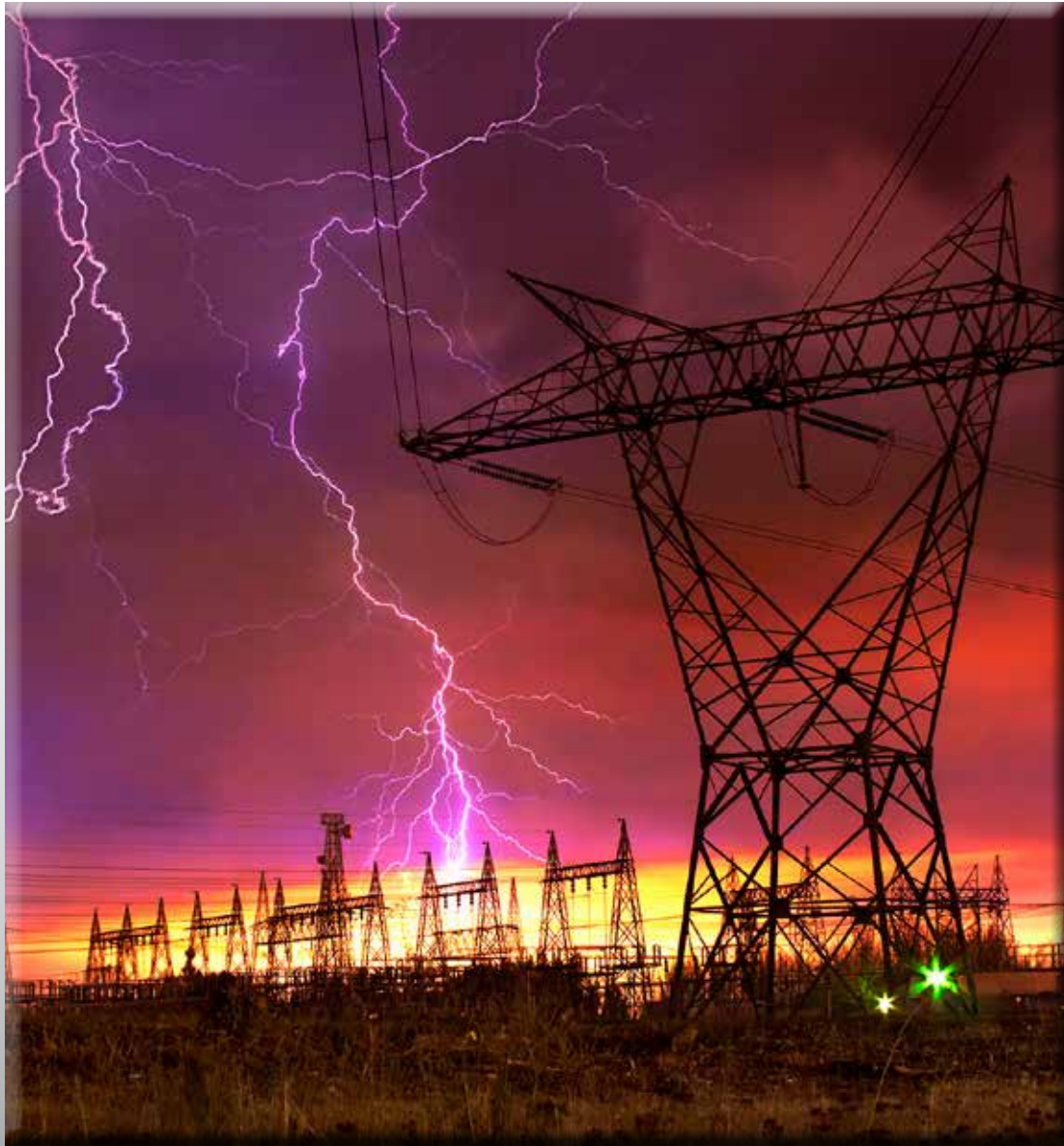


# thermOweld®

## Lightning Protection Catalog



# Terms and Conditions

**1. Agreement** - the following terms and conditions of sale shall constitute the complete and final agreement between buyer and Burndy® LLC, hereinafter referred to as "seller", relating to the sale of seller's products or services and shall apply to all quotations, acknowledgements and purchase orders. None of these terms and conditions may be added to, modified, superseded or otherwise altered unless approved by seller in writing. Seller shall not be deemed to have waived these terms and conditions of sale if it fails to object to provisions appearing in, incorporated by reference in, or attached to buyer's purchase order. Buyer's silence or payment for, or acceptance of, or use of products or services related to any purchase order shall constitute an acceptance of these terms and conditions of sale.

**2. Payment** - Terms of payment are Net 30 Days from date of invoice, unless otherwise stated on the face of said invoice. Lawful interest may be charged on all overdue accounts.

**3. Taxes** - Any state, local, or federal taxes, excises or other charges now or hereafter imposed for which Seller may be liable as a result of sale, production, or transportation of the products sold hereunder, shall be charged to and paid by Buyer.

**4. Prices** - Unless otherwise stated in writing on a binding document, the prices herein shall not be increased or decreased except where SELLER raises or lowers its prices in its standard price list or under its standard pricing method for the same products and quantities, supplied under this Agreement. In such events Seller shall have the right but not the obligation, upon giving written notice to Buyer, to increase or decrease the prices payable under this Agreement on all material unshipped as of the date specified in such notice, by the same amount as the price list or standard pricing method increase or decrease.

**5. Minimum Order Value** - The minimum order value for each order is \$100. Orders for less than the minimum order value will be invoiced at the minimum order value.

**6. Delivery** - Title and Risk of Loss - Unless otherwise agreed, delivery of the goods shall be FOB Seller facility. Title and risk of loss shall vest in Buyer upon delivery of the goods to a common carrier.

**7. Ship Date** - The ship date stated on the acknowledgment is Seller's best approximation of the anticipated ship date, and shall not be deemed to represent a fixed or guaranteed ship date. Unless otherwise agreed to by Seller, Seller reserves the right to ship at its convenience and shall not be liable for any changes in the date of shipment.

**8. Testing; Designs** - Unless otherwise agreed, the stated prices do not include any qualification testing, test data or the granting of any rights to Buyer for designs, drawings or inventions. All goods are governed by Seller part number and any Buyer numbers are used for reference purposes only. Goods may be ordered by federally controlled specification and/or part numbers where Seller parts are qualified or approved.

**9. Tooling** - Any Non-Recurring Engineering (NRE) charges invoiced by Seller shall not be deemed to grant Buyer any right, title or interest in any tools, dies, jigs, fixtures and items of like nature, or in any design, engineering, trade secret, patent or other proprietary rights embodied in the tooling, upon Buyer's payment of such charges and such items shall at all times be, and remain, the sole property of Seller.

**10. Standard Packaging** - Allocation - Purchase orders and releases must be based on standard packaging. In the event of inability for any reason to supply the total demand for the materials specified, Seller may allocate its available supply among any or all purchasers, as well as departments and divisions of Seller, on such basis as it may deem fair and reasonable without liability for any failure of performance that may result therefrom.

**11. Quantities** - On orders for non-stock items or special orders, where manufacturing processes make it difficult to provide the exact quantity specified, Seller reserves the right to undership or overship and invoice Buyer for total value of item up to -5% or +10% of quantity ordered. The above schedule shall be deemed acceptable unless Buyer states otherwise in writing at the inception of the order, so that extraordinary means may be taken to ensure shipment of exact quantity or acceptable deviation. Prices may then be subject to review and possible increase to compensate for additional costs, at Seller's option.

**12. Warranty** - Seller warrants that the goods and services, when furnished to Buyer by Seller conform to Seller's current written specifications and drawings, (or if applicable, with those of the Buyer, specifically accepted by Seller in writing) and will be free of defects in material and workmanship. Seller's sole obligation (and buyer's sole and exclusive remedy) for any breach under the foregoing warranty, or otherwise, shall be to repair (at location designated by seller) or, at seller's option, to replace fob the original point of delivery any goods which are non-conforming or defective and are so specified by buyer in written notice to seller within thirty (30) days after date of shipment. Seller makes no warranties of merchantability or fitness for a particular purpose, or any other express or implied warranty. The foregoing warranty shall not apply to goods that have been altered or repaired by anyone except seller's authorized employees, and shall not be enforceable until the goods and services have been paid for in full.

**13. Patent Infringement** - Seller shall, with respect to the regular sale and use of any product designed by Seller, indemnify Buyer from all damages and costs resulting from any claim that such goods constitute an infringement of any United States Patent, provided that Seller is promptly notified in writing of such claim, given the right to control the defense of any such claim, and such claim does not arise as a result of any application, use, or modification of such products by Buyer or others. Buyer agrees to fully defend, indemnify, and hold Seller harmless from any and all costs, expenses, damages, judgments or losses of any kind, including reasonable attorney's fees, arising from any claim, suit or demand that any goods manufactured by Seller according to Buyer's design, specifications, or instructions, infringe any United States Patent. This paragraph states the entire liability of either party with respect to any patent infringement.

**14. Limitation of Liability** - No claim of any kind, including patent infringement, whether as to goods or services delivered or for non-delivery of goods or services, shall be greater in amount than the purchase price of the goods or services in respect of which such damages are claimed, except as otherwise stated herein, seller will not, under any circumstances, be liable for the cost of removal or reinstallation of goods or the cost of disassembly or reassembly of equipment in connection therewith, or for loss of the use of buyer's equipment or facilities, or for loss of

business or good will or profits, or for cost of inspection or storage, or for any direct, indirect, incidental or consequential damages of any nature or description whatever which may arise from seller's sale of goods or services to buyer. Credit to the extent of the purchase price for goods found to be defective shall be allowed upon return of said goods, but only if (1) returned to designated locations upon obtaining specific written authorization from Seller and before expiration date, if any, and (2) a replacement order is issued by Buyer prior to return. A service charge may be applied upon any return of goods. Failure to give notice within thirty (30) days of ship date shall constitute a waiver of all claims in respect of such goods. The remedy hereby provided shall be the exclusive and sole remedy of buyer.

## 15. General Terms

a) Any claims for administrative errors must be made within thirty (30) days of receipt of goods, by written notice to Seller.

b) Errors or omissions of a clerical or mechanical nature appearing on the face hereof are subject to correction by Seller.

c) All terms of payment are subject to approval of Seller's Credit Department. Buyer represents to Seller that it is solvent. In the event that Buyer's financial condition shall become impaired prior to full payment to Seller, Buyer shall notify Seller immediately. In the event that Seller, in its sole judgment, finds Buyer's financial condition unsatisfactory to Seller (with or without notice from Buyer), Seller may exercise any or all of the following options: demand immediate payment; suspend all further deliveries; reclaim any goods not paid for; terminate relationship upon written notice to Buyer, without limitation of any other rights or remedies it has herein or under law.

d) All orders and release schedules placed by Buyer and accepted by Seller are considered firm and may not be canceled or changed in any way without prior written approval by Seller. Buyer assumes all risks and agrees to pay all charges applicable to any order cancellation or modification, deferred shipment or product return.

e) Buyer, in the event of its default in any of its obligations hereunder, shall be liable for all of Seller's damages, including its loss of actual or anticipated profits, reasonable attorneys' fees, costs of collections, with interest thereon at the prime rate, in addition to other remedies Seller shall have under law.

f) Seller's failure to insist upon strict performance of any of the terms herein shall not be deemed a waiver of any rights or remedies that Seller may have, and shall not be deemed a waiver of any subsequent breach or default in the terms, conditions, and covenants herein contained.

g) Seller shall not be liable for any failure to carry out its obligations under this agreement where such failure is due to any condition or happening whatsoever beyond its or its suppliers' reasonable control, including but not limited to: fire, windstorm, flood, earthquake, or other Acts of God; strikes, lockouts or other work stoppages; wars, riots, or civil commotion; government priorities, allocations, regulations or restrictions; interference or restraint of public authority (whether legal or not); explosion or accident; epidemic or quarantine restrictions; failure of its suppliers or subcontractors; shortage of raw materials or labor; or any other cause (whether or not of the same kind as those herein specified), which Seller cannot provide against by the exercise of reasonable diligence in its sole judgment. Quantities so affected may, at Seller's sole option, be eliminated without liability, but this agreement shall otherwise remain unaffected.

h) Headings are for convenience only and shall not be used in construing and interpreting this agreement.

i) Neither this agreement nor any rights hereunder may be assigned by Buyer, without the prior written consent of Seller. Seller may assign its rights, liabilities and obligations hereunder to any affiliate or subsidiary without prior written notice.

j) Any technical advice, recommendations and services rendered by the Seller, are based on data believed to be reliable, and are intended for use by skilled persons at their own risk. Seller assumes no responsibility to Buyer for events resulting or damages incurred from their use. They are not to be taken as a license to operate under or intended to suggest infringement of any process.

k) All quotations made by Seller are good for thirty (30) days unless otherwise noted.

**16. Government Sales** - For direct government sales, all terms and conditions, which are required by law for such sales, are incorporated herein by reference. For sales to a government contractor, only such laws, which are applicable and required of subcontractors of government contractors, are incorporated herein. Such terms and conditions for government contracts shall prevail over any of the standard terms and conditions listed above which may be inconsistent.

**17. Compliance With Laws** - Seller agrees to observe and comply with all applicable federal, state and local laws, rules, regulations and orders pertaining to the production and sale of goods or services; and in particular, Seller certifies that it has met all applicable requirements of the Occupational Safety and Health Act regulations; and that the goods or services were produced in accordance with the Fair Labor Standards Act and regulations.

**18. Compliance with United States Import and Export Laws** - Buyer shall ensure that all goods and services, including technical data, delivered by Seller to Buyer, including any subsequent sales, transfers or distribution of the same by Buyer, if imported, shall be in full compliance with applicable United States import laws and regulations. Buyer shall not export or re-export goods and services, including technical data, delivered by Seller to Buyer, except in full compliance with applicable U.S. export laws and regulations.

**19. Applicable Law** - Jurisdiction - Any legal claims shall be controlled under the laws of the State of New York. Seller and Buyer agree to accept and be bound by the exclusive jurisdiction of the federal and state courts of the State of Delaware. Terms and Conditions February 2013

## thermOweld® UL LIGHTNING PROTECTION

Underwriters' Laboratories Inc. states: Each year thousands of properties are damaged or destroyed by lightning. Lightning accounts for more than one billion dollars annually in structural damage to buildings in the United States. What is not reported is the loss of business, downtime and liability that occurs when businesses or commercial tenants are forced to shut down to repair lightning damage. Insurers now require higher levels of safety for commercial buildings, schools, hospitals, institutions, historic landmarks, sports arenas and other public venues, including the installation of lightning protection systems.

Lightning protection systems provide a means by which this discharge may enter or leave the earth without passing through and damaging non-conductive parts of a structure it provides a means for controlling it and providing a low resistance path for discharge of lightning energy."

thermOweld® offers a complete line of Lightning Protection Products. We are willing to help you with the design of your system that meets UL, NFPA and LPI requirements.

## LIGHTNING PROTECTION MINIMUM QUOTATION REQUIREMENTS

When quoting a lightning protection project there are some minimum requirements needed to create the proper proposal. Below is a list of minimum requirement needed.

- **Architectural Roof Plan**
- **Architectural Roof Details**
- **Architectural Exterior Elevations**
- **Lightning Protection Specifications (Section 264100)**

### Additional documentation (if available)

If this additional information is available it would allow us to make sure there is no interference from other roof plans that would delay the completion of the project.

- Grounding Specifications
- Mechanical Roof Plan
- Plumbing Roof Plan
- Electrical Roof Plan
- Electrical Grounding Plan
- Electrical Lightning Protection Plan

## Quick Picks

### UL Listed Conductors

For additional Conductors see page 15-16

Catalog #	Material	Awg	Strand Configuration	No. Of Strands	Strand Diameter	Tin Plated	Lbs Per 1000 Ft	Circular Mills	Cable Codes
36-7562-00	Copper	LP Class I	Smooth Weave	29	.046"	NO	189	61,350	C
36-7573-00	Aluminum	LP Class I	Smooth Weave	24	.065"	NO	98	98,640	N/A
36-7557-00	Copper	LP Class II	Rope Lay	28	.067"	NO	380	125,600	D
<b>Ground Ring/Loop Conductor</b>									
36-7561-00	Copper	2/0	Concentric	19	.0837"	NO	410	133,100	C
36-7561-04	Copper	4/0	Concentric	19	.1057"	NO	653	211,600	Q
<b>Secondary Conductor</b>									
36-7558-01	Copper	#6	Solid	1	.162"	NO	80	26,240	N/A
36-7560-00	Aluminum	#4	Solid	1	.2044"	NO	40	41,740	N/A



**UL Fact:**  
UL Listed Lightning protection conductors shall have the UL label displayed every 10'.

### UL Listed Air Terminal (Copper)

For additional Conductors see page 17

Catalog #	Product Description	Diameter (in)	Length (in)	Material
38-7237-04	2" Tapered Tip Air Terminal	1/2"	18"	Aluminum
38-7237-02	Safety Tipped	1/2"	18"	Aluminum
38-7237-01	2" Tapered Tip Air Terminal	1/2"	24"	Aluminum
38-7237-07	Safety Tipped	1/2"	24"	Aluminum

### UL Listed Air Terminal (Aluminum)

Catalog #	Product Description	Diameter (in)	Length (in)	Material
38-7321-10	2" Tapered Tip Air Terminal	1/2"	18"	Copper
38-7321-15	Safety Tipped	1/2"	18"	Copper
38-7321-00	2" Tapered Tip Air Terminal	1/2"	24"	Copper
38-7347-00	Safety Tipped	1/2"	24"	Copper



## QuickPicks

### UL Listed Air Terminal Bases

*For additional Bases see page 20*

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



### UL Listed Air Terminal Bases

*For additional Bases see page 22*

Catalog #	Product Description	Material
38-7491-11	Cast Universal Swivel Base - For 1/2" Air Terminals	Brass
38-7491-01	Cast Universal Swivel Base - For 1/2" Air Terminals	Aluminum



#### **UL Fact:**

*Exposed cable conductors shall be fastened to the structure at intervals not to exceed 3 ft.*

### UL Listed Air Terminal Bases

*For additional Bases see page 21*

Catalog #	Product Description	Material
38-7243-11	Cast Side Mount Base - For 1/2" Air Terminals	Brass
38-7243-01	Cast Side Mount Base - For 1/2" Air Terminals	Aluminum



TW



*The Study of Lightning is know as Fulminology!*

Notes

## QuickPicks

### UL Listed Air Terminal Bases

Catalog #	Product Description	Material
38-7499-10	Narrow Base with Tension Cap - For 1/2" Air Terminals	Copper
38-7499-01	Narrow Base with Tension Cap - For 1/2" Air Terminals	Aluminum

*For additional Bases see page 23*



### UL Listed Air Terminal Bases

Catalog #	Product Description	Material
38-7523-11	Stamped Vent Base w/o cable holder - For 1/2" Air Terminals	Copper
38-7523-01	Stamped Vent Base w/o cable holder - For 1/2" Air Terminals	Aluminum

*For additional Bases see page 25*



#### **UL Fact:**

*A zone of protection is like rolling a 300 ft. diameter ball from grade up against and then over a building to the opposite grade, leveling in every conceivable direction.*

### UL Listed Mechanical Splicers

Catalog #	Product Description	Material
38-7248-10	Cast Parallel Splicer - For 1/2" Air Terminals	Brass
38-7248-00	Cast Parallel Splicer- For 1/2" Air Terminals	Aluminum

*For additional Splicers see page 28*



### UL Listed Mechanical Splicers

Catalog #	Product Description	Material
38-7492-10	Cast Tee Splicer	Brass
38-7492-00	Cast Tee Splicer	Aluminum

*For additional Splicers see page 30*



## QuickPicks

### UL Listed Mechanical Splicers

Catalog #	Product Description	Material
38-7248-10	Cross Run Splicer	Brass
38-7248-00	Cross Run Splicer	Aluminum

*For additional Splicers see page 30*



### UL Listed Mechanical Splicers

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

*For additional Splicers see page 29*



### UL Listed Bimetallic Splicers

Catalog #	Product Description	Material
38-7764-00	Bimetallic Splicer w/Stainless Steel Barrier	Aluminum/Brass

*For additional Splicers see page 31*



#### **UL Fact:**

*Aluminum material cannot not be used for direct grounding of aluminum lightning protection systems. Aluminum materials cannot come into direct contact with earth.*

TW



*The average length of a single lightning bolt is 2-3 miles.*

Notes

## QuickPicks

### UL Listed Bimetallic Splicers

*For additional Splicers see page 30*

Catalog #	Product Description	Material
38-7346-10	Hex Bimetallic Straight Splicer w/Stainless Steel Barrier	Aluminum/Brass

**UL Fact:**

*Only approved bimetallic fittings shall be used to join aluminum and copper lightning protection system components.*



### UL Listed Cable Disconnects

*For additional Cable Disconnects see page 31*

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



### UL Listed Bonding Plates

*For additional Bonding Plates see page 32*

Catalog #	Product Description	Material
38-7553-10	Stamped Bonding Plate - 8 sq. in.	Copper
38-7553-00	Stamped Bonding Plate - 8 sq. in.	Aluminum



### UL Listed Bonding Plates

*For additional Bonding Plates see page 32*

Catalog #	Product Description	Material
38-7471-10	Bonding Plate with Universal Cap - 8 sq. in.	Brass
38-7471-00	Bonding Plate with Universal Cap - 8 sq. in.	Aluminum



TW



*Lightning hits the Empire State Building (NY, USA) about 23 times a year.*



## QuickPicks

### UL Listed Bonding Plates

*For additional Bonding Plates see page 34*

Catalog #	Product Description	Material
38-7538-10	Bonding Plate with 3" C-type Clamp - 8 sq. in.	Brass
38-7538-00	Bonding Plate with 3" C-type Clamp - 8 sq. in.	Aluminum



### UL Listed Bonding Clamp

*For additional Bonding Clamps see page 35*

Catalog #	Product Description	Material
38-7421-10	U-Bolt Bonding Clamp Fits up to 2" O.D. pipe	Bronze
38-7421-00	U-Bolt Bonding Clamp Fits up to 2" O.D. pipe	Aluminum
38-7432-10	U-Bolt Bonding Clamp Fits up to 4.5" O.D. pipe	Bronze
38-7423-00	U-Bolt Bonding Clamp Fits up to 4.5" O.D. pipe	Aluminum



### UL Listed Bonding Lug

*For additional Bonding Lugs see page 33*

Catalog #	Product Description	Material
38-7540-10	Secondary Bonding Lug with 2-bolt Tension	Bronze
38-7540-00	Secondary Bonding Lug with 2-bolt Tension	Aluminum



*The energy contained in a single lightning strike can power a 100 watt light bulb for 90 days.*

Notes

## Quick Picks

### UL Listed Ground Rod Clamp

*For additional Ground Rod Clamps see page 36*

Catalog #	Product Description	Material
38-7461-02	Secondary Bonding Lug with 2-bolt Tension for 1/2" to 3/4" Rod	Bronze



### UL Listed Rod Assembly

*For additional Rod Assemblies see page 38*

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



### UL Listed Strap

*For additional Strap see page 38*

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



### UL Listed Loop Fastener

*For additional Fastener see page 39*

Catalog #	Product Description	Material
38-7446-10	5/8" Wide Loop Fastener 1/4" Hole	Copper
38-7446-00	5/8" Wide Loop Fastener 1/4" Hole	Aluminum



### UL Listed Clamp

*For additional Clamp see page 39*

Catalog #	Product Description	Material
38-7549-10	Stamped Adhesive Clamp	Brass
38-7549-00	Stamped Adhesive Clamp	Aluminum



## QuickPicks

### UL Listed Adhesive

For additional Adhesive see page 40

Catalog #	Product Description	Color
38-7547-00	M-1 Adhesive /Sealant	Gray
38-7547-01	M-1 Adhesive /Sealant	White
38-7547-02	M-1 Adhesive /Sealant	Black



### UL Listed Protector Pipe

For additional Protector Pipe see page 38

Catalog #	Product Description	Material
38-7648-10	PVC Protector Pipe 1" x 10', Schedule 40	PVC



### UL Listed Ground Access Well

For additional Ground Well see page 40

Catalog #	Product Description	Material
38-7804-03	PVC Ground Access Well w/Galvanized Lid - 10" x 36", Schedule 40	PVC/Steel



#### UL Fact:

A metal body that is 3/16" (4.8mm) thick or greater that is subject to a direct lightning strike may serve as a strike termination device and shall be connected to the lightning protection system.



The average temperature of lightning is around 36,000 °F (20,000 °C)

Notes

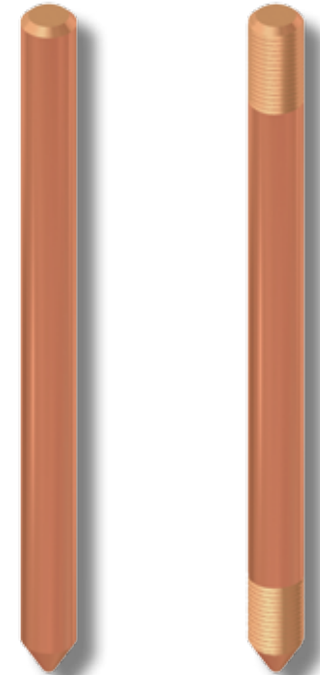
## Quick Picks

### UL Listed Ground Rod

Catalog #	Product Description	Material
38-4635-04	Ground Rod 3/4" x 10'	Copper Bonded

### UL Listed Sectional Ground Rod

Catalog #	Product Description	Material
38-4635-24	Ground Rod 3/4" x 10' with 3/4" Thread Dia.	Copper Bonded



### UL Listed Threaded Coupling

Catalog #	Product Description	Material
38-6313-04	3/4" Threaded Coupling for Sectional Ground Rod	Bronze



### Driving Stud for Threaded Coupling

Catalog #	Product Description	Material
38-6607-04	3/4" Driving Stud for Threaded Coupling	Copper



TW



*Astraphobia is the fear of thunder and lightning.*

Notes

## QuickPicks

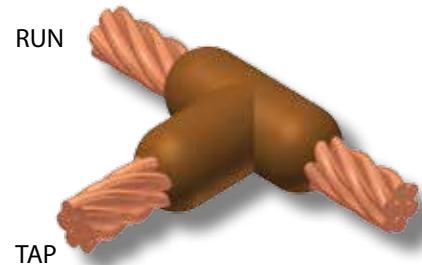
### CC-2

#### 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					
C	C	M-5048	4	115	B-106	2

*For additional Molds see page 44*



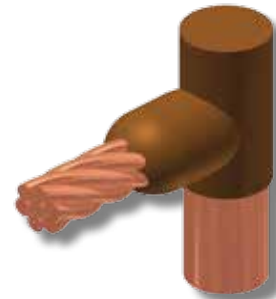
### CR-1

#### TYPE MOLDS

Horizontal Cable Terminal to Ground Rod  
For Lightning Protection Conductors

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS						
Ground Rod Size	Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
3/4"	C	M-5085	4	115	B-106	2

*For additional Molds see page 46*



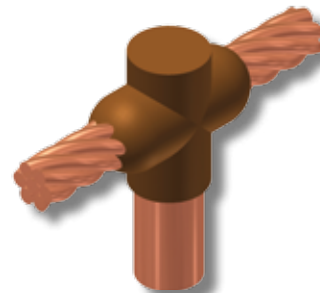
### CR-2

#### TYPE MOLDS

Horizontal Cable to Ground Rod  
For Lightning Protection Conductors

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS						
Ground Rod Size	Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
3/4"	C	M-5105	4	150	B-106	2

*For additional Molds see page 47*



TW



*"Lightning never strikes twice" unfortunately is a myth.*

# UL Lightning Protection Products

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# thermOweld® UL Lightning Protection

# UL LISTED LIGHTNING PROTECTION CONDUCTORS

## UL Listed Conductors

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



**Smooth Weave**



**Rope Lay**



**Concentric**



**Smooth Weave Aluminum**



# UL LISTED LIGHTNING PROTECTION CONDUCTORS

## UL Listed Secondary Conductors

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



Solid Copper



Smooth Weave



Solid Aluminum





# thermOweld® UL Lightning Protection

## UL Listed AIR TERMINALS

### UL Listed Air Terminals

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



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

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

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

## UL Listed AIR TERMINAL ACCESSORIES

### UL Listed Air Terminal Extension Rods

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

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

"L" = Length of Extension Rod in Feet.



### UL Listed Swivels

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

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



# UL Listed AIR TERMINAL ACCESSORIES

## UL Listed Tripod Brace

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

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

Other Sizes available upon request.



# UL LISTED AIR TERMINAL BASES

## UL Listed Cast Multi-Purpose Point Base

UL Listed Cast Multi-purpose Point Bases



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

## UL Listed Dual Mount Base

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



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

## UL Listed Dual Mount Narrow Base

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



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

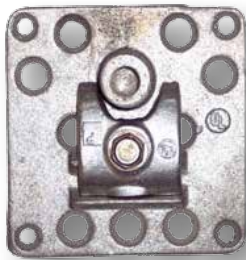
Suitable for use with lightning protection cable range of approximately 29,000 to 212,000 circular mils.

# thermOweld® UL Lightning Protection

## UL LISTED AIR TERMINAL BASES

### UL Listed Adhesive Base

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



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

### UL Listed Side Mount Narrow Base

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



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

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

## UL LISTED AIR TERMINAL BASES

### UL Listed Top Mount Narrow Base

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

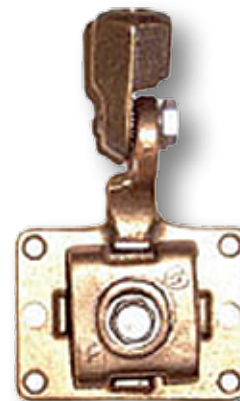
Catalog #	Product Description	Material
38-7495-01	Top Mount Base - for 1/2" Air Terminal	Aluminum
38-7495-02	Top Mount Base - for 5/8" Air Terminal	Aluminum
38-7495-10	Top Mount Base - for 3/8" Air Terminal	Bronze
38-7495-11	Top Mount Base - for 1/2" Air Terminal	Bronze
38-7495-12	Top Mount Base - for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



### UL Listed Universal Swivel Base

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

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



# thermOweld® UL Lightning Protection

## UL LISTED AIR TERMINAL BASES

### UL Listed Narrow Surface Base

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



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

### UL Listed Offset Base

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



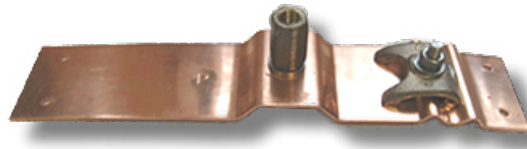
Catalog #	Product Description	Material
38-7444-01	Offset Base - for 1/2" Air Terminal	Aluminum
38-7444-02	Offset Base - for 5/8" Air Terminal	Aluminum
38-7444-10	Offset Base - for 3/8" Air Terminal	Bronze
38-7444-11	Offset Base - for 1/2" Air Terminal	Bronze
38-7444-12	Offset Base - for 5/8" Air Terminal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

# UL LISTED AIR TERMINAL BASES

## UL Listed Ridge Mount Base

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

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



## UL Listed Cast Straight Base

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

### UL Listed Straight Base - Hex Rod with Set Screws

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





# thermOweld® UL Lightning Protection

## UL LISTED AIR TERMINAL BASES

### UL Listed Standing Seam Base

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



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

### UL Listed Stamped Vent Base

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



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

# thermOweld® UL Lightning Protection

## UL LISTED AIR TERMINAL BASES

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

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



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

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

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

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

Continued on Next Page

# thermOweld® UL Lightning Protection

## UL LISTED AIR TERMINAL BASES

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

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

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

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

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



# UL LISTED CONDUCTOR SPLICERS

## UL Listed Parallel Splicers

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



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

## UL Listed Parallel Splicers

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



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

## UL Listed Parallel Splicer

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



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

# thermOweld® UL Lightning Protection UL LISTED CONDUCTOR SPLICERS

## UL Listed Cast Parallel Splicer

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

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



## UL Listed Cast Parallel Splicer

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

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



## UL Listed Cast Straight Splicer

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

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



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

# thermOweld® UL Lightning Protection

## UL LISTED CONDUCTOR SPLICERS

### UL Listed Cast Tee Splicer

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



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

### UL Listed Cross Run Splicer

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



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

### UL Listed Cast Bimetallic Splicer

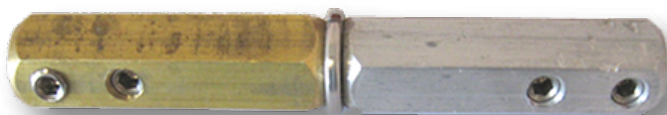
UL Listed Cast Bimetallic Cable Splicers are designed for making connections between aluminum and copper cables in a straight line. Two-bolt tension on each cable for making a strong connection. Use with all main size conductors.



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

### UL Listed Machined Bimetallic Splicer

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



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

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

# thermOweld® UL Lightning Protection UL LISTED CONDUCTOR SPLICERS

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

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

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



## UL Listed Cable Disconnects

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

### UL Listed Cable Disconnects

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



# UL LISTED BONDING PLATES

## UL Listed Cast Bonding Plate

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

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



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

# UL LISTED BONDING PLATES

## UL Listed Cast Bonding Plate

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



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

## UL Listed Stamped Bonding Plate

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



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

# UL LISTED BONDING LUGS

## UL Listed Cast Bonding Lug

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



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



# thermOweld® UL Lightning Protection

## UL LISTED BONDING LUGS

### UL Listed Cast Bonding Lug

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

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



### UL Listed Secondary Cast Bonding Lug

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



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

# UL LISTED BONDING CLAMPS

## UL Listed C-Clamp Bonding Clamp

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



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

## UL Listed C-Clamp Bonding Clamp

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



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

## UL Listed Bonding Clamp

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



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

## UL Listed Bonding Clamp

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



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

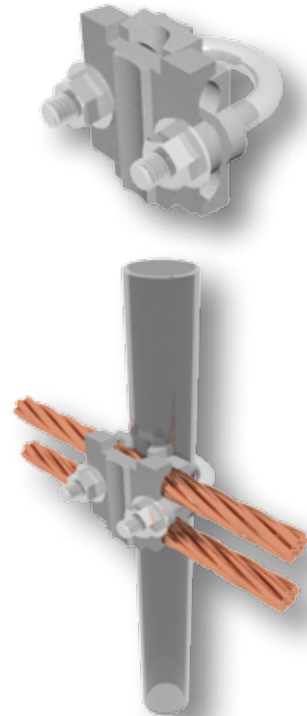
# thermOweld® UL Lightning Protection

## UL LISTED BONDING CLAMPS

### UL Listed 1" U-Bolt Bonding Clamp

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

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

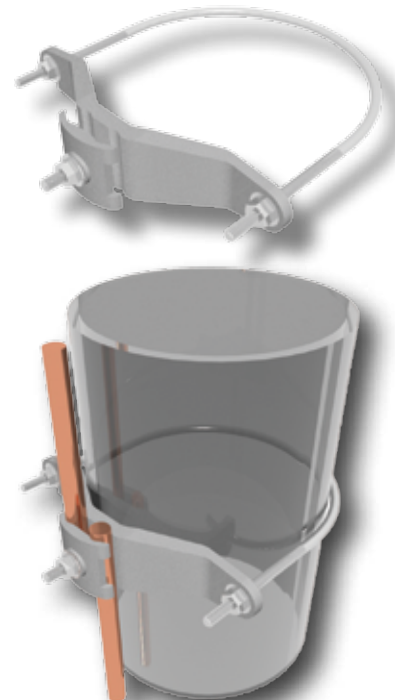


**Pipe Range 0.375" - 1"**

### UL Listed 2"-8" U-Bolt Bonding Clamp

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

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



**Pipe Range 2" - 8"**

# thermOweld® UL Lightning Protection

## UL LISTED BONDING CLAMPS

### UL Listed Secondary Bonding Clamp

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

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



### UL Listed Ground Rod Clamp

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

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



### UL Listed Flexible Bonding Strap

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

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



# UL LISTED THRU ROD ASSEMBLIES & ACCESSORIES

## UL Listed Thru Rod Assembly with Two Cable Connectors

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

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

## UL Listed Thru Rod Assembly with One Cable Connector

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

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



Thru Rod Assembly with Two Cable Connectors (Bimetallic shown)

Thru Rod Assembly with One Cable Connector (Aluminum shown)

# UL LISTED THRU ROD ASSEMBLIES & ACCESSORIES

## UL Listed Thru Rod Assembly with PVC Cap

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

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



## PVC Protector Pipe

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

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



## UL Listed Protector Pipe Strap

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

## UL Listed Strap

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



# thermOweld® UL Lightning Protection

## UL LISTED FASTENERS

### UL Listed Loop Fastener

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

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



### UL Listed Loop Fastener

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

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



### UL Listed Stamped Adhesive Cable Clip

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



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

# LIGHTNING PROTECTION STRUCTURAL ADHESIVE

## M-1 Structural Adhesive/Sealant

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

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



# GROUND ACCESS WELLS

## PVC Ground Access Well

PVC Ground Access Wells are available in 10" or 12" diameter. Galvanized Steel lid included with "Ground" tag on lid.

## UL Listed Ground Well

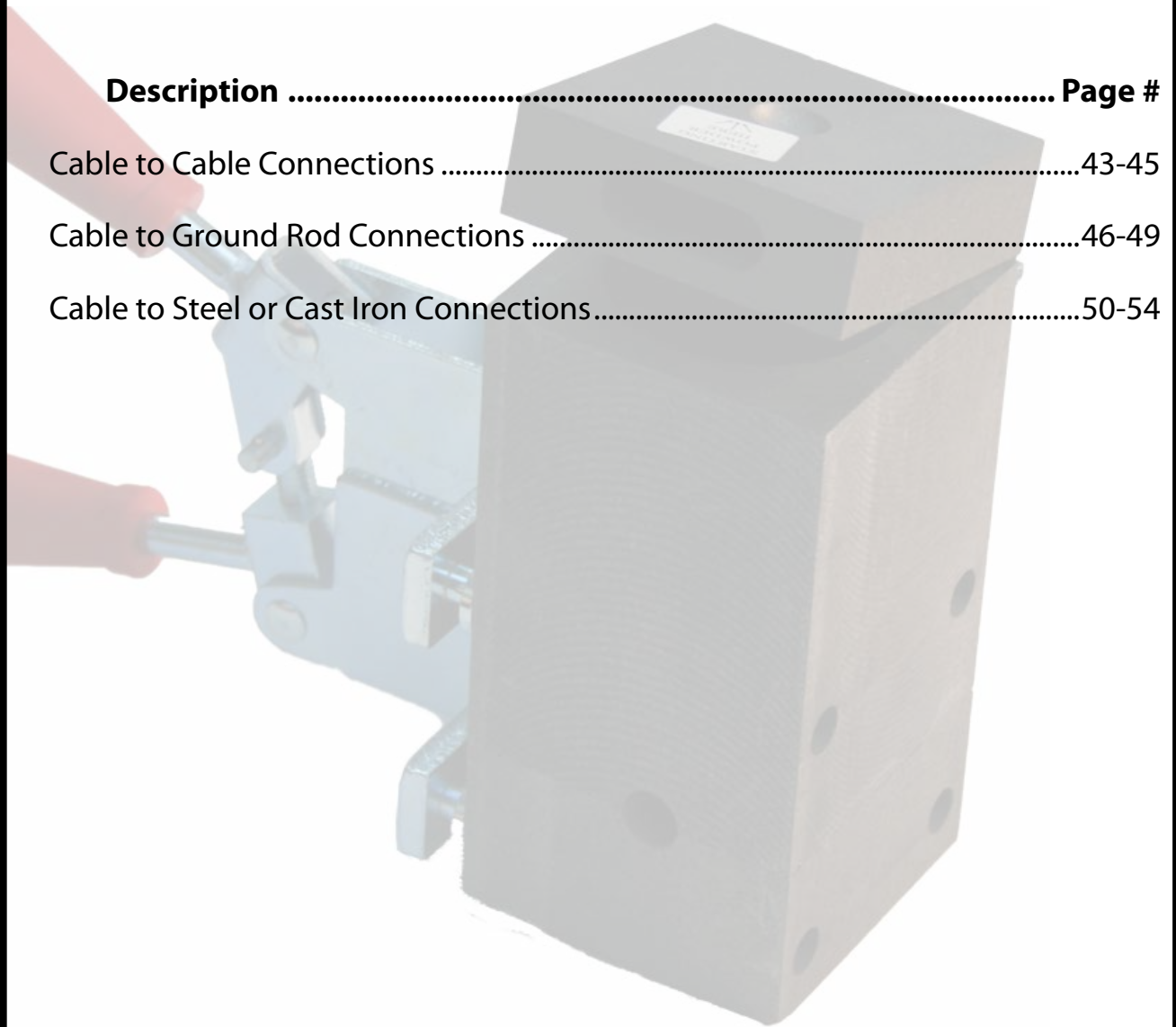
Catalog #	Product Description	Material
38-7804-01	PVC Ground Well w/Galvanized Lid - 10" x 12", Schedule 40	PVC/Steel
38-7804-11	PVC Ground Well w/Galvanized Lid - 12" x 12", Schedule 40	PVC/Steel
38-7804-02	PVC Ground Well w/Galvanized Lid - 10" x 18", Schedule 40	PVC/Steel
38-7804-12	PVC Ground Well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












# Section 4







## Molds for use with Lightning Protection Conductors







<b>Description .....</b>	<b>Page #</b>
Cable to Cable Connections .....	43-45
Cable to Ground Rod Connections .....	46-49
Cable to Steel or Cast Iron Connections.....	50-54

# thermOweld® UL Lightning Protection

Weld Type		Page #
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	CC-4	45
	CR-1	46
	CR-2	47
	CR-3	48
	CR-18	49

Weld Type		Page #
	CS-1	50
	CS-2	51
	CS-3	52
	CS-4	54
	CS-6	53
	CS-7	54

Weld Type		Page #
	CS-8	50
	CS-9	51
	CS-18	52
	CS-27	53

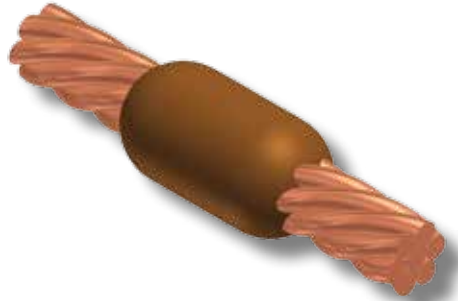
Use the chart below to determine the cable code. Then select the weld connection type needed and then find the corresponding cable code to acquire the mold number, price key and cartridge size.

CABLE CODE	thermOweld	THOMPSON	ROBBINS	INDEPENDENT	AC	EAST COAST	HEARY	HARGER®	PREFERRED	ERICO®
A	36-7563-00, 36-7563-01	14	11A, 10	22	C-150	C14	HB6C	14	C61, C63	
B	36-7563-02, 36-7563-03	509	11		C-152		HB4C	10	C62	
C	36-7562-00, 36-7562-01, 36-7562-02, 36-7562-03, 36-7562-04, 36-7561-00, 36-7561-01	29X, 32	1	32S	C-122, C-122L	C29, C32	HB29-17C, HB32-17C	29, 30, 32, 33	C50, C50T, C51, C52, C52T, C53, C56-19	LPC120, LPC121, LPC122, LPC120L, LPC122L
D	36-7562-06, 36-7561-08, 36-7562-07, 36-7557-00, 36-7557-01	32S, 50S, 28R	601, 603	20, 500	C-125, C-126, C-128	C385	HB24-14C, HB28-14C	25, 35, 28	C54, C55, C58	LPC125, LPC126, LPC126L, LPC128
E			604	40, G1						
F	36-7557-02, 36-7557-03, 36-7561-02, 36-7561-03	36S, 506	602	36S	C-123, C-127		HB36-17C, BH28B-13C	20, 36	C56R	LPC123, LPC127
G				501,21, 44S, 40S	C-124		HB40-17C	40		LPC124
H				502						
J				501B						
K		507		G3				38		
L				502A						
Q	36-7561-04*, 36-7561-06*, 36-7561-07*		605*		C-137*	C4/0-19*	HB122-4/0*	54*, 64*	C59-19*, C59-37*	LPC137*

\* = 4/0 CONCENTRIC CABLE

## CC-1

**TYPE MOLDS**  
Horizontal End to End  
For Lightning Protection Conductors



### MOLDS FOR LIGHTNING PROTECTION CONDUCTORS

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

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

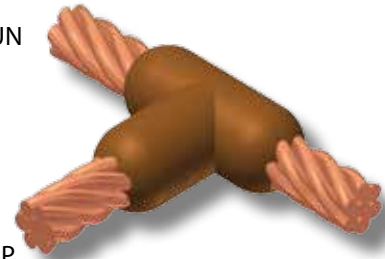
# thermOweld® UL Lightning Protection

## CC-2

### TYPE MOLDS

Horizontal Cable Tap to Horizontal Cable Run  
For Lightning Protection Conductors

RUN

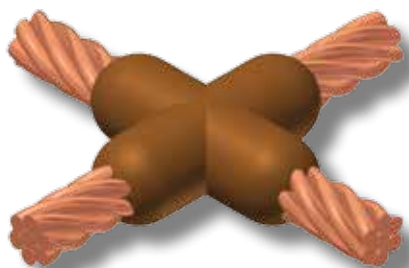


TAP

MOLDS FOR LIGHTNING PROTECTION CONDUCTORS						
Cable Code		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
A	A	M-5050	4	45	B-106	4
B	B	M-5056	4	65	B-106	2
	A	M-2183	4	45	B-106	4
C	C	M-5048	4	115	B-106	2
	B	M-2186	4	90	B-106	4
	A	M-2184	4	65	B-106	2
D	D	M-5287	4	115	B-106	2
	C	M-5040	4	90	B-106	2
	B	M-2185	4	90	B-106	4
	A	M-5288	4	65	B-106	2
E	E	M-5023	4	150	B-106	2
	D	M-5284	4	150	B-106	2
	C	M-2187	4	115	B-106	2
	B	M-2192	4	90	B-106	4
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	2
	C	M-2194	4	115	B-106	2
	B	M-5019	4	90	B-106	2
G	A	M-5017	4	90	B-106	2
	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
H	A	M-2226	4	90	B-106	4
	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
J	B	M-2234	4	90	B-106	4
	A	M-2843	4	90	B-106	4
	Q	M-2236	4	150	B-106	4
	J	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
K	D	M-2242	4	150	B-106	4
	C	M-2243	4	115	B-106	4
	B	M-2244	4	90	B-106	4
	A	M-2245	4	90	B-106	4
	Q	M-2246	4	150	B-106	4

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

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



## CC-4

### TYPE MOLDS

Horizontal to Horizontal Cable Cross  
For Lightning Protection Conductors

Tap cable is cut

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

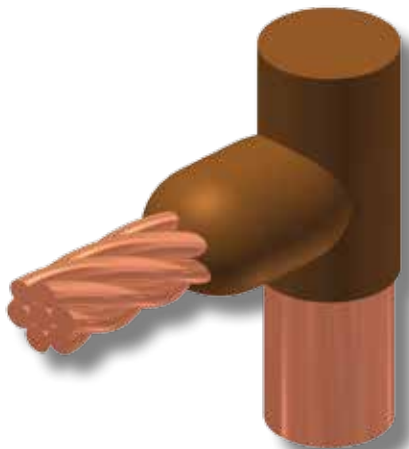
MOLDS FOR LIGHTNING PROTECTION CONDUCTORS						
Cable Code		Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
Run	Tap					
K	K	M-2318	4	250	B-106	2
	J	M-2319	4	250	B-106	4
	H	M-2855	4	250	B-106	4
	G	M-2321	4	200	B-106	4
	F	M-2322	4	200	B-106	4
	E	M-2323	4	200	B-106	4
	D	M-2324	4	200	B-106	4
	C	M-2325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

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

## CR-1

### TYPE MOLDS

#### Horizontal Cable Terminal to Ground Rod For Lightning Protection Conductors



#### NOTES

1. Molds listed are for copper clad steel ground rods: 1/2" rods are 0.475" diameter, 5/8" rods are 0.563" diameter, 3/4" rods are 0.682" diameter, and 1" rods are 0.914" diameter.
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

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

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

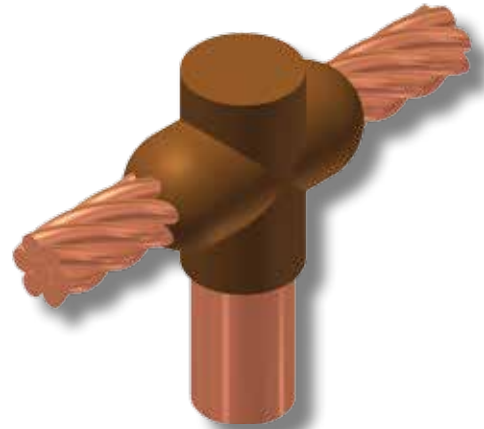
## CR-2

### TYPE MOLDS

#### Horizontal Cable to Ground Rod For Lightning Protection Conductors

#### MOLDS FOR LIGHTNING PROTECTION CONDUCTORS

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



#### NOTES

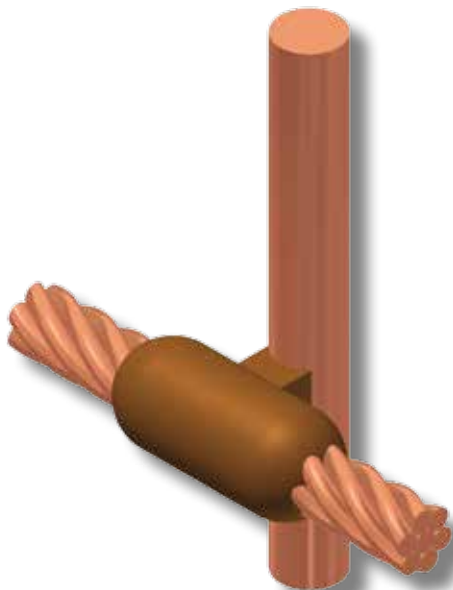
1. Molds listed are for copper clad steel ground rods: 1/2" rods are 0.475" diameter, 5/8" rods are 0.563" diameter, 3/4" rods are 0.682" diameter, and 1" rods are 0.914" diameter.
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

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

## CR-3

### TYPE MOLDS

#### Horizontal Thru Cable to Ground Rod For Lightning Protection Conductors



#### NOTES

1. Molds listed are for copper clad steel ground rods: 1/2" rods are 0.475" diameter, 5/8" rods are 0.563" diameter, 3/4" rods are 0.682" diameter, and 1" rods are 0.914" diameter.
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

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

#### MOLDS FOR LIGHTNING PROTECTION CONDUCTORS

Ground Rod Size	Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
1/2"	A	M-5107	24	90	B-106	4
	B	M-2403	24	115	B-106	4
	C	M-5111	24	150	B-106	2
	D	M-5108	24	150	B-106	4
	E	M-5109	24	150	B-106	4
	F	M-5110	24	150	B-106	4
	G	M-2404	24	200	B-106	4
	H	M-2405	24	200	B-106	4
	J	M-2406	24	200	B-106	4
	K	M-2407	24	200	B-106	4
5/8"	L	M-2408	24	250	B-106	4
	Q	M-5057	24	150	B-106	4
	A	M-5114	24	90	B-106	4
	B	M-2409	24	115	B-106	4
	C	M-5118	24	150	B-106	2
	D	M-5115	24	150	B-106	2
	E	M-5116	24	150	B-106	2
	F	M-5117	24	150	B-106	2
	G	M-2410	24	200	B-106	4
	H	M-2411	24	200	B-106	4
3/4"	J	M-2412	24	200	B-106	4
	K	M-2413	24	200	B-106	2
	L	M-2414	24	250	B-106	4
	Q	M-5058	24	150	B-106	4
	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
1"	G	M-2415	24	200	B-106	2
	H	M-2416	24	200	B-106	4
	J	M-2417	24	200	B-106	4
	K	M-2418	24	200	B-106	2
	L	M-2419	24	250	B-106	4
	Q	M-2420	24	150	B-106	2
	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	
1"	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	2
	K	M-2427	24	200	B-106	4
	L	M-2428	24	250	B-106	4
	Q	M-2429	24	150	B-106	2



## 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	2
	D	M-8472	17	150	B-106	2
	E	M-10584	17	150	B-106	4
	F	M-10585	17	150	B-106	4
	G	M-10586	17	150	B-106	4
	H	M-10587	17	150	B-106	4
	J	M-10588	17	200	B-106	4
	K	M-10589	17	200	B-106	4
	L	M-10590	17	250	B-106	4
Q	M-10591	17	150	B-106	4	
3/4"	A	M-10592	17	115	B-106	4
	B	M-10593	17	115	B-106	4
	C	M-8177	17	150	B-106	2
	D	M-10594	17	200	B-106	4
	E	M-5490	17	200	B-106	4
	F	M-10595	17	200	B-106	4
	G	M-10596	17	200	B-106	4
	H	M-10597	17	200	B-106	4
	J	M-10598	17	200	B-106	4
	K	M-2138	17	200	B-106	4
	L	M-10599	17	250	B-106	4
Q	M-10600	17	150	B-106	4	
1"	A	M-10601	17	150	B-106	4
	B	M-10602	17	150	B-106	4
	C	M-10603	17	200	B-106	4
	D	M-10604	17	200	B-106	4
	E	M-10605	17	200	B-106	4
	F	M-10606	17	250	B-106	4
	G	M-10607	17	250	B-106	4
	H	M-10608	17	250	B-106	4
	J	M-10609	17	250	B-106	4
	K	M-10610	17	250	B-106	4
	L	M-10611	17	2-150	B-106	4
	Q	M-10612	17	200	B-106	4

#### NOTES

1. Molds listed are for copper clad steel ground rods: 1/2" rods are 0.475" diameter, 5/8" rods are 0.563" diameter, 3/4" rods are 0.682" diameter, and 1" rods are 0.914" diameter.
2. Molds are available for galvanized steel, stainless steel, and solid copper rods that are sold by actual diameter. The suffix "-N" is added to the mold number, i.e. M-XXX-N is for full sized rods.
3. Molds are available for sectional/threaded copper clad steel ground rods. The suffix "-T" is added to the mold number, i.e. M-XXX-T is for a sectional/threaded ground rod.

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

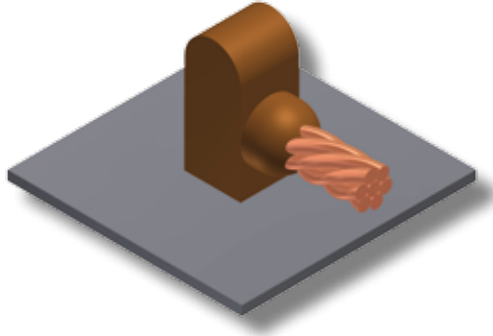
## CS-1

### TYPE MOLDS

Horizontal Cable to Horizontal Steel Surface

For Lightning Protection Conductors

Note that the cable is OFF the surface



**MOLDS FOR LIGHTNING PROTECTION CONDUCTORS**

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

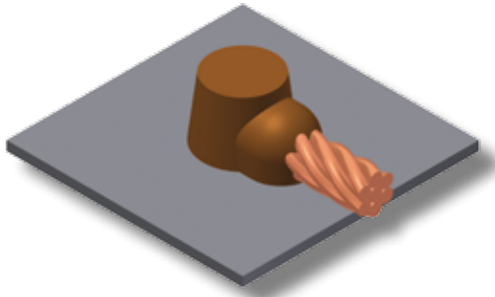
## CS-8

### TYPE MOLDS

Horizontal Cable to Horizontal Steel Surface

For Lightning Protection Conductors

Note that the cable is ON the surface



**MOLDS FOR LIGHTNING PROTECTION CONDUCTORS**

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

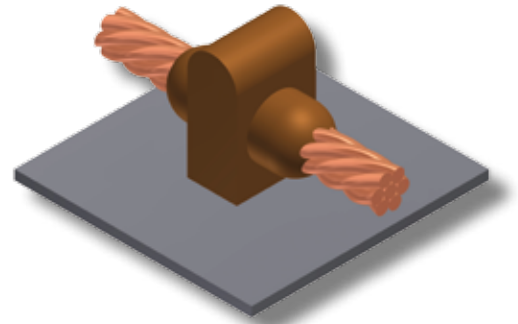
- For sizes not listed, contact thermOweld®.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  - Handle Clamps w/ Flint Ignitor (see chart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

## CS-2

### TYPE MOLDS

Horizontal Thru Cable to Horizontal Steel Surface  
For Lightning Protection Conductors  
Note that the cable is OFF the surface

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

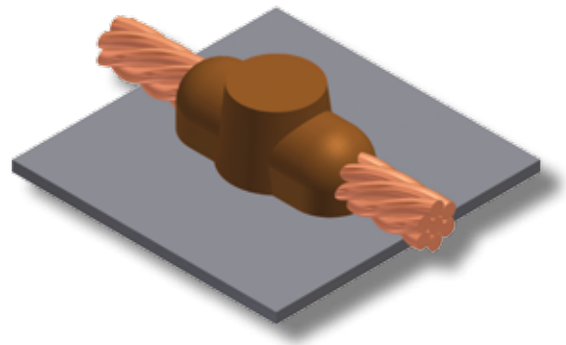


## CS-9

### TYPE MOLDS

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

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

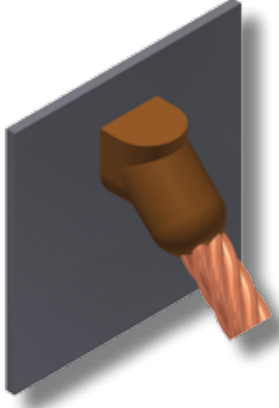


- For sizes not listed, contact thermOweld®.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®.
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  - Handle Clamps w/ Flint Ignitor (see chart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

## CS-3

### TYPE MOLDS

Angular Cable Drop to Vertical Steel Surface  
For Lightning Protection Conductors

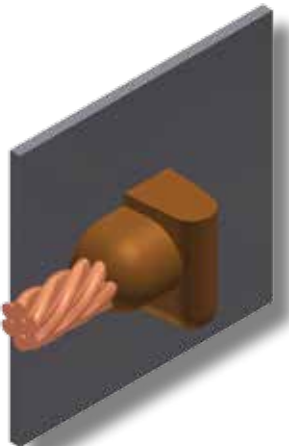


MOLDS FOR LIGHTNING PROTECTION CONDUCTORS					
Cable Code	Mold #	Price Key	Weld Metal	Handle Clamps	Lead Time
A	M-5145	4	65	B-106	2
B	M-5150	4	65	B-106	2
C	M-5149	4	90	B-106	2
D	M-5146	4	115	B-106	2
E	M-5147	4	115	B-106	2
F	M-5148	4	115	B-106	2
G	M-2440	4	150	B-106	2
H	M-2441	4	150	B-106	4
J	M-2442	4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

## CS-18

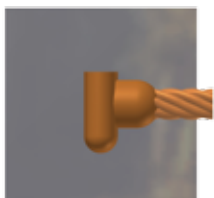
### TYPE MOLDS

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



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

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



Left Hand  
Mold



Right Hand  
Mold

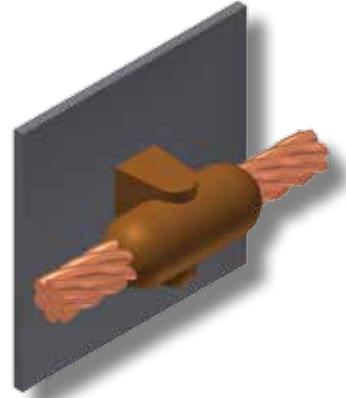
- For sizes not listed, contact thermOweld®.
- For heavy duty connections, contact thermOweld®.
- For expedited service, contact thermOweld®
- To order weld metal for use with EZ Lite Remote® insert TW before and EZ after weld metal number.
- Required Tools;
  - Handle Clamps w/ Flint Ignitor (see chart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

## CS-6

### TYPE MOLDS

Horizontal Thru Cable to Vertical Steel Surface  
For Lightning Protection Conductors  
Note that the cable is OFF the surface

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

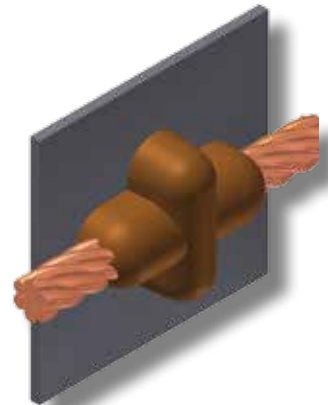


## CS-27

### TYPE MOLDS

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

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



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

## CS-4

### TYPE MOLDS

Vertical Thru Cable to Vertical Steel Surface

For Lightning Protection Conductors

Note that the cable is OFF the surface



#### MOLDS FOR LIGHTNING PROTECTION CONDUCTORS

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

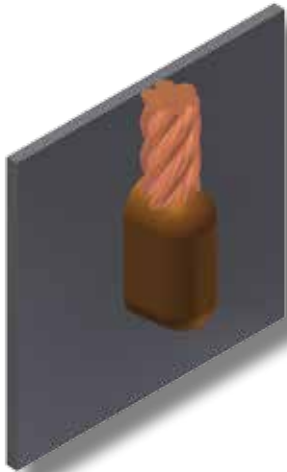
## CS-7

### TYPE MOLDS

Overhead Vertical Tap Cable to Vertical Steel Surface

For Lightning Protection Conductors

Note that the cable is ON the surface



#### MOLDS FOR LIGHTNING PROTECTION CONDUCTORS

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

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

## WELD METAL

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

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

Our engineers have formulated and created various weld metal types for application-specific use, including our standard formulations for, copper-to-copper, copper-to-steel and copper-to-copper-clad steel.

Standard Cartridge Size	Packed Per Box
#15	20
#25	20
#32	10
#45	20
#65	20
#90	10
#115	10
#150	10
#200	10
#250	10
#500	10

thermOweld® Weld Metal is sold in box quantities only.



### Weld Metal Disks

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

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



# thermOweld®

## Lightning Protection Catalog

[www.thermoweld.com](http://www.thermoweld.com) | 800-558-1373

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