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Burndy KS15

Burndy KS15 Copper Split Bolt Instruction Manual

Model: KS15

1. Introduction and Product Overview

The Burndy KS15 Servit Split-Bolt is a compact, high-strength connector crafted from high copper alloy. It is specifically designed for connecting two copper conductors in splice or tap configurations, suitable for both power and grounding applications. Its robust construction ensures maximum pressure and a secure connection for various conductor combinations.

This connector features free-running threads and easy-to-grip wrench flats, facilitating straightforward installation. It is highly resistant to season cracking and corrosion, ensuring long-term reliability. The KS15 is UL Listed for power and grounding and is rated for direct burial in earth or concrete, making it ideal for demanding environments.

2. Safety Information

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

- **Disconnect Power:** Ensure all power to the circuit is disconnected and locked out before beginning any installation or maintenance.
- **Qualified Personnel:** Installation should only be performed by qualified electricians or personnel with appropriate training and knowledge of electrical systems.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including insulated gloves, safety glasses, and non-conductive footwear.
- **Inspect Components:** Before installation, visually inspect the connector for any damage or defects. Do not use damaged components.
- **Proper Sizing:** Ensure the conductor sizes are within the specified range for the KS15 connector to ensure a safe and secure connection.
- **Environmental Conditions:** While rated for direct burial, ensure the installation environment is free from excessive moisture or corrosive agents beyond the product's intended use.

3. Product Features

- High copper alloy construction for superior conductivity and strength.
- Designed for connecting two copper conductors in splice or tap configurations.

- Accommodates copper wires #10 STR - #8 STR in equal run and tap configurations.
- Can accommodate #14 STR with maximum wire size.
- UL Listed for power and grounding applications.
- Direct Burial Rated for Earth and Concrete.
- Features free-running threads and easy-to-grip wrench flats for simple installation.
- Highly resistant to season cracking and corrosion.

4. Installation (Setup and Operating Principles)

The Burndy KS15 split-bolt connector is designed for straightforward installation to create secure electrical connections. Follow these steps for proper setup and operation:

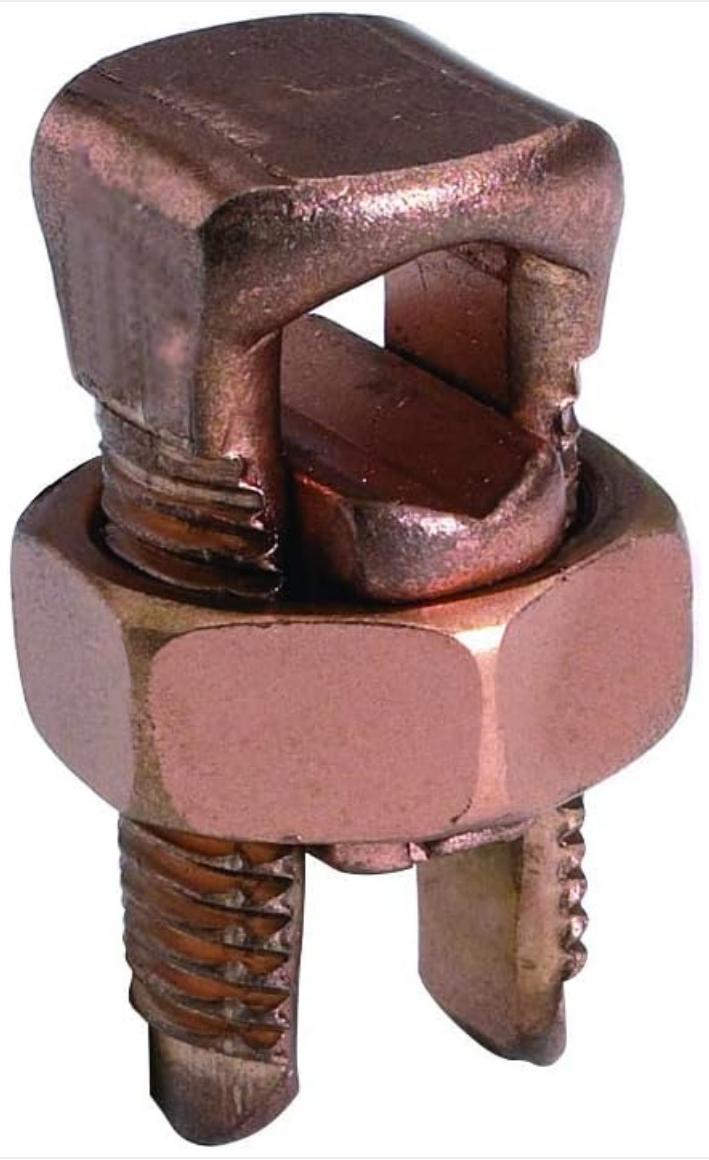


Figure 4.1: The Burndy KS15 Copper Split Bolt Connector. This image shows the compact design with the main bolt and nut, and the split opening for conductor insertion.

1. **Prepare Conductors:** Strip the insulation from the ends of the copper conductors to be joined, ensuring enough bare wire to fully insert into the connector's channels. Ensure the conductors are clean and free of oxidation.
2. **Insert Conductors:** Loosen the nut on the split-bolt connector. Insert one conductor into each side of the split-bolt, ensuring they are fully seated within the channels. The design allows for parallel insertion of two conductors.
3. **Tighten Connection:** Using an appropriate wrench on the wrench flats, tighten the nut firmly. Continue tightening until the conductors are securely gripped and there is no movement. The free-running threads facilitate smooth tightening. Refer to

local electrical codes for specific torque requirements if applicable.

4. **Verify Connection:** After tightening, gently tug on each conductor to ensure a secure mechanical connection. There should be no slippage.
5. **Insulate (if not direct burial):** If the connection is not being directly buried or is exposed, insulate the entire connector and exposed wire ends with appropriate electrical tape or heat shrink tubing to prevent accidental contact and short circuits.
6. **Direct Burial Application:** For direct burial in earth or concrete, ensure the connection is properly sealed and protected according to local codes and best practices for underground installations. The KS15 is rated for this application.

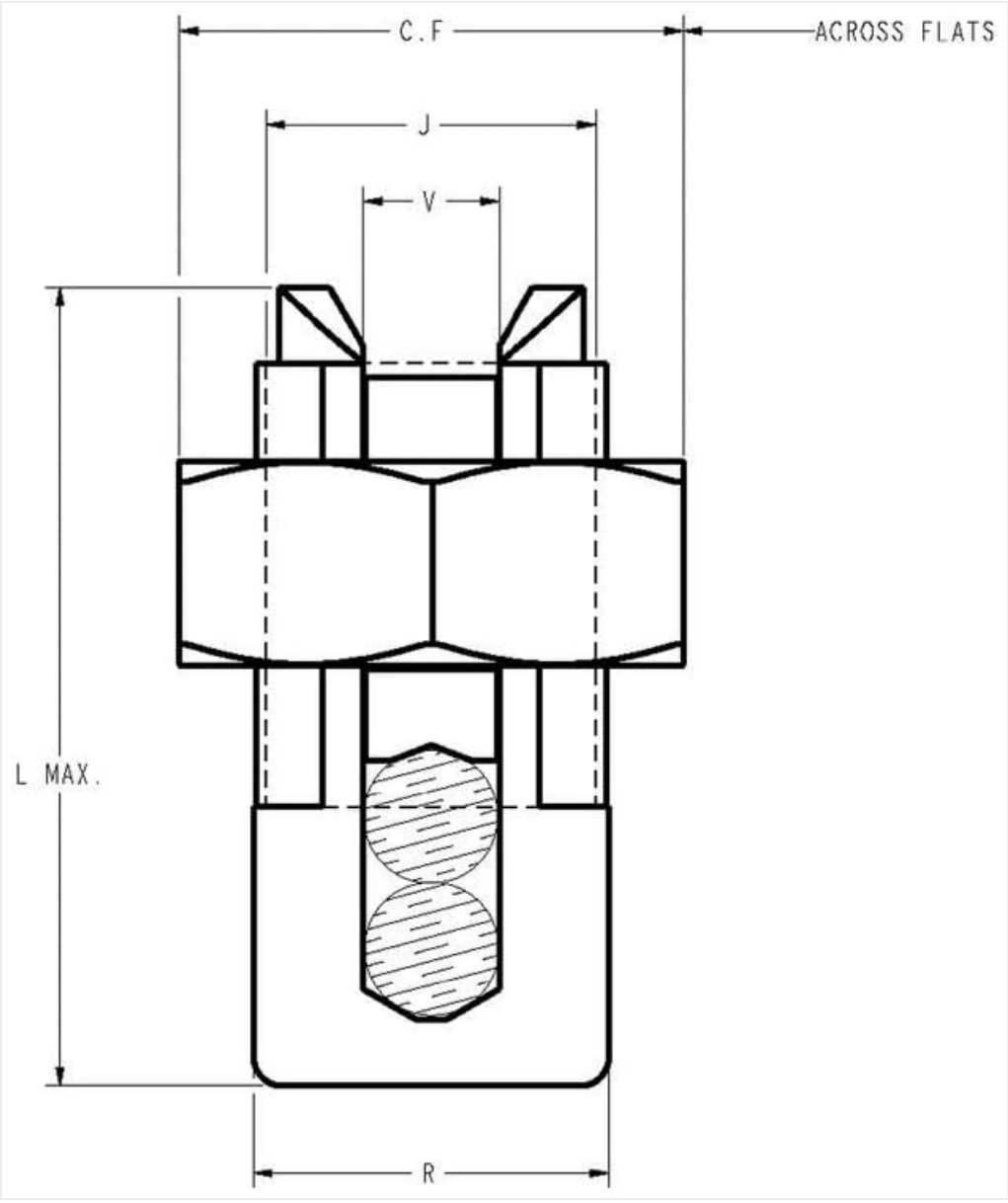


Figure 4.2: Technical diagram illustrating the dimensions and conductor placement within the Burndy KS15 split-bolt connector. This diagram shows how conductors are seated and the overall structure.

5. Maintenance

The Burndy KS15 split-bolt connector is designed for long-term, maintenance-free operation once properly installed. Due to its direct burial rating and robust construction, ongoing maintenance is minimal.

- **Periodic Inspection:** For accessible connections, periodic visual inspection is recommended to ensure the connection remains secure and free from environmental damage or corrosion.
- **Environmental Factors:** While resistant to corrosion, extreme or unusual environmental conditions may warrant more frequent checks if the connection is exposed.

- **No Lubrication Required:** The free-running threads do not require lubrication.

6. Troubleshooting

Most issues with split-bolt connectors arise from improper installation. If you encounter problems, consider the following:

- **Loose Connection:** If the connection feels loose or there is intermittent power, the nut may not have been tightened sufficiently. Disconnect power, re-tighten the nut firmly, and re-verify.
- **Overheating:** An overheating connection indicates high resistance, often due to a loose connection, improper wire sizing, or corrosion. Disconnect power immediately. Inspect the connection for proper wire insertion and tightness. Ensure the wire gauge is appropriate for the current load and within the connector's specifications.
- **Corrosion:** While the KS15 is corrosion-resistant, severe environmental conditions or improper sealing in direct burial applications can lead to corrosion. If corrosion is present, the connector should be replaced after disconnecting power.
- **Damaged Connector:** If the connector appears physically damaged (e.g., cracked, bent), it must be replaced. Do not attempt to repair it.

If troubleshooting does not resolve the issue, consult a qualified electrician.

7. Specifications

Attribute	Detail
Manufacturer	Burndy
Part Number	KS15
Item Model Number	KS15
Material	Copper
Color	Copper
Item Weight	0.48 ounces
Product Dimensions	0.85 x 0.57 x 0.57 inches
Head Style	Split Bolt
Item Package Quantity	1
Certification	UL Listed, CSA Certified, Direct Burial
Usage	Commercial
Accommodates Wire Sizes	#10 STR - #8 STR (equal run/tap), #14 STR (with max wire size)

8. Warranty and Support

The Burndy KS15 Copper Split Bolt comes with a **Limited Warranty**. For specific details regarding the terms and conditions of the warranty, please refer to the official Burndy warranty documentation or contact Burndy customer support.

For technical assistance, product inquiries, or support, please visit the official Burndy website or contact their customer service department. Always provide the model number (KS15) when seeking support.

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