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Model: E6018

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the EVURU E6018 Tube Insulating Insulated Terminals. These terminals are designed for reliable electrical connections, specifically for 6MM2 (10AWG) cables. Please read this manual thoroughly before installation and operation to ensure proper usage and to prevent potential hazards.

2. PRODUCT OVERVIEW

The EVURU E6018 insulated tube terminals are crimp-style connectors used to terminate stranded wires, providing a clean and secure connection point. They feature a metallic tube (ferrule) for wire insertion and crimping, surrounded by an insulating sleeve. This design helps prevent wire fraying, ensures a stable connection, and offers electrical insulation. These terminals are commonly used in control panels, wiring harnesses, and other electrical applications requiring reliable wire termination.

E6018



1000Pcs/lot

Image 2.1: A bag containing 1000 yellow EVURU E6018 insulated tube terminals, labeled "E6018" and "1000Pcs/lot".

The E6018 model is specifically designed for 6MM² (10AWG) wire sizes. While the product shown is yellow, these terminals are available in various colors, often used for wire size identification. The specific product for this manual is white.

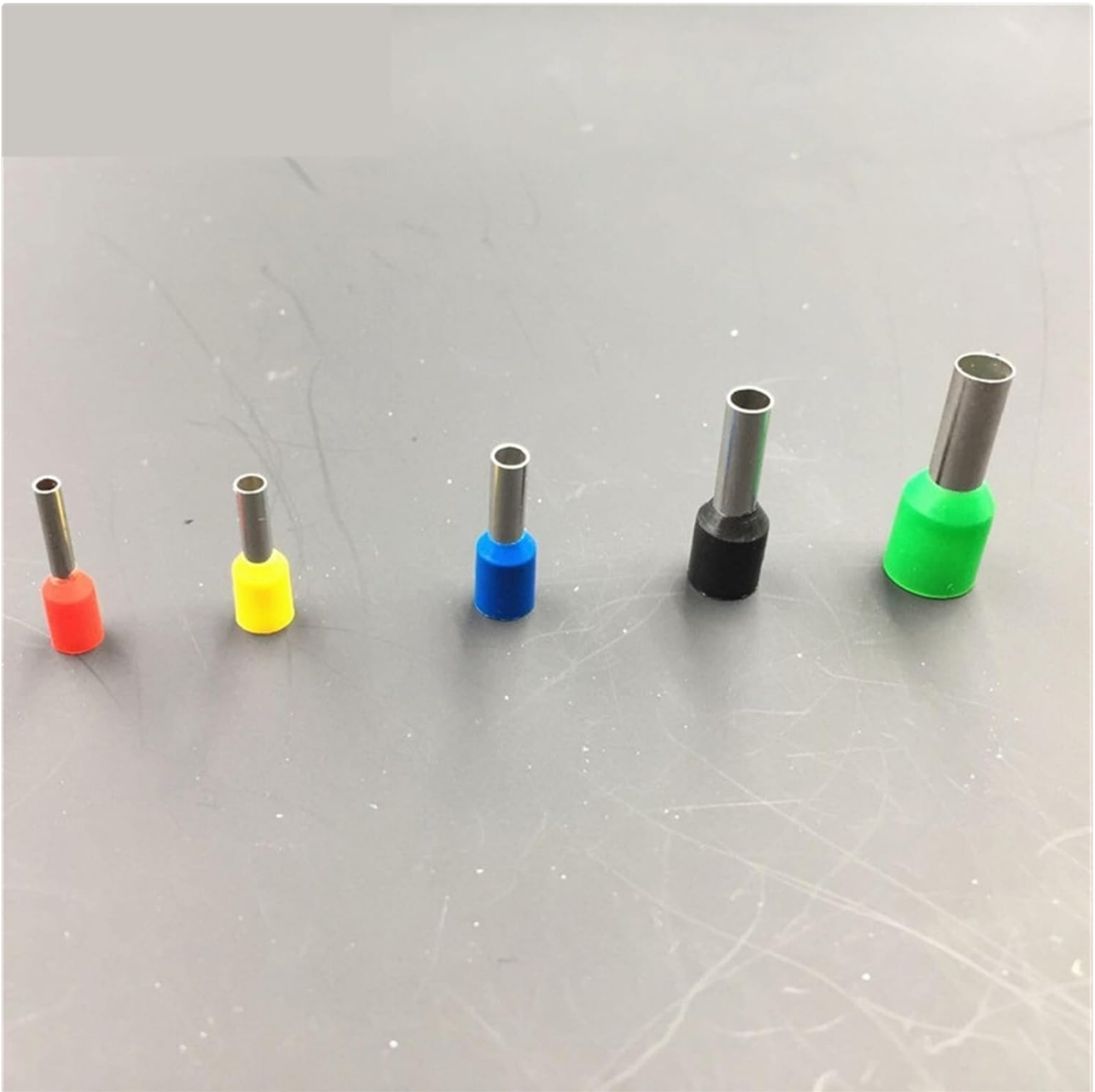


Image 2.2: An assortment of insulated tube terminals in various colors and sizes, demonstrating the product type.

3. SPECIFICATIONS

- **Model:** E6018
- **Quantity:** 1000 Pieces
- **Wire Size Compatibility:** 6MM² (10 AWG)
- **Maximum Voltage:** 300V
- **Temperature Rating (Ui):** 105°C
- **Terminal Material:** Brass
- **Insulating Material:** PVC
- **Application:** Ground Circuit Terminal Blocks, general wire termination

3.1. E6018 Dimensions

Dimension	Value (mm)
F (Metal Tube Length)	18
L (Total Length)	26
W (Insulation Width)	6.3
D (Outer Diameter of Metal Tube)	3.9
C (Inner Diameter of Metal Tube)	3.5

3.2. General Dimension Chart for Reference

The following table provides a general overview of dimensions for various insulated tube terminals. Please refer to the E6018 specific dimensions above for the product covered by this manual.

Item No.	F (mm)	L (mm)	W (mm)	D (mm)	C (mm)	A.W.G	Cable Size (mm ²)	Color (German/French)
E0506	6	12	2.5	1.3	1	#22	0.5	Orange/White
E0508	8	14						
E0510	10	16						
E0512	12	18						
E7506	6	12.4	2.8	1.5	1.2	#20	0.75	White/Blue
E7508	8	14.6						
E7510	10	16.4						
E7512	12	18.4						
E1006	6	12.4	3	1.7	1.4	#18	1	Yellow/Red
E1008	8	14.6						
E1010	10	16.4						
E1012	12	18.4						
E1508	8	14.6	3.5	2	1.7	#16	1.5	Red/Black
E1510	10	16.4						
E1512	12	18.4						
E1518	18	24.4						
E2508	8	15.2	4	2.6	2.3	#14	2.5	Blue/Gray
E2510	10	17.2						
E2512	12	19.2						
E2518	18	25.2						
E4009	9	16.5	4.4	3.2	2.8	#12	4	Gray/Orange
E4012	12	19.5						
E4018	18	25.5						
E6010	10	18	6.3	3.9	3.5	#10	6	Black/Green

Item No.	F (mm)	L (mm)	W (mm)	D (mm)	C (mm)	A.W.G	Cable Size (mm ²)	Color (German/French)
E6012	12	20						
E6018	18	26	6.3	3.9	3.5	#10	6	
E10-12	12	21.5	7.6	4.9	4.5	#7	10	Milk/Brown
E10-18	18	27.5						
E16-12	12	22.2	8.8	6.2	5.8	#5	16	Green/Milk
E16-18	18	28.2						
E25-16	16	29	11.2	7.9	7.5	#4	25	Brown/Black
E25-22	22	35						
E35-16	16	30	12.7	8.7	8.3	#2	35	

Note: Empty cells in the table indicate that the dimension is the same as the first entry for that Item No. series.

4. SAFETY INFORMATION

Always prioritize safety when working with electrical components.

- **Disconnect Power:** Ensure all power sources are disconnected before working on any electrical circuit.
- **Use Appropriate Tools:** Always use a proper crimping tool designed for insulated ferrules to ensure a secure and reliable connection.
- **Inspect Wires:** Ensure wires are free from damage, corrosion, or fraying before termination.
- **Proper Wire Stripping:** Strip the wire insulation to the correct length, exposing only the conductor that will fit into the terminal's metal tube. Avoid damaging the wire strands.
- **Environmental Conditions:** Use these terminals within their specified voltage and temperature ratings.
- **Professional Installation:** If you are unsure about any electrical work, consult a qualified electrician.

5. SETUP AND INSTALLATION

5.1. Required Tools

- Wire Strippers (appropriate for 10 AWG / 6MM² wire)
- Ferrule Crimping Tool (hexagonal or square crimp type recommended for insulated ferrules)
- Wire Cutters (if needed)

5.2. Installation Steps

1. **Prepare the Wire:** Using wire strippers, carefully strip approximately 18mm (0.7 inches) of insulation from the end of the 10 AWG (6MM²) wire. Ensure the stripped length matches the metal tube length (F dimension) of the E6018 terminal. Avoid cutting or damaging any wire strands.
2. **Twist Wire Strands (Optional but Recommended):** Gently twist the exposed wire strands together to consolidate them and prevent stray strands.
3. **Insert Wire into Terminal:** Insert the twisted, stripped end of the wire completely into the metal tube of the E6018 terminal. Ensure all wire strands are contained within the metal tube and none are bent back or outside. The insulation of the wire should butt up against the insulating sleeve of the terminal.
4. **Crimp the Terminal:** Place the metal tube portion of the terminal into the appropriate crimping die of your ferrule crimping tool. For 10 AWG (6MM²) ferrules, select the corresponding crimp size on your tool. Squeeze

the crimping tool handles firmly until the crimp cycle is complete. A proper crimp will securely fasten the wire within the terminal.

5. **Verify Connection:** After crimping, gently pull on the wire to ensure it is securely held by the terminal. The connection should be tight and not easily pulled apart. Inspect the crimped area for any signs of damage or improper crimping.
6. **Repeat for Additional Wires:** Follow the same steps for all other wires requiring termination.

6. OPERATING INSTRUCTIONS

Once the EVURU E6018 terminals are properly crimped onto the wires, they are ready for integration into your electrical system.

- **Connection:** Insert the crimped terminal into the appropriate connection point, such as a screw terminal block, spring clamp terminal, or other compatible connector.
- **Secure Connection:** Ensure the terminal is fully seated and secured within the connection point. For screw terminals, tighten the screw to the manufacturer's recommended torque. For spring clamp terminals, ensure the clamp mechanism is fully engaged.
- **Polarity and Phasing:** Always observe correct polarity and phasing when making electrical connections to prevent damage to equipment or circuits.
- **Insulation:** The insulating sleeve of the terminal provides protection against accidental short circuits between adjacent terminals. Ensure the sleeve is intact and not damaged.

7. MAINTENANCE

EVURU E6018 terminals are designed for long-term reliability with minimal maintenance.

- **Periodic Inspection:** Periodically inspect connections for any signs of loosening, corrosion, or damage to the terminal or insulation.
- **Cleanliness:** Keep the connection area clean and free from dust, dirt, and moisture.
- **Avoid Stress:** Ensure wires connected with these terminals are not subjected to excessive mechanical stress or pulling forces that could compromise the crimp.
- **Storage:** Store unused terminals in a dry, clean environment to prevent oxidation or damage.

8. TROUBLESHOOTING

Most issues related to insulated tube terminals stem from improper installation.

- **Loose Connection:**
 - *Symptom:* Wire pulls out of the terminal easily, or intermittent electrical connection.
 - *Possible Cause:* Improper crimping tool used, incorrect crimp die size, insufficient crimping force, or incorrect wire stripping length.
 - *Solution:* Cut off the old terminal, re-strip the wire to the correct length, and re-crimp with the appropriate tool and technique. Ensure the crimping tool is fully cycled.
- **Damaged Insulation:**
 - *Symptom:* Insulating sleeve is cracked, torn, or melted.
 - *Possible Cause:* Over-crimping, excessive heat, or physical damage.
 - *Solution:* Replace the damaged terminal. Ensure proper crimping technique and that the terminal is not exposed to temperatures exceeding its rating.

- **Wire Fraying/Stray Strands:**

- *Symptom:* Wire strands are visible outside the metal tube after crimping.
- *Possible Cause:* Insufficient wire twisting, incorrect wire stripping length, or improper insertion.
- *Solution:* Cut off the old terminal, re-strip the wire, twist strands tightly, and ensure all strands are fully inserted into the metal tube before crimping.

9. WARRANTY AND SUPPORT

For information regarding warranty, returns, or technical support for your EVURU E6018 Tube Insulating Insulated Terminals, please refer to the retailer's policy where the product was purchased or contact EVURU customer service directly through their official channels. Please have your purchase details and product model number (E6018) available when contacting support.