

KNIPEX 97 71 180

KNIPEX 97 71 180 Crimping Pliers for Wire Ferrules Instruction Manual

Model: 97 71 180

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use, maintenance, and care of your KNIPEX 97 71 180 Crimping Pliers for Wire Ferrules. Please read this manual thoroughly before operating the tool and retain it for future reference.

2. SAFETY INFORMATION

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

- **Eye Protection:** Always wear appropriate eye protection to prevent injury from flying debris.
- **Inspect Tool:** Before each use, inspect the pliers for any damage, wear, or loose parts. Do not use damaged tools.
- **Proper Application:** Use the pliers only for their intended purpose: crimping wire ferrules. Do not use them as a hammer, pry bar, or for cutting hardened materials.
- **Secure Workpiece:** Ensure the wire and ferrule are properly positioned and stable before crimping.
- **Keep Hands Clear:** Keep fingers and other body parts away from the crimping jaws during operation.
- **Storage:** Store the tool in a dry, secure place, out of reach of children.

3. PRODUCT OVERVIEW

The KNIPEX 97 71 180 Crimping Pliers are designed for reliable crimping of wire ferrules. Key features include:

- Precision crimping profiles for various ferrule sizes.
- Ergonomic handles for comfortable operation.
- Durable construction for long service life.



Figure 1: Overview of the KNIPEX 97 71 180 Crimping Pliers. The image displays the pliers with red handles and polished steel jaws, showing the various crimping profiles and the KNIPEX branding.

4. SETUP

The KNIPEX 97 71 180 Crimping Pliers are ready for use out of the packaging. No assembly is required. Before first use, ensure the tool is clean and free from any packaging materials.

5. OPERATING INSTRUCTIONS

Follow these steps for proper crimping of wire ferrules:

1. **Prepare the Wire:** Strip the insulation from the end of the wire to the appropriate length for the ferrule being used. The stripped length should match the metal tube length of the ferrule.
2. **Insert Wire into Ferrule:** Insert the stripped end of the wire completely into the ferrule. Ensure all wire strands are contained within the ferrule's metal tube.
3. **Select Crimping Profile:** Identify the correct crimping profile on the pliers that matches the size of your wire ferrule. The pliers feature multiple profiles for different ferrule sizes (e.g., 1.5, 2.5, 4, 6, 10, 16 mm²).
4. **Position Ferrule:** Place the ferrule, with the wire inserted, into the selected crimping profile of the pliers. Ensure the ferrule is seated firmly and squarely within the jaws.

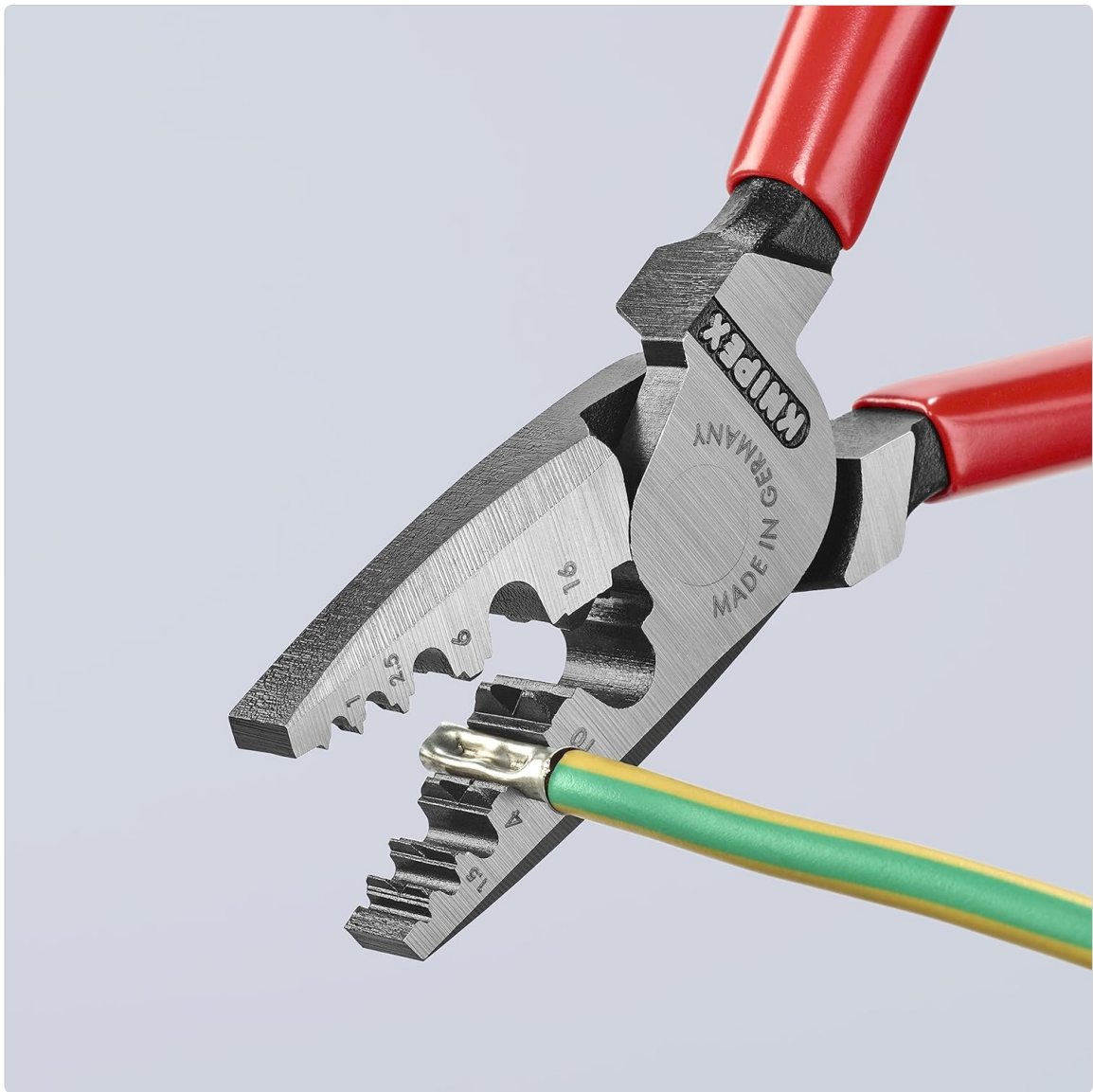


Figure 2: The image shows a wire ferrule with a green and yellow wire inserted into the crimping jaws of the pliers, ready for crimping. The ferrule is positioned in the appropriate size slot.

5. **Perform Crimping:** Squeeze the handles of the pliers firmly and completely until the crimping action is finished. The pliers are designed to apply the correct pressure for a secure crimp.



Figure 3: This image depicts the pliers in the process of crimping a wire ferrule. The jaws are partially closed, compressing the ferrule around the wire strands.

6. **Inspect Crimped Connection:** After crimping, release the handles and remove the ferrule. Visually inspect the crimp for proper formation. The ferrule should be securely fastened to the wire, and the wire strands should not be visible or loose. A gentle tug test can confirm the connection's integrity.



Figure 4: The image shows a fully crimped wire ferrule, securely attached to the wire, demonstrating a successful crimp. The pliers are open, revealing the crimped ferrule.

6. MAINTENANCE

- **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 thorough drying.
- **Lubrication:** Periodically apply a small amount of light machine oil to the pivot points to ensure smooth operation and prevent rust.
- **Storage:** Store the pliers in a dry environment to prevent corrosion. Keep them away from corrosive chemicals.

7. TROUBLESHOOTING

If you encounter issues during operation, consider the following:

- **Poor Crimp Quality:**
 - Ensure the correct crimping profile is selected for the ferrule size.
 - Verify the wire is fully inserted into the ferrule and all strands are captured.
 - Apply sufficient pressure by fully closing the pliers handles.
- **Difficulty Squeezing Handles:**
 - Check if the correct ferrule size is used for the selected crimping profile. Using an oversized ferrule can make crimping difficult.
 - Lubricate the pivot points if the pliers feel stiff.

8. SPECIFICATIONS

Attribute	Value
Model Number	97 71 180
Brand	KNIPEX
Part Number	97 71 180

Attribute	Value
Product Dimensions	18.03 x 4.95 x 1.65 cm
Item Weight	0.28 g
Size	7.08-Inch
Colour	Red and Silver
Material	Blend (Handle: red, silver)
Power Source	Hand-powered
Certification	RoHS
Usage	Electrical work, Retrofitting, IT server room, Domestic electrical systems, Lighting and entertainment electronics installation
Country of Origin	China
UPC	843221006228


9. WARRANTY AND SUPPORT



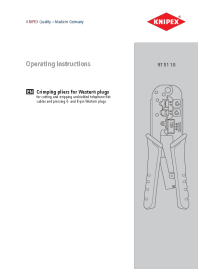
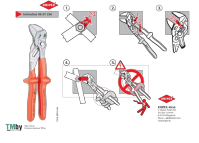

For information regarding warranty coverage, product support, or service, please refer to the official KNIPEX website or contact KNIPEX customer service directly. Contact details can typically be found on the manufacturer's packaging or website.

Manufacturer: KNIPEX Tools LP

Website: www.knipex.com

Related Documents - 97 71 180

	<p>KNIPEX 97 53 04 Self-Adjusting Crimping Pliers for Wire Ferrules</p> <p>Detailed information on the KNIPEX 97 53 04 self-adjusting crimping pliers for wire ferrules, featuring lateral access, automatic adjustment, ratchet mechanism, and high crimping force. Specifications include capacity, dimensions, and materials.</p>
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	<p>KNIPEX 97 22 240 Crimping Pliers: Operating Instructions</p> <p>Detailed operating instructions for the KNIPEX 97 22 240 Crimping Pliers, covering general information, safety guidelines, tool design and function, step-by-step operation for crimping, stripping, and cutting, maintenance, technical data, and disposal information.</p>
	<p>KNIPEX SmartGrip Water Pump Pliers 250mm (8501250) - Technical Specifications</p> <p>Detailed specifications and product description for the KNIPEX SmartGrip water pump pliers 250mm (model 8501250). Features include automatic adjustment, self-locking grip, and ergonomic design. Suitable for plumbing, installation, and maintenance tasks.</p>
	<p>KNIPEX 97 51 10 Operating Instructions: Crimping Pliers for Western Plugs</p> <p>Detailed operating instructions for the KNIPEX 97 51 10 crimping pliers, covering intended use, design, function, operation for RJ11/12 and RJ45 plugs, maintenance, and technical specifications.</p>
	<p>KNIPEX Cobra Pliers Instruction Manual</p> <p>Instruction manual for KNIPEX Cobra Pliers (86 07 250), detailing usage and safety precautions.</p>
	<p>KNIPEX 95 36 250/280 Cable Cutter Instruction Manual</p> <p>Detailed instruction manual for KNIPEX 95 36 250 and 95 36 280 cable cutters, covering functions, applications, maintenance, and safety procedures for electrical installations and live cable cutting.</p>