

Developed in 1988, **CADWELD EXOLON** is a significant advance in welded electrical connections. The metallurgy is the same as the standard CADWELD connection approved by over 70% of electric utilities in the USA — but the virtual elimination of visible smoke plus a unique electric starting system makes this improved process easier and more convenient than ever before.

Most connections listed in this catalog can be ordered in the CADWELD EXOLON configuration. Ordering information is shown below.

HOW TO ORDER CADWELD EXOLON

1. To order CADWELD EXOLON products, just specify molds and weld metal from the catalog and add an "XL" prefix.

Example: TAC2Q2Q becomes XLTAC2Q2Q, and 150 becomes XL150.

2. If the weld metal shown in the catalog shows more than one tube required such as 2-#200, you must specify #XL400 to get the correct size filters.

Example: XLTAD-4L3Q: XL400

3. The following molds require a price key change:
 - "C" price key molds using 2-#150 weld metals change to XLD price key.
 - "E" price key molds using 2-#150 weld metals change to XLJ price key.
 - "H" price key molds using 2-#150 weld metals, contact ERICO.
 - "M" price key molds using 2-#150 weld metals change to XLV price key.
 - "R" price key molds using 2-#150 weld metals change to XLF price key.
 - "T" price key molds, ALL change to XLP price key.

Example: TAC3Q3Q using 2-#150 weld metals change to XLTAD3Q3Q using #XL300 weld metal

4. Filters and ignitors are included with the weld metal. XL filters and ignitors are not sold separately.
5. The ignitor can be used only once and then must be discarded. Filters will last as specified in the instructions supplied with each mold.
6. A Relia-Start electric starter, part number XLB971A1 (battery, charger, carrying case and connecting cable), is required for XL weld metal. There is no starting material in the XL weld metal tube. Batteries operate about 200 starts before recharging from 120 VAC is required. The charger, all electrical connections and instructions are included in the battery case.
7. Baffle with cover is required for larger molds. Estimated life of the baffle is 500 welds.

XLB972A1 Baffle is required for molds using XL200 and XL250 weld metals.

XLB973A1 Baffle is required for molds using XL300 to XL750 weld metals.
8. For EZ Change Handles, add XL prefix. (Flint ignitor not included.)
9. Welding Tray, part number XLB974B2, is used under the mold to protect cables and equipment from hot materials.

OTHER INFORMATION

Certain tools may be required for various connections.

If required, these tools are listed on the same page as the connection and in Section A.

- Some tools listed in Section A can save you a lot of time.
- Also refer to A9E, Contractor Tips, to make your job easier, and learn about labor saving ideas.

Prices for standard products are shown in Price List G285P

For other CADWELD literature, videos and software, See Section C.

For all your connection needs — we're only a phone call away.

Phone: 800-677-9089

Fax: 800-677-8131

or call your local CADWELD distributor, agent, or CADWELD Regional Sales Manager

REQUIRED TOOLS SUMMARY:

Required tools are listed with each mold. For your reference, handle clamps and/or frame are summarized below.

<u>MOLD</u>	<u>REQUIRED</u>
A*	Includes frame with handle
C, Q & R	Requires L160
D, F & Z	Requires L159
E*	Includes frame but also requires L160
J*	Includes frame but also requires L159
K*, M* & V*	Includes frame with handles

* To order mold only – without handles or frame – add suffix “M” to mold part number.



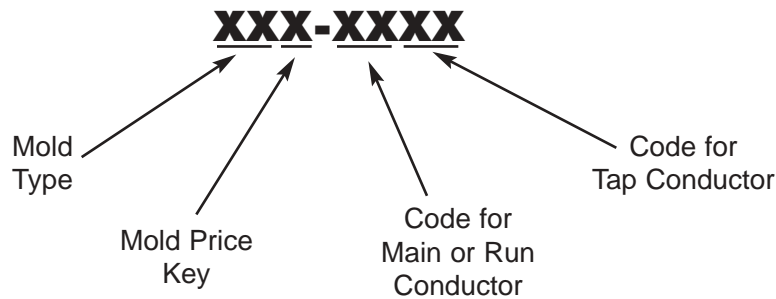
GROUNDING CONNECTION SPECIFICATION

All grounding connections of copper to copper and copper to steel conductors of #8 and larger sized conductors shall be CADWELD exothermic welded connections. Conductors spliced with a CADWELD exothermic welded connection shall be considered as a continuous conductor, as stated in the notes accompanying NEC 250-50, 250-64, 250-68, 250-70 and IEEE Std 80 – 1986.

All grounding connections to equipment shall use bolted lugs. When the conductor is #8 and larger, the lug shall be joined to the conductor by the CADWELD process, otherwise use listed compression lugs which meet IEEE Std 837 – 1989.

THE CADWELD MOLD NUMBERING SYSTEM

The CADWELD Mold Part Number gives, in code, the complete information about the mold
– Type of connection, mold price key, and conductor size(s)



EXAMPLES

TAD-4L3Q

Type TA Price Key D 750 kcmil Run 500 kcmil Tap

GTC-182V

Type GT Price Key C 3/4" Copper Clad Ground Rod 250 kcmil Tap

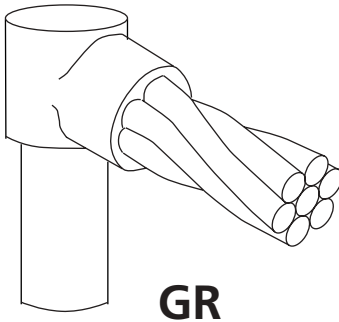
SSC-3D

Type SS Price Key C 350 kcmil Tap

VSC-2C-V3

Type VS Price Key C 1/0 Cable Vertical Pipe 3" IPS

Conductor codes are listed in Section B



CABLE TO GROUND ROD

- Single cable to top of ground rod. Concentric strand copper cable unless otherwise noted. For copper clad, galvanized, stainless clad or stainless steel ground rods.
- **Bold letter** in mold part number is the price key.

REQUIRED TOOLS

Handle Clamps **L160** for **C** Price Key Molds
Clamps are included with **T** and **P** Price Key Molds

Flint Ignitor **T320** (Included with handle clamp or frame but also available separately)

SUGGESTED TOOLS

Cable Cleaning Brush	T313 or T314
Slag Removal Spade	B136A or B136B
Mold Cleaning Brush	T394
File	T329
Cable Clamp	B265
Torch Head	T111

ACCESSORIES

See Section A

GROUND ROD SIZE	CABLE SIZE	MOLD PART NUMBER			WELD METAL
		Steel	Copper Clad Plain (unthreaded)	Copper Clad Sectional (with 9/16" threads)	
1/2"	6	GRT-14C1H	GRT-14A1H	GRT-14B1H	25
	6 SOL	GRT-14C1G	GRT-14A1G	GRT-14B1G	25
	4	GRT-14C1L	GRT-14A1L	GRT-14B1L	25
	4 SOL	GRT-14C1K	GRT-14A1K	GRT-14B1K	25
	2 SOL	GRT-14C1T	GRT-14A1T	GRT-14B1T	32
	2	GRT-14C1V	GRT-14A1V	GRT-14B1V	32

		Steel or Copper Clad Sectional (with 9/16" threads)	Copper Clad Plain (unthreaded)	Copper Clad Sectional (with 1/2" threads)	
		1/2"	1	GRC-141Y	
1/0	GRC-142C		GRC-152C	GRC-132C	90
1/0 SOL	GRC-142B		GRC-152B	GRC-132B	90
2/0	GRC-142G		GRC-152G	GRC-132G	90
3/0	GRC-142L		GRC-152L	GRC-132L	90
4/0	GRC-142Q		GRC-152Q	GRC-132Q	90
250	GRC-142V		GRC-152V	GRC-132V	90
300	GRC-143A		GRC-153A	GRC-133A	90



GROUND ROD SIZE	CABLE SIZE	MOLD PART NUMBER		WELD METAL
		Copper Clad Plain (unthreaded)	Steel or Copper Clad Sectional (threaded)	
5/8"	6	GRT-161H	GRT-311H	32
	6 SOL	GRT-161G	GRT-311G	32
	4	GRT-161L	GRT-311L	32
	4 SOL	GRT-161K	GRT-311K	32

		Copper Clad Sectional (threaded) or Plain	Steel	
5/8"	2 SOL	GRC-161T	GRC-311T	65
	2	GRC-161V	GRC-311V	65
	1	GRC-161Y	GRC-311Y	65
	1/0	GRC-162C	GRC-312C	90
	1/0 SOL	GRC-162B	GRC-312B	90
	2/0	GRC-162G	GRC-312G	90
	3/0	GRC-162L	GRC-312L	90
	4/0	GRC-162Q	GRC-312Q	90
	250	GRC-162V	GRC-312V	90
	300	GRC-163A	GRC-313A	115
	350	GRC-163D	GRC-313D	115
	500	GRC-163Q	GRC-313Q	150

		Copper Clad Plain (unthreaded)	Steel or Copper Clad Sectional (threaded)	
3/4"	6	GRT-181H	GRT-331H	32
	6SOL	GRT-181G	GRT-331G	32
	4	GRP-181L	GRP-331L	45
	4 SOL	GRP-181K	GRP-331K	45

		Copper Clad Sectional (threaded) or Plain	Steel	
3/4"	2 SOL	GRC-181T	GRC-331T	90
	2	GRC-181V	GRC-331V	90
	1	GRC-181Y	GRC-331Y	90
	1/0	GRC-182C	GRC-332C	90
	1/0 SOL	GRC-182B	GRC-332B	90
	2/0	GRC-182G	GRC-332G	90
	3/0	GRC-182L	GRC-332L	90
	4/0	GRC-182Q	GRC-332Q	90
	250	GRC-182V	GRC-332V	90
	300	GRC-183A	GRC-333A	115
	350	GRC-183D	GRC-333D	115
	500	GRC-183Q	GRC-333Q	150
	1"		CONTACT ERICO FOR ORDERING INFORMATION	