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CABLEMATIC CST500

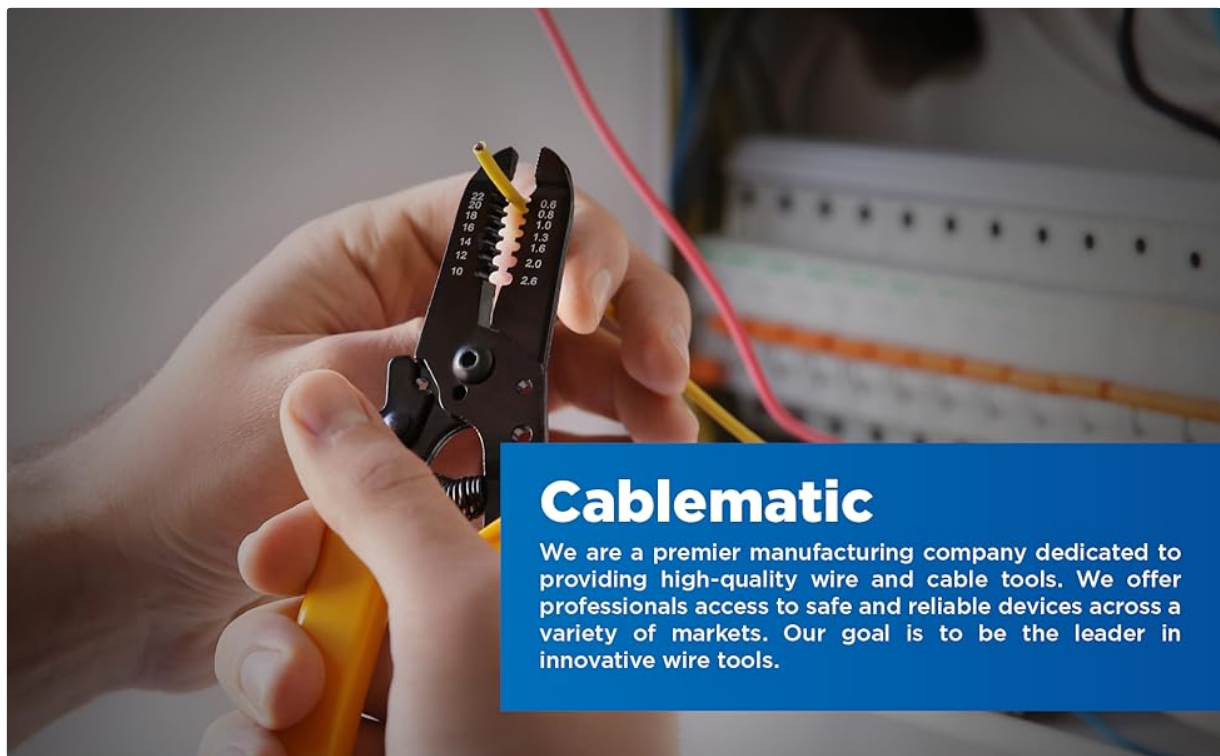


Cablematic CST 500 Coring and Stripping Tool User Manual

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of the Cablematic CST 500 Coring and Stripping Tool. The CST 500 is engineered for professional technicians, electricians, and installers to precisely prepare 500 Kcmil cables by simultaneously stripping the cable sheath and coring the dielectric in a single, efficient step. This tool is designed for compatibility with various cable types, including CommScope P3, Times Fiber T10, and Alcatel/Benelux ACE/ACW cables.

For optimal performance and longevity of your tool, please read this manual thoroughly before operation and retain it for future reference.



Cablematic

We are a premier manufacturing company dedicated to providing high-quality wire and cable tools. We offer professionals access to safe and reliable devices across a variety of markets. Our goal is to be the leader in innovative wire tools.

Image 1.1: Overview of Cablematic's commitment to high-quality wire and cable tools.

2. SAFETY INFORMATION

Always adhere to standard safety practices when using hand tools. Failure to follow these guidelines may result in injury or damage to the tool or cable.

- **Eye Protection:** Always wear appropriate eye protection to shield against flying debris.
- **Gloves:** Consider wearing protective gloves to prevent cuts and abrasions.
- **Tool Condition:** Inspect the tool before each use for any signs of damage or wear. Do not use a damaged tool.
- **Proper Use:** Use the tool only for its intended purpose of coring and stripping cables.
- **Secure Workpiece:** Ensure the cable is stable and secure before beginning any operation.
- **Sharp Blades:** The tool contains sharp blades. Handle with care to avoid injury. Keep fingers clear of cutting edges.
- **Storage:** Store the tool in a safe, dry place, out of reach of children and unauthorized personnel.

3. PRODUCT OVERVIEW

The Cablematic CST 500 is a robust and precise tool designed for efficient cable preparation. It features durable metal construction and heat-treated blades for consistent performance.



Image 3.1: The Cablematic CST 500 Coring and Stripping Tool, shown with included hex keys for adjustments.

Key Features:

- **Precision Cable Prep:** Strips cable sheath and cores dielectric in one step.
- **Integrated Drill Adapter:** Includes a built-in 3/8" drill adapter for powered operation.
- **Ergonomic T-Handle:** Provides comfortable and secure grip for manual use.
- **Durable Construction:** Made from rugged metal with heat-treated blades for extended tool life.
- **Color-Coded Sleeves:** Facilitate quick identification and proper usage.
- **Replaceable Blades:** Sheath cutting blade is heat-treated and replaceable, producing a smooth,

beveled edge.

- **Compact and Portable:** Lightweight design for easy transport and use in various work environments.



Image 3.2: Visual representation of the CST 500's primary features, including its combination stripping and coring function, durable construction, and replaceable blades.

4. SETUP AND PREPARATION

Before using the Cablematic CST 500, ensure the tool is correctly configured for your specific cable type and desired strip length.

1. **Inspect Blades:** Verify that the coring and stripping blades are clean, sharp, and free from damage. Replace blades if necessary (refer to Maintenance section).
2. **Cable Compatibility:** Confirm that the CST 500 is the correct tool for your 500 Kcmil cable.
3. **Adjust Strip Length (if applicable):** The tool supports strip lengths from 0.5" to 2" (12.7 to 50.8 mm). Adjust the stop mechanism if your model allows for variable strip lengths, using the provided hex keys.
4. **Manual or Drill Operation:** Decide whether to use the tool manually with the T-handle or with a 3/8" drill for powered operation. Ensure the drill adapter is securely attached if using a drill.

5. OPERATION INSTRUCTIONS

Follow these steps for effective coring and stripping of 500 Kcmil cables:

1. **Prepare Cable End:** Ensure the cable end is cut cleanly and squarely. Remove any burrs or irregularities.
2. **Insert Cable:** Carefully insert the cable end into the tool until it reaches the internal stop. Ensure the cable is centered within the tool's opening.
3. **Engage Blades:** Apply firm, steady pressure to the tool, pushing it onto the cable. The blades will begin to cut the sheath and core the dielectric.
4. **Rotate Tool:**
 - **Manual Operation:** Rotate the T-handle clockwise around the cable. Continue rotating and applying forward pressure until the stripping and coring process is complete.
 - **Drill Operation:** Attach a 3/8" drill to the adapter. With the drill set to a low speed, activate the drill and apply steady forward pressure, rotating the tool around the cable until the process is complete.
5. **Remove Tool:** Once the cut is complete, carefully remove the tool from the cable. The stripped sheath and cored dielectric material should be cleanly separated.
6. **Inspect Cable:** Examine the prepared cable end to ensure a clean strip and core, free from nicks or damage to the conductor.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Cablematic CST 500 tool.

- **Cleaning:** After each use, clean the tool to remove any cable debris, insulation, or dielectric material. Use a soft brush or cloth. Avoid harsh chemicals that may damage the tool's finish.
- **Blade Inspection:** Periodically inspect the coring and stripping blades for sharpness and damage. Dull or damaged blades can lead to poor cable preparation and potential injury.
- **Blade Replacement:** If blades become dull or damaged, they should be replaced. Refer to the manufacturer's instructions for specific blade replacement procedures for your model. Use only genuine Cablematic replacement blades.
- **Lubrication:** Apply a light coat of machine oil to moving parts and blades occasionally to prevent rust and ensure smooth operation.
- **Storage:** Store the tool in its original packaging or a protective case in a dry environment to prevent corrosion and damage.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with the Cablematic CST 500 tool.

Problem	Possible Cause	Solution
Uneven strip or core	Dull or damaged blades; cable not inserted squarely; insufficient or uneven pressure/rotation.	Inspect and replace blades if necessary. Ensure cable is inserted straight and centered. Apply consistent pressure and rotation.

Problem	Possible Cause	Solution
Tool jams or is difficult to rotate	Debris buildup; dull blades; incorrect cable size; excessive force.	Clean the tool thoroughly. Replace dull blades. Verify cable size compatibility. Reduce force and ensure smooth rotation.
Cable conductor damaged	Incorrect blade depth setting (if adjustable); worn blades; improper tool alignment.	Ensure blades are correctly set for the cable. Replace worn blades. Verify cable is centered and tool is aligned.
Tool feels loose or wobbly	Loose fasteners; worn internal components.	Check and tighten all visible screws/fasteners. If issue persists, contact Cablematic support.

8. TECHNICAL SPECIFICATIONS

The following specifications apply to the Cablematic CST 500 Coring and Stripping Tool:

- **Model:** CST500
- **Cable Compatibility:** 500 Kcmil (e.g., CommScope P3, Times Fiber T10, Alcatel/Benelux ACE/ACW)
- **Material:** Metal
- **Color:** Silver
- **Handle Material:** Metal
- **Grip Type:** Ergonomic T-handle
- **Item Weight:** Approximately 13 ounces (368.54 grams)
- **Part Number:** 31910
- **UPC:** 856848006342
- **Usage:** Professional cable installation and maintenance
- **Batteries Required:** No



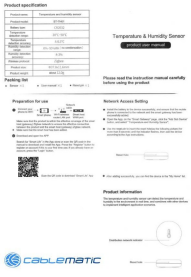



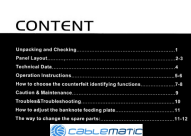
Image 8.1: Detailed view of the CST 500, highlighting its material (Steel), length (6.88"), and weight (13 oz).

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or to purchase replacement parts, please refer to the official Cablematic website or contact their customer service department. Keep your purchase receipt as proof of purchase.

Manufacturer: Ripley Tools

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	<p>Cablematic ST-TH01 Temperature and Humidity Sensor User Manual</p> <p>User manual for the Cablematic ST-TH01 Temperature and Humidity Sensor, detailing product specifications, packing list, preparation for use, network access settings, and product information for smart home applications.</p>
	<p>Cablematic Digital Alarm Clock User Manual</p> <p>Instructions for use of the Cablematic digital alarm clock, including features, setup, alarm functions, light sensor, and specifications.</p>
	<p>Cablematic XLD-D Walk Through Metal Detector User Manual</p> <p>User manual for the Cablematic XLD-D Walk Through Metal Detector, detailing safety instructions, product specifications, installation, maintenance, troubleshooting, and technical parameters.</p>
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