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Penn Union SLU650

Penn Union SLU650 Copper Lug Connector Instruction Manual

Model: SLU650

INTRODUCTION

This manual provides essential instructions for the safe and proper installation and use of the Penn Union SLU650 Copper Lug Connector. Please read this manual thoroughly before proceeding with installation or operation. Retain this manual for future reference.

The Penn Union SLU650 is a high-quality copper lug connector designed for reliable electrical connections. It is manufactured by Crimp Supply.

SAFETY INFORMATION

Always follow local electrical codes and safety regulations when working with electrical components. Improper installation can lead to electrical shock, fire, or other hazards.

- Ensure power is disconnected before installation.
- Use appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.
- Consult a qualified electrician if you are unsure about any part of the installation process.
- Do not modify the connector.

PRODUCT OVERVIEW

The Penn Union SLU650 is a single-barrel copper lug connector, typically used for terminating electrical conductors. It features a set screw for securing the wire and a flat pad for bolt-down connections.

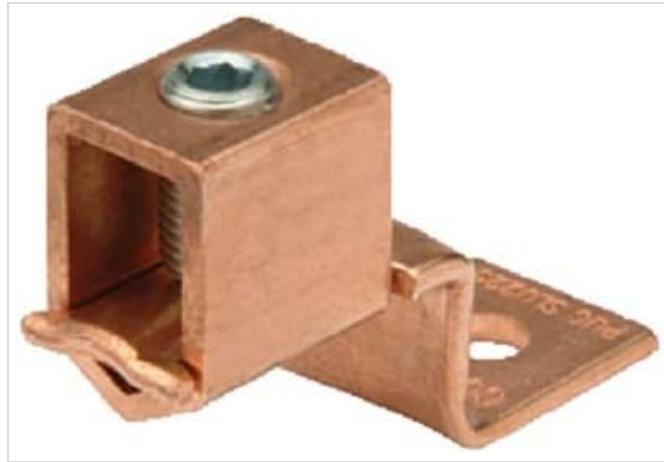


Figure 1: Penn Union SLU650 Copper Lug Connector. This image shows the copper lug connector with its square barrel for wire insertion and a flat mounting pad with a pre-drilled hole. A set screw is visible at the top of the barrel, used to secure the conductor.

SETUP AND INSTALLATION

- 1. Prepare the Conductor:** Strip the insulation from the end of the electrical conductor to the appropriate length, ensuring that the bare wire will fully enter the lug barrel without excess insulation inside or bare wire exposed outside the barrel once secured.
- 2. Insert the Conductor:** Insert the stripped end of the conductor into the barrel of the SLU650 connector.
- 3. Secure the Conductor:** Using an appropriate tool (e.g., an Allen wrench or screwdriver, depending on the screw type), tighten the set screw on top of the lug barrel. Ensure the screw is tightened firmly to establish a secure electrical and mechanical connection. Refer to manufacturer specifications for recommended torque values if available.
- 4. Mount the Lug:** Attach the flat pad of the lug to the desired connection point using a bolt and nut (not included). Ensure the connection is tight and secure.
- 5. Verify Connection:** Double-check all connections for tightness and proper seating before restoring power.

OPERATING INSTRUCTIONS

The Penn Union SLU650 is a passive electrical connector. Once properly installed, it facilitates the electrical connection between a conductor and a terminal point. There are no operational controls or user interactions required after installation.

- Ensure the connector is not subjected to excessive mechanical stress or vibration that could loosen connections.
- Periodically inspect connections in critical applications for signs of corrosion or loosening.

MAINTENANCE

The Penn Union SLU650 connector requires minimal maintenance. Regular inspection is recommended, especially in environments with high humidity, temperature fluctuations, or corrosive elements.

- **Inspection:** Visually inspect the connector and surrounding wiring for any signs of damage, corrosion, discoloration (indicating overheating), or loose connections.
- **Cleaning:** If necessary, gently clean the exterior of the connector with a dry, non-abrasive cloth. Ensure power is disconnected before cleaning. Do not use liquid cleaners that could leave residue or cause corrosion.
- **Re-tightening:** If any connections appear loose during inspection, disconnect power and carefully re-tighten the set screw and mounting bolt to the appropriate torque.

TROUBLESHOOTING

Most issues related to electrical connectors stem from improper installation or environmental factors. If an electrical circuit involving the SLU650 connector is not functioning as expected, consider the following:

Problem	Possible Cause	Solution
No electrical continuity	Loose set screw; improperly stripped wire; corrosion; incorrect wire gauge.	Disconnect power. Re-tighten set screw. Re-strip and re-insert wire. Clean or replace corroded components. Ensure correct wire gauge for the lug.
Overheating at connection point	Loose connection; insufficient contact area; excessive current; corrosion.	Disconnect power. Tighten all connections. Ensure proper wire insertion. Verify current load is within specifications. Clean or replace corroded parts.
Physical damage to lug	Excessive force during installation; environmental impact.	Disconnect power. Replace the damaged lug with a new one.

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

SPECIFICATIONS

Feature	Detail
Model Number	SLU650
Brand	Penn Union (Manufactured by Crimp Supply)
Material	Copper
Dimensions (L x W x H)	Approximately 1 x 1 x 1 inches
Item Weight	Approximately 1 pound
Package Quantity	1
Batteries Required	No

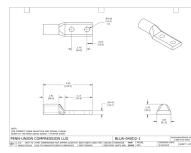
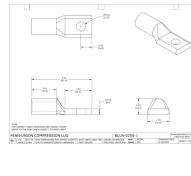
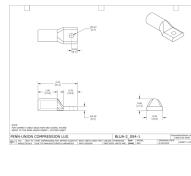
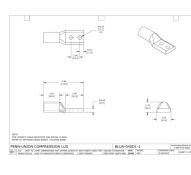
Note: Specific wire gauge compatibility for the SLU650 is not provided in the product data. Always ensure the lug is rated for the conductor size and current application.

WARRANTY AND SUPPORT

Specific warranty information for the Penn Union SLU650 connector is not provided in this manual. For details regarding warranty coverage, technical support, or further product inquiries, please contact the manufacturer, Crimp Supply, or your authorized distributor.

You may find contact information on the official Crimp Supply website or through your point of purchase.

Related Documents - SLU650

 <p>This document is a comprehensive guide comparing Penn-Union mechanical and compression lugs. It includes tables for lug sizes, conversion charts, and detailed information on hand-operated crimp tools and agency approvals.</p>	<p>Penn-Union Mechanical Connectors: Lugs, Compression Lugs, and Crimp Tools</p> <p>Comprehensive guide comparing Penn-Union mechanical and compression lugs, detailing the BLUA series of aluminum compression lugs (1-hole and 2-hole tongue), their specifications, dimensions, and installation instructions. Includes information on hand-operated crimp tools and agency approvals.</p>
 <p>This technical drawing and specification sheet for the Penn-Union Compression Lug, model BLUA-040D2-1, provides detailed dimensions and technical details for the lug's construction.</p>	<p>Penn-Union Compression Lug BLUA-040D2-1 Technical Specifications and Dimensions</p> <p>Detailed technical drawing and specifications for the Penn-Union Compression Lug, model BLUA-040D2-1, including dimensions in inches and millimeters. Provided by AutomationDirect.com.</p>
 <p>This document provides technical specifications, agency approvals, and dimensional information for the Penn-Union BLU-6S-1 standard barrel compression lug, manufactured by Penn-Union and available from AutomationDirect.com.</p>	<p>Penn-Union BLU-6S-1 Compression Lug - Technical Specifications and Cut Sheet</p> <p>Detailed technical specifications, agency approvals, and dimensional information for the Penn-Union BLU-6S-1 standard barrel compression lug, manufactured by Penn-Union and available from AutomationDirect.com.</p>
 <p>This technical drawing and specification sheet for the Penn-Union BLUA-025S-1 compression lug provides detailed dimensions and technical details for the lug's construction.</p>	<p>Penn-Union Compression Lug BLUA-025S-1: Technical Specifications and Dimensions</p> <p>Technical specifications and dimensional data for the Penn-Union BLUA-025S-1 compression lug, a key component for electrical connections. Includes detailed measurements and supplier information from AutomationDirect.com.</p>
 <p>This technical drawing and specification sheet for the Penn-Union BLUA-2 0S4-1 compression lug provides detailed dimensions and technical details for the lug's construction.</p>	<p>Penn-Union BLUA-2 0S4-1 Compression Lug - Technical Specifications</p> <p>Technical drawing and specifications for the Penn-Union BLUA-2 0S4-1 compression lug, including dimensions in inches and millimeters. Provided by AutomationDirect.com.</p>
 <p>This technical drawing and specification sheet for the Penn-Union BLUA-040D1-1 compression lug provides detailed dimensions and technical details for the lug's construction.</p>	<p>Penn-Union Compression Lug BLUA-040D1-1 Technical Drawing and Specifications</p> <p>Technical drawing and specifications for the Penn-Union Compression Lug, model BLUA-040D1-1, detailing dimensions, views, and important notes for cable selection and sizing from AutomationDirect.com.</p>