

Aexit TY55

TY55 T-shape Transmission Electrical Insulated Shell Silicone Cover Set User Manual

Model: TY55

1. PRODUCT OVERVIEW

The Aexit TY55 T-shape Transmission Electrical Insulated Shell Silicone Cover Set is designed for insulating busbar connections and terminals in power supply and transformer stations. This product helps prevent short circuits and extends the lifespan of electrical equipment by providing robust insulation.

Key features include its T-shape design, high voltage tolerance, and ease of installation and removal. The silicone material offers flexibility, good sealing, water resistance, and high resistance to temperature extremes, UV rays, and ozone, making it suitable for both indoor and outdoor applications.

2. SAFETY INFORMATION

Always prioritize safety when working with electrical components. This product is designed to enhance electrical safety, but proper handling and installation are crucial.

- **Voltage Tolerance:** This silicone cover can tolerate voltages up to 50KV. Ensure the application voltage does not exceed this limit.
- **Working Temperature:** The maximum working temperature for this product is 80 Celsius Degrees. Do not expose the cover to temperatures exceeding this limit.
- **Professional Installation:** While easy to install, it is recommended that installation be performed by qualified personnel familiar with electrical safety procedures, especially in high-voltage environments.
- **Inspection:** Before and after installation, visually inspect the cover for any signs of damage, cracks, or degradation. Do not use damaged covers.

3. PRODUCT COMPONENTS AND SPECIFICATIONS

3.1 Package Contents

- 1 x Silicone Cover Set (Model: TY55)

The set typically includes multiple pieces designed to fit together to form the complete T-shape insulation. The main colors are Yellow, Green, and Red.

3.2 Technical Specifications

Attribute	Value
Country of Manufacture	CHINA
Material	Silicone
Net Weight	898g
Model	TY55
Main Color	Yellow, Green, Red
Working Temperature	80 Celsius Degrees (Max)
Electrical Insulation Level	50KV
Overall Size	30 x 26 x 6.5cm (12" x 10.4" x 2.6") (L*W*H)
Silicone Cover Thickness	Approx. 2mm (0.08")
Fit Busbar Size	Approx. 12x7x6cm (4.8"x2.8"x2.4") (L*W*H)

4. SETUP AND INSTALLATION

The TY55 silicone cover set is designed for straightforward installation and removal, allowing for maintenance or reconfiguration as needed.

- 1. Prepare the Busbar:** Ensure the busbar and surrounding area are clean, dry, and free from any debris or sharp edges that could damage the silicone cover. De-energize the busbar before proceeding with installation.
- 2. Identify Cover Sections:** The set consists of multiple pieces that form the T-shape. Identify the corresponding sections for the busbar configuration.
- 3. Position the Cover:** Carefully position the first section of the silicone cover around the busbar.
- 4. Secure Fasteners:** The cover features integrated fasteners along its edges. Align these fasteners and press them firmly together to close the cover securely around the busbar. The fasteners are designed for stable closure.
- 5. Repeat for Remaining Sections:** Continue with any additional sections of the cover, ensuring a snug and complete fit over the busbar connections.
- 6. Final Inspection:** After installation, visually inspect the entire cover to ensure it is fully closed, properly seated, and provides complete insulation without any gaps or exposed areas.



Figure 1: The TY55 T-shape Silicone Cover Set, showing its layered components in yellow, green, and red.



Figure 2: An assembled section of the TY55 T-shape Silicone Cover, demonstrating its form when closed.



Figure 3: Another view of the assembled TY55 T-shape Silicone Cover, highlighting its secure fasteners.

5. OPERATING AND FUNCTIONAL CHARACTERISTICS

Once installed, the TY55 silicone cover functions passively to provide electrical insulation and protection. Its material properties contribute to its effectiveness:

- **Short Circuit Prevention:** The primary function is to prevent accidental short circuits at busbar connections and terminals.
- **Perlusion Protection:** Helps to prevent accidental contact with live electrical parts.
- **Flexibility:** The silicone material allows for easy installation and conforms well to the shape of the busbar.
- **Sealing and Water Resistance:** Provides a good seal, offering resistance to water ingress, which is crucial for both indoor and outdoor applications.
- **Temperature Resistance:** Maintains integrity across a range of temperatures, up to 80 Celsius Degrees.
- **Wear Resistance:** Designed to withstand wear, contributing to its long-term durability.
- **UV and Ozone Resistance:** Highly resistant to environmental factors like UV rays and ozone, making it suitable for outdoor use without significant degradation.

6. MAINTENANCE

The TY55 silicone cover requires minimal maintenance due to its durable material. However, periodic inspection is recommended to ensure continued performance and safety.

- **Visual Inspection:** Regularly inspect the covers for any signs of physical damage, such as cuts, tears, cracks, or discoloration.
- **Cleanliness:** If necessary, gently clean the exterior of the covers with a damp cloth to remove dust or dirt. Avoid using harsh chemicals or abrasive materials that could damage the silicone.
- **Secure Fit:** Verify that all fasteners remain securely closed and that the cover maintains a snug fit around the busbar.
- **Environmental Factors:** In outdoor installations, check for any signs of degradation due to prolonged exposure to extreme weather conditions, although the material is highly resistant to UV and ozone.
- **Replacement:** If any damage or significant wear is observed, replace the affected silicone cover immediately to maintain insulation integrity.

7. TROUBLESHOOTING

This section addresses common concerns that may arise during the use of the TY55 silicone cover.

- **Cover Does Not Fit Properly:**

- Verify that the busbar dimensions match the specified fit busbar size (Approx. 12x7x6cm / 4.8"x2.8"x2.4").
- Ensure the cover sections are correctly oriented and aligned before attempting to close the fasteners.

- **Fasteners Do Not Close Securely:**

- Check for any obstructions or debris preventing the fasteners from engaging fully.
- Ensure the cover is not stretched or misaligned, which could prevent proper closure.
- If fasteners appear damaged, the cover may need replacement.

- **Visible Damage to Cover (Tears, Cracks):**

- Immediately replace any damaged covers. Damaged insulation compromises safety and effectiveness.
- Review installation procedures to ensure no undue stress or sharp objects caused the damage.

For issues not covered here, or if troubleshooting steps do not resolve the problem, please contact Aexit customer support.

8. WARRANTY AND SUPPORT

Specific warranty information for the Aexit TY55 T-shape Transmission Electrical Insulated Shell Silicone Cover Set is not provided in this manual. For details regarding warranty coverage, returns, or technical support, please refer to the purchase documentation or contact the seller directly.

Manufacturer: Aexit

Contact Information: Please refer to the contact details provided by your retailer or visit the official Aexit website for support.

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