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# Southwire SB2/0-2C Split Bolt Connector

## Instruction Manual

### INTRODUCTION

This manual provides instructions for the safe and effective use of the Southwire SB2/0-2C Copper Alloy Split Bolt Connector. This connector is designed for splicing, tapping, and terminating electrical conductors in various applications, including grounding systems. Please read all instructions carefully before installation and use.

### SAFETY INFORMATION

**WARNING: Electrical shock hazard. Always disconnect power before installing or servicing electrical connectors. Installation should only be performed by qualified personnel in accordance with all national and local electrical codes.**

- Ensure all power sources are de-energized and locked out before beginning work.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.
- Verify that the wire gauges and types are compatible with the connector specifications.
- Do not exceed the rated voltage or temperature limits of the connector.

### SETUP AND INSTALLATION

The Southwire SB2/0-2C Split Bolt Connector is suitable for #2 STR - #2/0 STR (stranded) equal run and tap applications. The minimum tap wire size with a maximum main wire is #14 SOL/STR (solid/stranded).

1. **Prepare Wires:** Strip the insulation from the ends of the conductors to be joined, ensuring enough bare wire is exposed to fully engage within the connector body. Clean any oxidation from the conductors.
2. **Insert Wires:** Loosen the split bolt sufficiently to allow insertion of the main conductor into the larger groove and the tap conductor into the smaller groove. Ensure both conductors are fully seated.
3. **Tighten Connector:** Using an appropriate wrench, tighten the split bolt nut. Apply firm, even pressure. Continue tightening until the conductors are securely clamped and the bolt is snug. Over-tightening can damage conductors; under-tightening can lead to poor electrical contact and overheating. Refer to local electrical codes for specific torque requirements if available.

**4. Insulate Connection:** After ensuring a secure mechanical and electrical connection, insulate the entire connector and exposed conductors using appropriate electrical tape or heat-shrink tubing to prevent accidental contact and environmental exposure.



An image showing the Southwire SB2/0-2C Split Bolt Connector, a copper alloy device designed for splicing and tapping electrical conductors.

## OPERATING INSTRUCTIONS

Once properly installed and insulated, the Southwire SB2/0-2C Split Bolt Connector functions as a passive electrical connection. Its operation is dependent on correct installation to maintain a low-resistance electrical path between the joined conductors. No further user interaction is required during normal operation.

## MAINTENANCE

Periodic inspection of electrical connections is recommended to ensure long-term reliability. For the Southwire SB2/0-2C Split Bolt Connector:

- Visually inspect the connection for any signs of corrosion, overheating (discoloration), or physical

damage.

- Ensure the insulation around the connector remains intact and provides adequate protection.
- If any issues are observed, de-energize the circuit immediately and consult a qualified electrician for inspection and repair or replacement.

## TROUBLESHOOTING

Most issues related to split bolt connectors stem from improper installation. If a problem is suspected:

- **Loose Connection:** If the connection feels loose or shows signs of arcing/overheating, de-energize the circuit and re-tighten the bolt to the recommended torque.
- **Incorrect Wire Gauge:** Ensure that the conductors used are within the specified range (#2 STR - #2/0 STR for main, #14 SOL/STR minimum for tap). Using incompatible wire sizes can lead to poor contact or damage.
- **Corrosion:** If corrosion is present, especially in outdoor or damp environments, the connection may need to be disassembled, cleaned, and reassembled, or the connector replaced. Ensure proper environmental sealing.

Always ensure power is disconnected before attempting any troubleshooting or repairs.

## SPECIFICATIONS

Feature	Specification
Model Number	65179740
Material	Copper Alloy
Main Wire Compatibility	#2 STR - #2/0 STR
Minimum Tap Wire Compatibility	#14 SOL/STR (with max main)
Voltage Rating	600V
Temperature Rating	90°C
Dimensions (L x W x H)	5.12 x 2.78 x 0.99 inches
Item Weight	3.36 ounces
Manufacturer	Southwire

## WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the official Southwire website or contact Southwire customer service directly. Specific warranty terms and conditions may vary.

For technical support or further assistance, please visit the [Southwire Store on Amazon](#) or the official Southwire corporate website.

