

FGBNM 328ft Rope Set+Crimper

FGBNM 328ft Wire Rope Crimping Tool Kit Instruction Manual

1. INTRODUCTION

Thank you for choosing the FGBNM 328ft Wire Rope Crimping Tool Kit. This kit provides the essential tools and components for various wire rope applications, including railing, decking, picture hanging, and other DIY projects. This manual will guide you through the safe and effective use of your new kit.

1.1. Kit Contents

- 1 x Heavy-Duty Crimping Pliers (with integrated cutters)
- 1 x Roll of 1/16 inch x 328 feet (100m) 304 Stainless Steel Wire Rope Cable
- 200 x Aluminum Crimping Sleeves (1.5mm / 1/16 inch)
- 50 x Stainless Steel Thimbles (M5)



Image 1.1: Overview of the FGBNM Wire Rope Crimping Tool Kit, showing the crimping pliers, wire rope spool, aluminum crimping sleeves, and stainless steel thimbles.

2. SAFETY INFORMATION

Please read and understand all safety instructions before using this product. Failure to follow these instructions may result in injury or damage to property.

- Always wear appropriate personal protective equipment, including safety glasses and gloves, when handling wire rope and using the crimping tool.
- Keep hands and fingers clear of the crimping jaws and cutting blades during operation.
- Ensure the work area is well-lit and free from obstructions.
- Do not use the crimping tool for purposes other than its intended use.
- Inspect the tool and components for any damage before each use. Do not use damaged equipment.
- Keep out of reach of children.

3. SETUP

The FGBNM Wire Rope Crimping Tool Kit requires minimal setup. Ensure all components are present and in good condition before beginning your project.

3.1. Inspecting Components

- **Crimping Pliers:** Check the jaws for alignment and ensure the cutting blades are sharp and free from nicks. Verify the self-locking mechanism functions correctly.
- **Wire Rope:** Unroll a small section of the wire rope and inspect for kinks, fraying, or damage.
- **Sleeves and Thimbles:** Ensure sleeves are not deformed and thimbles are smooth and free from sharp edges.

4. OPERATING INSTRUCTIONS

This section details the steps for cutting wire rope and performing secure crimps using the provided tools and accessories.

4.1. Understanding the Crimping Pliers

The crimping pliers feature multiple crimping positions and integrated cutters. The non-slip grips and self-locking mechanism enhance ease of use and safety.

- **Crimping Positions:** The tool has four designated crimping positions for different sleeve sizes: 0.1-0.5mm, 0.5-1.0mm, 1.0-2.0mm, and 2.2mm. Always select the position that best matches the size of your crimping sleeve for a secure connection.
- **Self-Locking Mechanism:** This feature holds the pliers closed after crimping, allowing for a consistent and strong crimp. To release, simply press the small lever.
- **Integrated Cutters:** The pliers include two cutting blades designed for cleanly severing wire rope.



Image 4.1: Detailed view of the crimping pliers, highlighting the four crimping positions, the lock/unlock mechanism, and the integrated cutters.

4.2. Cutting Wire Rope

1. Measure the desired length of wire rope.
2. Place the wire rope between the integrated cutting blades of the crimping pliers.
3. Apply firm, steady pressure to the handles to cut the wire cleanly.

4.3. Forming a Loop with a Thimble and Crimping Sleeve

Thimbles protect the eye of a wire rope from crushing and abrasion, while crimping sleeves secure the loop.

1. Thread the end of the wire rope through one of the aluminum crimping sleeves.
2. Insert a stainless steel thimble into the desired loop position.
3. Bend the wire rope back around the thimble, ensuring the thimble sits snugly within the loop.
4. Pass the end of the wire rope back through the crimping sleeve, creating a secure loop around the thimble. Ensure there is enough tail end for a strong crimp.
5. Select the appropriate crimping position on the pliers (1.5mm / 1/16 inch sleeves typically use the 1.0-2.0mm or 2.2mm position, depending on the exact sleeve and wire combination; test on a scrap piece

- first).
6. Place the crimping sleeve into the chosen crimping position.
 7. Firmly squeeze the handles of the crimping pliers until the self-locking mechanism engages. This ensures a complete crimp.
 8. Release the pliers by pressing the lever.
 9. Inspect the crimp to ensure it is tight and secure, with no slippage of the wire rope. Repeat crimping if necessary, ensuring not to over-crimp and deform the sleeve excessively.



Image 4.2: Visual guide demonstrating the process of creating a secure loop using a thimble and crimping sleeve with the tool.

4.4. Wire Rope Construction

The included wire rope is constructed from 304 stainless steel with a 7x7 strand configuration. This means seven individual wires are twisted together to form a strand, and then seven such strands are twisted around a central core to form the complete rope. This construction provides flexibility, strength, and resistance to rust and corrosion.

4 Crimping Size:

- 0.1-0.5mm
- 0.5-1.0mm
- 1.0-2.0mm
- 2.2mm



Image 4.3: Diagram showing the 7x7 strand construction of the stainless steel wire rope, indicating 49 individual steel wires.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your FGBNM Wire Rope Crimping Tool Kit.

- **Crimping Pliers:** After each use, wipe the pliers clean with a dry cloth to remove any debris. Periodically apply a light oil to the pivot points and jaws to prevent rust and ensure smooth operation. Store in a dry place.
- **Wire Rope:** Store the wire rope spool in a dry environment to prevent corrosion. Avoid kinking or bending the wire rope sharply, as this can compromise its strength.
- **Sleeves and Thimbles:** Store unused sleeves and thimbles in a dry, organized manner to prevent loss or damage.

6. TROUBLESHOOTING

If you encounter issues while using the kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Crimp is not holding securely.	Incorrect crimping position used; insufficient pressure applied; sleeve or wire size mismatch.	Ensure the correct crimping position is selected for the sleeve size. Apply full, firm pressure until the self-locking mechanism engages. Verify sleeve and wire rope compatibility.
Wire rope frays when cut.	Dull cutting blades; improper cutting technique.	Ensure the wire is placed squarely in the cutters. Apply quick, firm pressure. If blades are dull, consider tool replacement or professional sharpening if possible.
Pliers handles stick or are stiff.	Lack of lubrication; dirt/debris in mechanism.	Clean the pliers thoroughly. Apply a light machine oil to all pivot points and moving parts.

7. SPECIFICATIONS

Component	Specification
Crimping Pliers	
Material	Heavy-duty Stainless Steel, Carbon Steel
Crimping Positions	0.1-0.5mm, 0.5-1.0mm, 1.0-2.0mm, 2.2mm
Handle Material	Aluminum, Stainless Steel (Ergonomic Grip)
Wire Rope Cable	
Length	328 feet (100 meters)
Diameter	1/16 inch
Material	304 Stainless Steel
Construction	7x7 Strands
Breaking Strength	368 lbs
Aluminum Crimping Sleeves	
Quantity	200 pieces
Size	1.5mm (1/16 inch)
Material	Aluminum
Stainless Steel Thimbles	

Component	Specification
Quantity	50 pieces
Size	M5
Material	Stainless Steel
General	
Item Weight	3.67 pounds (1.67 Kilograms)
Package Dimensions	13.58 x 4.88 x 4.53 inches

8. WARRANTY AND SUPPORT

No specific warranty information or direct support contact details are provided with this product. For any inquiries or assistance, please refer to your point of purchase or the FGBNM brand's official channels if available.