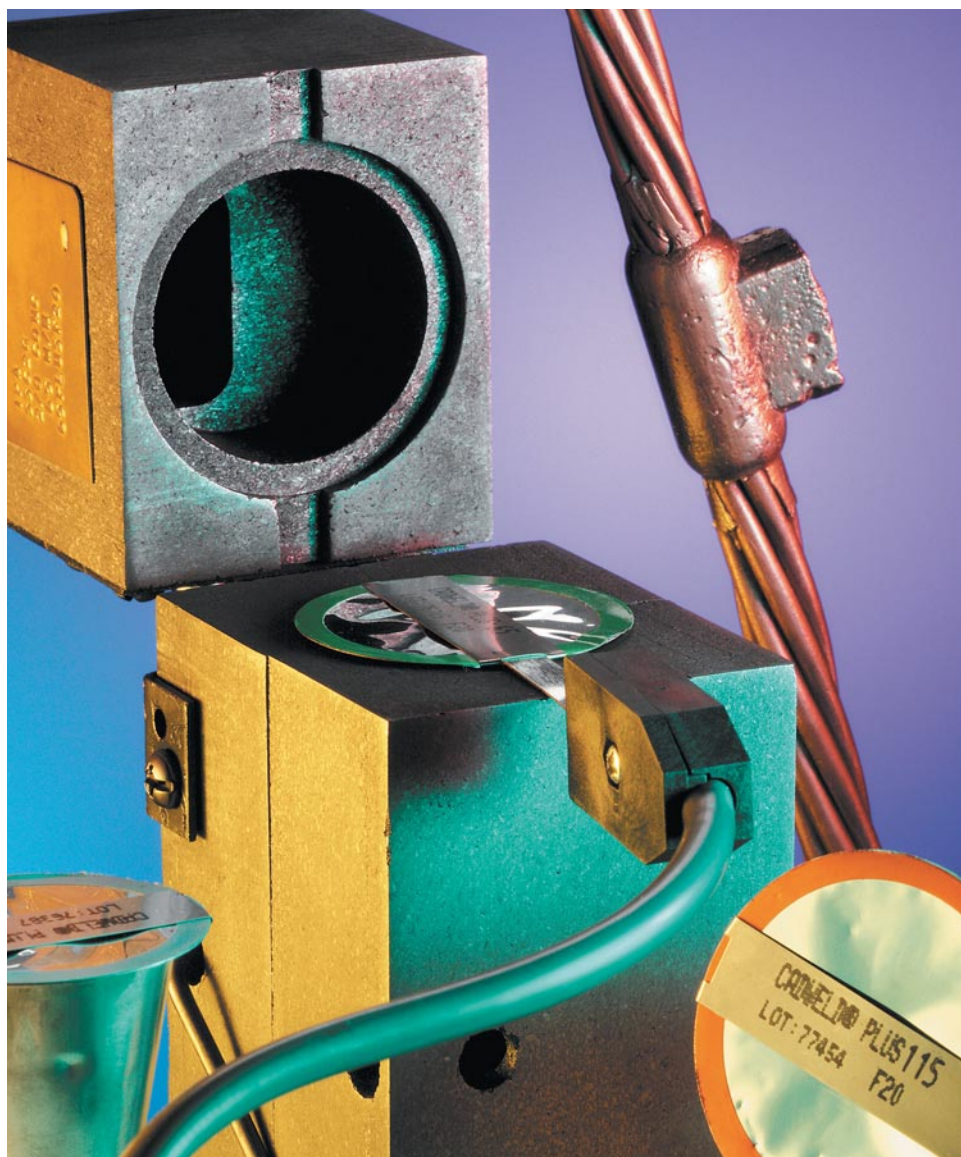


**CADWELD®**

**CADWELD® PLUS**

Leading Technologies In Exothermic Welding



**ERICO®**

CADWELD® PLUS connections offer all the benefits of conventional CADWELD® connections:

- Withstands repeated fault currents without failing during operation
- Exceeds requirements of "IEEE Std 837- Std. for Qualifying Permanent Connections Used In Substation Grounding"
- Joins copper to copper, copper to galvanized or plain steel, copper to copper clad steel, copper to bronze/ brass/stainless steel, steel to steel, etc.
- Current carrying capacity equal to or greater than that of the conductor
- Permanent, molecular bond that will not loosen or corrode, resulting in a connection with a lifetime equal to that of the installation
- No external power or heat source required
- Quality Assurance Inspection is easy and visual
- Minimal installation training required



The CADWELD molecular bond will last the lifetime of the conductors.

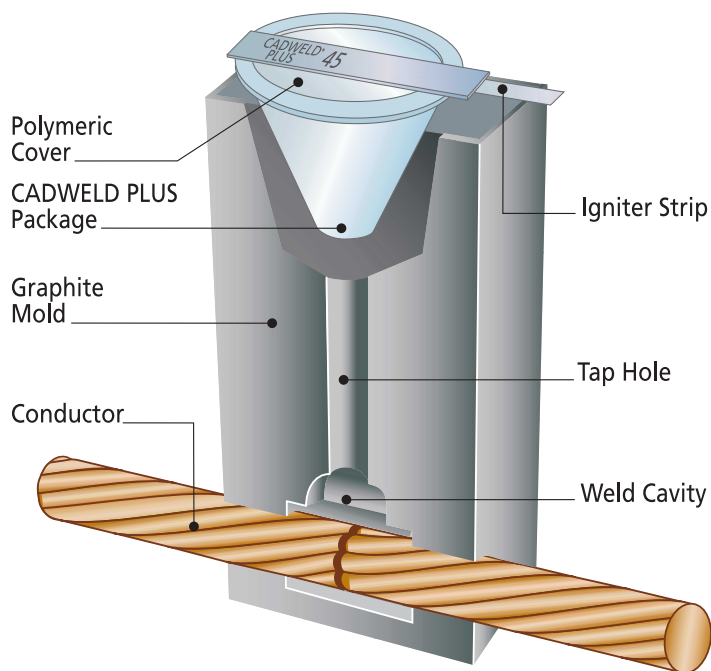
# CADWELD® PLUS

**The ultimate welded connection that will never loosen, corrode or increase in resistance just got BETTER.**

CADWELD PLUS is the latest advancement in the continuing evolution of ERICO's exothermic products. Since it's development in 1938, CADWELD electrical connections have become recognized as the ultimate connection for rail, cathodic, power and grounding applications. ERICO® has established itself as the worldwide connections leader. CADWELD PLUS continues this tradition of technical leadership.

The revolutionary CADWELD PLUS System is a simplified method of performing exothermically welded electrical connections. The CADWELD PLUS integrated weld metal package has streamlined the installation process by eliminating ignition materials – reducing set up time.

The tamper proof, integrated weld metal package consists of a steel cup containing CADWELD patented weld metal alloys and ignition source. This new weld metal package is designed for use in all standard CADWELD molds including CADWELD® MULTI. Once placed in the CADWELD mold, the weld metal is electronically ignited using a simple battery-powered control unit with six (6) foot lead.



## CADWELD® PLUS

### Feature

*Integrated Weld Metal Package*

*Color Coded Weld Metal*

*Electronic Control Unit*

*Six Foot Control Unit Lead*

### Benefits

- Simplifies training and set up
- Saves labor
- Simplifies cleaning
- Reduces risk of misapplication
- Simple visual verification of correct weld metal size
- No starting material required
- Easy ignition
- Increased flexibility in hard to reach areas



## The CADWELD® PLUS system:

**CADWELD®**

**Proven Safety and  
Proven Performance  
with No Equal**

- Consists of a tamper proof, disposable, moisture-resistant weld metal cup. The weld metal, disk and ignition source are incorporated into the self-contained package
- Virtually unlimited shelf life
- Completes welds at distances of up to 6 ft/1.8 meters
- Requires minimum components – no starting material, no disks, no flint igniters
- Easy to handle, store and transport – by air, land or sea in unlimited quantities
- Reduces installation time by 20%
- Has color-coded weld metal containers – by size and alloy type – for easy identification
- Has electronic ignition with a CE/UL battery powered controller box that is designed for 600 connections with one set of 8 standard AA batteries (included) – requiring no special batteries or chargers
- Designed for use in standard CADWELD® molds including CADWELD® MULTI

## Installation Is Easy!

### 4 Simple Steps For Permanently Welded Electrical Connections



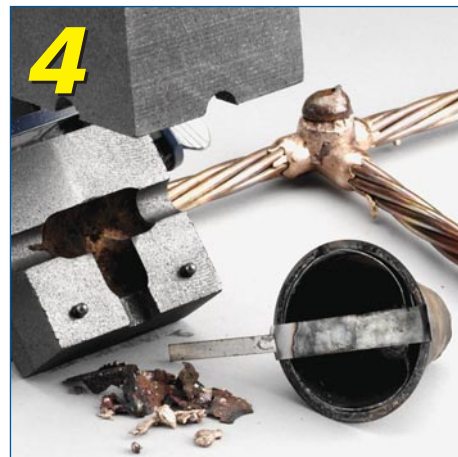
*Insert CADWELD PLUS package into mold (may require use of a cover/baffle)*



*Attach control unit termination clip to ignition strip*



*Press and hold control unit switch and wait for the ignition*



*Open the mold and remove the expended steel cup – no special disposal required*

CADWELD PLUS Control Unit initiates the reaction of the metal crucible. The standard unit includes a 6-foot (1.8 meter) high temperature control unit lead. The lead attaches to the ignition strip using a custom made, purpose-designed termination clip.

After the termination clip is installed on the ignition strip, the installer pushes and holds the ignition button to start a charging and discharging sequence. Within a few seconds the control unit sends a predetermined voltage to the ignition strip and the reaction is initiated.

# CADWELD PLUS

## Color Coded Containers

CADWELD PLUS will use the following color codes and general product nomenclature:



### CADWELD PLUS Color Codes and Nomenclature (F20)

Current Size (Clear Cap)	Grounding Weld Metal Tube Size	Color
15	15PLUSF20	Black
25	25PLUSF20	Red
32	32PLUSF20	White
45	45PLUSF20	Light Blue
65	65PLUSF20	Dark Green
90	90PLUSF20	Gray
115	115PLUSF20	Orange
150	150PLUSF20	Dark Blue
200*	200PLUSF20	Yellow
250*	250PLUSF20	Purple
use 2 x 150*	300PLUSF20	Light Green
use 2 x 200*	400PLUSF20	Brown
500*	500PLUSF20	Light Brown

### CADWELD PLUS Color Codes and Nomenclature (F80)

Current Size (Yellow Cap)	Rail Weld Metal Tube Size	Color
SB25	SB25PLUSF80	Red
SB32	SB32PLUSF80	White
PB45	PB45PLUSF80	Light Blue
PB65	PB65PLUSF80	Dark Green
PB90	PB90PLUSF80	Gray
PB115	PB115PLUSF80	Orange
PB150	PB150PLUSF80	Dark Blue
PB200*	PB200PLUSF80	Yellow
PB250*	PB250PLUSF80	Purple
use 2 x 150*	PB300PLUSF80	Light Green
use 2 x 200*	PB400PLUSF80	Brown
PB500*	PB500PLUSF80	Light Brown

### CADWELD PLUS Color Codes and Nomenclature (F33)

Current Size (Green Cap)	Cathodic Weld Metal Tube Size	Color
CA15/CA15S	CA15PLUSF33	Black
CA25	CA25PLUSF33	Red
CA32	CA32PLUSF33	White
CA45	CA45PLUSF33	Light Blue
CA65	CA65PLUSF33	Dark Green

\*NOTE: CADWELD PLUS Patent Number 6,553,911  
Gram weight PLUS weld metal type i.e. 45PLUSF20

### CADWELD PLUS Color Codes and Nomenclature (XF19)

Current Size (Orange Cap)	Cast Iron Weld Metal Tube Size	Color
25XF19	25PLUSXF19	Red
32XF19	32PLUSXF19	White
45XF19	45PLUSXF19	Light Blue
65XF19	65PLUSXF19	Dark Green
CA25XF19	CA25PLUSXF19	Red
CA32XF19	CA32PLUSXF19	White
CA45XF19	CA45PLUSXF19	Light Blue
CA65XF19	CA65PLUSXF19	Dark Green

### Accessories



PLUSCU



Baffle Cover Kit



PLUSCULD

US Part Number	Description
PLUSCU	CADWELD PLUS Control Unit
PLUSCU15L	CADWELD PLUS Control Unit with 15 ft. (4.6 meters) Lead
PLUSCULD	CONTROL UNIT Replacement Lead 6 ft. (1.8 meters)
PLUSCULD15	CONTROL UNIT Replacement Lead 15 ft. (4.6 meters)
MC2X2KIT	Kit, Baffle Cover, Graphite – 2" X 2" Mold
MC25X3KIT	Kit, Baffle Cover, Graphite – 2 1/2" X 2" Mold
MC3X3KIT	Kit, Baffle Cover, Graphite – 3" X 3" Mold
MC4X4KIT	Kit, Baffle Cover, Graphite – 4" X 4" Mold

#### WARNING

ERICO products shall be used only as illustrated and recommended in the product instruction sheets (additional instruction sheets are available at [www.erico.com](http://www.erico.com)). Misuse or misapplication may cause failure resulting in possible property damage or bodily injury.

#### WARRANTY; CLAIMS; EXCLUSIVE REMEDY

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

#### LIMITATION OF LIABILITY

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

Copyright ©2004 ERICO International Corporation. All rights reserved.

CADDY, CADWELD, CRITEC, ERICO, ERITECH, ERIFLEX, and LENTON are registered trademarks of ERICO International Corporation.