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› Preciva CP83166 Ferrule Crimping Tool Kit User Manual

Preciva CP83166

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Model: CP83166

1. INTRODUCTION

The Preciva CP83166 Ferrule Crimping Tool Kit is designed for creating secure and organized electrical connections. This kit includes a self-adjustable ratchet ferrule crimper, a variety of ferrule connectors, cable ties, and label stickers, all housed in a convenient storage box. This manual provides essential information for the proper setup, operation, and maintenance of your crimping tool kit.

2. PRODUCT COMPONENTS

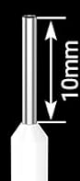
The Preciva CP83166 Ferrule Crimping Tool Kit includes the following items:

- Hexagonal Crimping Pliers (AWG 28-5 / 0.08-16mm²)
- 1500 Pcs Ferrule Connectors (various sizes and colors)
- 150 Pcs Cable Ties
- 60 Pcs Label Stickers
- Double-Layer Storage Box

Terminal Parameters

1650 PCS

Single tube:1500pcs

 E0508 200 PCS 0.5mm ² (22AWG)	 E0510 130 PCS 0.5mm ² (22AWG)	 E7508 200 PCS 0.75mm ² (20AWG)	 E7510 130 PCS 0.75mm ² (20AWG)	 E1008 200 PCS 1.0mm ² (18AWG)	 E1010 130 PCS 1.0mm ² (18AWG)	 E1008 150 PCS 1.5mm ² (16AWG)	 E1010 80 PCS 1.5mm ² (16AWG)
 E2508 70 PCS 2.5mm ² (14AWG)	 E2510 70 PCS 2.5mm ² (14AWG)	 E4009 25 PCS 4mm ² (12AWG)	 E4012 25 PCS 4mm ² (12AWG)	 E6010 25 PCS 6mm ² (10AWG)	 E6012 25 PCS 6mm ² (10AWG)	 E10-12 20 PCS 10mm ² (7AWG)	 E16-12 20 PCS 16mm ² (7AWG)

Marking cable ties and cable ties:150PCS

 Cable ties 100PCS 150mm/5.9in	 Marking cable ties 50PCS 100mm/3.9in
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Figure 2.1: Assortment of ferrule connectors and cable ties. The image displays a table of ferrule sizes (E0508, E0510, E7508, E7510, E1008, E1010, E1508, E1510, E2508, E2510, E4009, E4012, E6010, E6012, E10-12, E16-12) with their respective quantities and wire gauges, along with cable tie dimensions.

3. SETUP

Before beginning any crimping task, ensure you have a clean and well-lit workspace. Unpack all components from the storage box and familiarize yourself with the crimping tool and the various ferrule sizes. Select the appropriate ferrule connector that matches the wire gauge you intend to crimp.

Effective Organization

Upgraded Organizer Suitcase



Figure 3.1: The double-layer storage box provides organized compartments for the crimping tool and various ferrule connectors, facilitating easy access and portability.

4. OPERATING INSTRUCTIONS

4.1. Crimping Process

1. **Prepare the Wire:** Carefully strip the insulation from the end of the wire, exposing the conductor strands. Ensure the stripped length is appropriate for the chosen ferrule.
2. **Insert Ferrule:** Twist the exposed wire strands tightly and insert them completely into the metal tube of the selected ferrule connector.
3. **Position in Crimper:** Place the ferrule with the inserted wire into the hexagonal crimping jaws of the tool. Ensure the ferrule is seated correctly and the wire is fully within the crimping area.
4. **Crimp:** Squeeze the handles of the crimping tool firmly until the ratchet mechanism releases. The tool's self-adjusting feature will apply the correct pressure for a secure hexagonal crimp.
5. **Inspect:** Remove the crimped ferrule and inspect the connection. It should be a tight, uniform hexagonal shape, securely

holding the wire strands.

Zero-Fail Results in **3** Stages

Step 01 Pre-crimp:

prepare & position wire in terminal.

Step 02 Crimp

engage tool for secure compression.

Step 03 After-crimp

inspect & secure crimped connection.

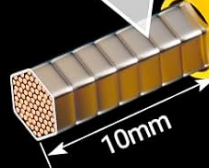
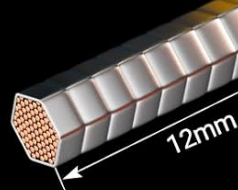


Figure 4.1: The three stages of achieving a secure crimp: preparing and positioning the wire (Step 01 Pre-crimp), engaging the tool for compression (Step 02 Crimp), and inspecting the secure connection (Step 03 After-crimp).

Hexagonal Precise Crimping

Larger Crimping Range And Stable Crimping Effect



Figure 4.2: The hexagonal crimping jaws ensure a precise and stable crimping effect across the AWG 28-5 (0.08-16mm²) range.

4.2. Cable Organization

The kit includes cable ties and label stickers to help organize your wiring projects:

- Use the provided cable ties to bundle and secure wires, preventing tangles and improving neatness.
- Attach label stickers to the marking cable ties and write identifying information (e.g., "Live wire," "Data") to easily identify specific cables within a complex setup.

Cable ties keep away from messy

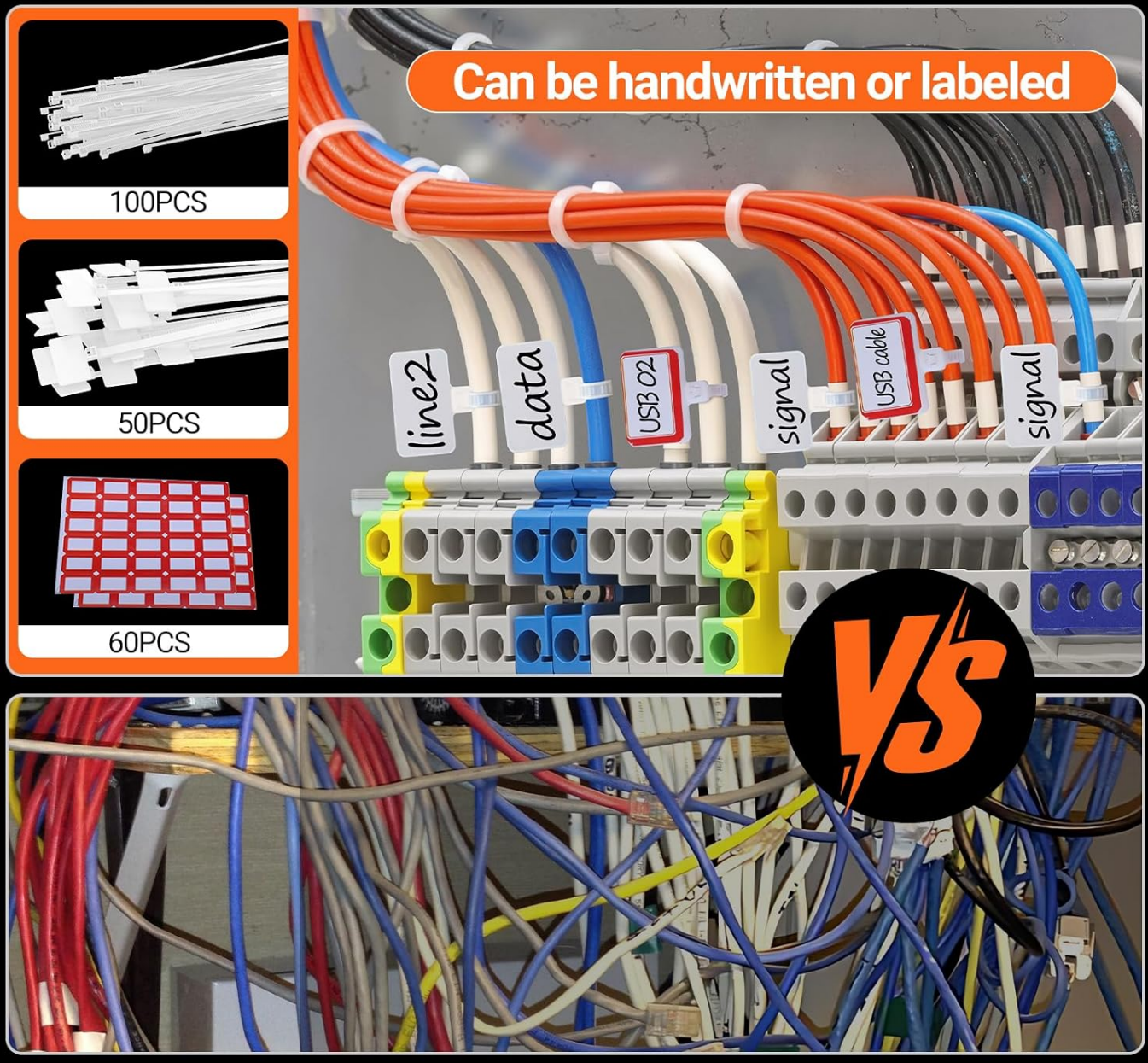


Figure 4.3: Cable ties and label stickers help maintain an organized wiring system, making identification and maintenance easier.

5. PRODUCT FEATURES

- **Effort-Saving Design:** The crimping pliers feature a bow-shaped handle and a flexible shaft mechanism that reduces the required hand force by up to 30% while maintaining consistent crimping strength and effect.
- **Precise and Secure Crimping:** Equipped with an efficient self-adjusting ratchet mechanism and professional-grade crimping dies, the tool ensures perfect and secure hexagonal crimps.
- **Smooth Operation:** Limit points on the jaws prevent them from closing excessively, which helps avoid sticking during operation.
- **Adjustable Crimping Force:** A star disk allows for easy adjustment of crimping pressure, adapting to wires of different thicknesses for fine crimping results.
- **Effective Organization:** The double-layered portable storage box, along with included cable ties and labeling stickers, facilitates easy carrying and organization of tools and connectors.



Figure 5.1: The ergonomic design of the crimping tool, featuring a flexible axis and contoured handle, reduces effort during use.

6. SPECIFICATIONS

Attribute	Detail
Brand	Preciva
Model Number	CP83166
Crimping Range	AWG 28-5 (0.08-16mm ²)
Handle Material	Metal, Rubber/TPE
Grip Type	Contoured
Handle Type	Ergonomic, Flexible

Included Components	Ferrule Crimping Tool, 1500 Ferrules, 150 Cable Ties, 60 Label Stickers, Storage Box
Specific Uses	Electrical Wiring, Wire Organization, Electrical Connections

7. MAINTENANCE

To ensure the longevity and optimal performance of your Preciva Ferrule Crimping Tool Kit, follow these maintenance guidelines:

- **Cleaning:** After each use, wipe down the crimping tool with a clean, dry cloth to remove any dust, debris, or residue.
- **Storage:** Always store the tool and all components in the provided double-layer storage box. This protects them from damage and keeps them organized.
- **Inspection:** Periodically inspect the crimping jaws for any signs of wear, damage, or misalignment. Ensure the ratchet mechanism operates smoothly.
- **Lubrication:** Apply a small amount of light machine oil to the pivot points and moving parts of the crimping tool occasionally to maintain smooth operation.

8. TROUBLESHOOTING

If you encounter issues while using your crimping tool kit, consider the following:

- **Poor Crimp Quality:**
 - Ensure the correct ferrule size is selected for the wire gauge.
 - Verify that the wire is fully inserted into the ferrule and the ferrule is correctly positioned in the crimping jaws.
 - Adjust the crimping force using the star disk if the crimp is too loose or too tight.
- **Jaws Sticking:**
 - Check for any foreign objects or debris lodged in the jaws.
 - Ensure the ferrule and wire are properly aligned before crimping to prevent misalignment that could cause sticking.
 - Do not attempt to over-crimp by forcing the handles beyond the ratchet release point.

9. OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video 9.1: An official product video demonstrating the features and usage of the Preciva Ferrule Crimping Tool Kit, including the crimping process, cable organization, and storage.

10. WARRANTY AND SUPPORT

Preciva is committed to customer satisfaction. If you require assistance with product use, have concerns, or need to inquire about warranty information, please contact our dedicated customer support team. We are ready to provide prompt solutions to ensure your satisfaction.

For support, please refer to the contact information provided with your product packaging or visit the official Preciva website.

ASK A QUESTION ABOUT THIS MANUAL

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