LAOA 8-in-1

LAOA 8-in-1 Wire Stripper with Voltage Tester Instruction Manual

1. Introduction

Thank you for choosing the LAOA 8-in-1 Wire Stripper with Voltage Tester. This versatile tool is designed to streamline various electrical tasks, combining multiple functions into a single, efficient device. This manual provides essential information for safe and effective use, including product overview, operating instructions, maintenance, and safety precautions.

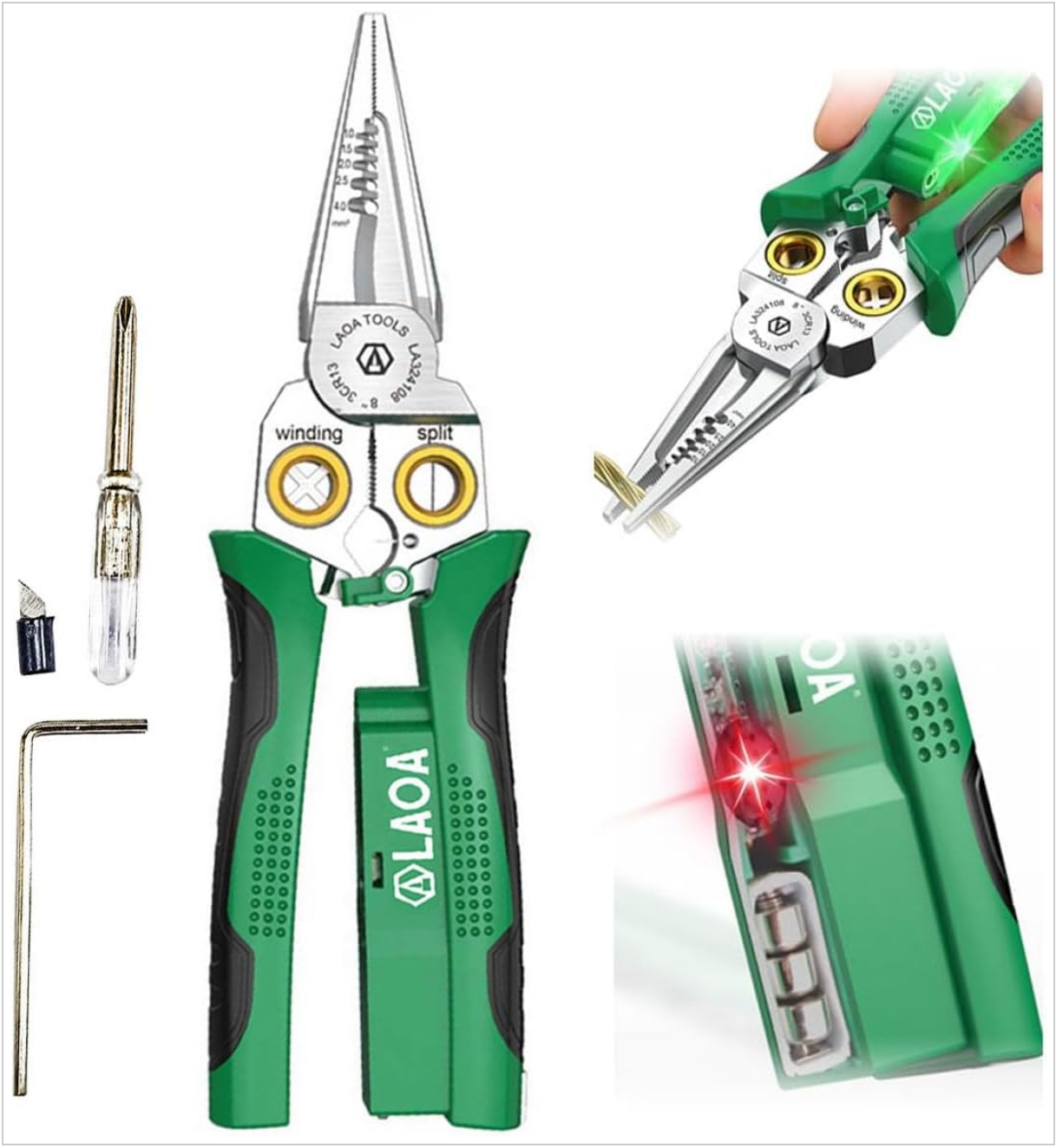
2. Safety Information

WARNING: Always prioritize safety when working with electrical systems. Failure to follow these instructions may result in electric shock, injury, or damage to property.

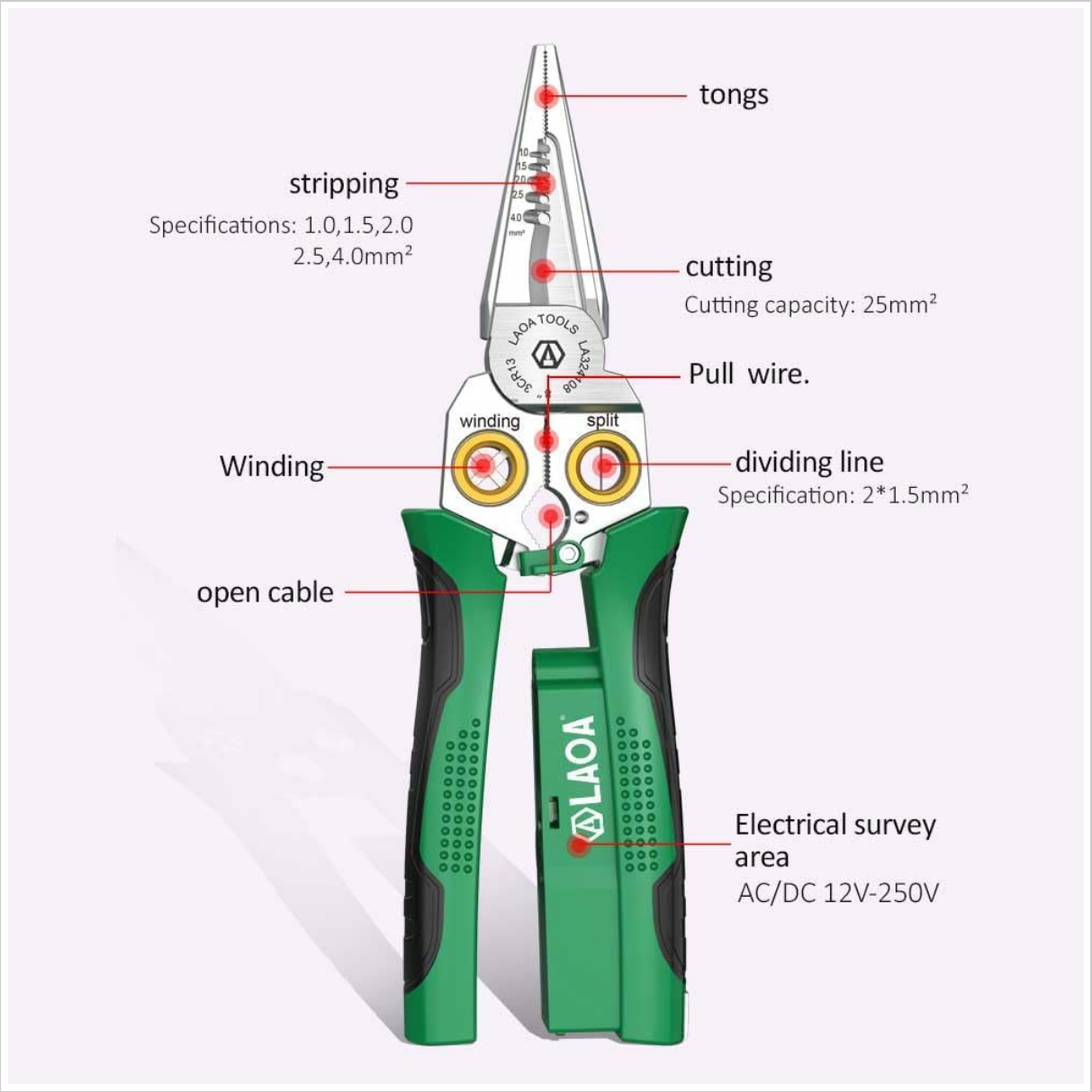
- This tool is **not insulated** for live electrical work. The voltage testing function is for emergency use and requires direct hand contact with the sensor plate.
- Always ensure power is disconnected before performing any wire stripping, cutting, or connecting tasks.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves, when handling wires and using the tool.
- Keep the tool clean and dry. Do not use in wet conditions.
- Keep out of reach of children.
- The head of the voltage sensor is not insulated. Exercise extreme caution to avoid direct contact with live circuits.

3. Product Overview and Components

The LAOA 8-in-1 Wire Stripper integrates eight essential functions for electrical work: wire stripping, wire cutting, splitting, winding, pulling wire, clamping, opening cable, and voltage testing.



This image displays the LAOA 8-in-1 Wire Stripper, highlighting its multi-functional design. Included accessories such as a replacement blade, a small screwdriver for battery changes, and an Allen wrench for blade depth adjustment are also shown.



This image provides a detailed breakdown of the tool's components and their respective functions, including stripping specifications (1.0, 1.5, 2.0, 2.5, 4.0mm²), cutting capacity (25mm²), winding, dividing line (2*1.5mm²), open cable, pull wire, and the electrical survey area (AC/DC 12V-250V).

4. Setup

The voltage tester function is powered by button cell batteries, which are typically pre-installed. A small screwdriver is included for battery replacement when needed. No other specific setup is required before initial use.

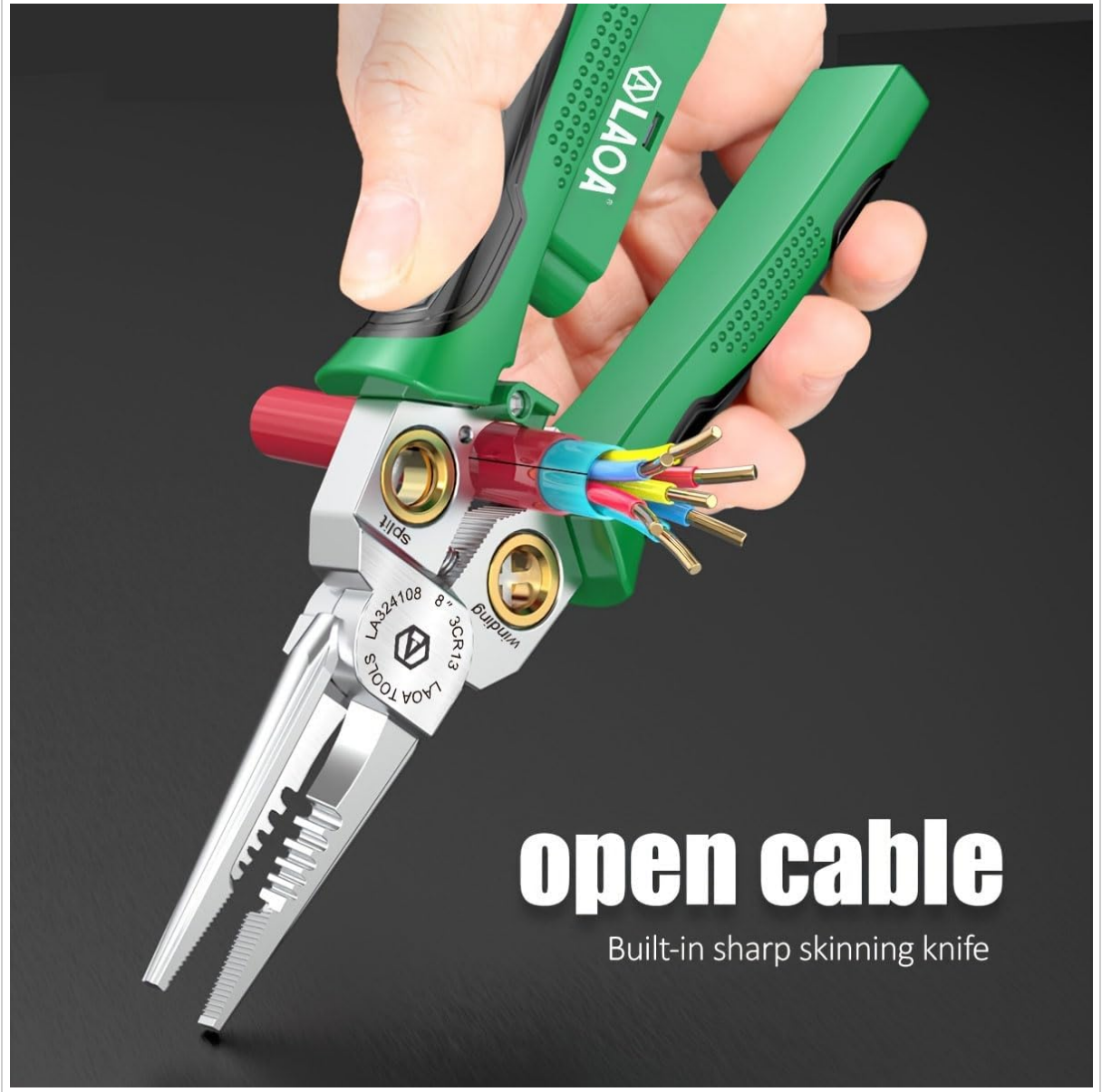
5. Operating Instructions

Familiarize yourself with each function before use. Always ensure the power source is disconnected before working on wires, except when using the voltage tester for diagnostic purposes.

5.1. Wire Stripping

Use the designated stripping holes on the pliers' jaws. Match the wire gauge (AWG) or diameter (mm²) to the corresponding hole for clean insulation removal without damaging the conductor.

- **Specifications:** AWG18, 14, 12, 10, 6 / 1.0, 1.5, 2.0, 2.5, 4.0mm²



This image depicts the tool stripping insulation from a wire, highlighting its ability to remove insulation cleanly without damaging the conductor. The stripping specifications are 1.0, 1.5, 2.0, 2.5, 4.0mm².

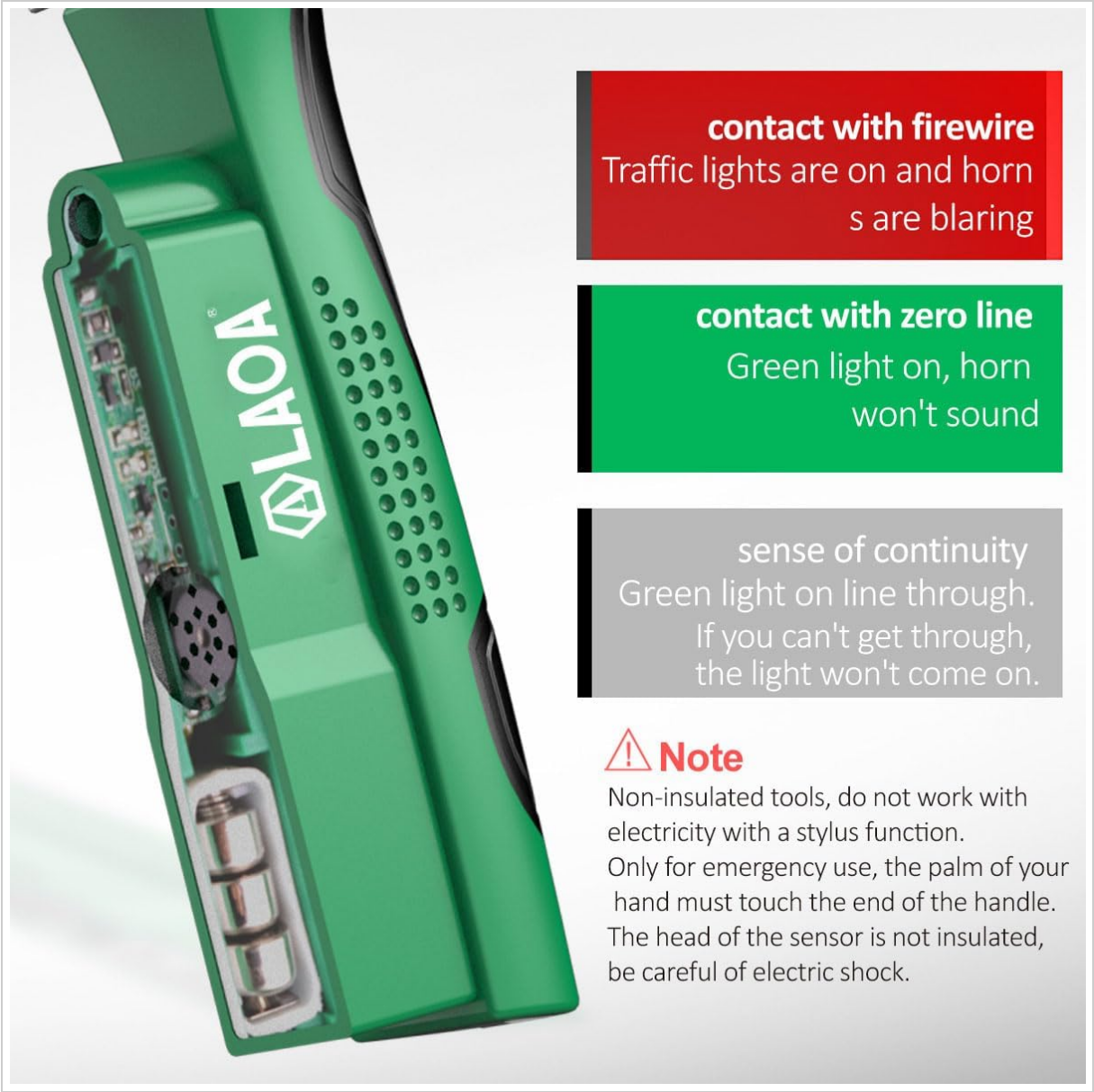
5.2. Wire Cutting

The sharp cutting edges are located near the pivot point of the pliers. Insert the wire into the cutting area and squeeze the handles firmly to cut.

- **Cutting Capacity:** Up to 25mm² cable.

5.3. Splitting Wire (Dividing Line)

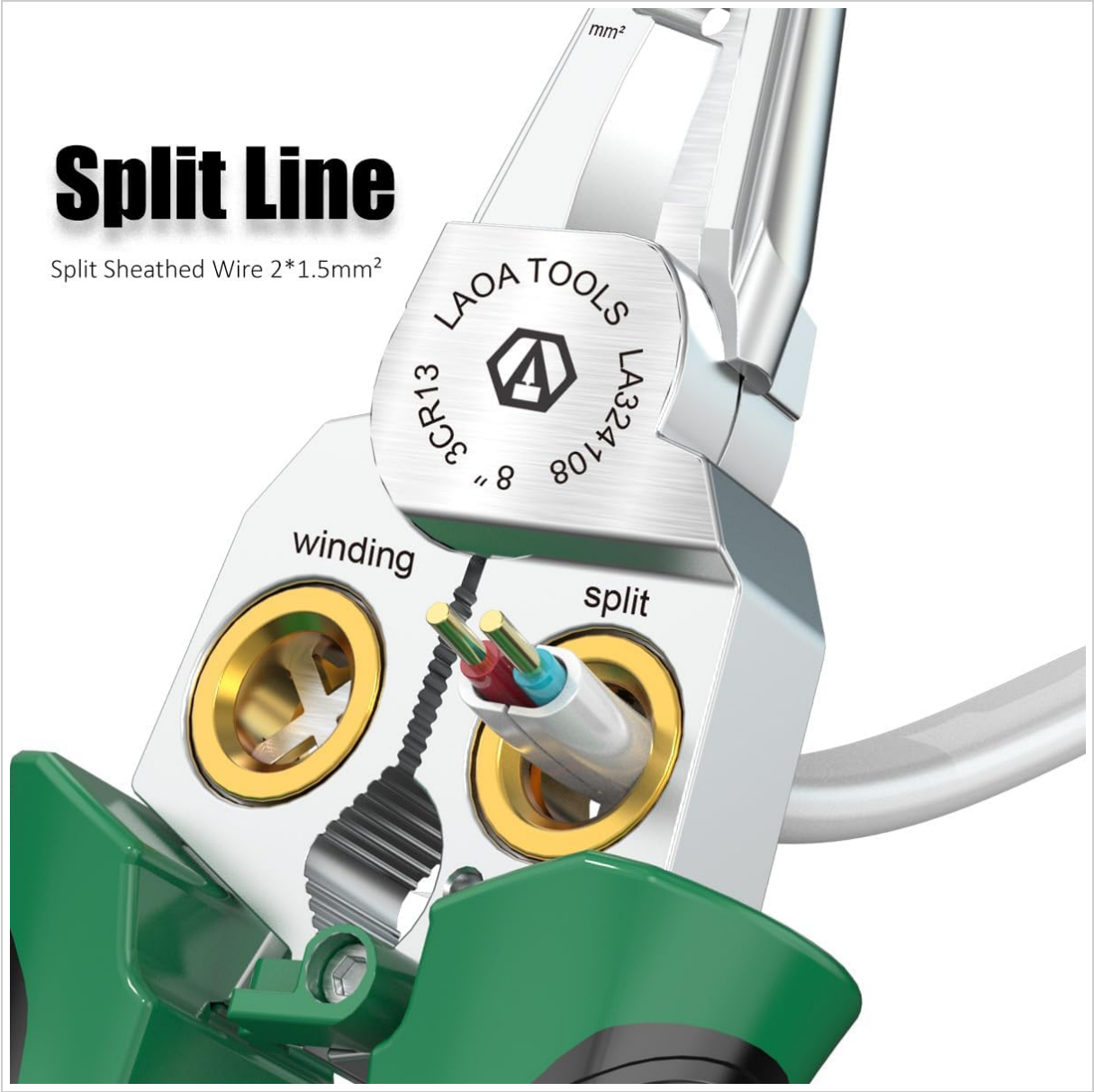
Utilize the 'split' mechanism to separate the outer sheath of multi-conductor cables, typically for 2*1.5mm² wires.



This image demonstrates the 'Split Line' function, showing the tool precisely separating the outer sheath of a 2*1.5mm² wire to expose individual conductors.

5.4. Winding Function

The brass winding hole is designed for twisting multi-stranded wires together, creating a neat and secure connection point.



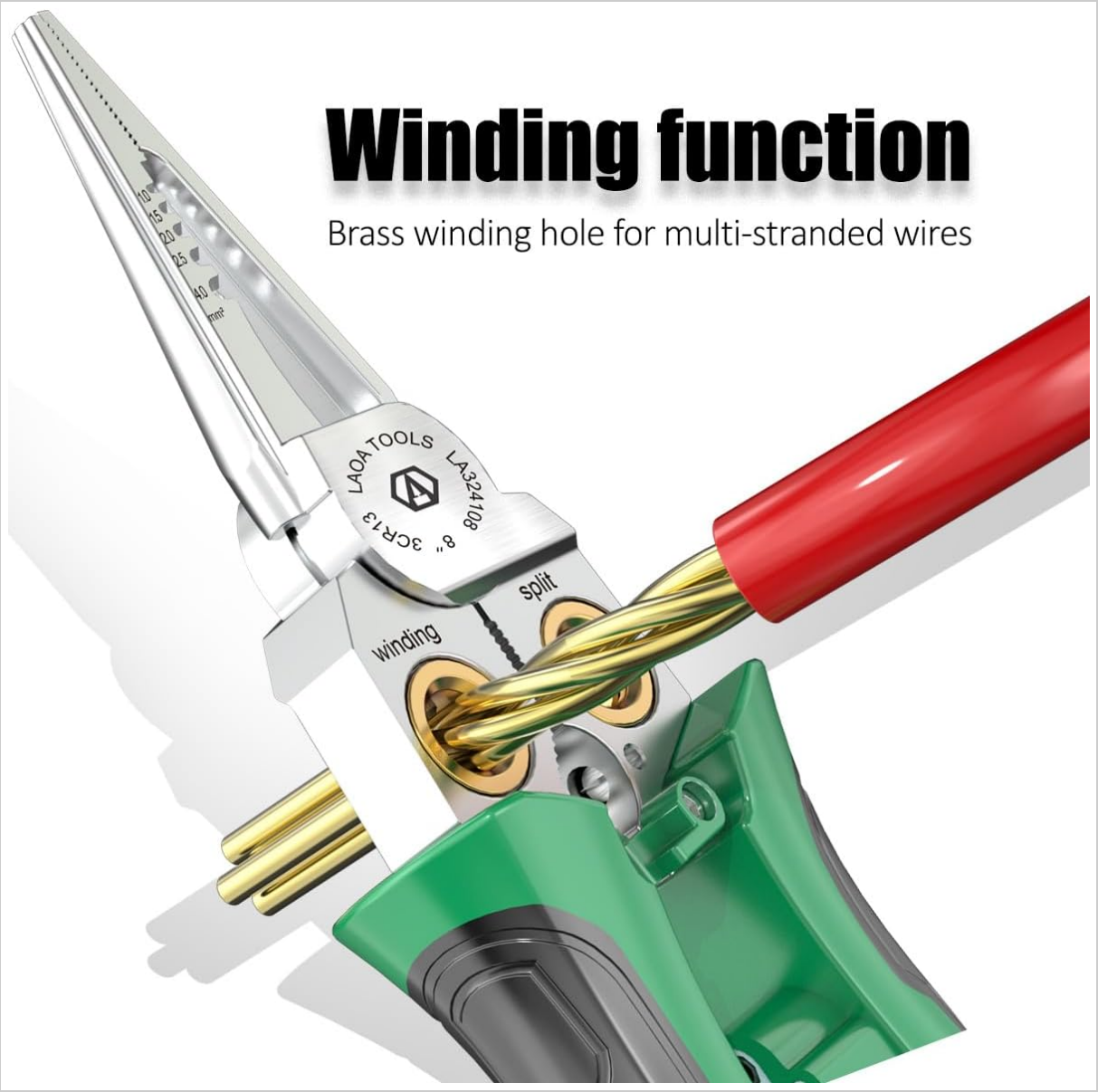
This image shows the 'Winding function' in action, where the brass winding hole is used to neatly twist multi-stranded wires, preparing them for termination.

5.5. Pulling Wire and Clamping

The serrated jaws at the tip of the pliers provide a strong grip for pulling wires, bending, or holding small components securely.

5.6. Opening Cable (Outer Skin)

A built-in sharp skinning knife allows for precise and safe removal of the outer jacket of larger cables.



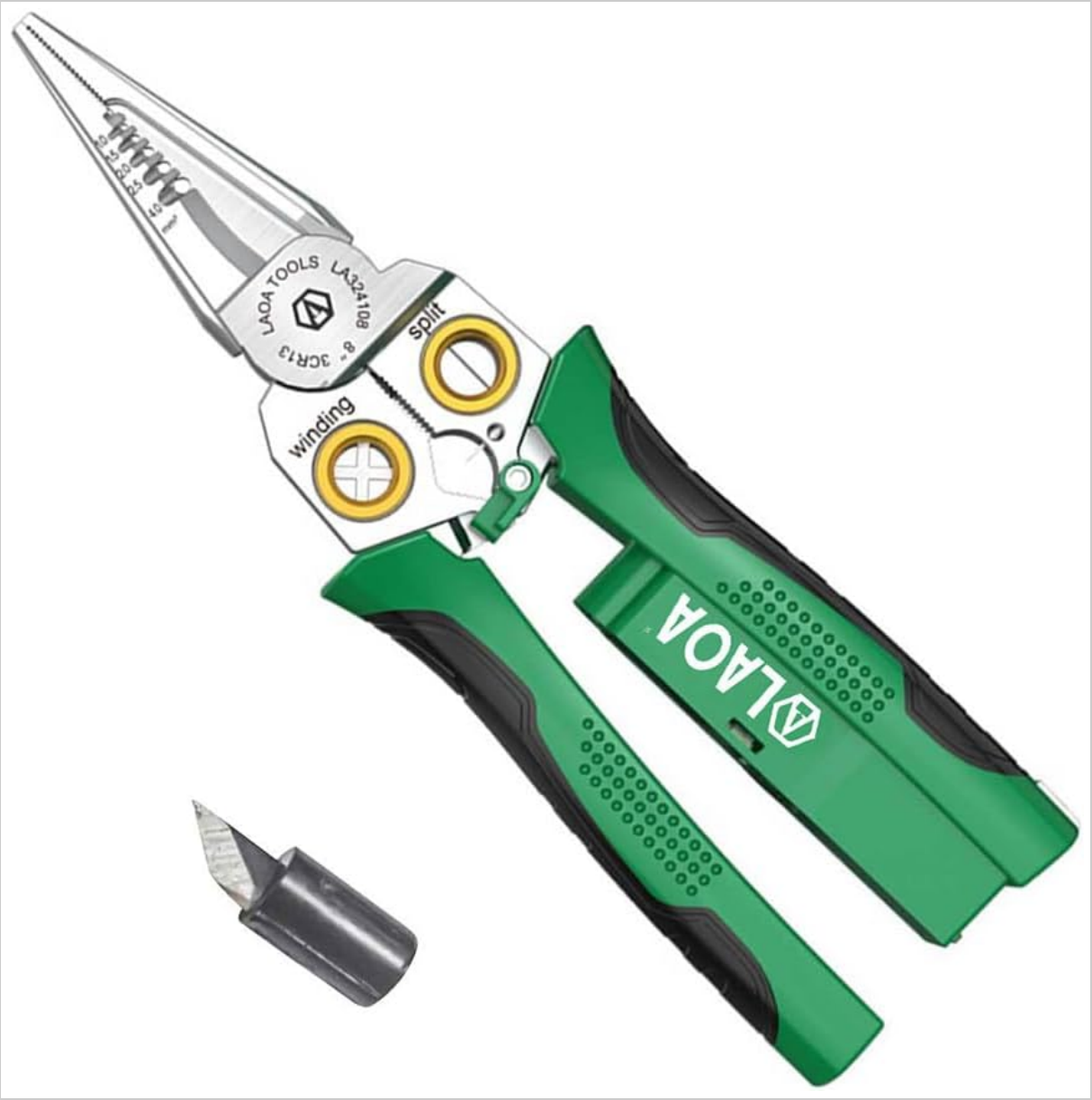
This image illustrates the 'Open Cable' function, where the tool's integrated sharp skinning knife is used to safely remove the outer insulation of a multi-conductor cable.

5.7. Voltage Testing (Electrometer Function)

The integrated voltage tester can detect AC/DC voltage between 12V-250V. To use, ensure your palm makes contact with the sensor plate on the handle.

- **Contact with Live Wire (Firewire):** The internal light will glow **red**, and an audible buzzer will sound.
- **Contact with Neutral Line (Zero Line):** The internal light will glow **green**, and no sound will be emitted.
- **Sense of Continuity:** A green light indicates continuity. If the light does not come on, there is no continuity.

Important Note: This function is for quick diagnostic checks only. It is not a substitute for a dedicated, fully insulated voltage meter. Always confirm power is off using a certified voltage tester before beginning work.



This image explains the electrometer function, detailing how the tool indicates contact with a live wire (red light, horn) or a neutral line (green light, no sound). It also shows the green light for continuity testing and includes a crucial safety note about the non-insulated nature of the stylus function and the need for hand contact.

6. Maintenance

- **Cleaning:** After each use, wipe the tool clean with a dry cloth to remove any debris or residue. Do not use abrasive cleaners or solvents.
- **Blade Replacement:** The tool features a replaceable blade for the cable opening function. Use the included Allen wrench to loosen the retaining screw, replace the blade, and then secure it.
- **Storage:** Store the tool in a dry, safe place away from moisture and extreme temperatures.
- **Battery Replacement:** If the voltage tester's indicator lights become dim or unresponsive, replace the button cell batteries using the provided small screwdriver.

7. Troubleshooting

- **Voltage Tester Giving False Readings:** Ensure your hand is firmly in contact with the sensor plate on the handle. Environmental factors or static electricity can sometimes influence readings if not properly grounded through hand contact. Re-test in a different location or with a known live/neutral source to

verify functionality.

- **Difficulty Stripping Wires:** Verify that the correct stripping hole is selected for the wire gauge. Ensure the blade is clean and free of debris.
- **Blade Not Cutting Effectively:** Check for any damage or dullness on the cutting edges. If the cable opening blade is dull, replace it as per the maintenance section.

8. Specifications

Brand	LAOA
Model Number	8-in-1
Material	Stainless Steel (Tool Head), Plastic/Rubber (Handle)
Product Dimensions	8.6"L x 3.2"W
Item Weight	10.4 ounces
Color	Green
Grip Type	Ergonomic
Wire Stripping Capacity	AWG18, 14, 12, 10, 6 / 1.0, 1.5, 2.0, 2.5, 4.0mm²
Cable Cutting Capacity	Up to 25mm²
Dividing Line Capacity	2*1.5mm²
Voltage Test Range	AC/DC 12V-250V
Batteries Required	Yes (Button Cells for Voltage Tester)

9. Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact LAOA customer service through their official channels. Keep your purchase receipt as proof of purchase.