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Supco T1116

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INTRODUCTION

This manual provides essential information for the proper installation, usage, and maintenance of Supco T1116 High-Temperature Ring Terminals. These terminals are designed to create secure electrical connections in environments where temperatures can reach up to 900 degrees Fahrenheit, ensuring reliable performance in demanding applications such as automotive, HVAC, and industrial settings.

IMPORTANT SAFETY INFORMATION

- Always disconnect power to the circuit before installing or removing electrical components.
- Use appropriate personal protective equipment (PPE) such as safety glasses and gloves.
- Ensure the wire gauge matches the terminal's specifications to prevent overheating and poor connections.
- Verify that the stud size for the connection point is compatible with the ring terminal.
- Improper installation can lead to electrical hazards, equipment damage, or fire.

SETUP AND INSTALLATION

Follow these steps for proper installation of the Supco T1116 High-Temperature Ring Terminals:

1. **Prepare the Wire:** Strip approximately 3/8 to 1/2 inch of insulation from the end of the wire. Ensure the wire strands are clean and untwisted.
2. **Insert Wire:** Insert the stripped wire into the barrel of the ring terminal. Ensure all wire strands are

fully seated within the barrel.

3. **Crimp the Terminal:** Using a suitable crimping tool, firmly crimp the barrel of the terminal onto the wire. A proper crimp should be tight and secure, preventing the wire from being pulled out.
4. **Inspect the Crimp:** Visually inspect the crimp for tightness. Gently tug on the wire to confirm it is securely fastened.
5. **Connect to Stud:** Place the ring portion of the terminal over the appropriate stud or screw. Secure it with a nut or screw, ensuring a tight and reliable electrical connection.
6. **Verify Connection:** After installation, double-check all connections for tightness and proper seating.



Image 1: Close-up view of a Supco T1116 ring terminal, highlighting the wire gauge compatibility (16-14 AWG) and stud size markings.

OPERATION AND INTENDED USE

The Supco T1116 High-Temperature Ring Terminals are designed for applications requiring a robust and heat-resistant electrical connection. Once properly installed, these terminals provide a secure and stable point of contact for electrical circuits, particularly in environments where standard terminals might degrade due to high temperatures. Their primary function is to ensure continuous electrical conductivity and mechanical integrity under thermal stress.



Image 2: Side profile of a Supco T1116 ring terminal, illustrating its robust metal construction suitable for high-temperature applications.

MAINTENANCE

Supco T1116 ring terminals are generally maintenance-free once properly installed. However, periodic inspection of electrical connections in high-temperature environments is recommended:

- **Visual Inspection:** Regularly check for any signs of corrosion, discoloration, or loosening of the connection.
- **Tightness Check:** Ensure that the nut or screw securing the terminal to the stud remains tight. Do not overtighten.
- **Wire Integrity:** Inspect the wire insulation near the terminal for any signs of heat damage or fraying.

TROUBLESHOOTING

If an electrical connection using a T1116 terminal fails or performs poorly, consider the following:

- **Loose Connection:** A common cause of failure is a loose connection at the stud or an improperly crimped wire. Re-tighten the stud connection or re-crimp the terminal if necessary.
- **Incorrect Wire Gauge:** Using a wire gauge that is too small for the current or too large for the terminal can lead to poor conductivity or an insecure crimp. Ensure compatibility.
- **Corrosion:** In some environments, corrosion can build up. Clean the connection points thoroughly before re-installing.
- **Heat Damage:** While designed for high temperatures, extreme conditions beyond 900°F or prolonged exposure to direct flame can still cause degradation. Inspect for signs of melting or severe discoloration.

SPECIFICATIONS

Feature	Detail
Model Number	T1116
Brand	Supco
Temperature Rating	Up to 900°F (482°C)
Connector Type	Ring Terminal
Wire Gauge Compatibility	#16 - #14 AWG
Stud Size Compatibility	#1/4 Stud
Material	High-temperature resistant metal
Package Dimensions	7 x 5 x 2 inches
Item Weight	1.28 ounces



Image 3: Product packaging for Supco T1116 High-Temperature Ring Terminals, indicating part number, quantity, wire gauge, and stud size.

WARRANTY INFORMATION

Specific warranty details for the Supco T1116 High-Temperature Ring Terminals are not provided in the available product information. For warranty inquiries, please contact Supco directly or refer to the documentation included with your purchase.

CUSTOMER SUPPORT

For technical assistance or further questions regarding the Supco T1116 High-Temperature Ring Terminals, please visit the official Supco website or contact their customer service department. Contact information is typically available on the manufacturer's website or product packaging.