Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Burndy GD2029

BURNDY GD2029 Mechanical Grounding Connector User Manual

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of the BURNDY GD2029 Mechanical Grounding Connector. Please read this manual thoroughly before using the product to ensure proper application and to prevent potential hazards.

2. Product Description

The BURNDY GD2029 is a high-quality mechanical grounding connector designed for reliable electrical grounding applications. It is constructed from copper, ensuring excellent conductivity and corrosion resistance. This connector is suitable for connecting a 3 to 3-1/2 inch rod to a 2/0 AWG to 250 kcmil conductor.



Figure 1: The BURNDY GD2029 Mechanical Grounding Connector, showing its copper construction and U-bolt design.

3. Safety Information

Always prioritize safety when working with electrical components. Failure to follow these safety guidelines may result in serious injury or property damage.

- **Disconnect Power:** Ensure all power sources are disconnected and locked out before beginning any installation or maintenance work.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including insulated gloves, safety glasses, and protective clothing.
- **Qualified Personnel:** Installation and maintenance should only be performed by qualified and trained electrical personnel.
- **Proper Tools:** Use only insulated and appropriate tools for the task.
- **Inspect Components:** Before installation, inspect the connector for any signs of damage or defects. Do not use damaged components.
- **Proposition 65 Warning:** This product may expose you to chemicals known to the State of California to

cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

4. Components

The BURNDY GD2029 Mechanical Grounding Connector typically consists of the following parts:

- **Connector Body:** The main copper casting that houses the conductor and rod.
- **U-Bolt:** A U-shaped bolt that secures the rod and conductor within the connector body.
- **Nuts and Washers:** Used to tighten the U-bolt, applying pressure to secure the connection.

5. Setup and Installation

Follow these steps for proper installation of the BURNDY GD2029 Mechanical Grounding Connector:

1. **Prepare Surfaces:** Ensure the grounding rod and conductor surfaces are clean, free of oxidation, dirt, or grease. Use a wire brush if necessary.
2. **Position Connector:** Place the connector body onto the grounding rod (3 to 3-1/2 inch diameter).
3. **Insert Conductor:** Insert the conductor (2/0 AWG to 250 kcmil) into the designated groove within the connector body. Ensure full contact.
4. **Install U-Bolt:** Position the U-bolt over the conductor and rod, aligning its threaded ends with the holes in the connector body.
5. **Secure with Nuts:** Thread the nuts onto the U-bolt ends. Tighten the nuts evenly using a wrench.
6. **Apply Torque:** Apply the recommended torque to the nuts to ensure a secure and low-resistance connection. Refer to industry standards or specific torque values provided by BURNDY if available. Over-tightening or under-tightening can compromise the connection.
7. **Verify Connection:** After tightening, visually inspect the connection to ensure the conductor and rod are firmly seated and the connector is properly aligned.

6. Operating Principles

Once properly installed, the BURNDY GD2029 Mechanical Grounding Connector functions by providing a secure, low-resistance electrical path between the grounding rod and the conductor. This connection is crucial for dissipating fault currents safely into the earth, protecting electrical systems and personnel from overcurrents and transient voltages.

7. Maintenance

Regular inspection and maintenance are vital to ensure the long-term integrity and performance of your grounding system.

- **Periodic Inspection:** Annually, or more frequently in harsh environments, inspect the connector for signs of corrosion, loosening, or physical damage.
- **Cleanliness:** Keep the area around the connector clean and free of debris.
- **Re-tightening:** If any loosening is detected, re-tighten the nuts to the specified torque.
- **Corrosion:** If corrosion is present, clean the affected areas and apply appropriate corrosion inhibitors if necessary. Replace severely corroded connectors.

8. Troubleshooting

While the GD2029 connector is designed for reliability, issues can arise from improper installation or environmental factors.

- **High Resistance Connection:**
  - *Possible Cause:* Insufficient torque during installation, dirty contact surfaces, or corrosion.
  - *Solution:* Disconnect power, clean contact surfaces, and re-tighten to proper torque. Replace if corrosion is severe.
- **Physical Damage:**
  - *Possible Cause:* External impact or excessive stress.
  - *Solution:* Replace the damaged connector immediately.

9. Specifications

Key specifications for the BURNDY GD2029 Mechanical Grounding Connector:

Attribute	Value
Brand	Burndy
Model Number	BUR GD2029
Item Weight	1 Pounds
Material	Copper
Contact Material	Copper
Terminal Type	Ring Terminal
Rod Size Compatibility	3 to 3-1/2 inches
Conductor Size Compatibility	2/0 AWG to 250 kcmil
Unit Count	1.00 Count

10. Warranty and Support

For information regarding product warranty, technical support, or replacement parts, please contact BURNDY customer service directly. Refer to the official BURNDY website or product packaging for the most current contact details.

BURNDY Official Website: www.burndy.com

© 2023 BURNDY. All rights reserved. Information subject to change without notice.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B07RLVMSR4

More documents and user manuals: **https://manuals.plus/**