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Burndy BF18

Burndy BF18 Flexible Copper Braid Instruction Manual

Model: BF18

1. Product Overview

The Burndy BF18 Flexible Copper Braid is engineered to provide flexible electrical connections in various industrial applications. It is specifically designed to accommodate linear expansion and contraction, compensate for misalignment, and absorb vibratory movement in electrical equipment and devices. Constructed from flat, extra flexible, tinned, pure copper braid, it features unplated, seamless, pure copper ferrules formed into a rectangular shape at each end for secure connections.

- Flexible copper braid construction.
- Designed to manage linear expansion and contraction.
- Compensates for misalignment in electrical systems.
- Absorbs vibratory movement, enhancing equipment longevity.
- Made of flat, extra flexible, tinned, pure copper braid.
- UL Listed for safety and performance.
- CSA Certified, meeting Canadian standards.

2. Safety Information

WARNING: This product can expose you to chemicals which are 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. Always follow local electrical codes and safety guidelines when installing or working with electrical components. Ensure power is disconnected before installation.

3. What's in the Box

Each package contains:

- 1 x Burndy BF18 Flexible Copper Braid

Note: The term "Tool" in some packaging refers to the component itself, not an installation tool.

4. Installation and Setup

The Burndy BF18 flexible copper braid is designed for straightforward installation as a jumper or connector in electrical systems. Proper installation ensures optimal performance and safety.

1. **Preparation:** Ensure all power to the electrical equipment or device is completely disconnected and locked out before beginning installation. Verify the connection points are clean, dry, and free from corrosion.
2. **Positioning:** Align the rectangular ferrules of the BF18 braid with the corresponding connection points. The flexible nature of the braid allows for compensation of minor misalignments.
3. **Securing Connections:** Use appropriate fasteners (e.g., bolts, nuts, washers) to secure the ferrules to the connection terminals. Ensure a tight and secure electrical contact. Refer to the technical drawing for hole spacing and dimensions.
4. **Verification:** After securing, visually inspect the installation to ensure the braid is not twisted or under undue mechanical stress. Confirm all connections are firm.
5. **Testing:** Once installation is complete and verified, restore power and test the electrical system according to standard safety procedures.



Figure 1: Burndy BF18 Flexible Copper Braid. This image shows the copper braid with its two rectangular ferrules, each featuring a bolt hole, and two associated connection clamps for securing the braid.

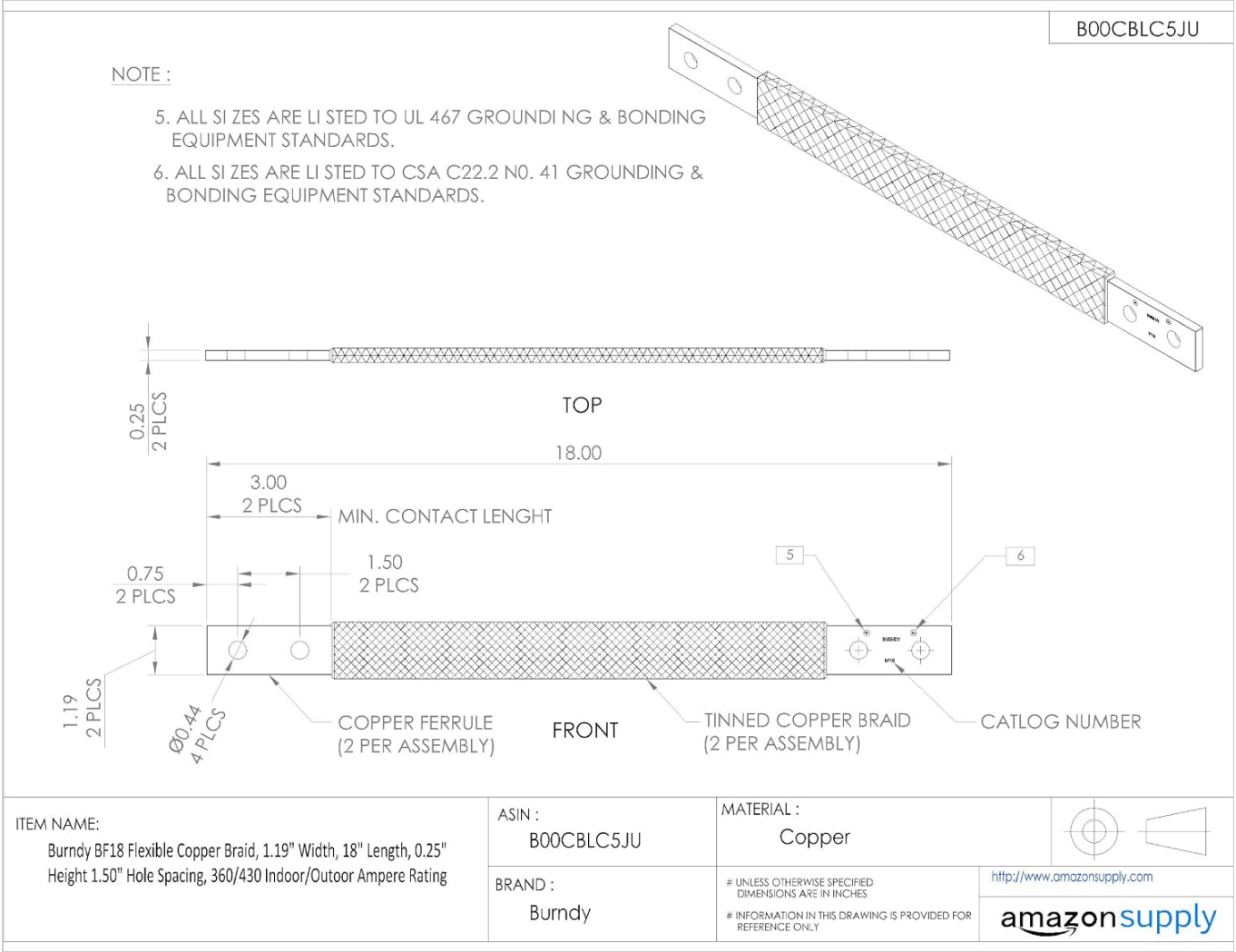


Figure 2: Technical drawing of the Burndy BF18 Flexible Copper Braid. This diagram provides detailed dimensions including width (1.19"), length (18"), height (0.25"), and hole spacing (1.50"), along with notes on UL and CSA certification for grounding and bonding equipment standards.

5. Operating Principles

The Burndy BF18 functions as a flexible electrical conductor designed to mitigate mechanical stresses on rigid electrical connections. Its braided copper construction allows it to flex and absorb movements that would otherwise damage solid conductors or rigid busbars. This includes:

- **Linear Expansion and Contraction:** Accommodates changes in length due to thermal expansion or contraction of connected equipment.
- **Misalignment Compensation:** Bridges gaps or compensates for slight misalignments between components, simplifying installation and reducing stress.
- **Vibration Absorption:** Dampens vibrations transmitted from machinery, protecting sensitive electrical components from fatigue and failure.

The tinned copper braid ensures excellent conductivity and corrosion resistance, while the pure copper ferrules provide robust termination points.

6. Maintenance

The Burndy BF18 flexible copper braid is designed for long-term, maintenance-free operation under normal conditions. However, periodic inspection is recommended to ensure continued performance and safety.

- **Visual Inspection:** Regularly check the braid and its connection points for any signs of wear, corrosion, discoloration (indicating overheating), or mechanical damage.
- **Connection Integrity:** Ensure that the fasteners securing the braid remain tight. Loose connections can lead to increased resistance, heat buildup, and potential failure.
- **Environmental Factors:** If installed in harsh environments (e.g., high humidity, corrosive atmospheres), more frequent inspections may be necessary.
- **Cleaning:** If necessary, gently clean the surface of the braid and ferrules with a dry, non-abrasive cloth. Do not use harsh chemicals or abrasive materials.

If any damage or significant wear is observed, the braid should be replaced immediately by a qualified professional.

7. Troubleshooting

As a passive electrical component, the Burndy BF18 typically does not require active troubleshooting. Most issues arise from improper installation or external factors.

Problem	Possible Cause	Solution
Overheating at connection points	Loose connections, insufficient contact area, undersized braid for current load.	Ensure connections are tight and clean. Verify the braid's ampere rating is suitable for the application. Consult an electrician if unsure.
Visible damage to braid (fraying, breakage)	Excessive mechanical stress, improper handling during installation, fatigue from extreme vibration.	Replace the damaged braid. Re-evaluate the installation to prevent recurrence of stress or vibration issues.
Corrosion on braid or ferrules	Exposure to moisture or corrosive agents.	Clean affected areas if minor. Replace if corrosion is significant. Consider protective measures for the environment.

For any issues not listed or if problems persist, consult a qualified electrical professional.

8. Specifications

Attribute	Detail
Brand	Burndy
Model Number	BF18
Material	Copper
Width	1.19 inches
Length	18 inches
Height	0.25 inches
Hole Spacing	1.50 inches

Attribute	Detail
Ampere Rating (Indoor/Outdoor)	360/430 Amperes
Certifications	UL Listed, CSA Certified
Package Dimensions	8 x 8 x 8 inches
Item Weight	2 Pounds

9. Warranty and Support

Burndy products are manufactured to high quality standards. For specific warranty information and technical support, please refer to the official Burndy website or contact their customer service department. Keep your purchase receipt for warranty claims.
For further assistance, you may visit the manufacturer's website or contact their authorized distributors.

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