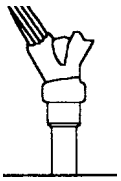
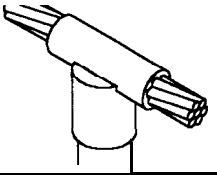
Type GV



Splice/Vertical - **Cable up. 30 off vertical**

GROUND ROD SIZE	CABLE CODE	MOLD NUMBER	PRICE KEY	WELD METAL SIZE
1/2"	A	GVR- 148A	R	90
	B	GVR-148B	R	90
	C	GVR-148C	R	***115***
	D	GVR-1480	R	***150***
	E	GVR-148E	R	***150***
	F	GVR-148F	R	***150***
	G	GVR-148G	R	***150***
	H	GVR-148H	R	***150***
	J	GVR-148J	R	***200***
	K	GVR-148K	R	***200***
	L	GVR-148L	R	***250***
	Q	GVR-142Q	R	***150***
5/8"	A	GVR- 168A	R	90
	B	GVR-168B	R	90
	C	GVR- 168C	R	***115***
	D	GVR-1680	R	***150***
	E	GVR-168E	R	***150***
	F	GVR-168F	R	***150***
	G	GVR- 168G	R	***150***
	H	GVR- 168H	R	***150***
	J	GVR- 168J	R	***200***
	K	GVR-168K	R	***200***
	L	GVR-168L	R	***250***
	Q	GVR-162Q	R	***150***
3/4"	A	GVR- 188A	R	***115***
	B	GVR-188B	R	***115***
	C	GVR-188C	R	***150***
	D	GVR-188D	R	***200***
	E	GVR-188E	R	***200***
	F	GVR-188F	R	***200***
	G	GVR-188G	R	***200***
	H	GVR-188H	R	***200***
	J	GVR-188J	R	***200***
	K	GVR-188K	R	***200***
	L	GVR-188L	R	***250***
	Q	GVR-182Q	R	***150***
1"	A	GVR-228A	R	***150***
	B	GVR-228B	R	***150***
	C	GVR-228C	R	***200***
	D	GVR-228D	R	***200***
	E	GVR-228E	R	***200***
	F	GVR-228F	R	***250***
	G	GVR-228G	R	***250***
	H	GVR-228H	R	***250***
	J	GVR-228J	R	***250***
	K	GVR-228K	R	***250***
	L	GVR-228L	R	***2-150***
	Q	GVR-222Q	R	***200***

Type GT



Through cable *to top of ground rod*

GROUND ROD SIZE	CABLE CODE	MOLD NUMBER	PRICE KEY	WELD METAL SIZE
1/2"	A	GTC-148A	C	***90***
	B	GTC-148B	C	***90***
	C	GTC-148C	C	***115***
	D	GTC-148D	C	***115***
	E	GTC-148E	C	***115***
	F	GTC-148F	C	***115***
	G	GTC-148G	C	***150***
	H	GTC-148H	C	***150***
	J	GTC- 148J	C	***150***
	K	GTC- 148K	C	***150***
	L	GTC-148L	C	***200***
	Q	GTC-142Q	C	***115***
5/8"	A	GTC- 168A	C	***90***
	B	GTC-168B	C	***115***
	C	GTC-168C	C	***150***
	D	GTC-168D	C	***150***
	E	GTC- 168E	C	***150***
	F	GTC- 168F	C	***150***
	G	GTC- 168G	C	***200***
	H	GTC- 168H	C	***200***
	J	GTC- 168J	C	***200***
	K	GTC- 168K	C	***200***
	L	GTC-168L	C	***250***
	Q	GTC-162Q	C	***115***
3/4"	A	GTC-188A	C	***90***
	B	GTC- 188B	C	***115***
	C	GTC- 188C	C	***150***
	D	GTC-188D	C	***150***
	E	GTC-188E	C	***150***
	F	GTC-188F	C	***150***
	G	GTC- 188G	C	***200***
	H	GTC-188H	C	***200***
	J	GTC- 188J	C	***200***
	K	GTC- 188K	C	***200***
	L	GTC- 188L	C	***250***
	Q	GTC-182Q	C	***115***
1"	A	GTC-228A	C	***150***
	B	GTC-228B	C	***150***
	C	GTC-228C	C	***150***
	D	GTC-228D	C	***200***
	E	GTC-228E	C	***200***
	F	GTC-228F	C	***250***
	G	GTC-228G	C	***250***
	H	GTC-228H	C	***250***
	J	GTC-228J	C	***250***
	K	GTC-228K	C	***250***
	L	GTC-228L	C	***2-150***
	Q	GTC-222Q	C	***150***

SEE PAGE 9

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.

MOLD	REQUIRED
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.

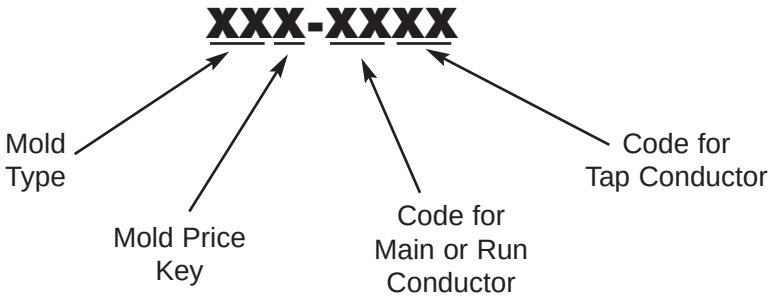
GROUNDING CONNECTION SPECIFICATION

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.

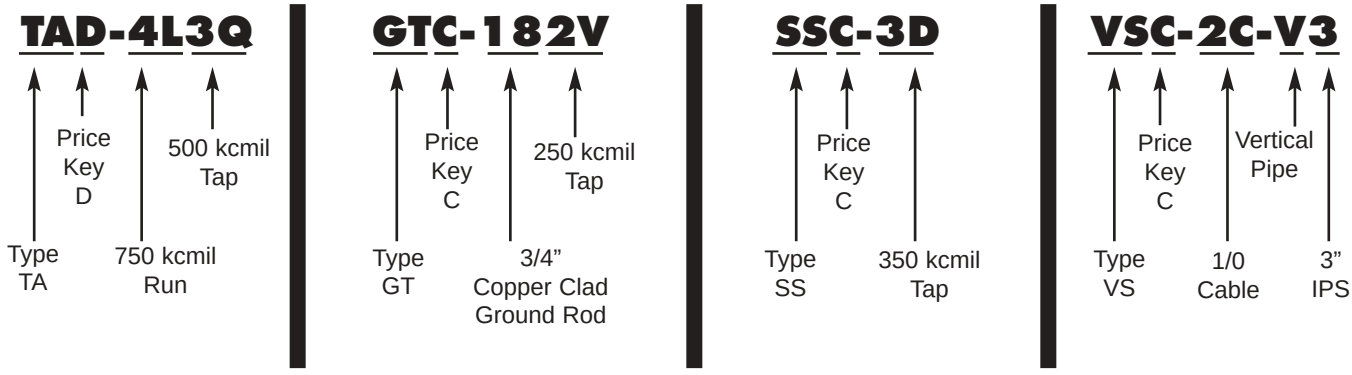
All grounding connections to equipment shall use bolted lugs. When the conductor is #8 and larger, the lug shall be joined to the conductor by the CADWELD process, otherwise use listed compression lugs which meet IEEE Std 837 – 1989.

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



Conductor codes are listed in Section B

BARE CLASS A, B, AND C CONCENTRIC STRANDED CONDUCTOR

Based on A.S.T.M. Standard Specifications.

Size in Circular mils	Size A.W.G.	Conductor Dia. In.	NUMBER OF WIRES 7	19	37	61	91	CADWELD Cable code
1,000,000		1.152			.1644*	.1280	.1048	4Y
800,000		1.031			.1470*	.1145	.0938	4Q
750,000		.998			.1424*	.1109	.0908	4L
700,000		.964			.1375*	.1071	.0877	4G
600,000		.893			.1273	.0992	.0812	3X
500,000		.813		.1622*	.1162	.0905		3Q
400,000		.728		.1451	.1040	.0810		3H
350,000		.681		.1357	.0973	.0757		3D
300,000		.630		.1257	.0900	.0701		3A
250,000		.575		.1147	.0822	.0640		2V
211,600	4/0	.528	.1739	.1055	.0756			2Q
167,800	3/0	.470	.1548	.0940	.0673			2L
133,100	2/0	.419	.1379	.0837	.0600			2G
105,500	1/0	.373	.1228	.0745	.0534			2C
83,690	1	.332	.1093	.0664	.0476			1Y
66,370	2	.292	.0974	.0591				1V
52,630	3	.260	.0867	.0526				1Q
41,740	4	.232	.0772	.0469				1L
26,240	6	.184	.0612	.0372				1H
16,510	8	.146	.0486	.0295				1E
10,380	10	.116	.0385	.0234				1B
6,530	12	.0915	.0305	.0185				
4,110	14	.0726	.0242	.0147				

*Class AA

Ph: 1-800-677-9089
www.erico.com