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Armacost Lighting 174630

Armacost Lighting RibbonFlex Pro 24V Tunable White COB LED Strip Light Tape (Model 174630)

User Instruction Manual

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Armacost Lighting RibbonFlex Pro 24V Tunable White COB LED Strip Light Tape, Model 174630. This continuous LED strip light features COB (Chip-on-Board) and CCT (Correlated Color Temperature) technology, offering seamless, spot-free illumination with adjustable white light from warm (2700K) to cool (5000K). It is designed for various indoor accent lighting applications, including under cabinet lighting, and can be customized by cutting to size.

Note: A 24V power supply and an Armacost Lighting ProLine Tunable White LED Controller are required for operation and are sold separately.



A coiled roll of Armacost Lighting RibbonFlex Pro COB LED tape light, showcasing its continuous white illumination and tunable color temperature range of 2700K-5000K. The packaging highlights it as a 24-volt, 32-foot product.

Safety Information

Please read and understand all instructions before beginning installation. Failure to follow these instructions may result in electric shock, fire, or other hazards. Keep this manual for future reference.

- Always disconnect power at the circuit breaker before installing or servicing.
- This product is intended for indoor use only. Do not expose to moisture or outdoor elements.
- Use only with a compatible 24V DC power supply and controller (sold separately).
- Do not install in areas with extreme temperatures or high humidity.
- Ensure all connections are secure and insulated to prevent short circuits.

- Do not bend the LED strip light sharply or apply excessive force, as this may damage the internal components.
- Do not cover the LED strip light with materials that may impede heat dissipation.

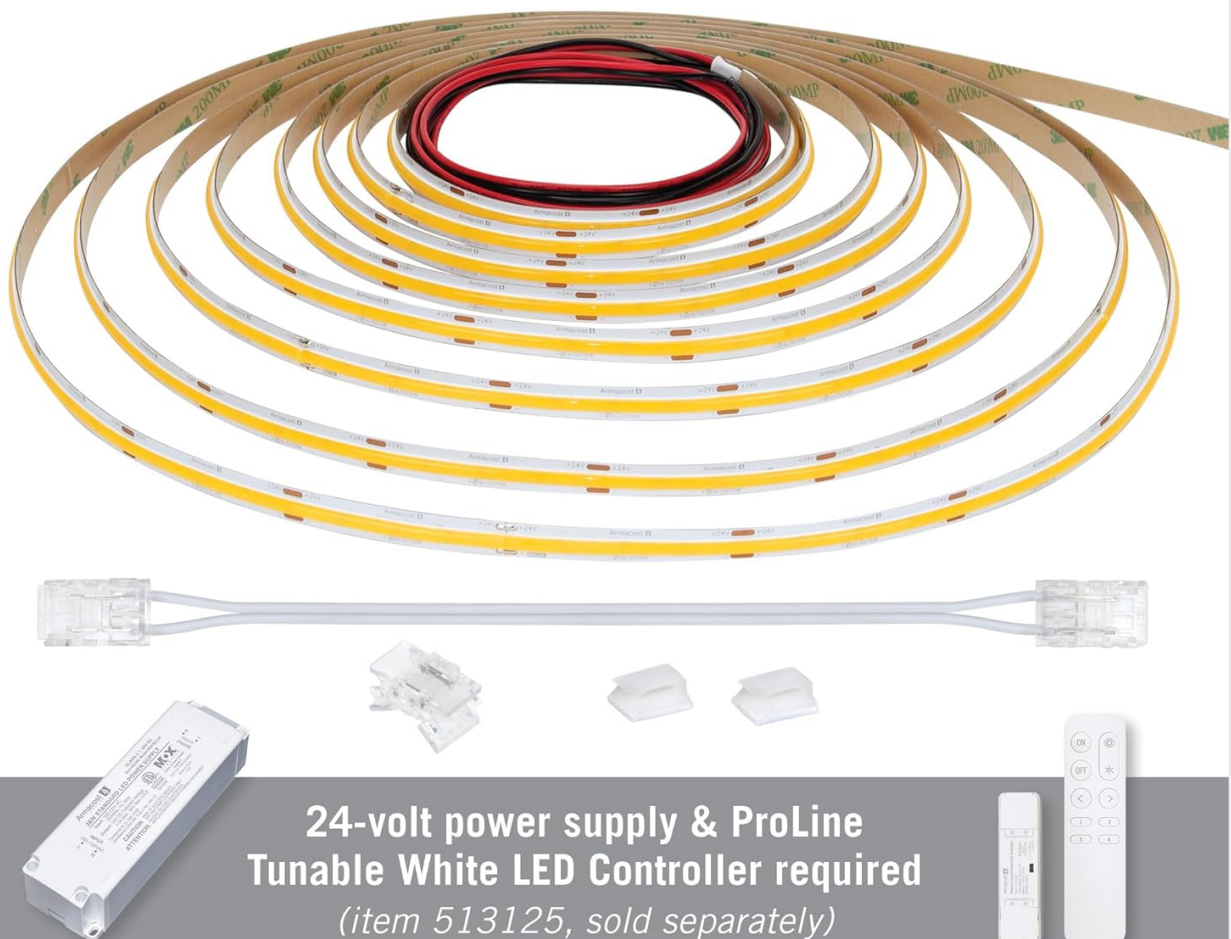
PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x COB LED Strip Light (32.8 ft / 10M)
- 1 x 6-inch Tape-to-Tape Connector
- 1 x Tape-to-Tape Splice Connector
- 2 x 48-inch Pre-Wired Wire Leads
- 2 x Wire Support Clips

INCLUDES:

- Continuous Tunable White COB tape light
- (1) Wire connector to bridge gaps, make turns
- (1) Splice connector to join strips end-to-end
- (2) Wire support clips



This image displays the components included with the LED tape light: the continuous tunable white COB tape light itself, a wire

connector for bridging gaps or making turns, a splice connector for end-to-end joining, and two wire support clips. It also notes that a 24-volt power supply and ProLine Tunable White LED Controller are required and sold separately.

SETUP AND INSTALLATION

1. Pre-Installation Considerations

- **Power Supply and Controller:** Ensure you have a compatible 24V DC power supply and an Armacost Lighting ProLine Tunable White LED Controller (both sold separately) before beginning installation.
- **Planning:** Plan your layout carefully. Measure the areas where the LED strip will be installed.
- **Surface Preparation:** The installation surface must be clean, dry, and smooth. Clean the surface with isopropyl alcohol and allow it to dry completely.

2. Cutting the LED Strip

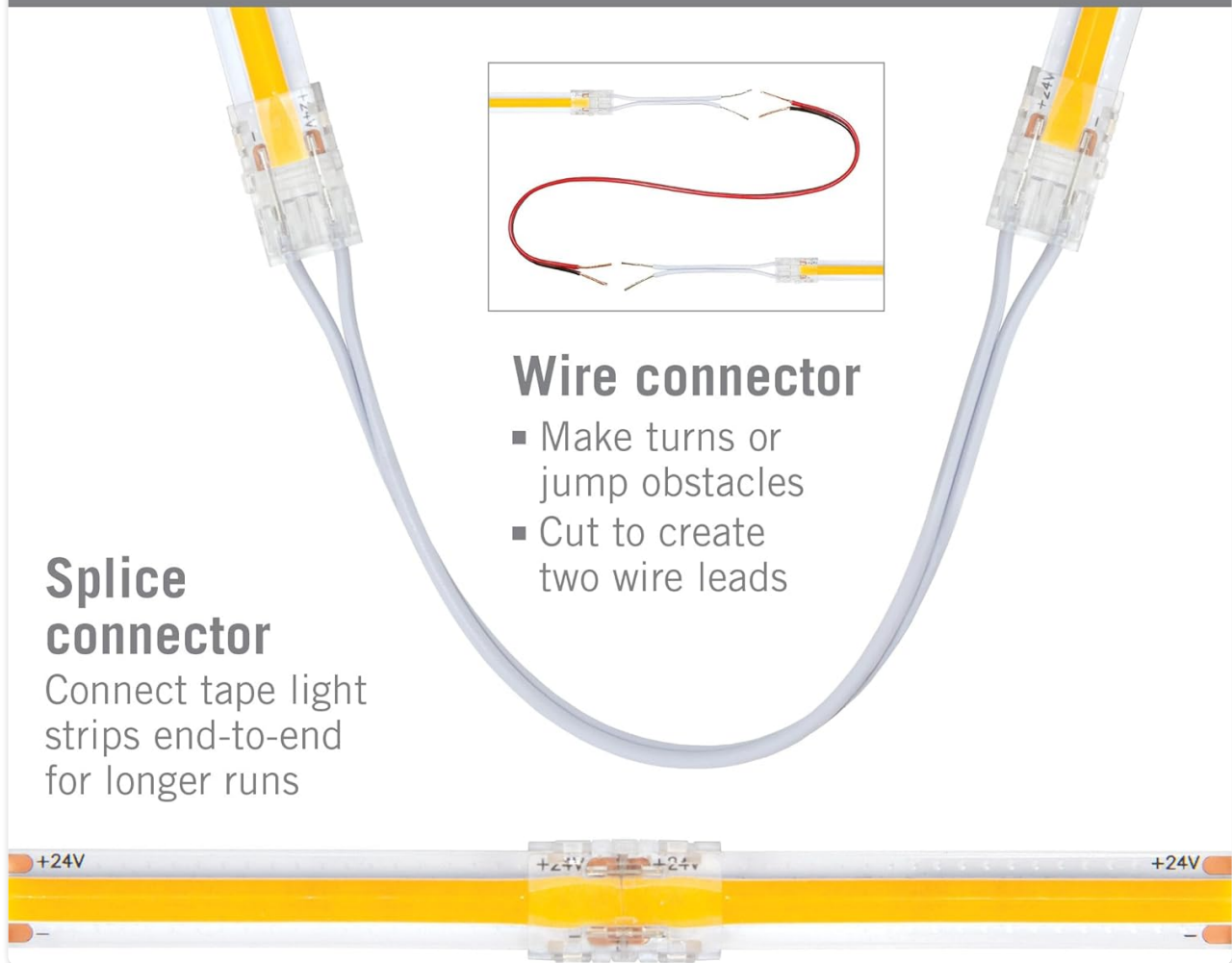
The RibbonFlex Pro LED strip can be cut to custom lengths. Locate the designated cut marks on the strip, typically indicated by a copper pad and a scissor icon. Cut only at these marks to avoid damaging the circuit.

3. Connecting Strips and Wire Leads

Use the included connectors for custom configurations:

- **Tape-to-Tape Connector:** Use this connector to bridge small gaps or make turns in your installation.
- **Tape-to-Tape Splice Connector:** This connector allows you to join two separate LED strip segments end-to-end for longer continuous runs.
- **Pre-Wired Wire Leads:** These leads can be used to connect the LED strip to the controller or to extend the connection over obstacles.

Customize your installation with included connectors



Splice connector

Connect tape light strips end-to-end for longer runs

Wire connector

- Make turns or jump obstacles
- Cut to create two wire leads

This image details the customization options using the included connectors. A wire connector is shown for making turns or jumping obstacles, and for creating two wire leads. A splice connector is also depicted, used for connecting tape light strips end-to-end for longer runs.

4. Mounting the LED Strip

1. Peel off the protective backing from the 3M adhesive tape on the back of the LED strip.
2. Carefully press the LED strip onto the prepared surface, ensuring firm and even contact along its entire length.
3. Use the included wire support clips to secure any loose wiring or to provide additional support for the strip, especially at corners or connection points.

5. Connecting to Power and Controller

- Connect the LED strip (or its wire leads) to the Armacost Lighting ProLine Tunable White LED Controller. Follow the controller's specific wiring instructions.
- Connect the controller to the 24V DC power supply.
- Plug the 24V DC power supply into a standard electrical outlet.

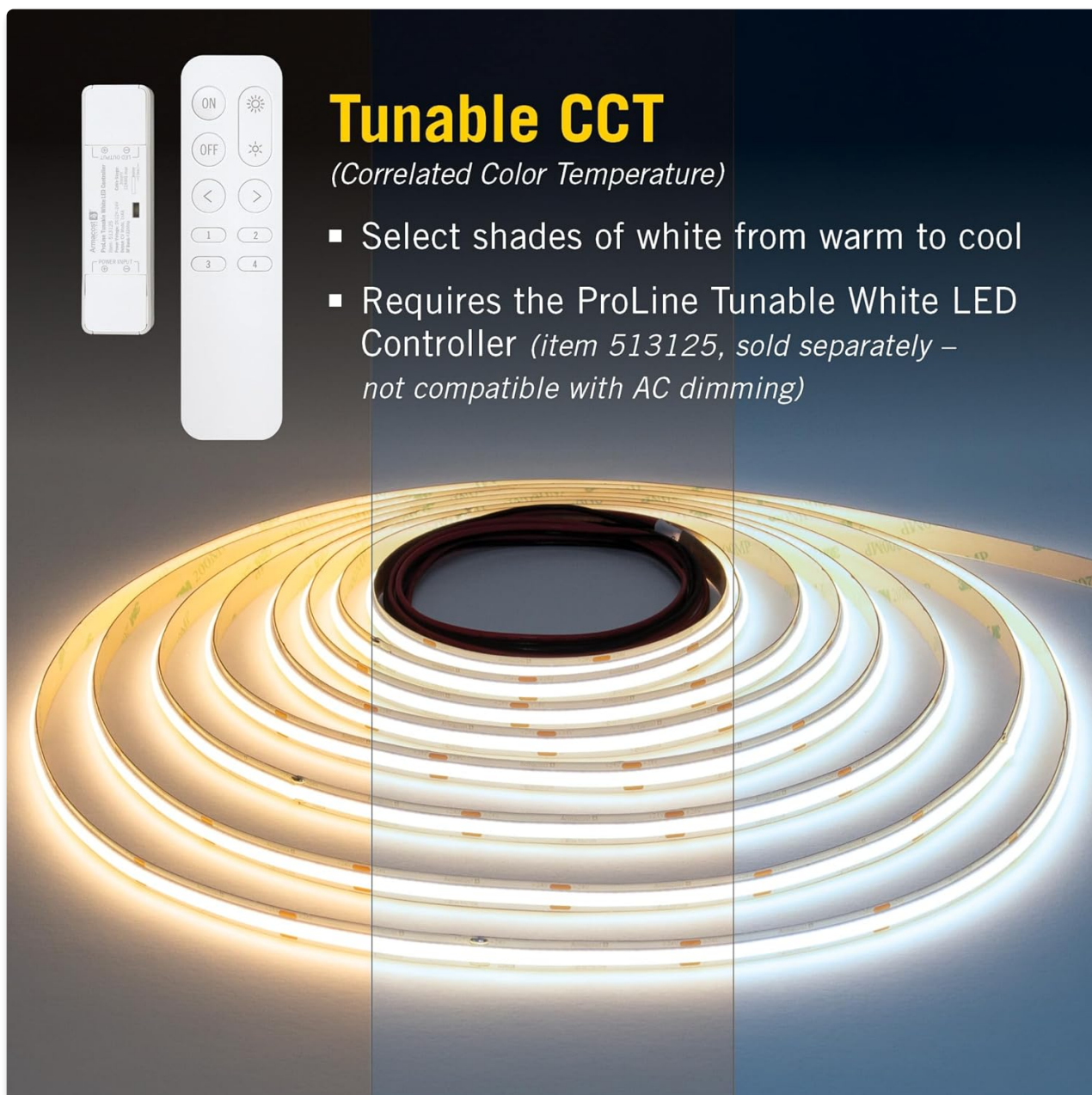
This image highlights five key features of the LED tape light: Tunable CCT (Correlated Color Temperature), Dimmable functionality, ability to Cut to Size, Peel & Stick adhesive for easy installation, and its Flexible design. The background shows

the tape light installed under kitchen cabinets.

OPERATING INSTRUCTIONS

Operation of the RibbonFlex Pro Tunable White LED Strip Light is managed through the Armacost Lighting ProLine Tunable White LED Controller (sold separately).

- **Power On/Off:** Use the designated power button on your controller to turn the lights on or off.
- **Dimming:** The LED strip is dimmable from 0% to 100%. Use the brightness controls on your controller to adjust the light intensity to your preference.
- **Tunable White (CCT) Control:** Adjust the color temperature from warm white (2700K) to cool white (5000K) using the CCT controls on your controller. This allows you to select the ideal white light shade for any environment or task.



The image illustrates the tunable Correlated Color Temperature (CCT) feature of the LED tape light, showing a gradient from warm white (2700K) to cool white (5000K). A remote control is also visible, indicating the need for a ProLine Tunable White LED

MAINTENANCE

The RibbonFlex Pro LED Strip Light requires minimal maintenance.

- **Cleaning:** Ensure the power is off before cleaning. Gently wipe the LED strip with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check connections for tightness and ensure the strip remains securely mounted.
- **Heat:** Ensure the LED strip is not covered or obstructed, allowing for proper heat dissipation.

TROUBLESHOOTING

If you encounter issues with your LED strip light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lights do not turn on	No power to the strip; loose connections; faulty power supply or controller.	Check power outlet, power supply, and all connections. Ensure the controller is properly connected and functioning.
Lights flicker or dim inconsistently	Loose connection; insufficient power supply; incompatible controller.	Verify all connections are secure. Ensure the power supply wattage is adequate for the length of the strip. Confirm controller compatibility.
Incorrect color temperature or inability to change CCT	Controller malfunction; incorrect wiring to controller.	Ensure the LED strip is correctly wired to the tunable white controller. Refer to the controller's manual for specific CCT adjustment instructions.
Adhesive not holding	Surface not clean or smooth; improper application.	Clean the surface thoroughly before reapplication. Use additional wire support clips or mounting channels for extra security.

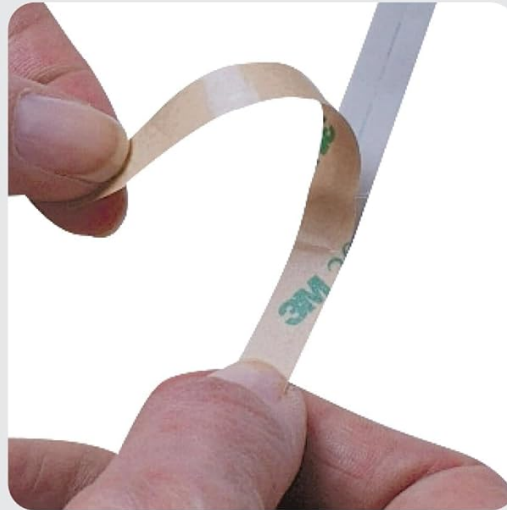
SPECIFICATIONS

- **Model Number:** 174630
- **Voltage:** 24 Volts DC
- **Wattage:** 160 watts (for 32.8 ft)
- **Luminous Flux:** 6396 Lumens (for 32.8 ft)

- **Lumens per Foot:** 240 Lumens/Ft
- **Color Temperature:** 2700K - 5000K Tunable White
- **Color Rendering Index (CRI):** 90
- **Lifespan:** 65,000+ hours (continuous use)
- **Indoor/Outdoor Usage:** Indoor
- **Material:** Copper, Plastic
- **Special Features:** Color Changing, Cuttable, Dimmable, Energy Efficient, Linkable
- **Item Length:** 10.01 Meters (32.8 ft)
- **Item Weight:** 3.36 ounces

**240
LUMENS**

Per foot
light output



**STRONG
BOND**

3M model
200MP
adhesive



**BETTER
CONDUCTIVITY**

2 oz. copper pad
thickness



**TUNABLE COLOR
TEMPERATURE**

Cool & warm white LEDs
blend from 2700K to 5000K

**LONG
LIFESPAN**

**65,000+
HOURS**

continuous use



This image details various specifications of the LED tape light, including its 240 lumens per foot output, UL listing, enhanced conductivity with 2 oz. copper pad thickness, a long lifespan of over 65,000 hours, and tunable color temperature from 2700K to 5000K.



All **RibbonFlex PRO**® Continuous COB tape light is High CRI

High CRI (Color Rendering Index) LED lighting makes colors look more vibrant and realistic, as when viewed in natural sunlight



This image illustrates the high Color Rendering Index (CRI) of the RibbonFlex Pro Continuous COB tape light, comparing it to another tape light. The high CRI (90) ensures colors appear more vibrant and realistic, similar to natural sunlight.

WARRANTY

This Armacost Lighting RibbonFlex Pro LED Strip Light is covered by a 3-year limited warranty. For specific details regarding warranty coverage and claims, please refer to the official Armacost Lighting website or contact customer support.



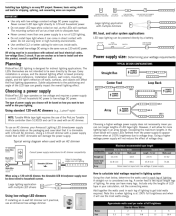
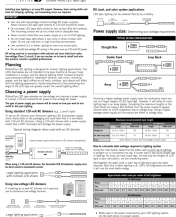
SUPPORT

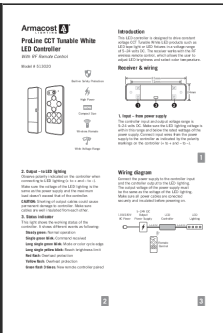
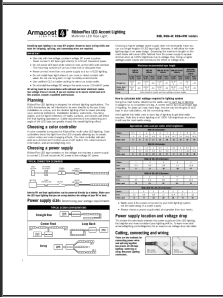
For additional assistance, technical support, or to explore compatible accessories, please visit the official

Armacost Lighting website or contact their customer service department.
You can find more information and products at the [Armacost Lighting Store on Amazon](#).


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Related Documents - 174630

	<p>Armacost Lighting RibbonFlex PRO 24V RGB+WW SMD Outdoor LED Tape Light</p> <p>Discover the Armacost Lighting RibbonFlex PRO LED Tape Light, featuring vibrant RGB+WW multicolor and tunable white LEDs. This outdoor-rated (IP67) tape light offers dimmable operation, easy installation with 3M adhesive, and comes with connectors. Ideal for various lighting applications.</p>
	<p>Armacost RibbonFlex LED Accent Lighting Wattage Calculation Guide</p> <p>A comprehensive guide from Armacost Lighting on calculating the total wattage for RibbonFlex LED accent lighting installations, featuring detailed charts and configuration examples for various LED tape light products.</p>
	<p>Armacost Lighting RibbonFlex Pro LED Tape Light Installation Guide</p> <p>Comprehensive guide to installing Armacost Lighting's RibbonFlex Pro Dim-to-Warm and Tunable White LED tape lights, covering power supply selection, wiring, cutting, connectors, and troubleshooting.</p>
	<p>Armacost Lighting RibbonFlex Pro Outdoor White LED Tape Light Installation Guide</p> <p>Comprehensive guide for installing Armacost Lighting's RibbonFlex Pro Outdoor White LED Accent Tape Lights. Covers important safety precautions, planning, power supply selection, wiring diagrams, cutting and connecting the tape, troubleshooting, and warranty information.</p>

	<p>Armacost Lighting ProLine CCT Tunable White LED Controller with RF Remote Control - Model 513020</p> <p>User and installation guide for the Armacost Lighting ProLine CCT Tunable White LED Controller (Model 513020). Features include RF remote control, adjustable brightness and color temperature, wide voltage range (5-24V DC), and built-in safety protections. Includes wiring diagrams, specifications, and warranty information.</p>
	<p>Armacost Lighting RibbonFlex LED Accent Lighting Installation Guide</p> <p>Comprehensive guide to installing Armacost Lighting's RibbonFlex multicolor LED tape lights, covering planning, power supply selection, wiring, cutting, connecting, and troubleshooting.</p>

Documents - Armacost Lighting – 174630

	<p>Armacost Lighting RibbonFlex PRO LED Tape Light - Tunable White COB Specifications</p> <p>Detailed specifications for the Armacost Lighting RibbonFlex PRO LED Tape Light, featuring tunable white COB technology, CCT adjustability, and 240 lumens per foot. Includes features, inclusions, and technical data.</p> <p>lang:en score:19 filesize: 112.71 K page_count: 1 document date: 2025-10-21</p>
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