

Installation Is Easy!

4 Simple Steps For Permanently Welded Electrical Connections



1 Insert CADWELD® PLUS package into mould



2 Attach control unit termination clip to ignition strip



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



4 Open the mould and remove the expended steel cup – no special disposal required

CADWELD PLUS for Grounding Applications

CADWELD PLUS Reference Code	Part No.	Traditional Welding Material Part Number (Clear Cap)
15PLUSF20	165700	15
25PLUSF20	165701	25
32PLUSF20	165702	32
45PLUSF20	165703	45
65PLUSF20	165704	65
90PLUSF20	165705	90
115PLUSF20	165706	115
150PLUSF20	165707	150
200PLUSF20	165708	200
250PLUSF20	165709	250
300PLUSF20	165710	use 2 x 150
400PLUSF20	165711	use 2 x 200
500PLUSF20	165712	500
600PLUSF20		600
750PLUSF20		750

CADWELD PLUS for Cathodic Applications

CADWELD PLUS Reference Code	Part No.	Traditional Welding Material Part Number (Green Cap)
CA15PLUSF33	165713	CA15/CA15S
CA25PLUSF33	165714	CA25
CA32PLUSF33	165715	CA32
CA45PLUSF33	165716	CA45
CA65PLUSF33	165717	CA65

Gram weight PLUS welding material type i.e. 45PLUSF20



PLUSCU

CADWELD PLUS Patent Numbers
6,553,911 6,835,910 6,703,578

Accessories

Reference Code	Part No.	Description
PLUSCU	165738	CADWELD PLUS Control Unit
PLUSCU15L	165745	CADWELD PLUS Control Unit with 15 ft. (4.6 meters) Lead
PLUSCULDQC	PLUSCULDQC	Pluggable Control Unit Replacement Lead 6 ft. (1.8 meters)
PLUSCULD15QC	PLUSCULD15QC	Pluggable Control Unit Replacement Lead 15 ft. (4.6 meters)



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® AND CADWELD® PLUS

Traditional CADWELD® & CADWELD® PLUS Welding Material



Welding Material Size	Traditional CADWELD					CADWELD PLUS			
	Reference code	Part No.	 Unit Weight kg	Disk Type*	Reference code	Part No.	 Unit Weight kg		
F20 Alloy - Clear Cap - Copper/Copper - Copper/Steel - Steel/Steel									
15	15	163590	20	0,015	19	15PLUSF20	165700	20	0,049
25	25	163000	20	0,025	19	25PLUSF20	165701	20	0,063
32	32	163010	20	0,032	19	32PLUSF20	165702	20	0,065
45	45	163020	20	0,045	19	45PLUSF20	165703	20	0,086
65	65	163030	20	0,065	19	65PLUSF20	165704	20	0,104
90	90	163040	10	0,090	25	90PLUSF20	165705	10	0,158
115	115	163050	10	0,115	25	115PLUSF20	165706	10	0,185
150	150	163060	10	0,150	38	150PLUSF20	165707	10	0,217
200	200	163070	10	0,200	38	200PLUSF20	165708	10	0,267
250	250	163080	10	0,250	38	250PLUSF20	165709	10	0,353
300	use (2) 150					300PLUSF20	165710	10	0,376
400	use (2) 200					400PLUSF20	165711	10	0,480
500	500	163090	10	0,500	38	500PLUSF20	165712	10	0,585
600	use (3) 200		10			600PLUSF20		10	
750	use (3) 250		10			750PLUSF20		10	
F33 Alloy - Green Cap - Cathodic protection - Steel pipe									
15	CA15	163200	20	0,015	19	CA15PLUSF33	165713	20	0,049
25	CA25	163210	20	0,025	19	CA25PLUSF33	165714	20	0,063
32	CA32	163220	20	0,032	19	CA32PLUSF33	165715	20	0,065
45	CA45	163230	20	0,045	19	CA45PLUSF33	165716	20	0,086
65	CA65	163240	20	0,065	19	CA65PLUSF33	165717	20	0,104
90	CA90	163250	10	0,090	25				
115	CA115	163260	10	0,115	25				
150	CA150	163270	10	0,150	38				

CADWELD® Welding Material

CADWELD welding material consists of copper oxide and aluminum, packaged by weight (in grams) in plastic tubes. Each tube contains starting material at the bottom of the plastic tube. Welding material is packaged in containers along with metal disks. Standard welding material (F20) is packaged in tubes with clear caps and is used for all grounding connections with the exception of those to cast iron or rail.

CADWELD® PLUS

CADWELD PLUS simplifies the method of making exothermic connections by eliminating the need for starting material or a separate disk. With the CADWELD PLUS control unit, welds can be completed 1.8 m or more than 4 m away.

CADWELD® MULTI

4 Easy steps for multiple, permanently welded, electrical connections



Step 1 Layer batting and variable conductor sizes to be welded into dry mould



Step 2 Close mould and drop metal disk in place



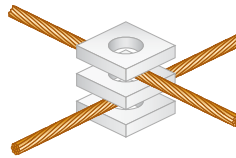
Step 3 Deposit welding material and tap bottom of container to release starting material



Step 4 Close the cover and ignite with flint ignitor. Open the mould after 10 seconds



The CADWELD MULTI combines a versatile mold block and a range of gaskets (batting) to allow numerous different welded connections to be produced without the need to change the mould for each connection type.



The process is similar to the traditional CADWELD with one distinct difference... there is no need to change the mould for different connection types. The whole process is complete in about one minute. The connection table details the gasket quantities required for each weld.

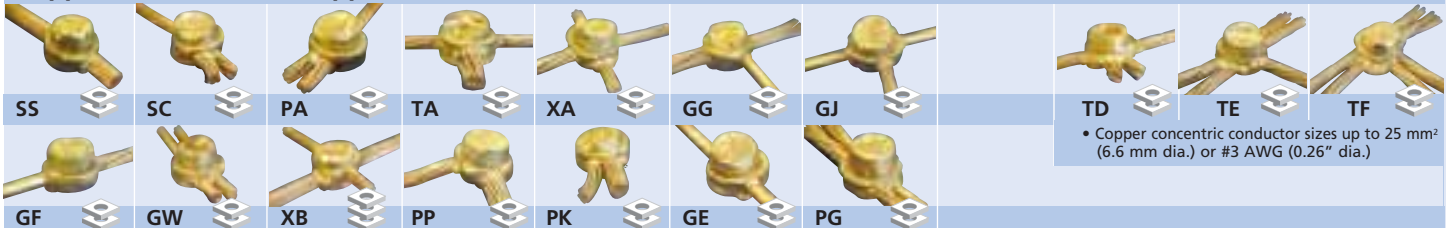
CADWELD® MULTI Available Items

Part Nr	Article Nr	Description		Weight (kg)
KITCDMV01	167782	CADWELD MULTI Kit	1	25.000
The CADWELD MULTI kit (KITCDMV01) contains the following list of items:				
FCDMV01	120883	Handle Clamp	1	1.800
CDMV01H	240399	Mould for H welds	1	1.200
CDMV0112	240398	Mould for welds on 1/2 rods	1	1.200
CDMV0158	240397	Mould for welds on 5/8 rods	1	1.200
CDMV0134	240396	Mould for welds on 3/4 rods*	1	1.200
SCDM01	120886	Set of 33 batting/gaskets	2	0.200
SKK1	162070	SKK1 clamp	1	0.500
TSCSTP	197295	Toolset	1	2.000
B136B	182030	Slag Removal Spade	1	0.144
		Language free instruction sheet	1	
The following items can be used with the CADWELD MULTI Kit (KITCDMV01). They are sold separately.				
T320	165000	Flint Ignitor T320	1	0.090
90	163040	CADWELD Traditional welding material	10	0.090
115	163050	CADWELD Traditional welding material	10	0.115
PLUSCU	165738	Control Unit	1	1.088
90PLUSF20	165705	CADWELD PLUS welding material	10	0.158
115PLUSF20	165706	CADWELD PLUS welding material	10	0.185

Due to ERICO's continuous product improvement policy, products shown in this catalog are subject to change without notice. If you would like to know more about the benefits of CADWELD MULTI contact ERICO or visit: www.erico.com

CADWELD® MULTI Connection Capabilities

Copper Cable/Solid to Copper Cable/Solid



• Copper concentric conductor sizes up to 50 mm² (9.3 mm dia.) or 1/0 AWG (0.37" dia.)

• Copper concentric conductor sizes up to 25 mm² (6.6 mm dia.) or #3 AWG (0.26" dia.)

Copper Cable/Solid Strip to Rebar



• Copper concentric conductor sizes up to 50 mm² (9.3 mm dia.) or 1/0 AWG (0.37" dia.)
 • Copper or steel strip sizes up to 30 x 3,5 mm (1.2" x 0.14")
 • Rebar sizes up to 10 mm (#3)

Copper Strip to Copper Strip



• BB and CG: Copper strip sizes up to 30 x 3,5 mm (1.2" x 0.14")
 • BG and EB: Copper strip sizes up to 30 x 3,0 mm (1.2" x 0.12")

Copper Cable/Solid to Copper or Steel Strip/Lug



• Copper concentric conductor sizes up to 50 mm² (9.3 mm dia.) or 1/0 AWG (0.37" dia.)
 • Copper or steel lug / strip sizes up to 30 x 3,5 mm (1.2" x 0.14")

Galvanised Steel Strip to Galvanised Steel Strip



• Galvanised steel strip sizes up to 30 x 3,5 mm (1.2" x 0.14")

Ground Rod Connections



• Copper concentric conductor sizes up to 10 mm² (4.2 mm dia.) or #6 AWG (0.18" dia.)
 • Copper strip sizes up to 30 x 2,0 mm (1.2" x 0.08")

• Copper concentric conductor sizes greater than 10 mm² (4.2 mm dia.) or #6 AWG (0.18" dia.)
 • Copper strip sizes 30 x (2,5 - 3,0 mm) or 1.2" x (0.10" - 0.12")
 • Steel strip sizes 30 x (0,5 - 3,5 mm) or 1.2" x (0.02" - 0.14")