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Thomas & Betts TBG673

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Model: TBG673

1. PRODUCT OVERVIEW

The Thomas & Betts G673 is a non-insulated flag terminal designed for electrical connections. This terminal facilitates a 90-degree connection to a terminal block, eliminating the need to bend the wire, which can be beneficial in space-constrained applications or for maintaining wire integrity.

Key features of the G673 Non-Insulated Flag Terminal include:

- **Material:** Constructed from high-quality copper for excellent conductivity.
- **Design:** Flag terminals allow a 90-degree connection to the terminal block without bending the wire.
- **Color:** Metallic finish.
- **Finish:** Electro-Tin Plated for enhanced corrosion resistance and durability.
- **Temperature Rating:** Rated for temperatures up to 150°C, suitable for various industrial environments.

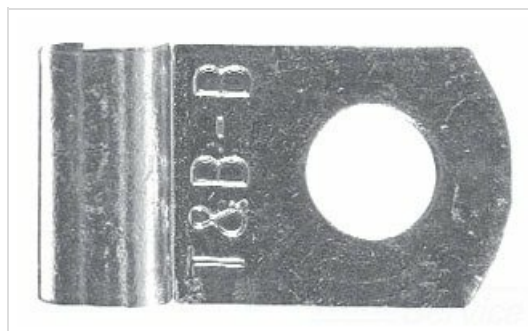


Figure 1: Thomas & Betts G673 Non-Insulated Flag Terminal. This image shows the metallic flag terminal, highlighting its unique 90-degree connection design and the stud hole.

2. SETUP AND INSTALLATION

Proper installation of the G673 flag terminal is crucial for ensuring a secure and reliable electrical

connection. Always follow local electrical codes and safety guidelines.

2.1 Safety Precautions

- Ensure all power to the circuit is disconnected before beginning installation.
- Wear appropriate personal protective equipment (PPE), including safety glasses and insulated gloves.
- Verify the wire gauge and stud size match the terminal specifications (Wire Range 2, Stud Size 3/8).

2.2 Required Tools

A suitable crimping tool is required for proper installation. The product package includes a tool for this purpose.

2.3 Installation Steps

1. **Prepare the Wire:** Strip the insulation from the end of the wire to the appropriate length, ensuring no stray strands. The stripped length should match the barrel length of the terminal.
2. **Insert Wire:** Insert the stripped wire fully into the barrel of the G673 flag terminal. Ensure all wire strands are contained within the barrel.
3. **Crimp the Terminal:** Using the correct crimping tool for the wire gauge and terminal type, crimp the barrel securely. A proper crimp will create a strong mechanical and electrical connection. Refer to the crimping tool's instructions for specific crimping procedures.
4. **Inspect the Crimp:** Visually inspect the crimped connection. It should be tight and secure, with no loose strands or signs of damage to the terminal or wire.
5. **Attach to Stud:** Place the flag terminal's stud hole over the 3/8-inch stud. Secure it with a nut and washer, ensuring a firm connection without overtightening.

3. OPERATING CONSIDERATIONS

Once installed, the Thomas & Betts G673 terminal operates as a passive electrical connector. Its primary function is to provide a reliable and durable connection point. Ensure that the environmental conditions (temperature, moisture) remain within the specified limits for the terminal (up to 150°C).

Regularly check the connection for any signs of loosening or corrosion, especially in high-vibration or corrosive environments.

4. MAINTENANCE

The Thomas & Betts G673 non-insulated flag terminal is designed for long-term reliability with minimal maintenance. However, periodic inspection is recommended to ensure continued performance.

4.1 Inspection

- **Visual Check:** Periodically inspect the terminal for any signs of physical damage, such as cracks, deformation, or discoloration.
- **Corrosion:** Check for any signs of corrosion on the metallic surfaces. The electro-tin plating helps resist corrosion, but extreme conditions can still cause issues.
- **Connection Integrity:** Gently attempt to move the wire at the crimp point and the terminal at the stud connection to ensure they remain secure. Do not apply excessive force.

4.2 Cleaning and Storage

- **Cleaning:** If cleaning is necessary, use a dry, lint-free cloth. For stubborn dirt or light corrosion, a

non-abrasive electrical contact cleaner can be used, ensuring the circuit is de-energized.

- **Storage:** Store unused terminals in a dry, cool environment, away from direct sunlight and corrosive chemicals, to preserve their integrity and plating.

5. TROUBLESHOOTING

While the G673 terminal is a robust component, issues can arise, often related to installation or environmental factors. Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Loose connection at crimp	Improper crimping tool, incorrect crimping technique, wrong wire gauge.	Re-crimp with the correct tool and technique. If necessary, cut the wire, strip, and use a new terminal.
Corrosion on terminal	Exposure to moisture or corrosive chemicals, damaged plating.	Clean with appropriate electrical contact cleaner. If severe, replace the terminal. Ensure proper environmental sealing if applicable.
Overheating at connection point	Loose connection, undersized wire/terminal for current, excessive current.	Check for loose connections and tighten. Verify wire and terminal are rated for the current. Reduce load if current is excessive. Replace damaged components.
Difficulty fitting on stud	Incorrect stud size, burrs on terminal hole.	Ensure stud size is 3/8 inch. Check for and remove any burrs. Do not force the terminal onto the stud.

6. SPECIFICATIONS

The following table details the technical specifications for the Thomas & Betts G673 Non-Insulated Flag Terminal:

Attribute	Detail
Model Number	TBG673
Brand	Thomas & Betts
Terminal Type	Flag Terminal
Insulation Material	Non-Insulated
Contact Material	Copper
Finish	Electro-Tin Plated
Wire Range	2 AWG (American Wire Gauge)
Stud Size	3/8 inch
Temperature Rating	150°C (302°F)
Package Dimensions	8 x 8 x 8 inches
Package Weight	4 Pounds (for pack of 100)
Manufacturer	Thomas & Betts

7. WARRANTY INFORMATION

Specific warranty details for the Thomas & Betts G673 Non-Insulated Flag Terminal are not provided in this manual. For information regarding product warranty, please refer to the official Thomas & Betts website or contact their customer support directly. Keep your purchase receipt as proof of purchase.

8. CUSTOMER SUPPORT

For technical assistance, product inquiries, or support related to the Thomas & Betts G673 Non-Insulated Flag Terminal, please contact Thomas & Betts customer service. Contact information can typically be found on the manufacturer's official website or on the product packaging.

When contacting support, please have the product model number (TBG673) and any relevant purchase information readily available.