.....	247
38-8071-05.....	233	38-8076-23.....	235	38-8090-07.....	239	38-8116-06.....	247
38-8071-06.....	233	38-8076-24.....	235	38-8090-08.....	239	38-8116-07.....	247
38-8071-07.....	233	38-8076-25.....	235	38-8091-01.....	241	38-8116-08.....	247
38-8072-01.....	233	38-8076-26.....	235	38-8092-01.....	241	38-8117-01.....	248
38-8072-02.....	233	38-8076-27.....	235	38-8093-01.....	242	38-8117-02.....	248
38-8072-03.....	233	38-8076-31.....	235	38-8093-02.....	242	38-8117-03.....	248
38-8072-04.....	233	38-8076-32.....	235	38-8094-01.....	242	38-8117-04.....	248
38-8072-05.....	233	38-8076-33.....	235	38-8095-01.....	243	38-8118-01.....	248
38-8072-06.....	233	38-8076-34.....	235	38-8096-01.....	243	38-8118-02.....	248
38-8072-07.....	233	38-8076-35.....	235	38-8097-01.....	242	38-8118-03.....	248
38-8072-08.....	233	38-8076-36.....	235	38-8098-01.....	243	38-8118-04.....	248
38-8072-09.....	233	38-8076-37.....	235	38-8099-01.....	245	38-8119-01.....	248
38-8072-10.....	233	38-8076-41.....	235	38-8100-01.....	245	38-8119-02.....	248
38-8072-11.....	233	38-8076-42.....	235	38-8100-02.....	245	38-8119-03.....	248
38-8072-12.....	233	38-8076-43.....	235	38-8100-03.....	245	38-8119-04.....	248
38-8072-13.....	233	38-8076-44.....	235	38-8101-01.....	240	38-8120-01.....	248
38-8072-14.....	233	38-8076-45.....	235	38-8101-02.....	240	38-8120-02.....	248
38-8072-15.....	233	38-8076-46.....	235	38-8101-03.....	240	38-8120-03.....	248
38-8072-16.....	233	38-8076-47.....	235	38-8102-01.....	240	38-8120-04.....	248
38-8072-17.....	233	38-8080-01.....	234	38-8102-02.....	240	38-8121-01.....	248
38-8072-18.....	233	38-8080-02.....	234	38-8102-03.....	240	38-8121-02.....	248
38-8072-19.....	233	38-8080-03.....	234	38-8102-04.....	240	38-8121-03.....	248
38-8072-20.....	233	38-8080-04.....	234	38-8102-05.....	240	38-8121-04.....	248
38-8072-21.....	233	38-8080-05.....	234	38-8102-06.....	240	38-8122-01.....	248
38-8072-22.....	233	38-8081-01.....	236	38-8102-07.....	240	38-8122-02.....	248
38-8072-23.....	233	38-8082-01.....	236	38-8102-08.....	240	38-8122-03.....	248
38-8072-24.....	233	38-8082-02.....	236	38-8102-09.....	240	38-8122-04.....	248
38-8073-01.....	234	38-8083-01.....	237	38-8102-10.....	240	38-8123-01.....	248
38-8073-02.....	234	38-8083-02.....	237	38-8103-01.....	244	38-8123-02.....	248
38-8073-03.....	234	38-8083-03.....	237	38-8103-02.....	244	38-8124-01.....	248
38-8073-04.....	234	38-8084-01.....	237	38-8104-01.....	244	38-8124-02.....	248
38-8073-05.....	234	38-8084-04.....	237	38-8105-01.....	246	38-8124-03.....	248
38-8073-06.....	234	38-8085-01.....	237	38-8105-02.....	246	38-8124-04.....	248
38-8073-07.....	234	38-8085-05.....	237	38-8106-01.....	246	38-8124-05.....	248
38-8073-21.....	234	38-8086-06.....	237	38-8107-01.....	247	38-8124-06.....	248
38-8073-22.....	234	38-8086-11.....	238	38-8107-02.....	247	38-8124-07.....	248
38-8073-23.....	234	38-8086-12.....	238	38-8107-03.....	247	38-8125-01.....	248

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
38-8125-02.....	248	M-100.....	118 & 121	M-197.....	124	M-243.....	24 & 80
38-8125-03.....	248	M-101.....	118 & 121	M-198.....	124	M-243-H.....	24
38-8125-04.....	248	M-102.....	118 & 121	M-200.....	23	M-244.....	24 & 80
38-8125-05.....	248	M-103.....	121	M-200-H.....	23	M-244-H.....	24
38-8125-06.....	248	M-104.....	118 & 121	M-201.....	23	M-245.....	24
38-8125-07.....	248	M-105.....	121	M-201-H.....	23	M-245-H.....	24
38-8126-01.....	248	M-106.....	118 & 121	M-203.....	23 & 80	M-246.....	24 & 80
38-8126-02.....	248	M-107.....	121	M-203-H.....	23	M-246-H.....	24
38-8126-03.....	248	M-108.....	121	M-204.....	23	M-247.....	24 & 80
40-0106-27.....	173	M-109.....	121	M-204-H.....	23	M-247-H.....	24
40-0106-32.....	173	M-110.....	121	M-205.....	23	M-248.....	24
40-0106-37.....	173	M-111.....	121	M-205-H.....	23	M-248-H.....	24
40-0106-41.....	173	M-112.....	118 & 121	M-206.....	23 & 80	M-249.....	24
40-0106-75.....	172	M-113.....	121	M-206-H.....	23	M-249-H.....	24
40-0106-76.....	173	M-114.....	121	M-207.....	23	M-250.....	24
40-0106-77.....	173	M-115.....	121	M-207-H.....	23	M-250-H.....	24
40-0106-78.....	173	M-116.....	121	M-208.....	23, 80 & 103	M-251.....	24
40-0107-32.....	173	M-117.....	121	M-208-H.....	23	M-251-H.....	24
40-0107-37.....	173	M-118.....	121	M-209.....	23	M-252.....	24
40-0319-01.....	170	M-119.....	121	M-209-H.....	23	M-252-H.....	24
40-0319-03.....	170	M-120.....	121	M-210.....	23	M-253.....	24
40-0319-21.....	134	M-121.....	121	M-210-H.....	23	M-253-H.....	24
40-3657-00.....	172	M-122.....	121	M-211.....	23	M-254.....	25
40-4431-00.....	173	M-123.....	121	M-211-H.....	23	M-254-H.....	25
40-4431-01.....	173	M-124.....	121	M-213.....	23	M-255.....	25
40-4565-00.....	155 & 174	M-125.....	121	M-213-H.....	23	M-255-H.....	25
40-5598-00.....	141 & 142	M-126.....	121	M-214.....	23	M-256.....	25
40-5599-00.....	141	M-127.....	121	M-214-H.....	23	M-256-H.....	25
40-6640-00.....	174	M-128.....	128	M-215.....	23	M-257.....	25
40-6641-00.....	174	M-129.....	118, 125 & 127	M-215-H.....	23	M-257-H.....	25
40-6642-00.....	174	M-130.....	121	M-221.....	24 & 80	M-258.....	25
40-7016-00.....	135	M-131.....	125	M-221-H.....	24	M-258-H.....	25
40-7017-00.....	135	M-131.....	127	M-223.....	24 & 80	M-259.....	25
40-7018-00.....	135	M-131.....	127	M-223-H.....	24	M-259-H.....	25
40-7019-00.....	135	M-132.....	125	M-224.....	24	M-260.....	25
40-7020-00.....	135 & 136	M-134.....	125	M-224-H.....	24	M-260-H.....	25
40-7020-01.....	135 & 136	M-135.....	125	M-225.....	24	M-261.....	25
40-7021-00.....	135	M-137.....	125	M-225-H.....	24	M-261-H.....	25
40-7022-00.....	135	M-142.....	118 & 124	M-226.....	24	M-262.....	25
40-7022-01.....	135	M-144.....	124	M-226-H.....	24	M-262-H.....	25
40-7022-02.....	135	M-145.....	124	M-227.....	24	M-263.....	25
40-7022-03.....	135	M-146.....	124	M-227-H.....	24	M-263-H.....	25
40-7023-00.....	136	M-147.....	124	M-228.....	24 & 80	M-264.....	25
40-7024-00.....	136	M-148.....	124	M-228-H.....	24	M-264-H.....	25
B-106.....	172	M-150.....	124	M-229.....	24	M-265.....	25
B-107.....	172	M-151.....	118	M-229-H.....	24	M-265-H.....	25
LE-0586.....	154	M-151.....	124	M-230.....	24	M-266.....	25
LE-0588.....	154	M-152.....	124	M-230-H.....	24	M-266-H.....	25
LE-2763.....	154	M-153.....	124	M-231.....	24	M-267.....	25
LE-5454.....	154	M-154.....	118, 125 & 127	M-231-H.....	24	M-267-H.....	25
LE-6124.....	153	M-154-PS.....	125 & 127	M-232.....	24 & 80	M-268.....	25
LE-6125.....	153	M-156.....	118 & 123	M-232-H.....	24	M-268-H.....	25
LE-6164.....	153	M-157.....	123	M-233.....	24	M-269.....	25
LE-6252.....	153	M-158.....	123	M-233-H.....	24	M-269-H.....	25
LE-6253.....	154	M-159.....	118 & 123	M-234.....	24	M-270.....	25
LE-6254.....	154	M-159-6.....	118	M-234-H.....	24	M-270-H.....	25
LE-6255.....	154	M-160.....	123	M-235.....	24 & 80	M-280.....	25 & 80
LE-6257.....	154	M-161.....	118 & 123	M-235-H.....	24	M-280-H.....	25
LE-6609.....	153	M-163.....	123	M-236.....	24 & 80	M-282.....	25
LE-6610.....	153	M-175.....	125 & 127	M-236-H.....	24	M-282-H.....	25
LE-6783.....	153	M-175-PS.....	125 & 127	M-237.....	24	M-283.....	25
LE-6784.....	153	M-186.....	124	M-237-H.....	24	M-283-H.....	25
LE-6785.....	153	M-187.....	124	M-238.....	24	M-284.....	25
LE-6786.....	153	M-188.....	124	M-238-H.....	24	M-284-H.....	25
LE-8502.....	153	M-189.....	124	M-239.....	24	M-285.....	25
LE-8583.....	154	M-190.....	124	M-239-H.....	24	M-285-H.....	25
LE-8743.....	153	M-191.....	124	M-240.....	24	M-286.....	25
LE-8848.....	154	M-192.....	124	M-240-H.....	24	M-286-H.....	25
LE-8863.....	153	M-193.....	124	M-241.....	24, 80 & 104	M-287.....	25
LE-9790.....	153	M-194.....	124	M-241-H.....	24	M-287-H.....	25
M-5.....	30	M-195.....	124	M-242.....	24	M-288.....	25
M-47.....	206	M-196.....	124	M-242-H.....	24	M-288-H.....	25

INDEX

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
M-289.....	25	M-451.....	26	M-499.....	32	M-538.....	34
M-289-H.....	25	M-451-H.....	26	M-499-H.....	32	M-538-H.....	34
M-290.....	25	M-452.....	26	M-500.....	32 & 106	M-539.....	34
M-290-H.....	25	M-452-H.....	26	M-500-H.....	32	M-539-H.....	34
M-291.....	25	M-453.....	26	M-501.....	32	M-540.....	34
M-291-H.....	25	M-453-H.....	26	M-501-H.....	32	M-540-H.....	34
M-293.....	25	M-454.....	26	M-502.....	32	M-541.....	34
M-293-H.....	25	M-454-H.....	26	M-502-H.....	32	M-541-H.....	34
M-294.....	25	M-455.....	26	M-503.....	32 & 80	M-542.....	34 & 107
M-294-H.....	25	M-455-H.....	26	M-503-H.....	32	M-542-H.....	34
M-295.....	25	M-456.....	27	M-503-S.....	80	M-543.....	34
M-295-H.....	25	M-456-H.....	27	M-504.....	32	M-543-H.....	34
M-296.....	25	M-457.....	27	M-504-H.....	32	M-544.....	34
M-296-H.....	25	M-457-H.....	27	M-505.....	32	M-544-H.....	34
M-297.....	25	M-458.....	27	M-505-H.....	32	M-545.....	34 & 80
M-297-H.....	25	M-458-H.....	27	M-506.....	32 & 80	M-545-H.....	34
M-298.....	25	M-459.....	27	M-506-H.....	32	M-545-S.....	80
M-298-H.....	25	M-459-H.....	27	M-507.....	32	M-546.....	34
M-423.....	26	M-460.....	27	M-507-H.....	32	M-546-H.....	34
M-423-H.....	26	M-460-H.....	27	M-508.....	106	M-547.....	34 & 80
M-425.....	26	M-461.....	27	M-508.....	32 & 80	M-547-H.....	34
M-425-H.....	26	M-461-H.....	27	M-508-H.....	32	M-548.....	34 & 80
M-426.....	26	M-462.....	27	M-509.....	32	M-548-H.....	34
M-426-H.....	26	M-462-H.....	27	M-509-H.....	32	M-549.....	34 & 80
M-427.....	26	M-463.....	27	M-510.....	32	M-549-H.....	34
M-427-H.....	26	M-463-H.....	27	M-510-H.....	32	M-550.....	34, 80 & 107
M-428.....	26	M-464.....	27	M-511.....	32	M-550-H.....	34
M-428-H.....	26	M-464-H.....	27	M-511-H.....	32	M-551.....	34
M-429.....	26	M-465.....	27	M-513.....	32	M-551-H.....	34
M-429-H.....	26	M-465-H.....	27	M-513-H.....	32	M-552.....	34
M-430.....	26	M-466.....	27	M-514.....	33	M-552-H.....	34
M-430-H.....	26	M-466-H.....	27	M-514-H.....	33	M-553.....	34
M-431.....	26	M-467.....	27	M-515.....	33	M-553-H.....	34
M-431-H.....	26	M-467-H.....	27	M-515-H.....	33	M-555.....	34
M-432.....	26	M-468.....	27	M-516.....	33	M-555-H.....	34
M-432-H.....	26	M-468-H.....	27	M-516-H.....	33	M-556.....	35
M-433.....	26	M-469.....	27	M-517.....	33	M-556-H.....	35
M-433-H.....	26	M-469-H.....	27	M-517-H.....	33	M-556-S.....	80
M-434.....	26 & 80	M-470.....	27	M-518.....	33, 80 & 106	M-557.....	35
M-434-H.....	26	M-470-H.....	27	M-518-H.....	33	M-557-H.....	35
M-435.....	26	M-471.....	27	M-519.....	33	M-558.....	35 & 80
M-435-H.....	26	M-471-H.....	27	M-519-H.....	33	M-558-H.....	35
M-436.....	26	M-472.....	27	M-520.....	33	M-559.....	35 & 80
M-436-H.....	26	M-472-H.....	27	M-520-H.....	33	M-559-H.....	35
M-437.....	26	M-483.....	27	M-521.....	33	M-560.....	35 & 80
M-437-H.....	26	M-483-H.....	27	M-521-H.....	33	M-560-H.....	35
M-438.....	26	M-485.....	27	M-523.....	33	M-561.....	35, 80 & 107
M-438-H.....	26	M-485-H.....	27	M-523-H.....	33	M-561-H.....	35
M-439.....	26	M-486.....	27	M-524.....	33	M-562.....	35
M-439-H.....	26	M-486-H.....	27	M-524-H.....	33	M-562-H.....	35
M-440.....	26	M-487.....	27	M-525.....	33	M-563.....	35
M-440-H.....	26	M-487-H.....	27	M-525-H.....	33	M-563-H.....	35
M-441.....	26	M-488.....	27	M-526.....	33	M-564.....	35
M-441-H.....	26	M-488-H.....	27	M-526-H.....	33	M-564-H.....	35
M-442.....	26	M-489.....	27	M-527.....	33	M-566.....	35
M-442-H.....	26	M-489-H.....	27	M-527-H.....	33	M-566-H.....	35
M-443.....	26, 80 & 105	M-490.....	27	M-528.....	33	M-567.....	35
M-443-H.....	26	M-490-H.....	27	M-528-H.....	33	M-567-H.....	35
M-444.....	26	M-491.....	27	M-529.....	33	M-569.....	35
M-444-H.....	26	M-491-H.....	27	M-529-H.....	33	M-569-H.....	35
M-445.....	26	M-492.....	27	M-530.....	33	M-570.....	35
M-445-H.....	26	M-492-H.....	27	M-530-H.....	33	M-570-H.....	35
M-446.....	26	M-493.....	27	M-531.....	33	M-571.....	35
M-446-H.....	26	M-493-H.....	27	M-531-H.....	33	M-571-H.....	35
M-447.....	26	M-495.....	32	M-533.....	33	M-572.....	35 & 107
M-447-H.....	26	M-495-H.....	32	M-533-H.....	33	M-572-H.....	35
M-448.....	26	M-496.....	32	M-534.....	33	M-573.....	35
M-448-H.....	26	M-496-H.....	32	M-534-H.....	33	M-573-H.....	35
M-449.....	26	M-497.....	32	M-535.....	33	M-574.....	35
M-449-H.....	26	M-497-H.....	32	M-535-H.....	33	M-574-H.....	35
M-450.....	26	M-498.....	32	M-537.....	34	M-575.....	35
M-450-H.....	26	M-498-H.....	32	M-537-H.....	34	M-575-H.....	35

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
M-577.....	35	M-646-H.....	42	M-719.....	59	M-799.....	60
M-577-H.....	35	M-647.....	42, 80 & 111	M-720.....	59	M-800.....	60
M-578.....	35	M-647-H.....	42	M-721.....	59	M-801.....	60
M-578-H.....	35	M-648.....	42	M-722.....	59	M-802.....	60
M-579.....	35	M-648-H.....	42	M-723.....	59	M-803.....	60
M-579-H.....	35	M-649.....	42	M-724.....	59	M-804.....	60
M-581-H.....	41	M-649-H.....	42	M-725.....	59	M-806.....	60
M-582-H.....	41	M-650.....	42	M-726.....	59	M-807.....	60
M-583-H.....	41	M-650-H.....	42	M-727.....	59	M-808.....	60
M-584-H.....	41	M-652.....	42	M-729.....	59	M-809.....	60
M-585.....	44	M-652-H.....	42	M-730.....	59	M-810.....	60
M-585-H.....	44	M-653.....	42	M-731.....	59	M-811.....	60
M-586.....	44, 45 & 154	M-653-H.....	42	M-732.....	59	M-812.....	60
M-586-H.....	44	M-654.....	42	M-733.....	59	M-813.....	60
M-588.....	44, 45, 80 & 154	M-654-H.....	42	M-734.....	59	M-814.....	60
M-588-H.....	44	M-656.....	59	M-735.....	59	M-816.....	60
M-588-S.....	45 & 80	M-657.....	59	M-736.....	59	M-817.....	60
M-589.....	44 & 80	M-658.....	59	M-737.....	59	M-818.....	60
M-589-H.....	44	M-659.....	59	M-739.....	59	M-819.....	60
M-590.....	44, 45 & 80	M-660.....	59	M-740.....	59	M-820.....	60
M-590-H.....	44	M-661.....	59	M-741.....	59	M-821.....	60
M-591.....	44, 45 & 80	M-662.....	59	M-743.....	60	M-822.....	60
M-591-H.....	44	M-663.....	59	M-744.....	60	M-823.....	60
M-592.....	44 & 45	M-664.....	59	M-745.....	60	M-824.....	60
M-592-H.....	44	M-665.....	59	M-746.....	60	M-826.....	60
M-593.....	44, 45, 80 & 113	M-666.....	59	M-747.....	60	M-827.....	60
M-593-H.....	44	M-667.....	59	M-748.....	60	M-828.....	60
M-594.....	44	M-668.....	59	M-749.....	60	M-830.....	57
M-594-H.....	44	M-669.....	59	M-750.....	60	M-831.....	57
M-595.....	44	M-670.....	59	M-751.....	60	M-832.....	57
M-595-H.....	44	M-672.....	59	M-752.....	60	M-833.....	57
M-596.....	44	M-673.....	59	M-753.....	60	M-834.....	57
M-596-H.....	44	M-674.....	59	M-754.....	60	M-835.....	57
M-598.....	44	M-675.....	59	M-755.....	60	M-836.....	57
M-598-H.....	44	M-676.....	59	M-756.....	60	M-837.....	57
M-599.....	44	M-677.....	59	M-757.....	60	M-838.....	57
M-599-H.....	44	M-678.....	59	M-759.....	60	M-839.....	57
M-600.....	44	M-680.....	59	M-760.....	60	M-840.....	57
M-600-H.....	44	M-681.....	59	M-761.....	60	M-841.....	57
M-602.....	43	M-682.....	59	M-762.....	60	M-842.....	57
M-603.....	43	M-683.....	59	M-763.....	60	M-843.....	57
M-604.....	43	M-684.....	59	M-764.....	60	M-844.....	57
M-605.....	43	M-685.....	59	M-765.....	60	M-846.....	57
M-616.....	43	M-686.....	59	M-767.....	60	M-847.....	57
M-616-H.....	43	M-687.....	59	M-768.....	60	M-848.....	57
M-617.....	43	M-689.....	59	M-769.....	60	M-849.....	57
M-617-H.....	43	M-690.....	59	M-770.....	60	M-850.....	57
M-618.....	43	M-691.....	59	M-771.....	60	M-851.....	57
M-618-H.....	43	M-692.....	59	M-772.....	60	M-852.....	57
M-619.....	43 & 112	M-693.....	59	M-773.....	60	M-854.....	57
M-619-H.....	43	M-694.....	59	M-774.....	60	M-855.....	57
M-620.....	43	M-695.....	59	M-776.....	60	M-857.....	57
M-620-H.....	43	M-696.....	59	M-777.....	60	M-858.....	57
M-621.....	43	M-697.....	59	M-778.....	60	M-859.....	57
M-621-H.....	43	M-699.....	59	M-779.....	60	M-860.....	57
M-622.....	43	M-700.....	59	M-780.....	60	M-861.....	57
M-622-H.....	43	M-701.....	59	M-781.....	60	M-862.....	57
M-624.....	43	M-702.....	59	M-782.....	60	M-864.....	57
M-624-H.....	43	M-703.....	59	M-783.....	60	M-865.....	57
M-625-H.....	43	M-704.....	59	M-784.....	60	M-867.....	57
M-626-H.....	43	M-705.....	59	M-786.....	60	M-868.....	57
M-628.....	42	M-706.....	59	M-787.....	60	M-869.....	57
M-629.....	42	M-707.....	59	M-788.....	60	M-870.....	57
M-630.....	42	M-709.....	59	M-789.....	60	M-871.....	57
M-630-S.....	80	M-710.....	59	M-790.....	60	M-872.....	57
M-631.....	42	M-711.....	59	M-791.....	60	M-874.....	57
M-644.....	42	M-712.....	59	M-792.....	60	M-875.....	57
M-644-H.....	42	M-713.....	59	M-793.....	60	M-877.....	57
M-645.....	42	M-714.....	59	M-794.....	60	M-878.....	57
M-645.....	80	M-715.....	59	M-796.....	60	M-879.....	57
M-645-H.....	42	M-716.....	59	M-797.....	60	M-880.....	57
M-646.....	42	M-717.....	59	M-798.....	60	M-881.....	57

INDEX

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
M-882.....	57	M-970.....	50	M-1084.....	65	M-1233.....	64
M-884.....	57	M-971.....	50	M-1085.....	65	M-1234.....	64
M-885.....	57	M-974.....	50	M-1086.....	65	M-1235.....	64
M-887.....	57	M-975.....	50	M-1087-"X".....	142	M-1236.....	64
M-888.....	57	M-976.....	50	M-1088.....	66	M-1237.....	64
M-889.....	57	M-977.....	50	M-1089.....	66	M-1238.....	64
M-890.....	57	M-978.....	50	M-1090.....	66	M-1239.....	64
M-891.....	57	M-979.....	50	M-1091.....	66	M-1242.....	64
M-892.....	57	M-980.....	50	M-1092.....	66	M-1243.....	64
M-894.....	57	M-981.....	50 & 163	M-1093.....	66	M-1244.....	64
M-895.....	57	M-982.....	50	M-1094.....	66	M-1245.....	64
M-898.....	58	M-983.....	50	M-1095.....	66	M-1246.....	64
M-899.....	58	M-984.....	50 & 116	M-1096.....	66	M-1247.....	64
M-900.....	58	M-985.....	50, 116 & 163	M-1098.....	64	M-1248.....	64
M-901.....	58	M-986.....	50	M-1099.....	64	M-1249.....	64
M-902.....	58	M-987.....	50	M-1100.....	64	M-1250.....	64
M-903.....	58	M-988.....	50	M-1101.....	64	M-1270.....	28
M-904.....	58	M-989.....	50	M-1102.....	64	M-1271.....	28
M-905.....	58	M-990.....	50	M-1103.....	64	M-1272.....	28
M-906.....	58	M-991.....	50	M-1104.....	64	M-1273.....	28
M-907.....	58	M-992.....	50	M-1105.....	64	M-1274.....	28
M-908.....	58	M-993.....	50	M-1108.....	64	M-1275.....	28
M-909.....	58	M-994.....	50	M-1109.....	64	M-1276.....	28 & 80
M-910.....	58	M-995.....	50	M-1110.....	64	M-1277.....	28
M-911.....	58	M-1001.....	50	M-1113.....	64	M-1278.....	28
M-912.....	58	M-1002.....	50	M-1114.....	64	M-1279.....	28
M-914.....	58	M-1003.....	50	M-1118.....	63	M-1280.....	28
M-915.....	58	M-1004.....	50	M-1119.....	63	M-1281.....	28
M-916.....	58	M-1005.....	50	M-1120.....	63	M-1282.....	28
M-917.....	58	M-1006.....	50	M-1121.....	63	M-1283.....	28
M-918.....	58	M-1007.....	50	M-1122.....	63	M-1284.....	28
M-919.....	58	M-1008.....	50	M-1123.....	63	M-1285.....	28
M-920.....	58	M-1009.....	50	M-1124.....	63	M-1286.....	28
M-922.....	58	M-1010.....	50	M-1125.....	63	M-1287.....	28
M-923.....	58	M-1011.....	50	M-1126.....	63	M-1288.....	28
M-924.....	83	M-1044.....	65	M-1127.....	63	M-1289.....	28
M-925.....	58	M-1045.....	65	M-1130.....	63	M-1290.....	28
M-926.....	58	M-1046.....	65	M-1131.....	63	M-1291.....	28
M-927.....	58	M-1047.....	65	M-1132.....	63	M-1292.....	28
M-928.....	58	M-1048.....	65	M-1133.....	63	M-1293.....	28
M-929.....	58	M-1049.....	65	M-1134.....	63	M-1294.....	28
M-930.....	58	M-1050.....	65	M-1135.....	63	M-1295.....	28
M-932.....	58	M-1051.....	65	M-1136.....	63	M-1296.....	28
M-933.....	58	M-1052.....	65	M-1137.....	63	M-1297.....	28
M-935.....	58	M-1054.....	66	M-1138.....	63	M-1298.....	28
M-936.....	58	M-1055.....	66	M-1147.....	46	M-1299.....	28
M-937.....	58	M-1056.....	66	M-1208.....	29	M-1300.....	28
M-938.....	58	M-1057.....	66	M-1212.....	38	M-1301.....	28
M-939.....	58	M-1058.....	66	M-1215.....	47	M-1302.....	28
M-940.....	58	M-1059.....	66	M-1215-H.....	47	M-1303.....	28
M-942.....	58	M-1060.....	66	M-1216.....	47	M-1304.....	28
M-943.....	58	M-1061.....	66	M-1216-H.....	47	M-1305.....	28
M-945.....	58	M-1063.....	66	M-1218.....	47	M-1306.....	28
M-946.....	58	M-1064.....	66	M-1218-H.....	47	M-1307.....	28
M-947.....	58	M-1065.....	66	M-1219.....	47	M-1308.....	28
M-948.....	58	M-1066.....	66	M-1219-H.....	47	M-1309.....	28
M-949.....	58	M-1067.....	66	M-1220.....	47	M-1310.....	28
M-950.....	58	M-1068.....	66	M-1220-H.....	47	M-1311.....	29
M-952.....	58	M-1069.....	66	M-1221.....	47	M-1313.....	29 & 80
M-953.....	58	M-1070.....	66	M-1221-H.....	47	M-1313-S.....	80
M-955.....	58	M-1072.....	65	M-1222.....	47	M-1314.....	29
M-956.....	58	M-1073.....	65	M-1222-H.....	47	M-1315.....	29
M-957.....	58	M-1074.....	65	M-1223.....	47 & 115	M-1316.....	29
M-958.....	58	M-1075.....	65	M-1223-H.....	47	M-1317.....	29
M-959.....	58	M-1076.....	65	M-1224.....	47	M-1318.....	29
M-960.....	58	M-1077.....	65	M-1224-H.....	47	M-1319.....	29
M-962.....	58	M-1078.....	65	M-1225-H.....	47	M-1320.....	29
M-963.....	58	M-1079.....	65	M-1226-H.....	47	M-1321.....	29
M-966.....	50	M-1080.....	65	M-1228-H.....	47	M-1322.....	29 & 80
M-967.....	50	M-1081.....	65	M-1230.....	64	M-1323.....	29
M-968.....	50	M-1082.....	65	M-1231.....	64	M-1324.....	29
M-969.....	50	M-1083.....	65	M-1232.....	64	M-1325.....	29

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
M-1331	29 & 80	M-1633	48 & 114	M-1702	62	M-1988	132
M-1332	29	M-1634	48	M-1703	62	M-1989	132
M-1333	29	M-1635	49	M-1707	62	M-1992	132
M-1334	29	M-1635-H	49	M-1708	62	M-1992-S	132
M-1335	29	M-1636	49	M-1709	62	M-1993	132
M-1336	29	M-1636-H	49	M-1710	62	M-1993-S	132
M-1337	29	M-1638	49	M-1711	62	M-1994	132
M-1338	29	M-1638-H	49	M-1712	62	M-1994-S	132
M-1340	29	M-1639	49	M-1713	62	M-1995	132
M-1341	29	M-1639-H	49	M-1714	62	M-1996	132
M-1342	29	M-1640	49	M-1715	62	M-1997	132
M-1343	29	M-1640-H	49	M-1716	62	M-2000	132
M-1344	29	M-1641	49 & 80	M-1717	62	M-2000-S	132
M-1345	29	M-1641-H	49	M-1880	41	M-2001	132
M-1346	29	M-1642	49	M-1881	41	M-2001-S	132
M-1348	29	M-1642-H	49	M-1882	41	M-2002	132
M-1349	29	M-1643	49 & 115	M-1883	41	M-2002-S	132
M-1350	29	M-1643-H	49	M-1884	41	M-2003	132
M-1351	29	M-1644	49	M-1885	41	M-2004	132
M-1352	29	M-1644-H	49	M-1886	41	M-2005	132
M-1353	29	M-1645	49	M-1887	41	M-2006	39
M-1354	29	M-1645-H	49	M-1888	41	M-2007	39 & 80
M-1355	29	M-1646	49	M-1889	41	M-2008	39 & 80
M-1357	29	M-1646-H	49	M-1890	41	M-2009	39
M-1358	29	M-1648	49	M-1891	41	M-2010	39 & 80
M-1359	29	M-1648-H	49	M-1915	50	M-2011	39
M-1360	29	M-1649	49	M-1916	50	M-2012	39 & 80
M-1371	29	M-1650	49	M-1917	50	M-2013	39 & 80
M-1373	29	M-1651	56	M-1918	50	M-2014	39 & 80
M-1374	29	M-1652	56	M-1920	50	M-2015	39 & 80
M-1375	29	M-1653	56	M-1921	50	M-2016	39
M-1376	29	M-1654	56	M-1922	50	M-2017	39 & 80
M-1378	29	M-1655	56	M-1955	122	M-2018	39
M-1379	29	M-1656	56	M-1956	122	M-2019	39
M-1380	29	M-1657	56	M-1957	122	M-2020	39
M-1381	29	M-1659	56	M-1958	122	M-2021	39 & 80
M-1581	36	M-1660	56	M-1960	132	M-2024	39
M-1582	36	M-1661	56	M-1960-S	132	M-2025	39
M-1583	36 & 108	M-1662	56	M-1961	132	M-2026	39
M-1584	36	M-1663	56	M-1961-S	132	M-2027	39 & 80
M-1586	36	M-1664	56	M-1962	132	M-2028	39 & 80
M-1587	36 & 80	M-1665	56	M-1962-S	132	M-2029	39 & 80
M-1588	36, 80 & 108	M-1666	56	M-1963	132	M-2030	39
M-1589	36	M-1668	56	M-1964	132	M-2031	39
M-1593	36	M-1669	56	M-1965	132	M-2032	39 & 80
M-1594	36	M-1670	56	M-1966	122	M-2033	39 & 80
M-1595	36	M-1671	56	M-1967	122	M-2034	39
M-1596	36, 80 & 108	M-1672	56	M-1968	132	M-2035	53
M-1597	36	M-1673	56	M-1968-S	132	M-2036	53
M-1601	36	M-1674	56	M-1969	132	M-2036-S	53
M-1602	36	M-1675	56	M-1969-S	132	M-2037	53
M-1603	36	M-1676	56	M-1970	132	M-2038	53
M-1604	36	M-1677	56	M-1970-S	132	M-2039	53
M-1605	36 & 108	M-1679	56	M-1971	132	M-2041	53
M-1606	36	M-1680	56	M-1972	132	M-2042	53
M-1610	36	M-1681	56	M-1973	132	M-2043	53
M-1611	36	M-1682	62	M-1976	132	M-2044	53
M-1613	47	M-1683	62	M-1976-S	132	M-2045	53
M-1614	47	M-1684	62	M-1977	132	M-2068	39
M-1615	47	M-1685	62	M-1977-S	132	M-2069	39
M-1616	47	M-1690	62	M-1978	132	M-2070	39
M-1617	47	M-1691	62	M-1978-S	132	M-2084	38
M-1618	47	M-1692	62	M-1979	132	M-2105	39
M-1619	47	M-1693	62	M-1980	132	M-2106	39 & 80
M-1620	47	M-1694	62	M-1981	132	M-2107	39 & 80
M-1626	48	M-1695	62	M-1984	132	M-2108	39
M-1627	48	M-1696	62	M-1984-S	132	M-2109	39
M-1628	48	M-1697	62	M-1985	132	M-2110	39
M-1629	48	M-1698	62	M-1985-S	132	M-2132	108
M-1630	48	M-1699	62	M-1986	132	M-2138	109
M-1631	48	M-1700	62	M-1986-S	132	M-2154	36
M-1632	48	M-1701	62	M-1987	132	M-2155	36

INDEX

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
M-2156	36	M-2262	104	M-2334	105	M-2406	108
M-2157	36	M-2263	104	M-2335	105	M-2407	108
M-2158	36	M-2264	104	M-2336	105	M-2408	108
M-2159	36	M-2265	104	M-2337	105	M-2409	108
M-2160	36	M-2266	104	M-2338	105	M-2410	108
M-2161	36	M-2267	104	M-2339	105	M-2411	108
M-2162	36	M-2268	104	M-2340	105	M-2412	108
M-2163	36	M-2269	104	M-2341	105	M-2413	108
M-2164	36	M-2270	104	M-2342	105	M-2414	108
M-2165	36	M-2271	105	M-2343	105	M-2415	108
M-2174	108	M-2272	105	M-2344	105	M-2416	108
M-2176	103	M-2273	105	M-2345	105	M-2417	108
M-2177	114	M-2274	105	M-2346	105	M-2418	108
M-2178	103	M-2275	105	M-2347	106	M-2419	108
M-2180	103	M-2276	105	M-2348	106	M-2421	108
M-2182	103	M-2277	105	M-2349	106	M-2422	108
M-2183	104	M-2278	105	M-2350	106	M-2423	108
M-2184	104	M-2279	105	M-2351	106	M-2424	108
M-2185	104	M-2280	105	M-2352	106	M-2425	108
M-2186	104	M-2281	105	M-2353	106	M-2426	108
M-2187	104	M-2282	105	M-2354	106	M-2427	108
M-2189	46 & 80	M-2283	105	M-2355	106	M-2428	108
M-2189-H	46	M-2284	105	M-2356	106	M-2430	111
M-2192	104	M-2285	105	M-2357	106	M-2431	111
M-2193	104	M-2286	105	M-2358	106	M-2432	111
M-2194	104	M-2287	105	M-2359	106	M-2433	111
M-2195	104	M-2288	105	M-2360	106	M-2434	111
M-2197	104	M-2289	105	M-2361	106	M-2435	112
M-2199	42	M-2290	105	M-2362	106	M-2436	112
M-2200	42	M-2291	105	M-2363	106	M-2437	112
M-2201	116	M-2292	105	M-2364	106	M-2438	112
M-2222	104	M-2293	105	M-2365	106	M-2439	112
M-2223	104	M-2294	105	M-2366	106	M-2440	113
M-2224	104	M-2295	105	M-2367	106	M-2441	113
M-2225	104	M-2296	105	M-2368	106	M-2442	113
M-2226	104	M-2297	105	M-2369	106	M-2443	113
M-2227	104	M-2298	105	M-2370	106	M-2444	113
M-2228	104	M-2299	105	M-2371	106	M-2445	115
M-2229	104	M-2300	105	M-2372	106	M-2446	115
M-2230	104	M-2301	105	M-2373	106	M-2447	115
M-2231	104	M-2302	105	M-2374	107	M-2448	115
M-2232	104	M-2303	105	M-2375	107	M-2449	115
M-2233	104	M-2304	105	M-2376	107	M-2450	38
M-2234	104	M-2305	105	M-2377	107	M-2451	114
M-2235	38	M-2306	105	M-2378	107	M-2452	114
M-2236	104	M-2307	105	M-2379	107	M-2453	114
M-2237	104	M-2308	105	M-2380	107	M-2454	114
M-2238	104	M-2309	105	M-2381	107	M-2455	111
M-2239	104	M-2310	105	M-2382	107	M-2456	111
M-223-S	80	M-2311	105	M-2383	107	M-2457	111
M-2240	104	M-2312	105	M-2384	107	M-2458	111
M-2241	104	M-2313	105	M-2385	107	M-2459	111
M-2242	104	M-2314	105	M-2386	107	M-2460	111
M-2243	104	M-2315	105	M-2387	107	M-2461	114
M-2244	104	M-2316	105	M-2388	107	M-2462	114
M-2245	104	M-2317	105	M-2389	107	M-2463	114
M-2246	104	M-2318	105	M-2390	107	M-2464	114
M-2247	104	M-2319	105	M-2391	107	M-2465	114
M-2248	104	M-2320	38	M-2392	107	M-2466	115
M-2249	104	M-2321	105	M-2393	107	M-2467	115
M-2250	104	M-2322	105	M-2394	107	M-2468	115
M-2251	104	M-2323	105	M-2395	107	M-2469	115
M-2252	104	M-2324	105	M-2396	107	M-2470	115
M-2253	104	M-2325	105	M-2397	107	M-2471	116
M-2254	104	M-2326	105	M-2398	107	M-2472	116
M-2255	104	M-2327	105	M-2399	107	M-2473	116
M-2256	104	M-2328	105	M-2400	107	M-2474	116
M-2257	104	M-2329	105	M-2401	107	M-2475	116
M-2258	104	M-2330	105	M-2402	107	M-2476	45
M-2259	104	M-2331	105	M-2403	108	M-2477	45
M-2260	104	M-2332	105	M-2404	108	M-2478	45
M-2261	104	M-2333	105	M-2405	108	M-2480	45

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
M-2480-S	45	M-2752	31	M-2928	179	M-3152	179
M-2482	45	M-2753	31	M-2939	202	M-3157	179 & 207
M-2483	45	M-2754	31	M-2940	202	M-3159	179
M-2484	45	M-2755	31	M-2949	178	M-3160	179
M-2486	45	M-2756	31	M-2950	179	M-3161	179
M-2487	45	M-2757	31	M-2954	202	M-3167	179
M-2488	45	M-2761	48	M-2971	180	M-3169	179
M-2490	45	M-2763	154	M-2985	202	M-3171	179
M-2491	45	M-2781	46	M-2986	202	M-3172	179
M-2493	45	M-2781-H	46	M-2989	202	M-3173	179 & 207
M-2494	45	M-2781-S	80	M-2990	202	M-3174	179
M-2495	45	M-2781-SV(P.S.)	163	M-3004	177	M-3176	179
M-2497	45	M-2803	189	M-3005	177	M-3178	179
M-2498	45	M-2804	184	M-3006	177	M-3179	179
M-2506	42	M-2805	184	M-3008	177	M-3180	179
M-2507	42	M-2808	184	M-3010	177	M-3181	179
M-2509	42	M-2813	184	M-3011	177	M-3183	179
M-2510	38	M-2815	184	M-3012	177	M-3185	179
M-2511	42	M-2816	184	M-3013	177	M-3186	179
M-2521	116	M-2818	184	M-3014	177	M-3187	179
M-2540	46 & 80	M-2819	184	M-3015	177	M-3188	179
M-2540-H	46	M-2821	184	M-3021	178	M-3191	179
M-2540-V(P.S.)	163	M-2822	202	M-3022	178	M-3192	179
M-2542	42	M-2823	184	M-3022	207	M-3193	179
M-2558	38	M-2824	184	M-3023	178	M-3194	179
M-2566	37	M-2826	184	M-3024	178	M-3197	179
M-2567	48	M-2827	184	M-3025	178	M-3198	179
M-2568	48	M-2828	184	M-3026	178	M-3199	179
M-2569	48	M-2829	184	M-3031	178 & 207	M-3200	179
M-2583	45	M-2831	184	M-3033	178	M-3201	179
M-2583-S	45	M-2833	190	M-3034	178	M-3202	179
M-2594	124	M-2834	190	M-3034	207	M-3234	180
M-2594-S	124	M-2835	190	M-3035	178	M-3237	180
M-2595	124	M-2836	190	M-3041	178	M-3238	180
M-2595-S	124	M-2837	184	M-3043	178	M-3254	181
M-2596	124	M-2838	184	M-3044	180	M-3255	181
M-2596-S	124	M-2839	184	M-3045	178	M-3256	181
M-2597	124	M-2840	184	M-3046	178	M-3257	181
M-2687	31	M-2841	184	M-3047	178 & 207	M-3258	181
M-2689	31	M-2842	177	M-3048	178	M-3259	181
M-2690	31	M-2843	104	M-3051	178 & 207	M-3264	181
M-2691	31	M-2844	184	M-3052	178	M-3266	181
M-2692	31	M-2845	184	M-3053	178	M-3267	181
M-2693	31	M-2846	184	M-3054	178	M-3268	181
M-2694	31	M-2847	184	M-3055	178	M-3269	180
M-2695	31	M-2848	184	M-3057	178	M-3274	181
M-2696	31	M-2849	177	M-3059	178	M-3276	181
M-2697	31	M-2850	184	M-3060	178	M-3278	181
M-2698	31 & 80	M-2851	184	M-3061	178	M-3279	181
M-2699	31	M-2852	184	M-3062	178	M-3280	181
M-2700	31	M-2853	184	M-3065	178 & 207	M-3281	181
M-2701	31	M-2855	105	M-3066	178	M-3283	181
M-2702	31	M-2856	114	M-3067	178	M-3285	181
M-2703	31	M-2868	190	M-3068	178	M-3286	181
M-2704	31	M-2876	191	M-3070	188	M-3287	181
M-2705	31	M-2884	191	M-3070	188	M-3288	181
M-2706	31	M-2887	191	M-3071	178 & 207	M-3290	181
M-2707	31 & 80	M-2889	191	M-3072	178	M-3292	181
M-2708	31	M-2890	191	M-3073	178	M-3293	181
M-2709	31	M-2891	202	M-3074	178	M-3294	181
M-2710	31	M-2892	202	M-3080	188	M-3295	181
M-2711	31	M-2893	202	M-3097	122	M-3297	205
M-2712	31	M-2909	202	M-3126	177	M-3298	181
M-2713	31	M-2910	177	M-3127	177	M-3299	181
M-2714	31	M-2911	202	M-3128	177	M-3300	181
M-2715	31	M-2912	202	M-3140	188	M-3301	181
M-2716	31	M-2913	202	M-3141	122	M-3302	205
M-2717	31	M-2914	178	M-3147	179	M-3304	181
M-2718	31	M-2915	178	M-3148	179	M-3305	181
M-2719	31	M-2916	178	M-3149	179	M-3306	181
M-2747	31	M-2919	203	M-3150	179	M-3307	181
M-2751	31	M-2926	179	M-3151	179	M-3321	182

INDEX

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
M-3322	182	M-3464	189	M-3583	196	M-3718	199
M-3323	182	M-3466	189	M-3584	196	M-3719	199
M-3325	182	M-3468	189	M-3585	196	M-3720	199
M-3327	182	M-3469	189	M-3586	196	M-3721	199
M-3328	182	M-3470	189	M-3587	196	M-3722	199
M-3336	182	M-3471	189	M-3588	196	M-3723	199
M-3337	182	M-3472	189	M-3589	196	M-3724	199
M-3338	182	M-3473	189	M-3590	196	M-3732	180
M-3340	182	M-3479	186	M-3595	197	M-3740	206
M-3342	182	M-3480	186	M-3596	197	M-3747	188
M-3343	182	M-3481	186	M-3597	197	M-3804	198
M-3344	182	M-3483	186	M-3598	197	M-3805	198
M-3345	182	M-3485	186	M-3599	197	M-3806	198
M-3346	182	M-3486	186	M-3600	197	M-3807	198
M-3354	182	M-3487	186	M-3601	197	M-3808	198
M-3355	182	M-3488	186	M-3602	197	M-3809	198
M-3356	182	M-3489	186	M-3603	197	M-3810	198
M-3358	182	M-3490	186	M-3606	197	M-3811	198
M-3360	182	M-3496	187	M-3607	197	M-3812	198
M-3361	182	M-3497	187	M-3610	197	M-3813	198
M-3362	182	M-3498	187	M-3611	197	M-3814	198
M-3363	182	M-3500	187	M-3612	197	M-3815	198
M-3364	182	M-3502	187	M-3613	197	M-3816	198
M-3365	182	M-3503	187	M-3614	197	M-3817	198
M-3370	200	M-3504	187	M-3615	197	M-3818	198
M-3372	183	M-3505	187	M-3616	197	M-3819	198
M-3373	183	M-3506	187	M-3617	197	M-3820	198
M-3374	183	M-3522	189	M-3618	197	M-3821	198
M-3376	183	M-3523	189	M-3619	197	M-3822	198
M-3378	183	M-3524	189	M-3620	197	M-3823	198
M-3379	183	M-3525	189	M-3621	197	M-3824	198
M-3387	183	M-3527	189	M-3624-H	184	M-3825	198
M-3388	183	M-3529	189	M-3625-H	184	M-3826	198
M-3389	183	M-3530	189	M-3628	198	M-3827	198
M-3391	183 & 207	M-3534	193	M-3629	198	M-3828	198
M-3392	180	M-3535	193	M-3630	198	M-3829	198
M-3393	183	M-3536	193	M-3631	198	M-3831	199
M-3394	183 & 207	M-3537	193	M-3632	198	M-3832	199
M-3395	183	M-3538	193	M-3633	198	M-3833	199
M-3396	183	M-3539	193	M-3634	198	M-3834	199
M-3397	183	M-3540	193	M-3635	198	M-3835	199
M-3405	183	M-3541	193	M-3636	198	M-3836	199
M-3406	183	M-3544	193	M-3637	198	M-3837	199
M-3407	183	M-3545	193	M-3638	198	M-3838	199
M-3409	183 & 207	M-3548	193	M-3639	198	M-3839	199
M-3411	183	M-3549	193	M-3640	198	M-3840	199
M-3412	183 & 207	M-3550	193	M-3641	198	M-3841	199
M-3413	183	M-3551	193	M-3642	198	M-3842	199
M-3414	183	M-3552	193	M-3643	198	M-3843	199
M-3415	183	M-3553	193	M-3644	198	M-3844	199
M-3416	183	M-3554	193	M-3645	198	M-3845	199
M-3419	186	M-3555	193	M-3646	198	M-3846	199
M-3421	186	M-3556	193	M-3647	198	M-3847	199
M-3423	186	M-3557	193	M-3648	198	M-3848	199
M-3424	186	M-3558	193	M-3649	198	M-3849	199
M-3425	186	M-3559	193	M-3668	206	M-3850	199
M-3426	186	M-3560	193	M-3669	206	M-3851	199
M-3427	186	M-3563	196	M-3703	199	M-3852	199
M-3428	186	M-3565	196	M-3704	199	M-3853	203
M-3432	180	M-3566	196	M-3705	199	M-3854	203
M-3445	188	M-3567	196	M-3706	199	M-3855	203
M-3446	188	M-3568	196	M-3707	199	M-3856	203
M-3447	188	M-3569	196	M-3708	199	M-3857	203
M-3449	188	M-3570	196	M-3709	199	M-3858	204
M-3451	188	M-3571	196	M-3710	199	M-3876	206
M-3452	188	M-3572	196	M-3711	199	M-3912	203
M-3453	188	M-3575	196	M-3712	199	M-3913	203
M-3454	188	M-3576	196	M-3713	199	M-3914	203
M-3455	188	M-3579	196	M-3714	199	M-3915	203
M-3456	188	M-3580	196	M-3715	199	M-3916	203
M-3462	189	M-3581	196	M-3716	199	M-3917	203
M-3463	189	M-3582	196	M-3717	199	M-3918	203

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
M-3919.....	203	M-4066.....	201	M-4183.....	191	M-4678.....	188
M-3920.....	203	M-4067.....	201	M-4188.....	190	M-4679.....	188
M-3921.....	203	M-4068.....	201	M-4191.....	190	M-4689.....	177
M-3922.....	203	M-4069.....	201	M-4192.....	190	M-4691.....	188
M-3923.....	203	M-4070.....	201	M-4193.....	190	M-4701.....	189
M-3924.....	203	M-4071.....	201	M-4254.....	180	M-4749.....	180
M-3925.....	203	M-4072.....	201	M-4257.....	202	M-4752.....	189
M-3926.....	203	M-4073.....	201	M-4260.....	180	M-4757.....	189
M-3927.....	203	M-4074.....	201	M-4263.....	206	M-4769.....	189
M-3928.....	203	M-4075.....	201	M-4266.....	202	M-4779.....	189
M-3929.....	203	M-4076.....	201	M-4274.....	192	M-4780.....	189
M-3930.....	203	M-4077.....	201	M-4284.....	193	M-4833.....	189
M-3931.....	203	M-4078.....	201	M-4285.....	202	M-4834.....	189
M-3932.....	203	M-4079.....	201	M-4289.....	180	M-4835.....	189
M-3933.....	203	M-4080.....	201	M-4290.....	180	M-4851.....	204
M-3934.....	203	M-4081.....	201	M-4291.....	180	M-4881.....	183
M-3935.....	203	M-4082.....	201	M-4292.....	180	M-4882.....	184
M-3936.....	203	M-4083.....	201	M-4302.....	180	M-4915.....	193
M-3937.....	203	M-4084.....	201	M-4303.....	180	M-4935.....	200
M-3938.....	203	M-4085.....	201	M-4311.....	180	M-4980.....	180
M-3939.....	203	M-4086.....	201	M-4319.....	180	M-4981.....	180
M-3940.....	203	M-4087.....	201	M-4325.....	180	M-5000.....	113
M-3941.....	203	M-4090.....	201	M-4337.....	180	M-5001.....	26
M-3942.....	203	M-4091.....	201	M-4338.....	180	M-5001-H.....	26
M-3943.....	203	M-4092.....	201	M-4344.....	200	M-5002.....	103
M-3944.....	203	M-4093.....	201	M-4347.....	180	M-5005.....	103
M-3945.....	203	M-4094.....	201	M-4348.....	181	M-5006.....	103
M-3946.....	203	M-4095.....	201	M-4350.....	181	M-5008.....	116
M-3947.....	203	M-4096.....	201	M-4351.....	182	M-5009.....	116
M-3948.....	203	M-4097.....	201	M-4352.....	182	M-5012.....	103
M-3949.....	204	M-4098.....	201	M-4381.....	182	M-5013.....	103
M-3950.....	204	M-4099.....	201	M-4382.....	202	M-5014.....	104
M-3951.....	204	M-4100.....	201	M-4383.....	202	M-5015.....	104
M-3952.....	204	M-4101.....	201	M-4392.....	182	M-5016.....	103
M-3953.....	204	M-4102.....	201	M-4412.....	182	M-5017.....	104
M-3954.....	204	M-4103.....	201	M-4413.....	182	M-5018.....	104
M-3955.....	204	M-4104.....	201	M-4414.....	182	M-5019.....	104
M-3956.....	204	M-4113.....	206	M-4471.....	202	M-5020.....	104
M-3957.....	204	M-4114.....	188	M-4472.....	200	M-5021.....	24 & 80
M-3958.....	204	M-4123.....	200	M-4486.....	183	M-5021-H.....	24
M-3959.....	204	M-4145.....	180	M-4503.....	183	M-5023.....	104
M-3960.....	204	M-4146.....	190	M-4505.....	183	M-5029.....	116
M-3961.....	204	M-4147.....	190 & 207	M-4509.....	200	M-5030.....	116
M-3962.....	204	M-4148.....	190	M-4513.....	183	M-5031.....	116
M-3963.....	204	M-4149.....	190 & 207	M-4514.....	200	M-5032.....	103
M-3964.....	204	M-4152.....	190	M-4515.....	183	M-5033.....	104
M-3965.....	204	M-4153.....	190	M-4518.....	183	M-5034.....	116
M-3966.....	204	M-4154.....	190	M-4522-H.....	184	M-5035.....	104
M-3967.....	204	M-4155.....	190	M-4527.....	186	M-5036.....	104
M-3968.....	204	M-4156.....	190	M-4529.....	186	M-5037.....	104
M-3969.....	204	M-4157.....	190	M-4530.....	186	M-5040.....	104
M-3970.....	204	M-4158.....	190	M-4534.....	186	M-5048.....	104
M-3971.....	204	M-4159.....	190	M-4536.....	186	M-5050.....	104
M-3972.....	204	M-4160.....	190	M-4537.....	187	M-5054.....	113
M-3973.....	204	M-4161.....	190	M-4538.....	187	M-5056.....	104
M-3974.....	204	M-4162.....	190	M-4551.....	187	M-5059.....	80
M-3975.....	204	M-4163.....	190	M-4552.....	187	M-5060.....	106
M-3976.....	204	M-4164.....	190	M-4560.....	187	M-5061.....	106
M-3977.....	204	M-4165.....	190	M-4585.....	187	M-5062.....	106
M-3978.....	204	M-4166.....	190	M-4592.....	187	M-5063.....	106
M-3979.....	204	M-4167.....	191	M-4601.....	188	M-5064.....	106
M-3980.....	204	M-4168.....	191	M-4602.....	187	M-5065.....	43
M-3981.....	204	M-4173.....	191	M-4617.....	187	M-5066.....	106
M-3982.....	204	M-4174.....	191	M-4622.....	187	M-5069.....	106
M-3983.....	204	M-4175.....	191	M-4638.....	187	M-5070.....	106
M-3984.....	204	M-4176.....	191	M-4641.....	187	M-5071.....	106
M-3985.....	204	M-4177.....	191	M-4643.....	181	M-5072.....	24
M-3986.....	204	M-4178.....	191	M-4644.....	182	M-5072-H.....	24
M-3987.....	204	M-4179.....	191	M-4645.....	183	M-5073.....	106
M-3988.....	204	M-4180.....	191	M-4653.....	187	M-5079.....	106
M-3989.....	204	M-4181.....	191	M-4670.....	188	M-5081.....	106
M-4060.....	180	M-4182.....	191	M-4672.....	188	M-5083.....	106

INDEX

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
M-5084.....	106	M-5180.....	115	M-5517.....	38	M-5746.....	37
M-5085.....	106	M-5181.....	115	M-5518.....	122	M-5767.....	38
M-5086.....	106	M-5182.....	115	M-5519.....	122	M-5777.....	37
M-5089.....	106	M-5184.....	115	M-5520.....	122	M-5781.....	33
M-5090.....	107	M-5185.....	115	M-5521.....	122	M-5781-H.....	33
M-5091.....	107	M-5197.....	32	M-5523.....	122	M-5786.....	34
M-5092.....	107	M-5197-H.....	32	M-5524.....	122	M-5786-H.....	34
M-5093.....	107	M-5198.....	58	M-5525.....	122	M-5787.....	35
M-5094.....	107	M-5200.....	115	M-5526.....	122	M-5787-H.....	35
M-5095.....	107	M-5202.....	113	M-5527.....	122	M-5799.....	32
M-5097.....	107	M-5203.....	113	M-5529.....	122	M-5799-H.....	32
M-5098.....	107	M-5205.....	113	M-5530.....	122	M-5803.....	37
M-5099.....	107	M-5231.....	105	M-5531.....	122	M-5807.....	37
M-5100.....	107	M-5232.....	105	M-5532.....	122	M-5809.....	125
M-5102.....	107	M-528.....	106	M-5533.....	122	M-5809-PS.....	125
M-5103.....	107	M-5284.....	104	M-5535.....	123	M-5815.....	34
M-5104.....	107	M-5286.....	104	M-5536.....	123	M-5815-H.....	34
M-5105.....	107	M-5287.....	104	M-5537.....	123	M-5820.....	37
M-5106.....	107	M-5288.....	104	M-5538.....	123	M-5821.....	37
M-5107.....	108	M-5294.....	37	M-5540.....	123	M-5830.....	37
M-5108.....	108	M-5316.....	123	M-5542.....	123	M-5833.....	37
M-5109.....	108	M-5321.....	36	M-5555.....	37	M-5850.....	37
M-5110.....	108	M-5330.....	38	M-5556.....	37	M-5857.....	37
M-5111.....	108	M-5331.....	43	M-5560.....	38	M-5858.....	32
M-5114.....	108	M-5332.....	38	M-5561.....	37	M-5858-H.....	32
M-5115.....	108	M-5333.....	38	M-5567.....	59	M-5877.....	37
M-5116.....	108	M-5334.....	38	M-5573.....	38	M-5878.....	33
M-5117.....	108	M-5335.....	38	M-5574.....	24	M-5878-H.....	33
M-5118.....	108	M-5336.....	38	M-5574-H.....	24	M-5904.....	37
M-5119.....	108	M-5337.....	38	M-5593.....	33	M-5910.....	48
M-5120.....	108	M-5338.....	38	M-5593-H.....	33	M-5915.....	34
M-5121.....	108	M-5340.....	29	M-5604.....	38	M-5915-H.....	34
M-5122.....	108	M-5341.....	38	M-5605.....	122	M-5935.....	37
M-5123.....	108	M-5342.....	29	M-5618.....	23	M-5940.....	37
M-5124.....	108	M-5351.....	38	M-5622.....	46 & 163	M-5943.....	29
M-5125.....	108	M-5352.....	38	M-5627.....	29	M-5944.....	59
M-5127.....	111	M-5359.....	46	M-5629.....	29	M-5961.....	37
M-5128.....	111	M-5359-H.....	46	M-5630.....	29	M-5963.....	37
M-5129.....	111	M-5361.....	46	M-5631.....	29	M-5965.....	29
M-5131.....	111	M-5361-H.....	46	M-5632.....	29	M-5972.....	37
M-5133.....	111	M-5362.....	46	M-5634.....	29	M-5977.....	200
M-5134.....	111	M-5362-H.....	46	M-5635.....	29	M-5986.....	122
M-5135.....	111	M-5363.....	46	M-5636.....	29	M-5988.....	122
M-5136.....	111	M-5363-H.....	46	M-5637.....	29	M-5992.....	37
M-5141.....	112	M-5380.....	37	M-5638.....	29	M-6000.....	122
M-5142.....	112	M-5388.....	34	M-5639.....	29	M-6002.....	38
M-5143.....	112	M-5388-H.....	34	M-5640.....	38	M-6003.....	37
M-5145.....	113	M-5389.....	46	M-5642.....	29	M-6021.....	23
M-5146.....	113	M-5389-H.....	46	M-5644.....	29	M-6021-H.....	23
M-5147.....	113	M-5390.....	37	M-5645.....	29	M-6025.....	37
M-5148.....	113	M-5398-"X".....	142	M-5652.....	29	M-6048.....	37
M-5149.....	113	M-5415.....	56	M-5659.....	29	M-6051.....	38
M-5150.....	113	M-5415-S.....	80	M-5660.....	36	M-6057.....	31
M-5153.....	115	M-5416.....	37	M-5661.....	122	M-6060.....	48
M-5154.....	115	M-5419.....	48	M-5662.....	122	M-6061.....	48
M-5156.....	115	M-5428.....	38	M-5663.....	122	M-6067.....	48
M-5158.....	115	M-5454.....	154	M-5664.....	122	M-6072.....	48
M-5159.....	115	M-5469.....	60	M-5666.....	122	M-6091.....	76
M-5160.....	115	M-5472.....	80	M-5667.....	38	M-6092.....	76
M-5162.....	114	M-5475.....	24	M-5668.....	29	M-6093.....	76
M-5163.....	114	M-5475-H.....	24	M-5677.....	38	M-6094.....	76
M-5165.....	114	M-5490.....	109	M-5684.....	29	M-6095.....	76
M-5167.....	114	M-5495.....	163	M-5686.....	29	M-6096.....	76
M-5168.....	114	M-5501.....	122	M-5688.....	29	M-6097.....	76
M-5169.....	114	M-5502-"X".....	142	M-5698.....	37	M-6098.....	76
M-5171.....	114	M-5503.....	122	M-5699.....	37	M-6099.....	76
M-5172.....	114	M-5505.....	122	M-5702.....	38	M-6100.....	76
M-5173.....	114	M-5507.....	122	M-5709.....	23	M-6101.....	76
M-5174.....	114	M-5510.....	122	M-5722.....	37	M-6102.....	76
M-5175.....	114	M-5513.....	37	M-5732.....	37	M-6103.....	76
M-5176.....	114	M-5514.....	122	M-5734.....	37	M-6104.....	76
M-5177.....	109	M-5515.....	37	M-5738.....	37	M-6105.....	76

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
M-6106	76	M-6390	142	M-7513	67	M-7649	69
M-6107	76	M-6391	142	M-7514	67	M-7650	69
M-6108	76	M-6392	142	M-7515	67	M-7651	69
M-6114	42 & 111	M-6395	142	M-7520	67	M-7652	69
M-6117	124	M-6448	32	M-7521	67	M-7653	69
M-6118	124	M-6448-H	32	M-7522	67	M-7654	69
M-6119	124	M-6494	30	M-7523	67	M-7655	69
M-6120	124	M-6552	29	M-7528	67	M-7656	69
M-6121	124	M-6609	153	M-7529	67	M-7657	69
M-6124	153	M-6610	153	M-7530	67	M-7658	69
M-6125	153	M-6618-S	80	M-7531	67	M-7659	69
M-6164	153	M-6630	36	M-7588	68	M-7708	70
M-6165	37	M-6658	59	M-7589	68	M-7709	70
M-6183	61	M-6667-S	163	M-7590	68	M-7710	70
M-6184	61	M-6683	30	M-7591	68	M-7711	70
M-6199	46 & 80	M-6694	59	M-7592	68	M-7712	70
M-6199-S	46, 80 & 163	M-6716	30	M-7593	68	M-7713	70
M-6201	35	M-6758	61	M-7594	68	M-7714	70
M-6201-H	35	M-6766	38	M-7595	68	M-7715	70
M-6208	38	M-6783	153	M-7596	68	M-7716	70
M-6251	122	M-6784	153	M-7597	68	M-7717	70
M-6252	153	M-6785	153	M-7598	68	M-7718	70
M-6253	154	M-6786	153	M-7599	68	M-7719	70
M-6254	154	M-6902	200	M-7600	68	M-7720	70
M-6255	154	M-6906	36	M-7601	68	M-7721	70
M-6257	154	M-6915	30	M-7602	68	M-7722	70
M-6258	154	M-6922	61	M-7603	68	M-7723	70
M-6300	79	M-6922-S	61	M-7604	68	M-7724	70
M-6301	79	M-6963	61	M-7605	68	M-7725	70
M-6303	79	M-6967	58	M-7606	68	M-7726	70
M-6305	79	M-7050	30	M-7607	68	M-7727	70
M-6306	79	M-7075	42	M-7608	68	M-7728	70
M-6307	79	M-7146	42	M-7609	68	M-7729	70
M-6309	79	M-7167	57	M-7610	68	M-7730	70
M-6310	79	M-7192	43	M-7611	68	M-7731	70
M-6311	79	M-7202	163	M-7612	68	M-7732	70
M-6312	79	M-7277	30	M-7613	68	M-7733	70
M-6313	79	M-7304	30	M-7614	68	M-7734	70
M-6314	79	M-7336	125 & 127	M-7615	68	M-7735	70
M-6315	79	M-7337	125	M-7616	68	M-7736	70
M-6316	79	M-7338	125	M-7617	68	M-7737	70
M-6317	79	M-7342	125	M-7618	68	M-7738	70
M-6318	79	M-7343	125	M-7619	68	M-7739	70
M-6319	79	M-7344	125	M-7620	69	M-7884	71
M-6320	79	M-7345	125 & 127	M-7621	69	M-7885	71
M-6321	79	M-7346	125 & 127	M-7622	69	M-7886	71
M-6322	79	M-7347	125 & 127	M-7623	69	M-7887	71
M-6323	79	M-7348	125	M-7624	69	M-7888	71
M-6324	79	M-7349	125	M-7625	69	M-7889	71
M-6325	79	M-7350	125	M-7626	69	M-7890	71
M-6326	79	M-7352	125	M-7627	69	M-7891	71
M-6327	79	M-7352-P.S.	125	M-7628	69	M-7892	71
M-6328	79	M-7354	125	M-7629	69	M-7893	71
M-6329	79	M-7354-P.S.	125	M-7630	69	M-7894	71
M-6330	78	M-7355	125	M-7631	69	M-7895	71
M-6332	78	M-7355-P.S.	125	M-7632	69	M-7896	71
M-6333	78	M-7365	57	M-7633	69	M-7897	71
M-6335	78	M-7379	30	M-7634	69	M-7898	71
M-6336	78	M-7381	46	M-7635	69	M-7899	71
M-6337	78	M-7500	67	M-7636	69	M-7900	71
M-6338	78	M-7501	67	M-7637	69	M-7901	71
M-6339	78	M-7502	67	M-7638	69	M-7902	71
M-6341	78	M-7503	67	M-7639	69	M-7903	71
M-6342	78	M-7504	67	M-7640	69	M-7904	71
M-6343	78	M-7505	67	M-7641	69	M-7905	71
M-6344	78	M-7506	67	M-7642	69	M-7906	71
M-6366	57	M-7507	67	M-7643	69	M-7907	71
M-6384-"X"	142	M-7508	67	M-7644	69	M-7908	71
M-6385-"X"	142	M-7509	67	M-7645	69	M-7909	71
M-6386-"X"	142	M-7510	67	M-7646	69	M-7910	71
M-6387	142	M-7511	67	M-7647	69	M-7911	71
M-6389	142	M-7512	67	M-7648	69	M-7912	71

INDEX

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
M-7913	71	M-8313	130	M-8616-G	141	M-8969	185
M-7914	71	M-8316	130	M-8617	141	M-8970	185
M-7915	71	M-8359	48	M-8617-G	141	M-8974	185
M-7916	71	M-8379	43	M-8618	141	M-8975	185
M-7917	71	M-8381	43	M-8618-G	141	M-8976	185
M-7918	71	M-8391	131	M-8619	141	M-8977	185
M-7919	71	M-8391-S	131	M-8619-G	141	M-8979	185
M-7920	71	M-8393	131	M-8620	141	M-8980	185
M-7921	71	M-8393-S	131	M-8620-G	141	M-8981	185
M-7922	71	M-8395	131	M-8621	141	M-8982	185
M-7923	71	M-8395-S	131	M-8621-G	141	M-8984	185
M-8011	38	M-8396	60	M-8622	141	M-8985	185
M-8027	38	M-8397	131	M-8622-G	141	M-8986	185
M-8165	46	M-8398	131	M-8623	141	M-8987	185
M-8165-H	46	M-8399	131	M-8623-G	141	M-8988	185
M-8177	109	M-8410	43	M-8624	141	M-8989	185
M-8214	38	M-8413	43	M-8624-G	141	M-8990	185
M-8224-S	130	M-8423	43	M-8677	177	M-8991	185
M-8225-S	130	M-8428	38	M-8692	206	M-8992	185
M-8228-S	130	M-8451	38	M-8718	46 & 80	M-8993	185
M-8229	130	M-8461	38	M-8718-H	46	M-8994	185
M-8229-S	130	M-8472	109	M-8718-V(P.S.)	163	M-8995	185
M-8232	130	M-8502	153	M-8726	38	M-8996	185
M-8232-S	130	M-8512	46	M-8743	153	M-8997	185
M-8235	130	M-8512-H	46	M-8762	180	M-8998	185
M-8235-S	130	M-8550	60	M-8782	205	M-8999	185
M-8239	130	M-8551	60	M-8787	205	M-9000	86
M-8242	130	M-8583	154	M-8789	205	M-9000-H	86
M-8244	130	M-8591	46	M-8790	205	M-9001	86
M-8245	131	M-8600	136	M-8793	205	M-9001-H	86
M-8246	131	M-8600-65	135	M-8802	38	M-9002	90
M-8247	131	M-8600-75	135	M-8813	205	M-9002-H	90
M-8248	131	M-8600-9	135	M-8833	45 & 80	M-9004	86
M-8249	131	M-8600-G	135 & 136	M-8848	154	M-9004-H	86
M-8250	131	M-8600-P	135	M-8863	153	M-9010	86
M-8251	131	M-8601	136	M-8882	29	M-9010-H	86
M-8252	131	M-8601-65	135	M-8929	72	M-9011	85
M-8253	131	M-8601-75	135	M-8930	72	M-9011-H	85
M-8256	131	M-8601-G	135 & 136	M-8931	72	M-9018	83
M-8260	131	M-8601-P	135	M-8932	72	M-9018-H	83
M-8261	130	M-8602	136	M-8933	72	M-9020	84
M-8264	130	M-8602-7	135	M-8934	72	M-9020-H	84
M-8265	130	M-8602-9	135	M-8935	72	M-9021	45
M-8266	130	M-8602-G	135 & 136	M-8936	72	M-9021	80
M-8267	130	M-8602-P	135	M-8937	72	M-9022	84
M-8268	130	M-8605	136	M-8938	72	M-9022-H	84
M-8269	130	M-8605-G	136	M-8939	72	M-9023	84
M-8274	130	M-8607	136	M-8940	72	M-9023-H	84
M-8275	130	M-8607-G	136	M-8941	72	M-9024	84
M-8276	130	M-8608	136	M-8943	72	M-9024-H	84
M-8280	130	M-8608-G	136	M-8944	72	M-9025	84
M-8281	130	M-8609	136 & 139	M-8945	72	M-9025-H	84
M-8283	130	M-8609-9	135	M-8947	72	M-9026	84
M-8284	130	M-8609-G	136 & 139	M-8948	72	M-9026-H	84
M-8285	130	M-8610	136	M-8949	72	M-9027	85
M-8286	130	M-8610-G	136	M-8950	72	M-9027-H	85
M-8287	130	M-8611	136	M-8951	72	M-9028	85
M-8288	130	M-8611-G	136	M-8952	72	M-9028-H	85
M-8291	130	M-8612	140	M-8953	72	M-9029	46
M-8292	130	M-8612-13	140	M-8954	72	M-9029-H	46
M-8293	130	M-8612-9	140	M-8955	72	M-9030	85
M-8294	38	M-8612-G	140	M-8956	72	M-9030-H	85
M-8295	130	M-8613	140	M-8957	72	M-9031	85
M-8297	130	M-8613-13	140	M-8958	72	M-9031-H	85
M-8299	130	M-8613-9	140	M-8959	72	M-9032	85
M-8300	130	M-8613-G	140	M-8960	72	M-9032-H	85
M-8301	130	M-8614	140	M-8961	72	M-9033	85
M-8304	130	M-8614-13	140	M-8962	72	M-9033-H	85
M-8306	130	M-8614-G	140	M-8963	72	M-9034	85
M-8307	130	M-8615	141	M-8964	72	M-9034-H	85
M-8310	130	M-8615-G	141	M-8965	72	M-9035	85
M-8311	130	M-8616	141	M-8968	185	M-9035-H	85

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
M-9036	85	M-9087-H	86	M-9136-H	88	M-9196	83
M-9036-H	85	M-9088	86	M-9138	88 & 97	M-9196-H	83
M-9038	85	M-9088-H	86	M-9138-H	88 & 97	M-9197	84
M-9038-H	85	M-9090	86	M-9140	94	M-9197-H	84
M-9039	85	M-9090-H	86	M-9140-H	94	M-9198	84
M-9039-H	85	M-9091	87	M-9141	94	M-9198-H	84
M-9040	85	M-9091-H	87	M-9141-H	94	M-9201	84
M-9040-H	85	M-9092	87	M-9142	92	M-9201-H	84
M-9042	85	M-9092-H	87	M-9143	92	M-9202	84
M-9042-H	85	M-9093	87	M-9144	93	M-9202-H	84
M-9043	89	M-9093-H	87	M-9144-H	93	M-9203	85
M-9047	85	M-9094	87	M-9147	85	M-9203-H	85
M-9047-H	85	M-9094-H	87	M-9147-H	85	M-9204	85
M-9048	89	M-9095	90	M-9148	85	M-9204-H	85
M-9049	92	M-9095-H	90	M-9148-H	85	M-9207	86
M-9050	83	M-9096	90	M-9149	85	M-9207-H	86
M-9050-H	83	M-9096-H	90	M-9149-H	85	M-9208	86
M-9051	83	M-9097	90	M-9150	86	M-9208-H	86
M-9051-H	83	M-9097-H	90	M-9150-H	86	M-9209	86
M-9052	83	M-9098	90	M-9154	86	M-9209-H	86
M-9052-H	83	M-9098-H	90	M-9154-H	86	M-9210	86
M-9053	83	M-9099	90	M-9155	86	M-9210-H	86
M-9053-H	83	M-9099-H	90	M-9155-H	86	M-9211	86
M-9054	83	M-9100	90	M-9156	86	M-9211-H	86
M-9054-H	83	M-9100-H	90	M-9156-H	86	M-9212	86
M-9055	83	M-9101	90	M-9157	86	M-9212-H	86
M-9055-H	83	M-9101-H	90	M-9157-H	86	M-9213	84
M-9060	84	M-9102	91	M-9159	87	M-9213-H	84
M-9060-H	84	M-9102-H	91	M-9159-H	87	M-9216	86
M-9061	84	M-9103	91	M-9163	87	M-9216-H	86
M-9061-H	84	M-9103-H	91	M-9163-H	87	M-9217	86
M-9062	84	M-9104	91	M-9164	90	M-9217-H	86
M-9062-H	84	M-9104-H	91	M-9164-H	90	M-9218	86
M-9063	84	M-9105	91	M-9165	90	M-9218-H	86
M-9063-H	84	M-9105-H	91	M-9165-H	90	M-9219	86
M-9064	84	M-9106	91	M-9166	90	M-9219-H	86
M-9064-H	84	M-9106-H	91	M-9166-H	90	M-9220	86
M-9065	84	M-9107	91	M-9167	90	M-9220-H	86
M-9065-H	84	M-9107-H	91	M-9167-H	90	M-9221	86
M-9066	84	M-9108	91	M-9168	90	M-9221-H	86
M-9066-H	84	M-9108-H	91	M-9168-H	90	M-9222	86
M-9067	85	M-9109	91	M-9169	91	M-9222-H	86
M-9067-H	85	M-9109-H	91	M-9169-H	91	M-9223	86
M-9068	85	M-9110	91	M-9170	91	M-9223-H	86
M-9068-H	85	M-9110-H	91	M-9170-H	91	M-9224	86
M-9069	85	M-9111	91	M-9171	91	M-9224-H	86
M-9069-H	85	M-9111-H	91	M-9171-H	91	M-9226	92
M-9070	85	M-9112	95	M-9172	91	M-9228	99
M-9070-H	85	M-9112-H	95	M-9172-H	91	M-9233	45 & 80
M-9071	85	M-9113	95	M-9173	95	M-9233-S	45 & 80
M-9071-H	85	M-9113-H	95	M-9173-H	95	M-9241	86
M-9073	85	M-9114	95	M-9174	95	M-9241-H	86
M-9073-H	85	M-9114-H	95	M-9174-H	95	M-9243	87
M-9074	85	M-9115	95	M-9175	95	M-9243-H	87
M-9074-H	85	M-9115-H	95	M-9175-H	95	M-9244	87
M-9075	85	M-9116	95	M-9176	98	M-9244-H	87
M-9075-H	85	M-9116-H	95	M-9176-H	98	M-9245	89
M-9076	85	M-9117	95	M-9177	98	M-9247	87
M-9076-H	85	M-9117-H	95	M-9177-H	98	M-9247-H	87
M-9077	85	M-9118	98	M-9178-H	98	M-9248	87
M-9077-H	85	M-9118-H	98	M-9181	99	M-9248-H	87
M-9078	85	M-9119	98	M-9182	99	M-9249	87
M-9078-H	85	M-9119-H	98	M-9185	99	M-9249-H	87
M-9082	86	M-9121	99	M-9186	89	M-9250	87
M-9082-H	86	M-9126	99	M-9191	93	M-9250-H	87
M-9083	86	M-9127	99	M-9191-H	93	M-9251	87
M-9083-H	86	M-9129	99	M-9192	93	M-9251-H	87
M-9084	86	M-9131	99	M-9192-H	93	M-9252	87
M-9084-H	86	M-9133	89	M-9193	93	M-9252-H	87
M-9085	86	M-9134	89	M-9193-H	93	M-9253	48 & 113
M-9085-H	86	M-9135	89	M-9195	83	M-9256	87
M-9087	86	M-9136	88	M-9195-H	83	M-9256-H	87

INDEX

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
M-9257	87	M-9331-H	86	M-9425	83	M-9478-H	88
M-9257-H	87	M-9335	92	M-9427	86	M-9479	88
M-9258	87	M-9336	92	M-9427-H	86	M-9479-H	88
M-9258-H	87	M-9341	93	M-9428	90	M-9480	88
M-9263	99	M-9343	84	M-9428-H	90	M-9480-H	88
M-9266	96	M-9343-H	84	M-9429	83	M-9481	88
M-9268	92	M-9344	87	M-9430	88	M-9481-H	88
M-9270	93	M-9344-H	87	M-9430-H	88	M-9482	88
M-9271	92	M-9345	87	M-9431	88	M-9482-H	88
M-9272	98	M-9345-H	87	M-9431-H	88	M-9483	88
M-9272-H	98	M-9348	87	M-9432	88	M-9483-H	88
M-9274	87	M-9348-H	87	M-9432-H	88	M-9484	88
M-9274-H	87	M-9349	92	M-9433	88	M-9484-H	88
M-9276	92	M-9350	87	M-9433-H	88	M-9485	88
M-9278	92	M-9350-H	87	M-9436	90	M-9485-H	88
M-9279	87	M-9358	87	M-9436-H	90	M-9486	88
M-9279-H	87	M-9358-H	87	M-9437	88	M-9486-H	88
M-9281	87	M-9361	97	M-9437-H	88	M-9487	88
M-9281-H	87	M-9361-H	97	M-9439	92	M-9487-H	88
M-9284	87	M-9362	84	M-9440	92	M-9488	88
M-9284-H	87	M-9362-H	84	M-9442	85	M-9488-H	88
M-9285	205	M-9365	99	M-9442-H	85	M-9489	88
M-9287	91	M-9366	99	M-9443	89	M-9489-H	88
M-9287-H	91	M-9367	99	M-9444	89	M-9490	88
M-9288	205	M-9368	99	M-9445	99	M-9490-H	88
M-9289	85	M-9369	99	M-9446	99	M-9491	88
M-9289-H	85	M-9370	99	M-9447	83	M-9491-H	88
M-9290	84	M-9371	99	M-9448	83	M-9492	88
M-9290-H	84	M-9372	99	M-9449	83	M-9492-H	88
M-9291	91	M-9373	99	M-9450	83	M-9493	88
M-9291-H	91	M-9375	97	M-9451	83	M-9493-H	88
M-9292	87	M-9375-H	97	M-9452	83	M-9494	89
M-9292-H	87	M-9379	88	M-9453	83	M-9495	89
M-9293	87	M-9379-H	88	M-9454	83	M-9496	89
M-9293-H	87	M-9380	91	M-9455	83	M-9497	89
M-9294	90	M-9380-H	91	M-9456	83	M-9498	89
M-9294-H	90	M-9381	90	M-9457	83	M-9499	89
M-9297	91	M-9381-H	90	M-9458	83	M-9500	89
M-9297-H	91	M-9382	84	M-9459	83	M-9501	89
M-9298	95	M-9382-H	84	M-9460	83	M-9502	89
M-9300	87	M-9384	83	M-9461	83	M-9503	89
M-9300-H	87	M-9386	200	M-9462	83	M-9504	89
M-9301	87	M-9387	92	M-9463	83	M-9505	89
M-9301-H	87	M-9389	87	M-9464	88	M-9506	89
M-9302	87	M-9389-H	87	M-9464-H	88	M-9507	89
M-9302-H	87	M-9390	90	M-9465	88	M-9508	89
M-9303	87	M-9390-H	90	M-9465-H	88	M-9509	89
M-9303-H	87	M-9392	83	M-9466	88	M-9510	89
M-9306	87	M-9393	85	M-9466-H	88	M-9511	89
M-9306-H	87	M-9393-H	85	M-9467	88	M-9512	89
M-9307	87	M-9394	89	M-9467-H	88	M-9513	89
M-9307-H	87	M-9395	89	M-9468	88	M-9514	89
M-9308	87	M-9397	97	M-9468-H	88	M-9515	89
M-9308-H	87	M-9397-H	97	M-9469	88	M-9516	89
M-9310	87	M-9398	97	M-9469-H	88	M-9517	89
M-9310-H	87	M-9398-H	97	M-9470	88	M-9518	89
M-9311	204	M-9399	96	M-9470-H	88	M-9519	89
M-9313	87	M-9407	83	M-9471	88	M-9520	89
M-9313-H	87	M-9408	88	M-9471-H	88	M-9521	89
M-9314	87	M-9408-H	88	M-9472	88	M-9522	90
M-9314-H	87	M-9409	86	M-9472-H	88	M-9522-H	90
M-9319	90	M-9409-H	86	M-9473	88	M-9523	90
M-9319-H	90	M-9410	99	M-9473-H	88	M-9523-H	90
M-9320	91	M-9412	97	M-9474	88	M-9524	90
M-9320-H	91	M-9412-H	97	M-9474-H	88	M-9524-H	90
M-9321	84	M-9413	97	M-9475	88	M-9525	90
M-9321-H	84	M-9413-H	97	M-9475-H	88	M-9525-H	90
M-9326	93	M-9417	88	M-9476	88	M-9526	90
M-9328	92	M-9417-H	88	M-9476-H	88	M-9526-H	90
M-9329	90	M-9421	87	M-9477	88	M-9530	90
M-9329-H	90	M-9421-H	87	M-9477-H	88	M-9530-H	90
M-9331	86	M-9423	83	M-9478	88	M-9533	90

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
M-9533-H.....	90	M-9587.....	94	M-9650.....	96	M-10503.....	30
M-9534.....	90	M-9587-H.....	94	M-9651.....	96	M-10504.....	30
M-9534-H.....	90	M-9588.....	94	M-9652.....	96	M-10505.....	30
M-9535.....	90	M-9588-H.....	94	M-9653.....	96	M-10506.....	30
M-9535-H.....	90	M-9589.....	94	M-9654.....	96	M-10507.....	30
M-9536.....	90	M-9589-H.....	94	M-9655.....	96	M-10508.....	30
M-9536-H.....	90	M-9590.....	94	M-9656.....	93	M-10509.....	30
M-9537.....	90	M-9590-H.....	94	M-9656-H.....	93	M-10510.....	30
M-9537-H.....	90	M-9591.....	94	M-9661.....	93	M-10511.....	30
M-9538.....	90	M-9591-H.....	94	M-9668.....	93	M-10512.....	30
M-9538-H.....	90	M-9592.....	94	M-9675.....	93	M-10513.....	30
M-9539.....	90	M-9592-H.....	94	M-9676.....	93	M-10514.....	30
M-9539-H.....	90	M-9594.....	98	M-9677.....	93	M-10515.....	30
M-9540.....	90	M-9594-H.....	98	M-9678.....	95	M-10516.....	30
M-9540-H.....	90	M-9595-H.....	98	M-9679.....	95	M-10517.....	30
M-9543.....	91	M-9596-H.....	98	M-9680.....	95	M-10518.....	30
M-9543-H.....	91	M-9597.....	96	M-9681.....	95	M-10519.....	30
M-9544.....	91	M-9598.....	96	M-9682.....	95	M-10520.....	30
M-9544-H.....	91	M-9599.....	96	M-9683.....	95	M-10521.....	46
M-9545.....	91	M-9600.....	96	M-9684.....	95	M-10523.....	46
M-9545-H.....	91	M-9601.....	97	M-9685.....	95	M-10524.....	46
M-9546.....	91	M-9601-H.....	97	M-9686.....	95	M-10528.....	46
M-9546-H.....	91	M-9602.....	97	M-9687.....	95	M-10528-S.....	46
M-9550.....	91	M-9602-H.....	97	M-9688.....	95	M-10529.....	46
M-9550-H.....	91	M-9603.....	97	M-9689.....	95	M-10529-S.....	46
M-9552.....	91	M-9603-H.....	97	M-9691.....	95	M-10530.....	46
M-9552-H.....	91	M-9604.....	97	M-9692.....	95	M-10530-S.....	46
M-9554.....	91	M-9604-H.....	97	M-9693.....	95	M-10531.....	46
M-9554-H.....	91	M-9605.....	97	M-9694.....	95	M-10532.....	46
M-9555.....	91	M-9605-H.....	97	M-9695.....	95	M-10533.....	46
M-9555-H.....	91	M-9607.....	99	M-9696.....	95	M-10534.....	46
M-9556.....	91	M-9609.....	99	M-9697.....	95	M-10535.....	46
M-9556-H.....	91	M-9613.....	99	M-9698.....	93	M-10536.....	46
M-9557.....	91	M-9617.....	99	M-9698-H.....	93	M-10537.....	46
M-9557-H.....	91	M-9620.....	99	M-9699.....	91	M-10538.....	46
M-9558.....	91	M-9625.....	99	M-9699-H.....	91	M-10539.....	46
M-9558-H.....	91	M-9629.....	94	M-9700.....	83	M-10540.....	46
M-9559.....	91	M-9629-H.....	94	M-9701.....	99	M-10541.....	46
M-9559-H.....	91	M-9630.....	94	M-9702.....	89	M-10542.....	46
M-9560.....	91	M-9630-H.....	94	M-9747.....	204	M-10543.....	61
M-9560-H.....	91	M-9631.....	94	M-9767.....	200	M-10544.....	61
M-9561.....	91	M-9631-H.....	94	M-9781.....	204	M-10545.....	61
M-9561-H.....	91	M-9632.....	94	M-9790.....	153	M-10546.....	61
M-9563.....	92	M-9632-H.....	94	M-9796.....	200	M-10547.....	61
M-9564.....	92	M-9633.....	94	M-9797.....	200	M-10548.....	61
M-9565.....	92	M-9633-H.....	94	M-9798.....	200	M-10549.....	61
M-9566.....	92	M-9634.....	94	M-9800.....	200	M-10550.....	61
M-9567.....	92	M-9634-H.....	94	M-9801.....	200	M-10551.....	61
M-9568.....	92	M-9635.....	94	M-9802.....	200	M-10552.....	61
M-9569.....	92	M-9635-H.....	94	M-9803.....	200	M-10553.....	61
M-9570.....	92	M-9636.....	94	M-9804.....	200	M-10554.....	61
M-9571.....	92	M-9636-H.....	94	M-9805.....	200	M-10555.....	61
M-9572.....	92	M-9637.....	94	M-9807.....	200	M-10556.....	61
M-9573.....	92	M-9637-H.....	94	M-9811.....	200	M-10557.....	61
M-9574.....	92	M-9638.....	98	M-9823.....	188	M-10558.....	61
M-9575.....	92	M-9639.....	98	M-9878.....	192	M-10559.....	61
M-9576.....	92	M-9640.....	98	M-9892.....	205	M-10570.....	109
M-9577.....	92	M-9641.....	98	M-9937.....	61	M-10571.....	109
M-9578.....	92	M-9642.....	98	M-9976.....	200	M-10572.....	109
M-9579.....	92	M-9643.....	98	M-9993.....	180	M-10573.....	109
M-9580.....	92	M-9644.....	97	M-9998.....	205	M-10574.....	109
M-9581.....	92	M-9644-H.....	97	M-10024.....	190	M-10575.....	109
M-9582.....	93	M-9645.....	97	M-10038.....	177	M-10576.....	109
M-9582-H.....	93	M-9645-H.....	97	M-10040.....	177	M-10577.....	109
M-9583.....	93	M-9646.....	97	M-10237.....	177	M-10578.....	109
M-9583-H.....	93	M-9646-H.....	97	M-10238.....	177	M-10579.....	109
M-9584.....	93	M-9647.....	97	M-10239.....	177	M-10580.....	109
M-9584-H.....	93	M-9647-H.....	97	M-10264.....	186	M-10581.....	109
M-9585.....	93	M-9648.....	97	M-10365.....	46	M-10582.....	109
M-9585-H.....	93	M-9648-H.....	97	M-10500.....	30	M-10583.....	109
M-9586.....	94	M-9649.....	97	M-10501.....	30	M-10584.....	109
M-9586-H.....	94	M-9649-H.....	97	M-10502.....	30	M-10585.....	109

INDEX

Catalog #	Page #	Catalog #	Page #	Catalog #	Page #	Catalog #	Page #
M-10586.....	109	M-10658.....	110	M-10738.....	193	M-10822.....	204
M-10587.....	109	M-10659.....	110	M-10739.....	193	M-10823.....	205
M-10588.....	109	M-10660.....	110	M-10740.....	193	M-10824.....	205
M-10589.....	109	M-10661.....	112	M-10741.....	193	M-10825.....	205
M-10590.....	109	M-10662.....	112	M-10742.....	202	M-10826.....	205
M-10591.....	109	M-10663.....	112	M-10743.....	202	M-10827.....	205
M-10592.....	109	M-10664.....	112	M-10744.....	202	M-10828.....	205
M-10593.....	109	M-10665.....	112	M-10745.....	202	M-10829.....	205
M-10594.....	109	M-10666.....	112	M-10746.....	205	M-10830.....	205
M-10595.....	109	M-10667.....	112	M-10747.....	205	M-10831.....	200
M-10596.....	109	M-10668.....	112	M-10748.....	205	M-10832.....	200
M-10597.....	109	M-10669.....	112	M-10749.....	205	M-10833.....	200
M-10598.....	109	M-10670.....	112	M-10750.....	205	M-10834.....	200
M-10599.....	109	M-10671.....	112	M-10751.....	205	M-10835.....	200
M-10600.....	109	M-10672.....	112	M-10752.....	205	M-10836.....	200
M-10601.....	109	M-10673.....	113	M-10753.....	205	M-10837.....	200
M-10602.....	109	M-10674.....	117	M-10766.....	206	M-10838.....	200
M-10603.....	109	M-10675.....	117	M-10767.....	206	M-10839.....	200
M-10604.....	109	M-10676.....	117	M-10768.....	206	M-10840.....	200
M-10605.....	109	M-10677.....	117	M-10769.....	206	M-10841.....	200
M-10606.....	109	M-10678.....	117	M-10770.....	206	M-10842.....	200
M-10607.....	109	M-10679.....	117	M-10771.....	206	M-10843.....	200
M-10608.....	109	M-10680.....	117	M-10772.....	206	M-10844.....	200
M-10609.....	109	M-10681.....	117	M-10773.....	206	M-10845.....	200
M-10610.....	109	M-10682.....	117	M-10774.....	206	M-10846.....	200
M-10611.....	109	M-10683.....	117	M-10775.....	206	M-10847.....	200
M-10612.....	109	M-10684.....	117	M-10776.....	206	M-10848.....	200
M-10613.....	110	M-10685.....	117	M-10777.....	206	M-10849.....	200
M-10614.....	110	M-10686.....	117	M-10778.....	203	M-10850.....	200
M-10615.....	110	M-10687.....	117	M-10779.....	203	M-10851.....	200
M-10616.....	110	M-10688.....	117	M-10780.....	178	M-10852.....	200
M-10617.....	110	M-10689.....	117	M-10781.....	178	M-10853.....	200
M-10618.....	110	M-10690.....	117	M-10782.....	179	M-10854.....	200
M-10619.....	110	M-10691.....	117	M-10783.....	180	M-10855.....	200
M-10620.....	110	M-10692.....	117	M-10784.....	181	M-10856.....	179
M-10621.....	110	M-10693.....	117	M-10785.....	181		
M-10622.....	110	M-10694.....	117	M-10786.....	182		
M-10623.....	110	M-10695.....	117	M-10787.....	182		
M-10624.....	110	M-10696.....	117	M-10788.....	183		
M-10625.....	110	M-10697.....	117	M-10789.....	183		
M-10626.....	110	M-10698.....	177	M-10790.....	184		
M-10627.....	110	M-10699.....	177	M-10791.....	184		
M-10628.....	110	M-10700.....	177	M-10792.....	186		
M-10629.....	110	M-10701.....	177	M-10793.....	187		
M-10630.....	110	M-10702.....	177	M-10794.....	187		
M-10631.....	110	M-10703.....	177	M-10795.....	188		
M-10632.....	110	M-10704.....	177	M-10796.....	188		
M-10633.....	110	M-10705.....	177	M-10797.....	188		
M-10634.....	110	M-10706.....	177	M-10798.....	188		
M-10635.....	110	M-10707.....	177	M-10799.....	188		
M-10636.....	110	M-10708.....	177	M-10800.....	188		
M-10637.....	110	M-10709.....	177	M-10801.....	188		
M-10638.....	110	M-10710.....	177	M-10802.....	189		
M-10639.....	110	M-10711.....	177	M-10803.....	189		
M-10640.....	110	M-10712.....	177	M-10804.....	189		
M-10641.....	110	M-10721.....	192	M-10805.....	190		
M-10642.....	110	M-10722.....	192	M-10806.....	191		
M-10643.....	110	M-10723.....	192	M-10807.....	191		
M-10644.....	110	M-10724.....	192	M-10808.....	191		
M-10645.....	110	M-10725.....	192	M-10809.....	191		
M-10646.....	110	M-10726.....	192	M-10810.....	191		
M-10647.....	110	M-10727.....	192	M-10811.....	191		
M-10648.....	110	M-10728.....	192	M-10812.....	193		
M-10649.....	110	M-10729.....	192	M-10813.....	193		
M-10650.....	110	M-10730.....	192	M-10814.....	196		
M-10651.....	110	M-10731.....	192	M-10815.....	196		
M-10652.....	110	M-10732.....	192	M-10816.....	197		
M-10653.....	110	M-10733.....	192	M-10817.....	197		
M-10654.....	110	M-10734.....	192	M-10818.....	204		
M-10655.....	110	M-10735.....	193	M-10819.....	204		
M-10656.....	110	M-10736.....	193	M-10820.....	204		
M-10657.....	110	M-10737.....	193	M-10821.....	204		

Index

A

AC Mitigation Mats 158
 Adapter Sleeves 129, 171
 Aircraft Grounding Receptacle 78–79
 Air Terminals & Attachments 228–229
 Anti Vandal Guard 236
 AWG Conductors 21–72

B

Bi Metallic Connectors 242
 Bond Strand 138
 Bootleg Bonds 137
 Brushes
 Cable Cleaning 170
 Card Cloth 170
 Mold Cleaning 170

C

Cable Clamp 170
 Cable Guards 138
 Cathodic Protection 118, 119
 Application Notes 120
 Jumper Bonds 127
 Strap Bonds 128
 Chain Clamps 173
 Chemical Ground Rods 148–149
 Clamps 242–246
 Computer Room Ground 157
 Fence 161
 Fence Fabric Ground 162
 Ground Pedestal 156–157
 Pipe 159
 Universal Pipe 160
 Conductor Attachments 237–240
 Conductors 233–235
 Bare Aluminum Tape 235
 Bare Copper Tape 233
 Flexible Copper Braids 234
 Hard Drawn Copper Bar 233
 PVC Covered Aluminum Tape 235
 PVC Covered Tape 234
 Tinned Copper Tape 234
 Contact-GM 10, 150, 215, 228
 Contact-GF 150, 215
 Contact-GS 150
 Copper-Clad Steel Conductors 81–99
 Copper Ground Plates 147
 Copper Lugs
 45° lugs 52, 195
 CB-33 Style 53
 Offset 51, 194
 Straight 51, 194
 CP Kit 121, 190
 Crimp Connections 225

D

Disconnection Links 227

E

Earth Bars 227
 Earth Bonding Points 223
 Earth Bonds 221–222
 Earth Clamps 226

Earth Lattice 216
 Earth Plate 216
 EZ-Lite® 8, 12, 100, 274

F

Fence Gate Assemblies 164–166
 Flat Head Rivets 247
 Flat Washers 248
 Flexible Braid Bond 226
 Flexible Gate Jumpers 163
 Flint Ignitor 169
 Flint Ignitor Extension 169

G

Ground Access Wells 151
 Ground Bars 144–145
 Mouting Brackets 146
 Standoff Insulators 146
 Grounding Products 143–166
 Ground Plates 75–77
 Ground Rod Clamps 217–220
 Ground Rod Driving Sleeves 170
 Ground Rods
 Accessories 212–213
 Copper Bonded 210
 Solid Copper 211
 Stainless Steel 212
 Ground Rod Seals 224

H

Hammer Dies 129, 138
 Handle Clamps 172
 B-106 172
 B-107 172
 Magnetic Clamp 173
 Mini 174
 Chain Clamps 174
 Hexagon Nuts 247
 Hex Head Set Screws 247
 How to Order thermOweld® Molds 17

I

Inspection Pits & Accessories 214–215
 Concrete Inspection Pit 214
 Earth Housing 215

J

Jumper Bonds 137

L

Lightning Protection Conductors 101–117
 Low Emission System 11
 Low Impedence Riser (L.I.R.) 155

M

Metalwork Bonding Clamp 244
 Mold Cleaners 170
 Molds 10
 Mold Support Clamp 172

P

Packing Material 169
 Petrolatum Tape 246
 Pipe Bond 243
 Pipe Clamps 219
 PK-14 Handle Attachment 172
 Pole Plates 155
 Power Bonds 140
 “C” Bonds 140
 “W” Bonds 141
 Prefabricated Lug Bonds 54–55
 Prefabricated Wire Mesh 158
 Puddle Flange 236

R

Rail Connections 133–142
 Rasp 169

S

Saddles & Attachments 230–232
 Same Day Service 80, 118, 207
 Selector Chart 18–20
 Shim Stock 129
 Signal Joint Bonds 134–136
 Signal Reference Grid (SRG) 152, 156
 Single Shot Molds 10, 72, 80, 128, 185, 207, 214
 CR-1 39, 185
 CR-2 39, 185
 CR-24 39
 CR-25 39, 185
 CRE-16 72
 CRE-21 72
 CRE-25 72
 Split Bolt Connectors 225
 Static Earth Receptacle 224
 Strike Pad 232
 Switch Bonds 137, 148, 156

T

Technical Info 6–20
 AWG Conductor Chart 14
 Concrete Reinforcing Bar Chart 15
 Copper Bus Bar Chart 15
 GROUNDING 9
 Ground Rod Chart 14
 Infrastructure Applications 6–7
 Metric to Imperial Cable Conversion Chart 16
 Steel Pipe Chart 15
 Test Clamps 241
 thermOcap 11, 118, 126, 207
 thermOcap PC 126
 thermOprime 118, 126
 thermOweld® Process 8
 Tool Kit 169
 Track Connector 139

W

Wear Plates 171
 Weld Metal 10, 80, 118, 168, 207
 Weld Types
 Aircraft Receptacle to Cable
 AC-1 19, 78, 117
 AC-2 19, 78, 117
 Aircraft Receptacle to Cable and Rod
 ACR-1 19, 79

ACR-2 19, 79
Aircraft Receptacle to Rod
AR-1 19, 79
Bus Bar to Bus Bar
BB-1 20, 63, 198
BB-2 20, 64, 200
BB-3 20, 64, 199
BB-4 20
BB-5 20
BB-6 20
BB-7 20, 198
BB-12 20
BB-14 20, 199
BB-17 20
BB-20 20
BB-21 20
BB-22 20
BB-27 20
BB-29 20
BB-41 20, 200
BB-46 153
Bus Bar to Ground Rod
BR-1 20, 203
BR-2 20, 204
BR-3 203
BR-4 20
BR-5 20
BR-6 20
BR-7 20, 204
BR-8 20
BR-12 20
Bus Bar to Reinforcing Bar
BRE-8 206
Bus Bar to Steel
BS-1 20, 65, 201
BS-2 20, 65, 201
BS-3 20, 66, 202
BS-4 20, 66
BS-5 20, 66
BS-6 20
BS-7 20
BS-8 20
BS-13 20
BS-14 20
BS-15 20
BS-16 20
BS-17 20
BS-18 20
BS-19 20
BS-20 20
Cable to Bus Bar or Lug
CB-1 19, 50, 99, 116, 131, 154, 163, 193
CB-2 19, 57
CB-3 19, 59
CB-4 19, 56, 196
CB-5 19, 62, 197
CB-6 19, 58
CB-7 19, 60
CB-8 19
CB-9 19
CB-11 19
CB-12 19
CB-15 19
CB-16 19
CB-17 19
CB-18 19
CB-19 19
CB-20 19
CB-21 19
CB-22 19
CB-23 19
CB-24 19

CB-25 19
CB-26 19
CB-27 19
CB-28 19
CB-29 19, 61
CB-30 19
CB-31 19
CB-32 19
CB-33 19, 53, 99, 193
CB-34 19, 154
CB-38 19
Cable to Cable
CC-1 18, 23, 83, 103, 130, 177
CC-2 18, 24–25, 84–86, 104, 131, 178
CC-3 18
CC-4 18, 26–27, 87, 105, 179
CC-5 18
CC-6 18, 28, 83, 130, 180
CC-7 18, 29, 88, 181
CC-11 18, 31, 89, 180
CC-13 18
CC-14 18, 23, 177
CC-21 18
CC-23 18
CC-24 18
CC-25 18
CC-26 18
CC-27 18
CC-28 18
CC-29 18
CC-30 18
CC-31 18
CC-33 18
CC-34 18, 30
CC-35 18
CC-36 18
Cable to Ground Rod or Rod
CR-1 18, 32, 90, 106, 132, 182
CR-2 18, 34–35, 91, 107, 132, 183
CR-3 18, 36, 92, 108, 184
CR-4 18
CR-5 18
CR-6 18
CR-7 18
CR-8 18
CR-9 18
CR-12 18
CR-13 18
CR-14 18
CR-15 18
CR-16 18
CR-17 18, 37
CR-18 18, 40, 109
CR-19 18
CR-20 18
CR-21 18
CR-22 18
CR-23 18
CR-24 18, 38
CR-25 18
CR-26 18
CR-27 18, 77
CR-29 18
CR-30 18, 77
CR-31 18, 77
CR-32 18, 77
CR-35 18
CR-36 18, 110
CR-38 18
Cable to Rail
CX-8 142
CX-10 142

Cable to Reinforcing Bar
CRE-1 20, 67, 205
CRE-2 20, 68
CRE-3 20, 69, 205
CRE-4 20, 70
CRE-5 20
CRE-6 20, 71, 206
CRE-7 20
CRE-8 20
CRE-9 20
CRE-11 20
CRE-12 20
CRE-13 20
CRE-14 20
CRE-15 20
CRE-16 20
CRE-17 20
CRE-18 20
CRE-19 20
CRE-20 20
CRE-21 20
Cable to Steel or Cast Iron
CS-1 19, 42, 93, 111, 186
CS-2 19, 43, 94, 112, 187
CS-3 19, 44–45, 95, 113, 153, 154, 188
CS-4 19, 47, 98, 115
CS-5 19, 47
CS-6 19, 48, 96, 114, 153
CS-7 49, 97, 115, 189
CS-8 19, 42, 93, 111, 186
CS-9 19, 43, 94, 112, 187
CS-11 19
CS-12 19
CS-13 19
CS-14 19
CS-15 19
CS-18 19, 48, 98, 113
CS-22 19
CS-23 19, 46, 97, 163, 188
CS-25 19
CS-27 19, 96, 114, 153, 189
CS-28 19
CS-31 19
CS-32 19, 121, 190
CS-33 19, 123, 190
CS-34 19, 122, 191
CS-35 19, 123, 191
CS-36 19, 124, 192
CS-37 19, 124, 192
CS-43 19
CS-45 19
CS-46 19
CS-48 19, 125
CS-49 19, 125
Ground Rod to Ground Rod
RR-1 18, 41, 184
RR-2 18
Stud to Cable to Steel
CRS-1 18, 76
CRS-2 18, 76
CS-7 19
Threaded Stud or Rod to Steel
RS-1 18, 41, 202
RS-2 18, 41, 202
RS-3 18, 76
Wire-to-Ground Kits 40

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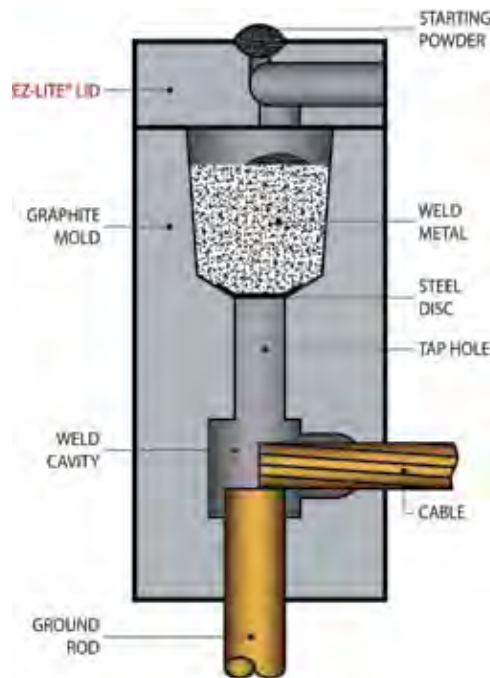
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