

Draper 68894

Draper Expert 68894 150 mm Wire-Stripping Pliers

User Manual

1. INTRODUCTION

This manual provides instructions for the safe and effective use of the Draper Expert 68894 150 mm Wire-Stripping Pliers. These pliers are designed for stripping insulation from electrical wires. The tool is constructed from drop-forged chrome vanadium steel, hardened and tempered, with induction-hardened cutting edges. It features a lacquered finish for corrosion protection and fully insulated, soft-grip handles with slip guards. This tool is manufactured to DIN Standard.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment, such as safety glasses, when using hand tools.
- Ensure the power supply to any electrical wires is disconnected before attempting to strip them.
- Inspect the pliers before each use for any signs of damage, especially to the handles and cutting edges. Do not use damaged tools.
- Keep hands and fingers clear of the cutting and stripping jaws during operation.
- Use the correct size and type of tool for the job. These pliers are designed for wire stripping; do not use them for cutting hardened steel or other inappropriate materials.
- Store the pliers in a dry, secure place, out of reach of children.

3. PRODUCT OVERVIEW

3.1 Components

- **Stripping Jaws:** The primary mechanism for removing wire insulation.
- **Adjustment Screw:** Allows for precise setting of the stripping depth to accommodate various wire gauges.
- **Handles:** Ergonomically designed with soft grips and slip guards for comfortable and secure

handling. Fully insulated for electrical safety.

- **Pivot Point:** The hinge mechanism allowing the jaws to open and close.

3.2 Features

- Manufactured from hardened and tempered chrome vanadium steel for durability.
- Induction hardened cutting edges for extended tool life.
- Lacquered finish provides corrosion protection.
- Fully insulated soft grip handles with slip guards enhance safety and comfort.
- Designed to meet DIN and CE standards.



An overhead view of the Draper Expert 68894 150 mm Wire-Stripping Pliers, showcasing its ergonomic blue and black handles, the chrome vanadium steel body, and the adjustable wire stripping mechanism.

4. SETUP

Before stripping any wire, it is crucial to adjust the pliers to the correct wire gauge to prevent damage to the conductor or incomplete stripping of the insulation.

1. **Identify Wire Gauge:** Determine the gauge (thickness) of the wire you intend to strip. This information is often printed on the wire's insulation or can be measured with a wire gauge tool.
2. **Adjust Stripping Mechanism:** Locate the adjustment screw on the pliers. Turn the screw clockwise to decrease the stripping depth (for thinner wires) or counter-clockwise to increase the stripping depth (for thicker wires).
3. **Test on Scrap Wire:** Before working on your final project, test the adjustment on a piece of scrap wire of the same gauge. The pliers should cleanly cut through the insulation without nicking or damaging the conductor wires underneath. Adjust as necessary until a clean strip is achieved.

5. OPERATING INSTRUCTIONS

Follow these steps to safely and effectively strip wire insulation:

1. **Prepare the Wire:** Ensure the wire is straight and free from kinks in the section to be stripped.

- Position the Wire:** Open the pliers and place the wire into the stripping jaws at the desired length to be stripped. Ensure the wire is seated firmly against the stop or at the appropriate depth.
- Apply Pressure:** Slowly and firmly close the handles of the pliers. The jaws will cut through the insulation.
- Remove Insulation:** Once the insulation is cut, maintain pressure on the handles and pull the pliers straight off the end of the wire. The insulation should slide off cleanly, leaving the conductor exposed.
- Inspect the Result:** Examine the stripped wire. The conductor should be intact, with no nicks, cuts, or stray strands. If the conductor is damaged, readjust the pliers and repeat the process on a fresh section of wire.



A close-up image demonstrating the Draper Expert Wire-Stripping Pliers in action. A user's hand holds the pliers, which are engaged in stripping the red insulation from an electrical wire, revealing the copper conductor beneath. This illustrates the precise function of the tool.

6. MAINTENANCE

- Cleaning:** After each use, wipe the pliers clean with a dry cloth to remove any dust, debris, or insulation residue. For stubborn grime, a slightly damp cloth can be used, followed by thorough drying.
- Lubrication:** Periodically apply a small amount of light machine oil to the pivot point to ensure smooth operation.
- Storage:** Store the pliers in a clean, dry environment to prevent rust and corrosion. Keep them away from excessive moisture and extreme temperatures.
- Inspection:** Regularly inspect the jaws for wear or damage. Ensure the handles are securely attached and the insulation is intact.

7. TROUBLESHOOTING

- Wire is not stripping cleanly:** The adjustment screw may be set too wide. Tighten the adjustment screw slightly and test on a scrap piece of wire.
- Wire conductor is being nicked or cut:** The adjustment screw may be set too tight. Loosen the adjustment screw slightly and test on a scrap piece of wire.
- Pliers feel stiff or difficult to operate:** The pivot point may require lubrication. Apply a small amount of light machine oil to the pivot.

8. SPECIFICATIONS

Specification	Detail
Brand	Draper
Model Number	68894
Size	150 mm
Material	Alloy Steel (Chrome Vanadium Steel)
Handle Material	Alloy Steel with Soft Grip Insulation
Color	Blue
Item Weight	0.17 Kilograms (approx. 6 ounces)
Grip Type	Ergonomic
Standards Met	DIN, CE
Product Dimensions	9.72 x 3.78 x 1.26 inches

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts, please refer to the official Draper Tools website or contact their customer service department. Specific warranty terms may vary by region and purchase date.