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Burndy KS31

Burndy KS31 Servit Split-Bolt User Manual

Model: KS31 | Brand: Burndy

Product Overview

The Burndy KS31 Servit Split-Bolt is a compact, high-strength connector made from high copper alloy. It features free-running threads and easy-to-grip wrench flats, designed for secure electrical connections. This split-bolt is highly resistant to season cracking and corrosion, ensuring maximum pressure and a reliable connection for various combinations of run and tap conductors. The Type KS-3 accommodates up to three maximum size conductors.

- Servit split-bolt design for robust connections.
- Constructed from high copper alloy for durability and conductivity.
- Features free-running threads and wrench flats for easy installation.
- Provides secure connection on all combinations of run and tap conductors.
- Resistant to season cracking and corrosion.

Setup and Installation

Proper installation of the Burndy KS31 Servit Split-Bolt is crucial for ensuring a safe and reliable electrical connection. Always ensure power is disconnected before beginning any electrical work.

1. **Prepare Conductors:** Strip insulation from the run and tap conductors to the appropriate length, ensuring clean, bare copper is exposed.
2. **Insert Conductors:** Loosen the split-bolt sufficiently to allow insertion of the run conductor into the main channel and the tap conductor(s) into the side channel(s). Ensure conductors are fully seated.
3. **Tighten Bolt:** Using a suitable wrench, tighten the nut on the split-bolt. Apply the recommended tightening torque of 650 in-lbs (73.4 Nm) to ensure maximum pressure and a secure connection. The free-running threads facilitate smooth tightening.
4. **Verify Connection:** After tightening, visually inspect the connection to ensure conductors are firmly gripped and no strands are loose.
5. **Insulate:** Once the connection is secure, insulate the entire assembly with appropriate electrical tape or heat shrink tubing to prevent accidental contact and short circuits.

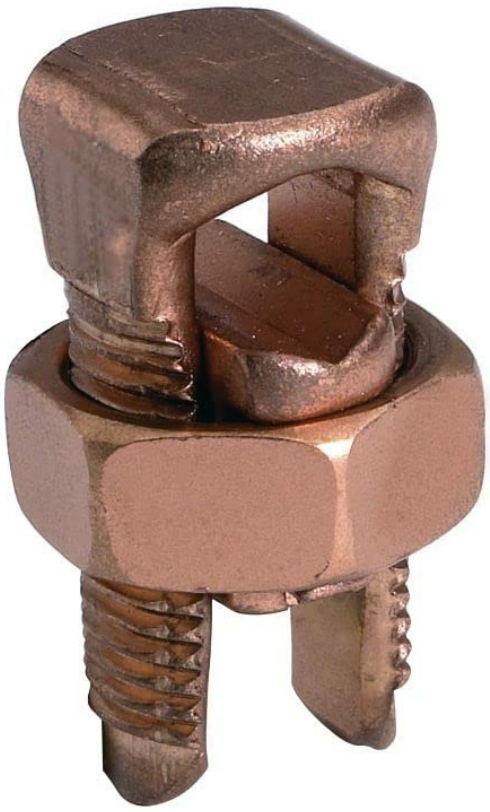


Figure 1: Front view of the Burndy KS31 Servit Split-Bolt, showing the main body and tightening nut.

Operating Principles

The Burndy KS31 Servit Split-Bolt operates by creating a high-pressure mechanical and electrical connection between two or more conductors. When the nut is tightened, the split-bolt compresses around the conductors, establishing a low-resistance electrical path. Its high copper alloy construction ensures excellent conductivity and minimizes heat buildup during current flow. The design allows for a secure tap connection from a main run conductor.

Maintenance

The Burndy KS31 Servit Split-Bolt is designed for long-term, maintenance-free operation once properly installed. However, periodic inspection of electrical connections is a good practice to ensure continued safety and performance.

- **Visual Inspection:** Periodically check the connection for any signs of corrosion, overheating (discoloration), or physical damage.
- **Tightness Check:** If accessible and safe to do so (with power off), gently check the tightness of the bolt. Do not

overtighten.

- **Environmental Protection:** Ensure the connection remains protected from moisture and harsh environmental conditions, especially if installed outdoors or in damp locations.



Figure 2: Two Burndy Servit Split-Bolts, illustrating the design across different sizes.

Troubleshooting

While the Burndy KS31 Servit Split-Bolt is a reliable component, issues can arise from improper installation or external factors. Always ensure power is off before attempting any troubleshooting.

Problem	Possible Cause	Solution
Loose Connection / High Resistance	Insufficient tightening torque; improper conductor seating; conductor corrosion.	Disconnect power, re-seat conductors, and re-tighten to recommended torque (650 in-lbs). Clean conductors if corroded.
Overheating at Connection Point	Loose connection; undersized conductors for current load; environmental factors.	Verify proper tightening. Ensure conductors are appropriately sized for the circuit. Improve ventilation or environmental protection if needed.
Corrosion on Split-Bolt	Exposure to moisture or corrosive agents; damaged insulation.	Ensure proper insulation of the connection. If severe, replace the split-bolt and improve environmental protection.

Specifications

Attribute	Value
Model Number	KS31
Brand	Burndy
Material	Copper
Product Dimensions	2 x 1.8 x 2 inches; 11.84 ounces
Recommended Tightening Torque	650 in-lbs
Minimum Tap with Maximum Run	1/0 Str.
Thread Size	1/4-20 UNC
Exterior Finish	Copper
Country of Origin	USA
Date First Available	April 12, 2013

Warranty and Support

For specific warranty information regarding the Burndy KS31 Servit Split-Bolt, please refer to the official Burndy website or contact Burndy customer support directly. Warranty terms and conditions may vary.

For technical assistance or further inquiries, please contact Burndy customer service. Always ensure you have the product model number (KS31) available when seeking support.
You can find more information about Burndy products on their official website or through authorized distributors.Visit the Burndy brand page on Amazon.

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