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> IWISS iCrimp SN-2549 Ratcheting Wire Crimping Tool User Manual

IWISS SN-2549

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Model: SN-2549

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of the IWISS iCrimp SN-2549 Ratcheting Wire Crimping Tool. This tool is designed for crimping uninsulated open barrel terminals across various pitch sizes, including JST, Dupont, and Molex connectors. Please read this manual thoroughly before operation to ensure proper usage and to prevent damage to the tool or injury.

2. SAFETY INFORMATION

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

- Wear appropriate personal protective equipment, such as safety glasses, to protect against flying debris.
- Ensure the work area is clean, well-lit, and free from obstructions.
- Do not use the tool for purposes other than its intended use (crimping open barrel terminals).
- Keep hands and fingers clear of the crimping jaws during operation to avoid pinching.
- Inspect the tool for any damage before each use. Do not use a damaged tool.
- Keep out of reach of children.

3. PRODUCT OVERVIEW

The IWISS iCrimp SN-2549 features a robust design for reliable and consistent crimps. Key components include:

- **Ratcheting Mechanism:** Ensures a complete crimp cycle for secure connections.
- **EDM Processed Jaws:** High-precision jaws for accurate and even crimping.
- **Non-Slip Handles:** Ergonomically designed for comfortable and secure grip during operation.



Figure 3.1: Overview of the IWISS iCrimp SN-2549 Ratcheting Wire Crimping Tool.



Figure 3.2: Detailed features including the ratcheting mechanism, EDM processed jaws, and non-slip handles.



PRECISION EDM JAWS

Figure 3.3: Close-up view of the precision EDM jaws, designed for accurate crimping.

4. OPERATING INSTRUCTIONS

Follow these steps for proper crimping of open barrel terminals:

1. **Strip the Wire:** Carefully strip the insulation from the end of the wire to the appropriate length for your terminal. The exposed conductor should match the length of the terminal's conductor crimp section.
2. **Position the Terminal:** Open the crimping tool and select the correct crimp slot for your terminal size. Insert the open barrel terminal into the chosen slot. Partially close the handles until the terminal is held securely in place by the tool's ratcheting mechanism.
3. **Insert the Wire:** Insert the stripped wire into the terminal. Ensure the conductor is fully seated within the conductor crimp section and the insulation is positioned correctly within the insulation crimp section.
4. **Crimp the Terminal:** Squeeze the handles of the crimping tool firmly until the ratcheting mechanism completes its cycle and releases. This ensures a full and consistent crimp.

5. **Inspect the Crimp:** Remove the crimped terminal and inspect it. The conductor should be securely crimped, and the insulation should be held firmly without being cut or damaged. Gently tug on the wire to verify the connection's strength.

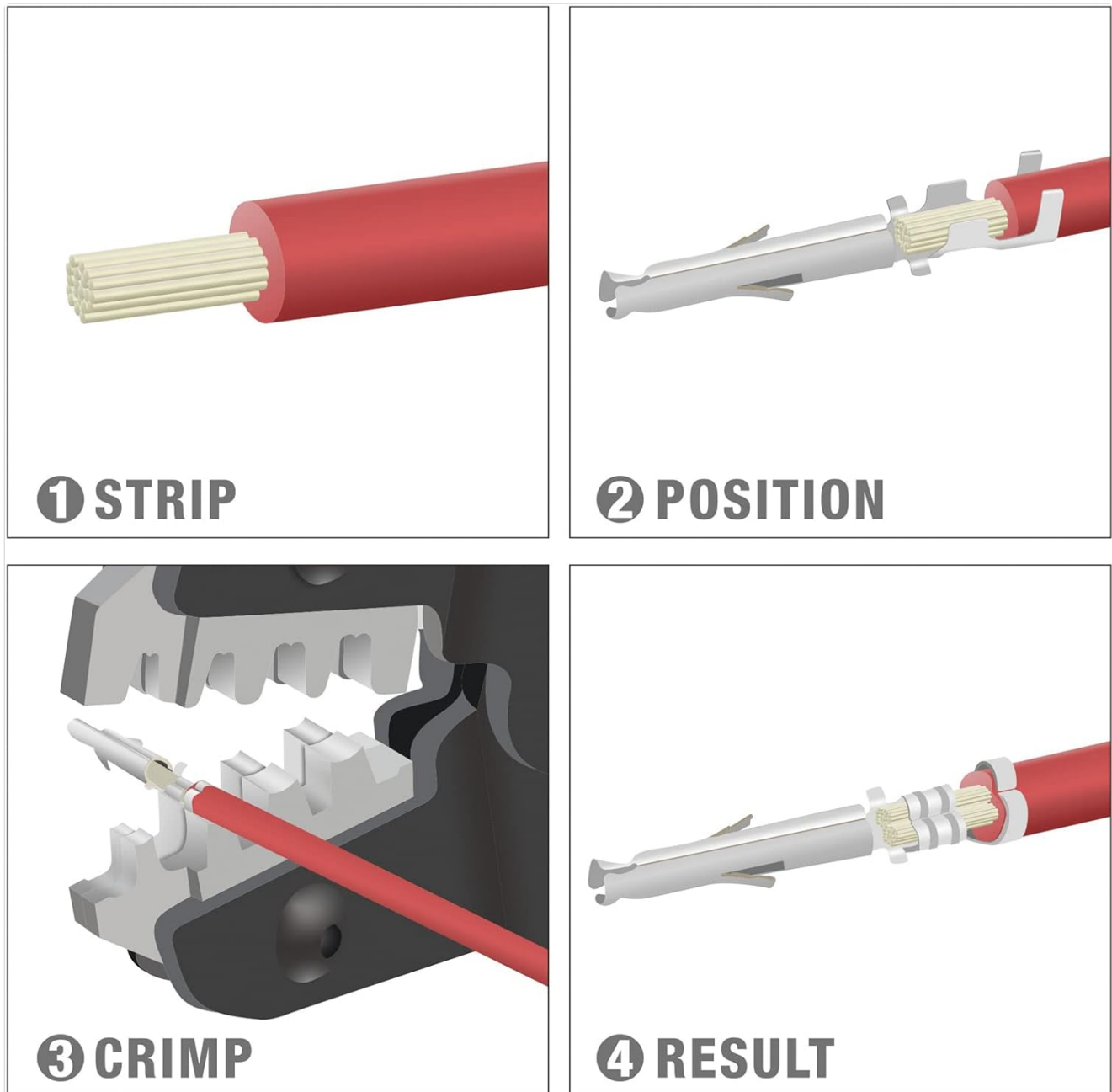


Figure 4.1: Visual guide to the four-step crimping process.

5. APPLICATIONS

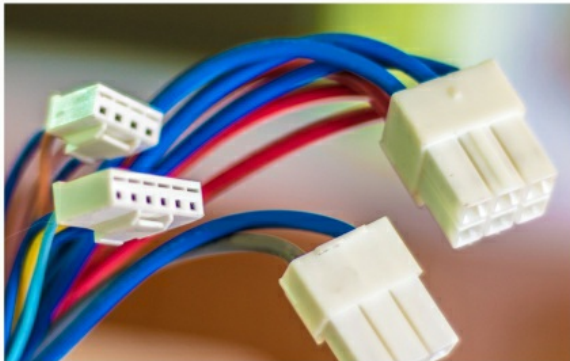
The IWISS iCrimp SN-2549 is suitable for a wide range of electrical and electronic projects, including:

- Creating custom wiring harnesses for JST, Dupont, and Molex connectors.
- Repairing or modifying wiring in rechargeable battery packs and battery balancers.
- Connecting components in 3D printers and other hobby electronics.
- Working with radio-controlled (RC) servos and other RC equipment.
- Prototyping circuits on breadboards.

RATCHETING OPEN BARREL CRIMPER

JST | DUPONT | MOLEX | D-SUB

2.50mm | 2.54mm | 3.96mm



OPEN BARREL TERMINALS

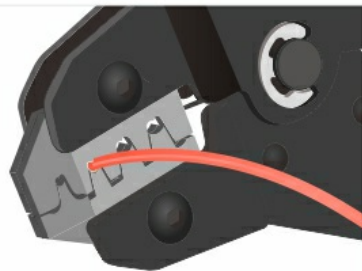
The open barrel crimp tool is designed to crimp non-insulated, open barrel terminals, also known as OEM terminals. It has five crimp stations that roll the open barrel terminal tabs over the wire and insulation, crimping them to the terminal.

Before use, please make sure that wire size meets the standard provided by each connector maker and that the configuration and size of terminal is adaptable to the crimping dies.

QUICK GUIDE



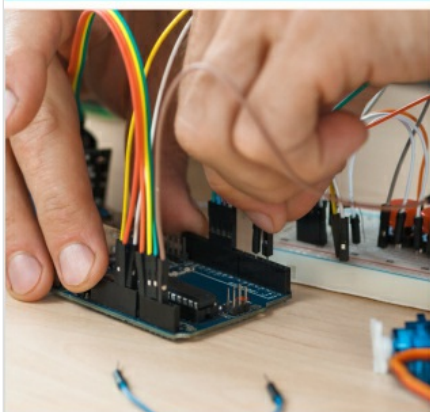
1. Strip the wire into certain length.



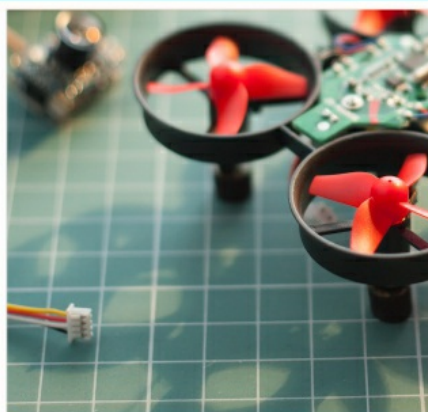
2. Slide the terminal & stripped wire into the crimp cavity.



3. Wire cord & insulation are crimped simultaneously.



BREADBOARDS



QUADCOPTER



BATTERY BALANCER

Figure 5.1: Examples of common applications for the crimping tool.

6. MAINTENANCE

To ensure the longevity and optimal performance of your crimping tool:

- Keep the tool clean and free from dirt, dust, and debris. Wipe it down with a clean, dry cloth after each use.
- Periodically apply a light coat of machine oil to the pivot points and moving parts to ensure smooth operation and prevent rust.
- Store the tool in a dry environment to prevent corrosion.
- Do not attempt to disassemble the tool beyond routine cleaning and lubrication.

7. TROUBLESHOOTING

If you encounter issues with your crimping tool, consider the following:

- **Poor Crimp Quality:**
 - Ensure the correct crimp slot is selected for the terminal size.
 - Verify the wire is stripped to the correct length and fully inserted into the terminal.
 - Confirm the ratcheting mechanism completes its full cycle.
- **Tool Jams:**
 - Check for any foreign objects or debris in the jaws.
 - Ensure the terminal is correctly aligned before crimping.
- **Stiff Operation:**
 - Apply a small amount of lubricant to the pivot points.
 - Clean any accumulated dirt or grime from the moving parts.

If problems persist, contact customer support.

8. SPECIFICATIONS

Attribute	Detail
Model	SN-2549
Brand	IWISS
Crimping Capacity	AWG28-18 (0.08-1.0mm ²)
Compatible Terminals	JST ZH 1.5mm, PH 2.0mm, XH 2.5mm, VH 3.96mm, JWPS 4.0mm Pitch, Dupont 2.54mm Pitch Open Barrel Terminals
Tool Type	Ratcheting Wire Crimping Tool
Handle Material	Ergonomic, Multicolor
Item Weight	13.8 ounces (approx. 391 grams)
Product Dimensions	7.48 x 2.56 x 1.1 inches
Manufacturer	ZHEJIANG IWISS ELECTRIC CO.,LTD

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the official IWISS website or contact their customer

service directly. Keep your purchase receipt for warranty claims.

IWISS Customer Service: [Visit IWISS Contact Page](#)

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