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Burndy KS31

Burndy KS31 Split-Bolt Connector User Manual

Model: KS31

Introduction

The Burndy KS31 Split-Bolt Connector is a high-quality, durable copper connector designed for reliable electrical connections. It is engineered to join copper conductors ranging from 1/0 Stranded to 350 Kcmil, providing a secure and efficient splice. This manual provides essential information for the safe and proper installation and use of the KS31 connector.

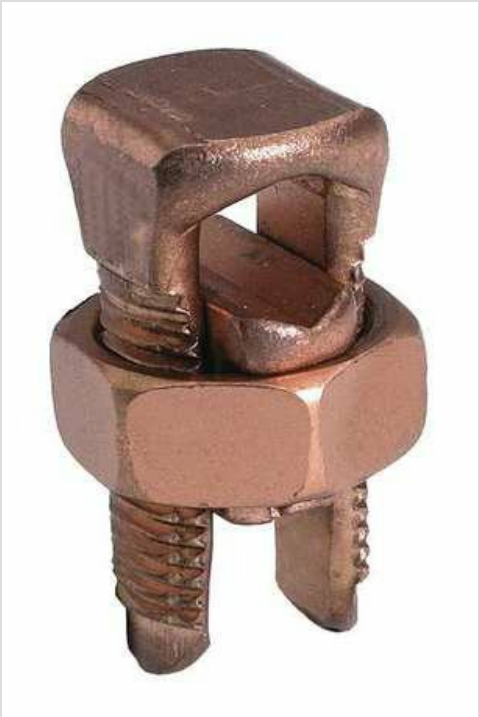


Image: Burndy KS31 Split-Bolt Connector. This image displays the copper-colored split-bolt connector, highlighting its robust construction with a central threaded bolt and a hexagonal nut, and the split body designed to secure electrical conductors.

Safety Information

Always adhere to local electrical codes and safety regulations when working with electrical components. Failure to do so may result in serious injury or property damage.

- Ensure power is disconnected before beginning any installation or maintenance.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.

- Use only tools designed for electrical work.
- Verify the connector is suitable for the specific wire gauges and types being joined.
- Do not overtighten the bolt, as this can damage the conductor or the connector.
- Inspect the connector and conductors for any damage before installation.

Components

The Burndy KS31 Split-Bolt Connector consists of the following primary components:

- **Split Body:** The main copper casting with a split design to accommodate conductors.
- **Threaded Bolt:** Integrated into one half of the split body, designed to engage with the nut.
- **Hexagonal Nut:** Used to tighten the split body around the conductors, ensuring a secure connection.

Setup and Installation

Follow these steps for proper installation of the Burndy KS31 Split-Bolt Connector:

1. **Prepare Conductors:** Strip the insulation from the ends of the conductors to be joined, ensuring enough bare wire is exposed to fit fully within the connector's gripping area. Clean the conductors if necessary to remove any oxidation or debris.
2. **Position Conductors:** Loosen the hexagonal nut on the split-bolt connector sufficiently to open the split body. Insert one conductor into each side of the split body. Ensure the conductors are fully seated and make good contact with the connector's internal surfaces.
3. **Tighten Connection:** Using an appropriate wrench, gradually tighten the hexagonal nut. Alternate between tightening and checking the alignment of the conductors. Continue tightening until the conductors are firmly gripped and a secure electrical connection is established. Refer to manufacturer specifications for recommended torque values if available.
4. **Inspect Connection:** After tightening, visually inspect the connection to ensure the conductors are securely held and there are no exposed strands or loose connections. The connector should be snug and stable.
5. **Insulate (if required):** If the connection is not in an insulated enclosure, apply appropriate electrical tape or heat-shrink tubing to insulate the exposed connector and conductor ends, ensuring full coverage and protection from environmental factors.

Operating

Once properly installed, the Burndy KS31 Split-Bolt Connector provides a permanent and reliable electrical splice. It is designed to maintain a low-resistance connection under various operating conditions, ensuring efficient power transmission between the joined conductors. No ongoing operational steps are required after installation.

Maintenance

The Burndy KS31 Split-Bolt Connector is designed for long-term, maintenance-free operation once properly installed. Periodic inspection of the connection point is recommended, especially in environments subject to vibration, extreme temperatures, or corrosive elements. Look for signs of corrosion, loosening, or overheating. If any issues are observed, disconnect power and re-evaluate the connection or replace the connector if necessary.

Troubleshooting

Most issues related to split-bolt connectors stem from improper installation. If a problem is suspected, always disconnect power before inspection.

- **Loose Connection:** If the connection feels loose or shows signs of arcing/overheating, it may not have been tightened sufficiently. Disconnect power, re-tighten the nut to the appropriate torque, and re-insulate if necessary.
- **Corrosion:** In corrosive environments, the copper may oxidize. Ensure the connection is properly insulated and protected from moisture and chemicals. Clean any visible corrosion and re-insulate.
- **Incorrect Wire Gauge:** Ensure the conductors used are within the specified range (1/0 Stranded to 350 Kcmil) for the KS31 connector. Using wires outside this range can lead to poor contact or damage.

Specifications

Feature	Detail
Model	KS31
Brand	Burndy
Conductor Range	1/0 Stranded to 350 Kcmil
Material	Copper
Product Dimensions	2.6 x 2 x 2 inches
Weight	1 Pound
Manufacturer	Burndy Llc
ASIN	B00BKAE474

Warranty and Support

Information regarding specific warranty terms or direct support contacts for the Burndy KS31 Split-Bolt Connector is not provided in this manual. For warranty claims or technical assistance, please refer to the official Burndy website or contact your authorized distributor.

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