

CRITICAL INFRASTRUCTURE GROUNDING

Complete Facility Protection by BURNDY®



Connecting Power to Your World®

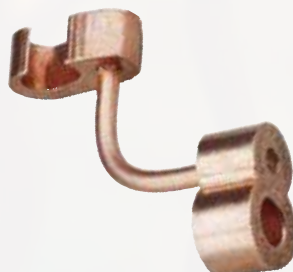


The Grounding Superstore™ has a full product offering that covers a variety of substation grounding applications.

ANTI-THEFT PRODUCTS

Unprotected, visible copper conductor and connectors are vulnerable to theft. Damage from copper theft is rarely limited to just conductor loss and often includes equipment damage, connector damage or theft. BURNDY offers a variety of options to help customers deter copper theft.

- **Tin-Plated Connectors** — By changing the appearance, connections are less attractive to potential copper thieves.
- **Alternative Hardware** - BURNDY offers the option of alternative hardware on our mechanical grounding connectors, as well as tin plated hardware, all of which assist in the deterrence of theft and prevent damage.
- **Longer Bolts** — Some mechanical connectors offer a longer bolt option as a way to hide conductor inside a channel or back of structural steel reducing its visibility.
- **Compatible with** COPPERWELD® Copper-clad Steel Conductor.
- **Specialized Hardware** — In areas with high foot traffic, or where theft is an inherent issue, BURNDY offers multiple hardware options that utilizes special tooling for installation, deterring potential thefts.



GROUND GRID CONNECTIONS

BURNDY® HYGROUND® Compression Grounding is a safe, cost-effective, and consistent grounding system that can be installed in all weather conditions. Compression grounding connectors are an excellent solution for connecting fence and other metallic structures that are bonded together to the ground grid.



Double C-Tap (YGHHHC) is an IEEE 837-2014 qualified product.

HYGROUND® Grid

HYGROUND® PRODUCT OFFERING TABLE BY APPLICATION

Product Family	Connector Type	Wire to Wire	Wire to Ground Rod	Wire to Rebar	Wire to Busbar	Wire Termination	Wire to Structural Steel
YGL	Cross Grid	•	•				
YGLR	Ground Rod to Grid		•				
YGHP	Figure 6	•	•	•			
YGHC	Figure C	•	•				
YGHHHC	Double C-Tap	•	•				
YGC	CRIMPIT™	•					
YSHG	H-Tap	•		•			
YGHR	Figure 8			•			
YGA	Lug (standard duty)				•	•	
YGHA	Lug (heavy duty)				•	•	
YGS	Splice (standard duty)	•					
YGHS	Splice (heavy duty)	•					
YGIB	I-Beam Connector						•
YG-B	Busbar Connector				•		

EXOTHERMIC

The BURNDYWeld® exothermic grounding process utilizes a high temperature reaction of powdered copper oxide and aluminum resulting in an irreversible connection. No outside power is required for installation. The reaction takes place in a semi-permanent graphite mold. BURNDYWeld® connections have a current carrying capacity equal to or greater than that of the conductors.

MOLDS

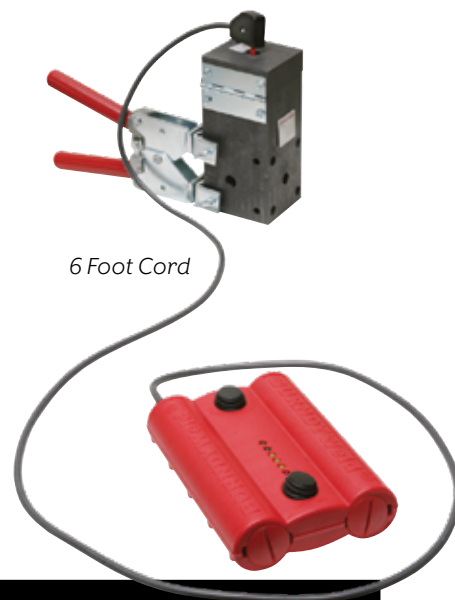
Catalog #	Type	Description
B232	BCC-2	2/0 to 2/0
B241	BCC-2	4/0 to 4/0
B2707	BCC-II	4/0 to 4/0
B548	BCR-2	2/0 to 5/8" rod
B550	BCR-2	4/0 to 5/8" rod
B559	BCR-2	2/0 to 3/4" rod
B561	BCR-2	4/0 to 3/4" rod
B593	BCS-3	4/0 to vertical steel
B647	BCS-I	4/0 to horizontal steel
B8718	BCS-23	4/0 to vertical steel
B208	BCC-I	4/0 to 4/0

SINGLE SHOT

Catalog #	Type	Description
BS2014	BCR-I	#2 Str and/or #2 Solid to 5/8" Rod

ELECTRONIC IGNITION

QIKLITE	Battery Ignition System
QIKSTIK	Ignitor Sticks
QIKLITEKIT	Battery Ignition System & 20 QIKSTIK Ignitor Sticks



6 Foot Cord

ACCESSORIES

Catalog #	Description
B106	Handle Clamp
B38030900	Flint Ignitor
B38392200	Natural Bristle Brush
B38032900	Shimstock
B38406100	Ceramic Fiber Packing Material
B37032001	3/4" disc for Weld Metal Cartridge sizes 15 - 65
B37032002	1" disc for Weld Metal Cartridge sizes 90 -115

WELD METAL/ CARTRIDGE SIZE

Weld Metal/ Cartridge Size	Weld Metal w/Ignitor Sticks	Package Qty
45	45Q	20
65	65Q	20
90	90Q	10
115	115Q	10
150	150Q	10
250	250Q	10

ROLLING GATE GROUNDING

As your grounding and bonding experts, we are able to assist you in meeting new requirements when developing and implementing a long-term utility security plan.

BURNDY is constantly innovating and partnering with utility companies and fence manufacturers to keep up on the latest industry trends especially as they pertain to NERC, FERC and the requirements of CIP014. BURNDY products are developed following the guidelines of the NEC and NESC standards for grounding and bonding and are tested to industry standards to certify compliance.



Rolling Gate Grounding System

Festoons are ideal solutions for grounding the moving components of rolling or sliding gates.

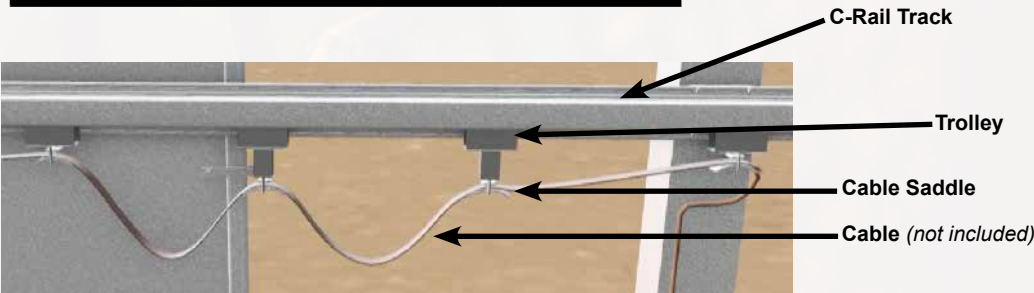
Our festoon system includes C-rail, coupler hangers, tow and intermediate trolleys, end stop, end caps and mounting clamps needed to create a quality, “active” grounding system designed to stand the test of time.

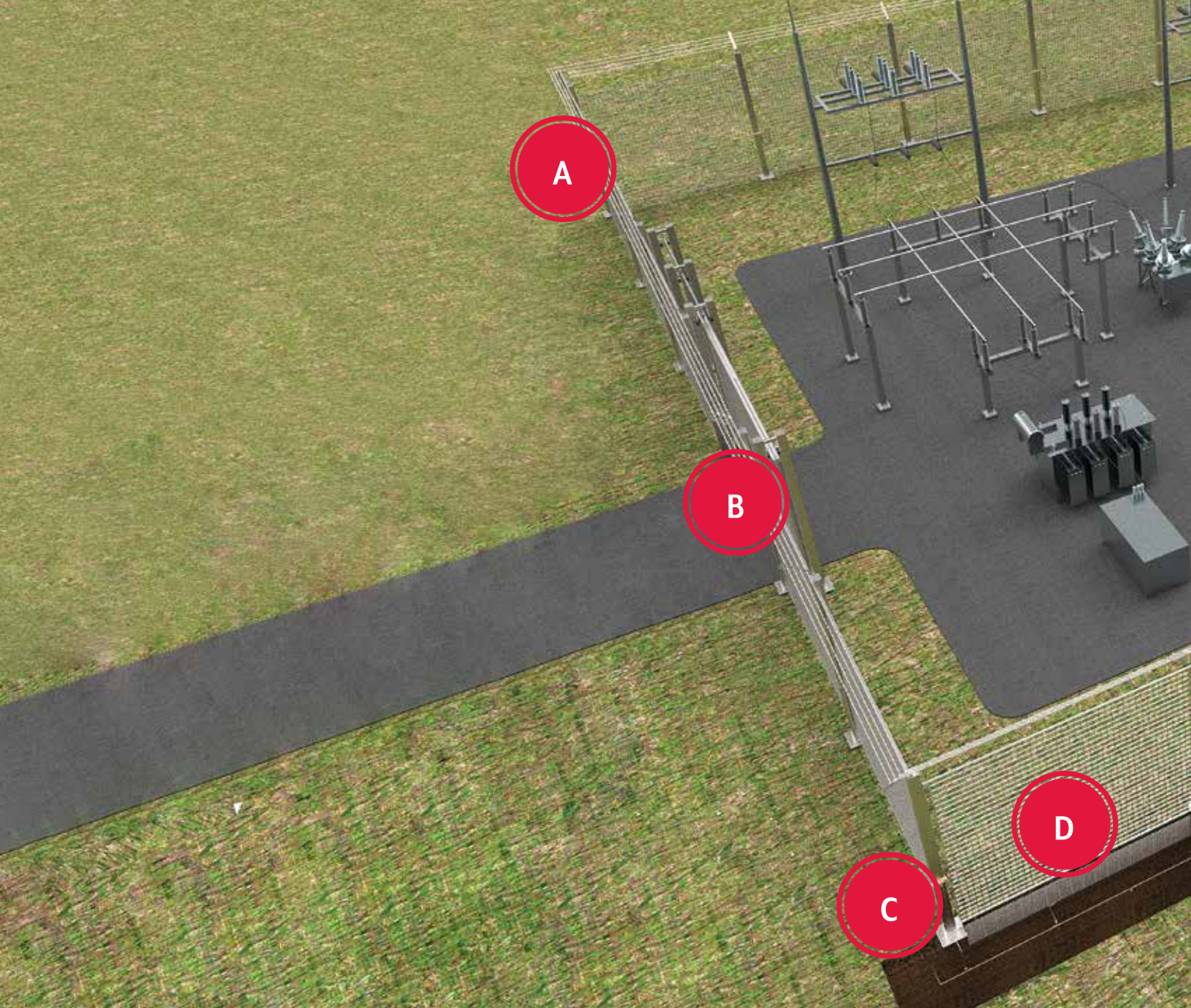
With our festoon system, your valuable conductor is elevated and protects from things like pinch points and theft. BURNDY offers festoon systems in a variety of lengths.



ROLLING GATE GROUNDING

Catalog #	Active Length	Cable O.D.
BCRO2302	10'-10"	0.31-0.59"
BCRO3302	14'-6"	0.62-0.94"
BCRO4302	18'-2"	0.62-0.94"
BCRO5302	21'-9"	0.62-0.94"
BCRO6302	25'-5"	0.62-0.94"





A

Fence Fabric and Barbed Wire Grounding: Allows for proper conductor alignment and the grounding of fence mesh and razor wire.



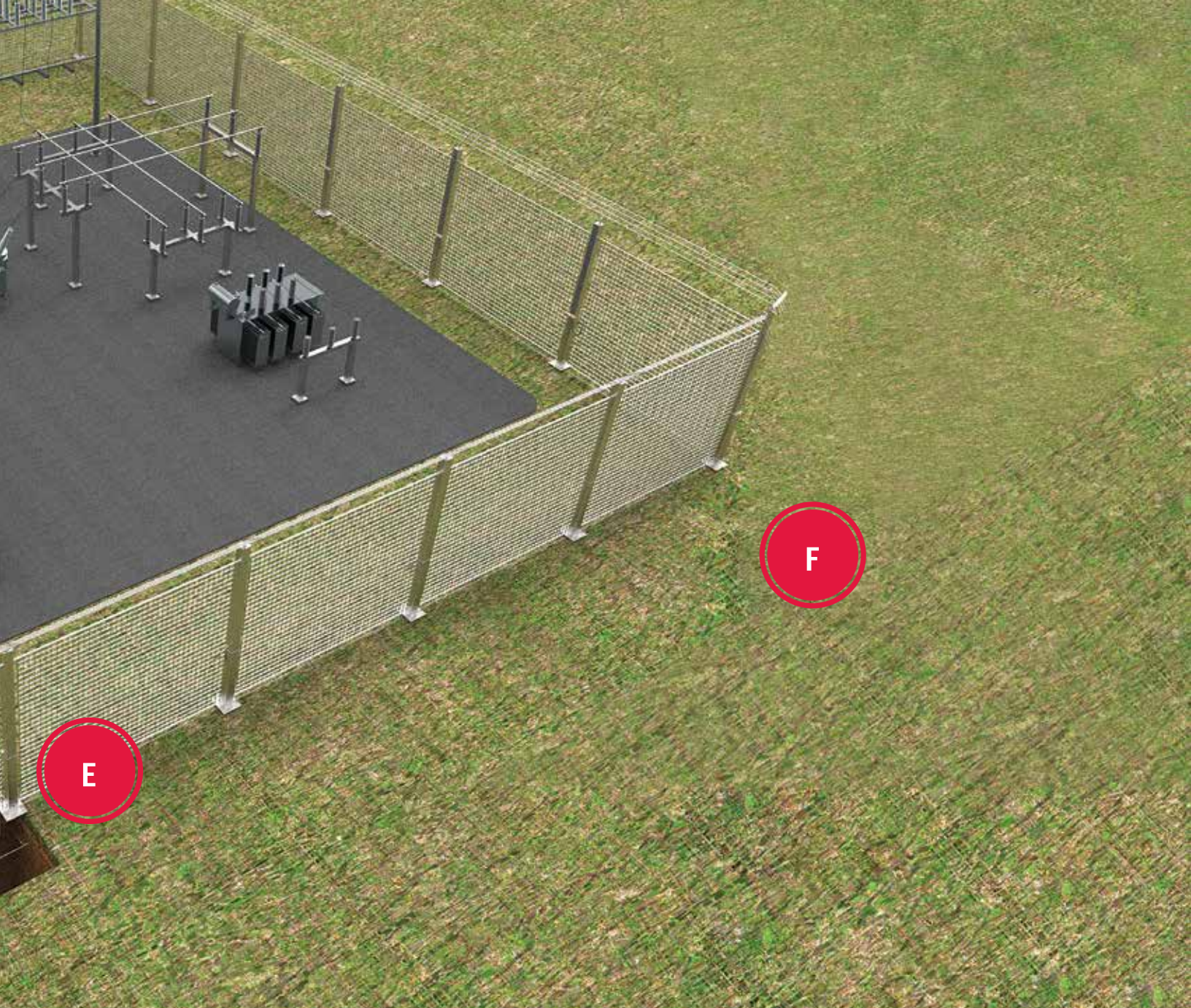
B

Rolling Gate Grounding System: Allows for the grounding of moving components of rolling/sliding gates.



C

8" Fence Post Ground Clamp: Used to ground 8" square terminal posts.



E

F

D



Below Grade Barrier Grounding:
Used as an anti-tunneling theft deterrent. Grounded with catalog #YG14BTC28TPWP.

E



6" Fence Post Ground Clamp: Used to ground 6" square line posts.

F



Ground Grid: BURNDY offers both Compression and Exothermic products to construct your ground grid.

FENCE & FENCE POST GROUNDING

Heavy Duty Square Fence Post Ground Clamps

BURNDY® is pleased to introduce the new square fence post clamps to accommodate 6" square posts and 8" square posts.

Large 6" and 8" square posts are increasingly common for substation security fence applications as well as high security fences surrounding data centers, power plants and other large industrial facilities.

The GA600H30SS & GA800H30SS clamps are supplied with stainless steel hardware. Approved for direct burial in earth or concrete, these heavy duty connectors are another solution found in The Grounding Superstore™.



The new 6" and 8" square clamps are available in unplated and tin-plated versions. Accommodates #4-300 kcmil copper conductor.

6" AND 8" SQUARE FENCE POST

Catalog #	Accommodates		H	Hardware Size	W	Recommended Torque in-lb
	Square Fence Post	Copper Conductor				
GA600H30SS	6"	#4 AWG-300 kcmil	9.38	1/2"	8.38	480 in-lb
GA800H30SS	8"		11.38	1/2"	10.38	480 in-lb

GAR CONNECTOR

Approved for direct burial, the type GAR connector is made of a high copper alloy-cast body supplied with DURIMUM™ silicon bronze U-bolts, nuts and lock washers. The type GAR connector is designed for copper cable connections and fence post grounding connections that are parallel or perpendicular.



BURNDY® BRAID ASSEMBLIES

BURNDY® Braid Assemblies are commonly used as a flexible option at entrance gates. We will help you determine what type of braid will work best in your situation and can custom design and manufacture braid to meet your needs.

BURNDY® Flex Jumpers, made from welding cable, can be used with universal pipe clamps or can be exothermically welded to the fence/gate themselves.

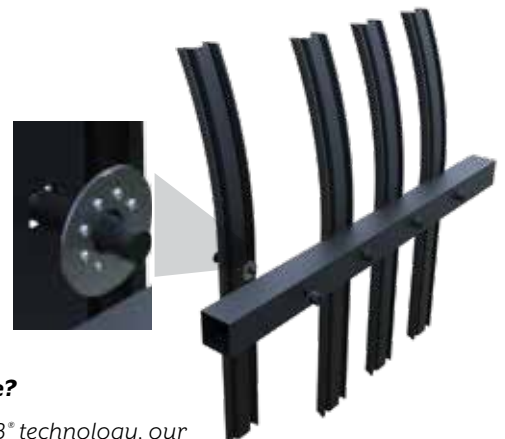
- Substations (jumpers between equipment)
- Fence post grounding (grounds gatepost to gate)



WEEB® GROUNDING LUG AND BONDING WASHERS

The WEEB® Grounding Lug and Bonding Washers allow painted or powder coated fencing to be electrically bonded without the need for removing surface coatings in the field.

- WEEB-DSK38
- WEEB-11.5
- WEEB-LUG-10.3
- WEEB-DPR



Powder coated fence?

No problem. With WEEB® technology, our products can penetrate surface coatings to ensure a proper ground connection.



FENCE FABRIC & RAZOR WIRE MESH

BURNDY® fence fabric connectors are commonly used to ground conductor to fence mesh for compliance with IEEE 80. As an added benefit our new design (Type FFGC) rotates for conductor alignment, ease of install, and lowers the overall length of conductor needed.

FENCE FABRIC AND RAZOR WIRE GROUNDING

Catalog #	Conductor Size	Recommended Torque (in-lb)
FFGC8	#8	67
FFGC6	#6	67
FFGC4	#4	67
FFGC2	#2	67
FFGC2/0	2/0	67



BELOW GROUND BARRIERS

Below grade barriers are commonly used as an anti-trenching theft deterrent. By working closely with utilities and fence manufacturers, BURNDY is able to provide tested solutions such as our YG14BTC28TPWP.

TAKE OFF SERVICES

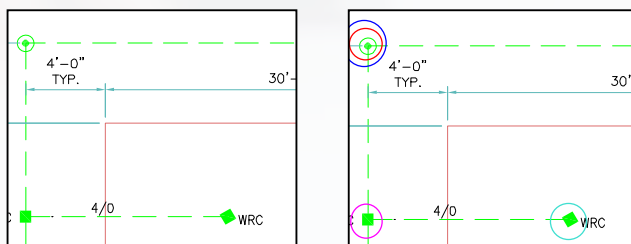
At BURNDY, we are more than just a supplier, we are your technical partner. Our exclusive take off program can arm you with part number level detail for BOM preparation.

- Quick turn around time
- No charge
- Specifications provided for your entire project

ON-SITE TESTING

Problems and hazards within existing infrastructure can crop up at any time. The BURNDY Grounding Services Team has the expertise to remedy the situation.

- **EXAMINE:** Conduct thorough on-site surveys, inspection and testing (grounding & electrical bonding).
- **DIAGNOSE:** Locate the source of the problem that is often difficult to trace and fix. Suggest comprehensive solutions for the health of the grounding system.
- **CURE:** Engage in corrective grounding repair work performance.



Our unique Take Offs raise the bar on the level of detail.

www.burndy.com | 1-800-346-4175

Customer Service Department

7 Aviation Park Drive
Londonderry, NH 03053
1-800-346-4175
1-603-647-5299 (International)

Canada

1-800-361-6975 (Quebec)
1-800-387-6487 (All other provinces)

Mexico

011-52-722-265-4400

Brazil

011-55-11-5515-7225

Tool Service Center

Littleton Industrial Park
Littleton, NH 03561
1-800-426-8720



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