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Burndy GD2029

Burndy GD2029 Cable to Rod/Tube Ground Connector User Manual

Model: GD2029 | Brand: Burndy

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Burndy GD2029 Cable to Rod/Tube Ground Connector. The GD2029 is a high copper alloy ground connector specifically designed for joining a range of two parallel copper cables to a rod or pipe. Its robust construction makes it suitable for various grounding applications, including fence posts, and it is acceptable for direct burial in earth or concrete.



Figure 1: Burndy GD2029 Cable to Rod/Tube Ground Connector. This image displays the high copper alloy connector, featuring its U-bolts, nuts, and lockwashers, designed for secure grounding connections.

2. Safety Information

Always adhere to local electrical codes and safety regulations when installing grounding equipment. Improper installation can lead to serious injury or property damage. This product is UL467 Listed, indicating compliance with safety standards for grounding and bonding equipment.

- Ensure power is disconnected before beginning any installation work.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Verify that the cable and rod/pipe sizes are compatible with the GD2029 connector.
- Do not modify the connector in any way.
- Consult a qualified electrician if you are unsure about any part of the installation process.

3. Components

The Burndy GD2029 connector consists of the following primary components:

- **High Copper Alloy Cast Body:** The main structural component, providing excellent conductivity and corrosion resistance.
- **DURIUM U-bolts:** Specialized U-shaped bolts designed for secure clamping and durability, especially in harsh environments.
- **Nuts and Lockwashers:** Used to fasten the U-bolts, ensuring a tight and reliable connection that resists loosening due to vibration or thermal expansion.

The connector is designed for joining two copper cables to a rod or pipe, ensuring a robust electrical ground connection.

4. Installation Instructions

The Burndy GD2029 is designed for one-wrench installation, simplifying the setup process. Follow these steps for proper installation:

1. **Prepare Surfaces:** Ensure that the surfaces of the copper cables and the grounding rod or pipe are clean and free from dirt, grease, or oxidation. A wire brush can be used to clean the contact areas.
2. **Position Cables and Rod/Pipe:** Place the two parallel copper cables into the designated grooves of the connector body. Position the grounding rod or pipe into the corresponding channel on the opposite side of the connector body.
3. **Insert U-bolts:** Insert the DURIUM U-bolts through the holes in the connector body, ensuring they encompass both the cables and the rod/pipe securely.
4. **Attach Nuts and Lockwashers:** Thread the lockwashers and nuts onto the ends of the U-bolts.
5. **Tighten Connection:** Using a single wrench, progressively tighten the nuts on the U-bolts. Ensure even tightening to apply uniform pressure across the connection. Continue tightening until the connection is firm and secure, providing optimal electrical contact. Do not overtighten, as this can damage the components.
6. **Verify Connection:** After tightening, visually inspect the connection to ensure all components are properly seated and the cables and rod/pipe are firmly held.

This connector is suitable for direct burial in earth or concrete, making it versatile for various grounding applications.

5. Operation and Function

The Burndy GD2029 functions as a critical component in an electrical grounding system. Once properly installed, it provides a low-resistance path for fault currents to dissipate safely into the earth via the grounding rod or pipe. This protects electrical equipment and personnel from potential hazards associated with electrical surges or faults. The high copper alloy construction ensures excellent electrical conductivity and long-term reliability in diverse environmental conditions.

6. Maintenance

The Burndy GD2029 connector is designed for durability and requires minimal maintenance. However, periodic inspection is recommended to ensure continued performance, especially for connectors installed in harsh environments or those subject to direct burial.

- **Visual Inspection:** Periodically inspect the connector for any signs of corrosion, physical damage, or loosening of the nuts.
- **Cleanliness:** If accessible, ensure the area around the connection remains free of debris or corrosive substances.
- **Re-tightening:** If any loosening is observed, re-tighten the nuts to the recommended torque (if specified, otherwise to a firm and secure level).

Given its suitability for direct burial, the DURIUM U-bolts, nuts, and lockwashers are designed to resist corrosion in ground or concrete environments, reducing the need for frequent maintenance.

7. Troubleshooting

As a passive electrical connector, the GD2029 typically does not experience "malfunctions" in the traditional sense. Most issues relate to improper installation or external factors.

Problem	Possible Cause	Solution
Poor Grounding Performance	Loose connection, corroded contact surfaces, incorrect cable/rod size, inadequate grounding system design.	Ensure nuts are securely tightened. Clean contact surfaces before installation. Verify cable and rod/pipe compatibility. Consult an electrical professional to assess the overall grounding system.
Physical Damage to Connector	Overtightening during installation, external impact, severe environmental conditions.	Replace the damaged connector. Ensure proper torque during installation. Protect exposed connectors from physical impact.

8. Specifications

Key technical specifications for the Burndy GD2029 Cable to Rod/Tube Ground Connector:

- **Model Number:** GD2029
- **Product Type:** Cable to Rod/Tube Ground Connector
- **Material:** High Copper Alloy body with DURIUM U-bolts, nuts, and lockwashers
- **Cable Compatibility:** Designed for two copper cables (specific range not provided in source, but generally 2/0 Sol. - 250 Cable based on product title)
- **Rod/Pipe Compatibility:** For rod or pipe grounding applications
- **Installation:** One-wrench installation
- **Suitability:** Acceptable for direct burial in earth or concrete
- **Certifications:** UL467 Listed
- **Product Dimensions:** 1 x 1 x 1 inches (approximate, as per product data)
- **Item Weight:** 1 Pound (approximate, as per product data)

9. Warranty and Support

For information regarding warranty coverage, technical support, or replacement parts for your Burndy GD2029 connector, please contact Burndy customer service or visit the official Burndy website. Keep your purchase receipt for

warranty claims.
Official Burndy Website: www.burndy.com

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