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> KNIPEX 97 32 240 Crimping Pliers 9, 45" with Oval-Crimp 240mm Multicoloured Instruction Manual

KNIPEX 97 32 240

KNIPEX 97 32 240 Crimping Pliers Instruction Manual

Model: 97 32 240

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1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your KNIPEX 97 32 240 Crimping Pliers. These pliers are designed for various electrical tasks, including cable cutting, stripping wires, and crimping insulated terminals and insulated shrink connectors. The tool features a black lacquered finish, multi-component grips for comfort, and a bolted joint for enhanced stability and smooth operation.

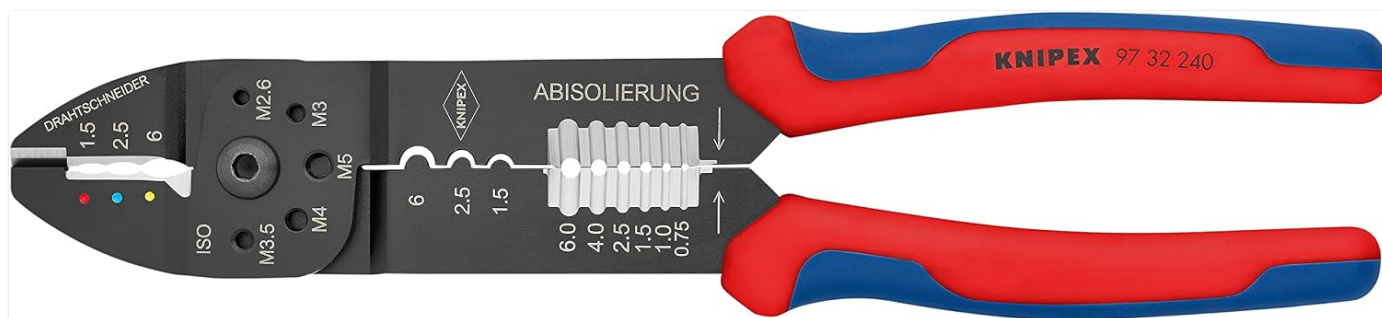


Figure 1.1: KNIPEX 97 32 240 Crimping Pliers in closed position. This image shows the overall design of the pliers, highlighting the black lacquered finish and the ergonomic red and blue multi-component grips.

2. SAFETY INFORMATION

Always observe the following safety precautions when using the crimping pliers:

- **Eye Protection:** Always wear appropriate eye protection (safety glasses or goggles) to shield against flying debris, especially when cutting or stripping wires.
- **Insulation:** These pliers are not insulated for protection against electrical shock. Do not use them on live electrical circuits. Always ensure power is disconnected before working on electrical components.
- **Proper Use:** Use the tool only for its intended purpose: cutting, stripping, and crimping wires and terminals. Misuse

can lead to injury or damage to the tool.

- **Inspection:** Before each use, inspect the pliers for any signs of damage, such as cracks, bends, or worn jaws. Do not use damaged tools.
- **Secure Grip:** Maintain a firm and secure grip on the tool and the workpiece to prevent slipping.
- **Storage:** Store the pliers in a dry, safe place, out of reach of children.

3. SETUP

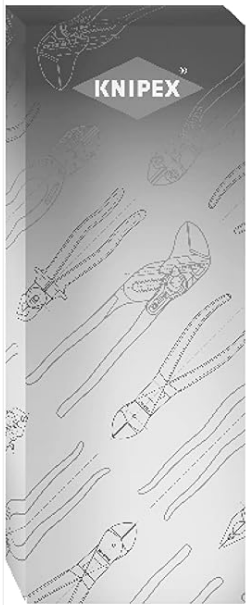
The KNIPEX 97 32 240 Crimping Pliers are ready for use out of the box. No assembly is required. Before first use, and periodically thereafter, perform a visual inspection:

1. **Unpacking:** Carefully remove the pliers from their packaging.
2. **Initial Inspection:** Check the tool for any visible damage that may have occurred during shipping. Ensure the jaws open and close smoothly without excessive play.
3. **Cleanliness:** Wipe down the tool with a clean, dry cloth to remove any manufacturing residues or packaging dust.

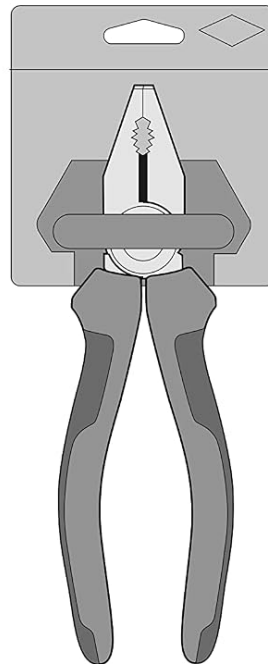
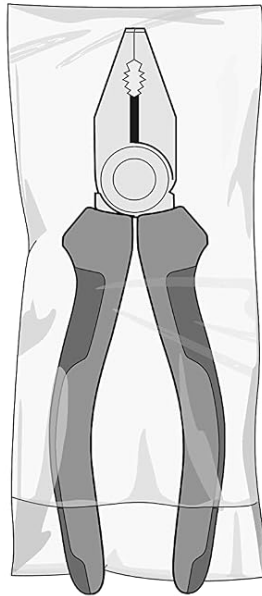
Packaging options Verpackungsvarianten



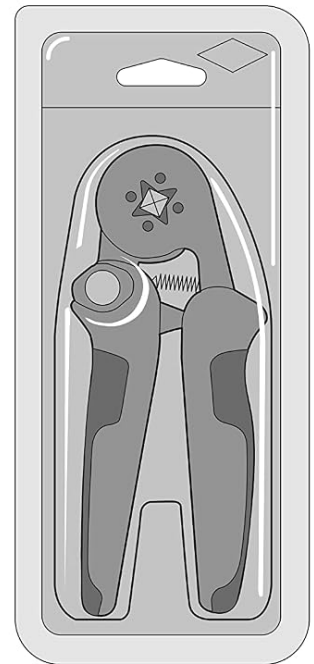
Standard packaging /
Standardverpackung



Self-Service packaging /
Selbstbedienungsverpackung



Blister card packaging /
Blisterkartenverpackung



Exemplarische Produktauswahl / Exemplary product selection

Figure 3.1: Example packaging options for KNIPEX pliers. Your pliers may come in standard, self-service, or blister card packaging.

4. OPERATING INSTRUCTIONS

The KNIPEX 97 32 240 Crimping Pliers are a versatile tool designed for precision work. Always ensure the power source is disconnected when working with electrical wires.

4.1. Wire Cutting

Use the designated cutting edge for clean and precise cuts on electrical wires. The cutting capacity is indicated on the tool.

1. Identify the wire cutting section of the pliers, typically marked with "DRAHTSCHNEIDER" and size indications (e.g., 1.5, 2.5, 6 mm²).
2. Place the wire firmly within the appropriate cutting jaw.
3. Apply steady pressure to the handles to cut the wire.



Figure 4.1: Demonstrating wire cutting with the pliers. The image shows a copper wire being cut by the designated cutting edge.

4.2. Wire Stripping

The pliers feature multiple stripping holes for various wire gauges, indicated by "ABISOLIERUNG" and specific wire cross-sections (e.g., 0.75, 1.0, 1.5, 2.5, 4.0, 6.0 mm²).

1. Select the stripping hole that matches the gauge of the wire you intend to strip.
2. Insert the wire into the chosen stripping hole, ensuring only the insulation is within the stripping jaws.
3. Close the handles firmly to cut the insulation, then pull the wire to remove the stripped insulation.

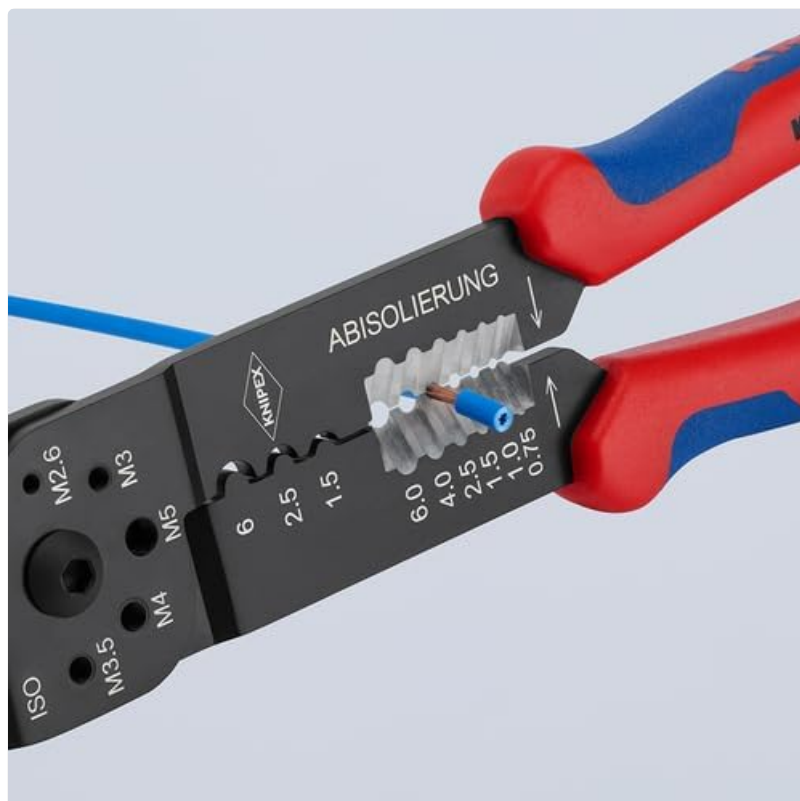


Figure 4.2: Wire stripping in progress. A blue insulated wire is being stripped using the appropriate stripping hole on the pliers.

4.3. Crimping Insulated Terminals and Shrink Connectors

The pliers are equipped with crimping dies for insulated terminals and shrink connectors, typically color-coded (red, blue, yellow) to match standard terminal insulation colors and corresponding wire gauges.

1. Prepare the wire by stripping the insulation to the appropriate length for the terminal.
2. Insert the stripped wire into the terminal.
3. Select the crimping die that matches the color and size of your insulated terminal (e.g., red for 0.5-1.0 mm², blue for 1.5-2.5 mm², yellow for 4.0-6.0 mm²).
4. Place the terminal with the wire into the selected crimping die.
5. Squeeze the handles firmly and completely until the crimp is secure. A proper crimp should hold the wire firmly without pulling out.

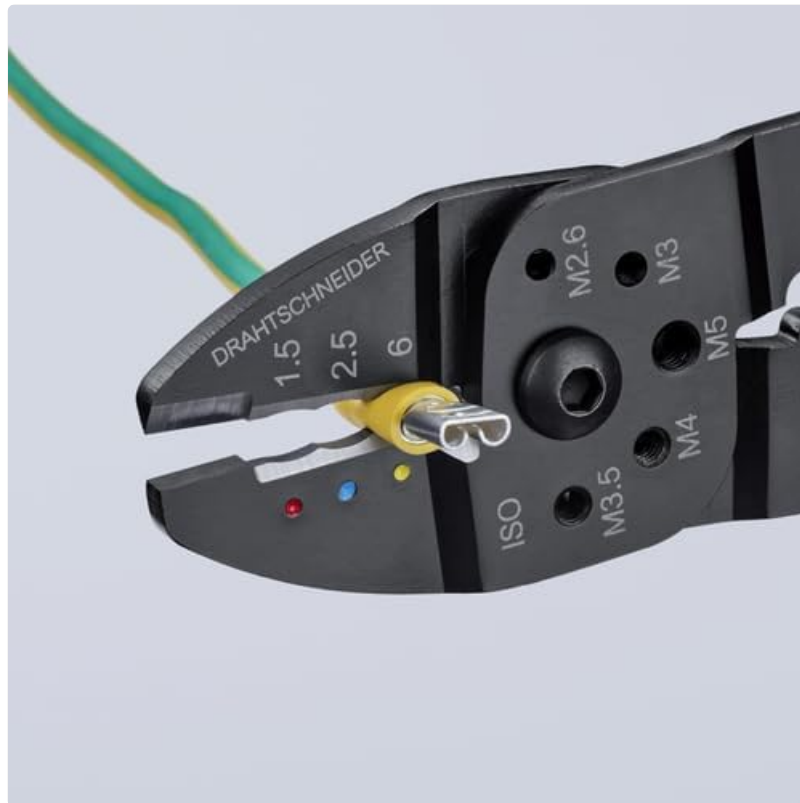


Figure 4.3: Crimping a yellow insulated terminal. The pliers are shown securely crimping a terminal onto a wire.



Figure 4.4: Crimping a blue insulated terminal. This image illustrates the crimping process for a blue terminal, demonstrating the tool's versatility.

4.4. Bolt Cutting

The pliers include threaded holes for cutting bolts of specific diameters (e.g., M2.6, M3, M3.5, M4, M5).

1. Identify the bolt cutting section and the appropriate threaded hole for your bolt size.
2. Thread the bolt into the corresponding hole until the desired length is exposed on the other side.
3. Close the handles firmly to cut the bolt. The cut end should be clean and free of burrs.

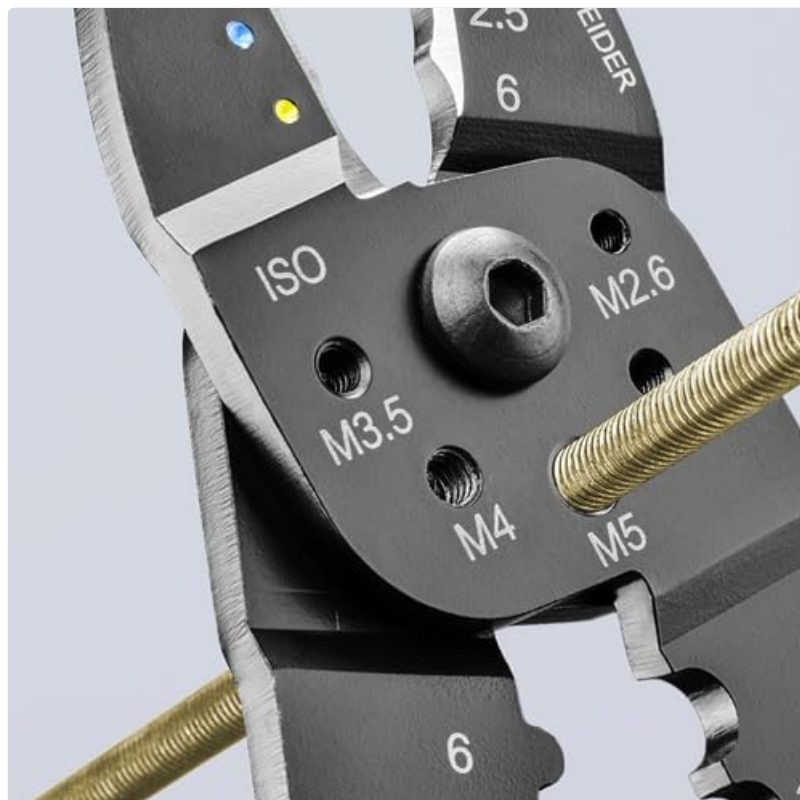


Figure 4.5: Bolt cutting function. The image shows a threaded bolt being cut using the integrated bolt cutter on the pliers.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your KNIPEX pliers.

- **Cleaning:** After each use, wipe the pliers clean with a dry cloth to remove any dirt, dust, or debris. For stubborn grime, a slightly damp cloth can be used, followed by immediate drying.
- **Lubrication:** Periodically apply a small amount of light machine oil to the joint to ensure smooth operation and prevent rust. Wipe off any excess oil.
- **Storage:** Store the pliers in a dry environment to prevent corrosion. Keep them away from excessive moisture or corrosive chemicals.
- **Inspection:** Regularly inspect the cutting edges and crimping dies for wear or damage. If the cutting edges become dull or chipped, or if the crimping dies show significant wear, consider professional sharpening or replacement if necessary.

6. TROUBLESHOOTING

Most issues with hand tools can be resolved with proper care and usage. Below are common issues and their solutions:

Problem	Possible Cause	Solution
Pliers feel stiff or difficult to open/close.	Lack of lubrication at the joint; accumulation of dirt.	Clean the joint area and apply a few drops of light machine oil. Work the handles to distribute the oil.
Wire not cutting cleanly.	Dull or damaged cutting edge; attempting to cut material beyond capacity.	Inspect cutting edge for damage. Ensure you are cutting within the tool's specified capacity. If dull, professional sharpening may be required.
Wire insulation not stripping cleanly.	Incorrect stripping hole size selected; dull stripping blades.	Ensure the correct stripping hole is used for the wire gauge. Inspect stripping blades for wear.
Crimped terminal is loose or not secure.	Incorrect crimping die used; insufficient pressure applied; wrong terminal type for tool.	Verify the crimping die matches the terminal size and color. Apply full, firm pressure until the handles are fully closed. Ensure the terminal is designed for this type of crimper.

7. SPECIFICATIONS

Key technical specifications for the KNIPEX 97 32 240 Crimping Pliers:

Brand: KNIPEX

Model Number: 97 32 240

Product Dimensions: 9.45"L x 1.26"W (240mm length)

Item Weight: 9.2 ounces

Color: Multicoloured (Red/Blue grips)

Handle Material: Brass (internal components, grips are multi-component)

Grip Type: Ergonomic, Multi-component

Usage: Cable cutting, stripping wires, crimping insulated terminals and insulated shrink connectors

Joint: Bolted joint for high stability and smooth movement

Material: High-strength special steel

Power Source: Hand-operated

8. WARRANTY & SUPPORT

KNIPEX tools are known for their high quality and durability. For specific warranty information, please refer to the warranty card included with your product or visit the official KNIPEX website. In case of questions, technical support, or warranty claims, please contact KNIPEX customer service directly.

KNIPEX Official Website: www.knipex.com

Please have your model number (97 32 240) and purchase details ready when contacting support.

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