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BTF-LIGHTING FCOB-12V-336L-W-IP30

BTF-LIGHTING UL Listed FCOB COB LED Strip Light

MODEL: FCOB-12V-336L-W-IP30

1. Introduction

Thank you for choosing the BTF-LIGHTING UL Listed FCOB COB LED Strip Light. This manual provides essential information for the safe installation, operation, and maintenance of your LED strip light. Please read it thoroughly before use and retain it for future reference.



Image 1.1: BTF-LIGHTING FCOB COB LED Strip Light, Cool White 6000K.

▶ **Watch video online**
FCOB Single Color LED Strip Light

Video 1.1: Overview of the FCOB Single Color LED Strip Light, demonstrating its features and applications.

2. Safety Information

This product is UL Listed, ensuring it meets rigorous safety standards. Please follow these guidelines for safe operation:

- **Power Supply:** Use only a compatible DC12V power supply (not included). Ensure the power supply's wattage meets or exceeds the LED strip's total wattage.
- **Indoor Use Only:** This LED strip is rated IP30 and is designed for indoor use. Do not expose it to water or high humidity.
- **Installation Surface:** Ensure the installation surface is clean, dry, and smooth to ensure proper adhesion and

heat dissipation.

- **Cutting:** Only cut the LED strip at designated cutting marks to avoid damage.
- **Heat:** Do not cover the LED strip with materials that could impede heat dissipation.
- **Children:** Keep out of reach of children.

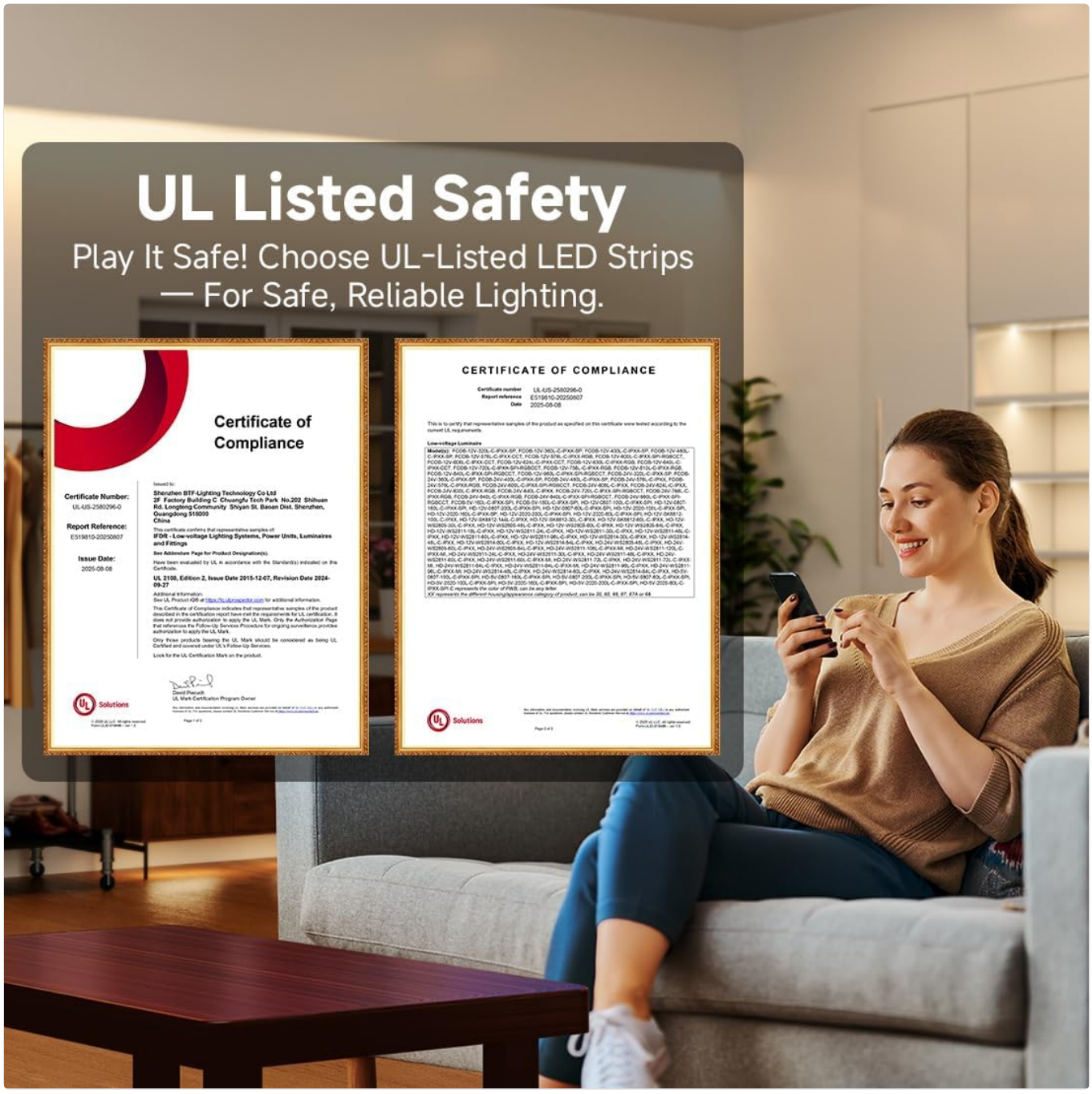


Image 2.1: The product is UL Listed, ensuring safety and reliability.

3. Package Contents

Please check the package for the following items:

- 1 x 16.4FT (5m) FCOB COB LED Strip Light (Cool White 6000K, DC12V, 336LEDs/m)

Note: Power supply and controller are not included and must be purchased separately.

4. Product Features

- **Ultra Bright & Uniform Light:** FCOB (Flip Chip On Board) technology provides a brighter, softer, spotless, and more uniform light compared to traditional SMD strips.
- **High CRI 90+:** Ensures accurate color rendering, making objects appear more true to their original colors.
- **UL Listed:** Certified for safety and reliability.
- **Flexible & Cuttable:** The strip is soft and flexible, allowing for various installations. It can be cut at designated marks.
- **Strong 3M Adhesive:** Features a strong self-adhesive backing for easy peel-and-stick installation.
- **Universal Compatibility:** Compatible with most dimmers (ELV, TRIAC, DMX, Dali, 0-10V, RF) and various LED controllers (Tuya Wi-Fi, Bluetooth, Zigbee 3.0, BanlanX APP, WLED ESP32).
- **Durable Construction:** Engineered with premium double-layer copper PCB for superior conductivity and heat dissipation.



Image 4.1: Comparison of FCOB LED strip light (180-degree beam angle, uniform light) and SMD LED strip light (120-degree beam angle, distinct dark areas).



Image 4.2: High CRI of 90+ ensures colors are rendered accurately, closer to their true appearance.

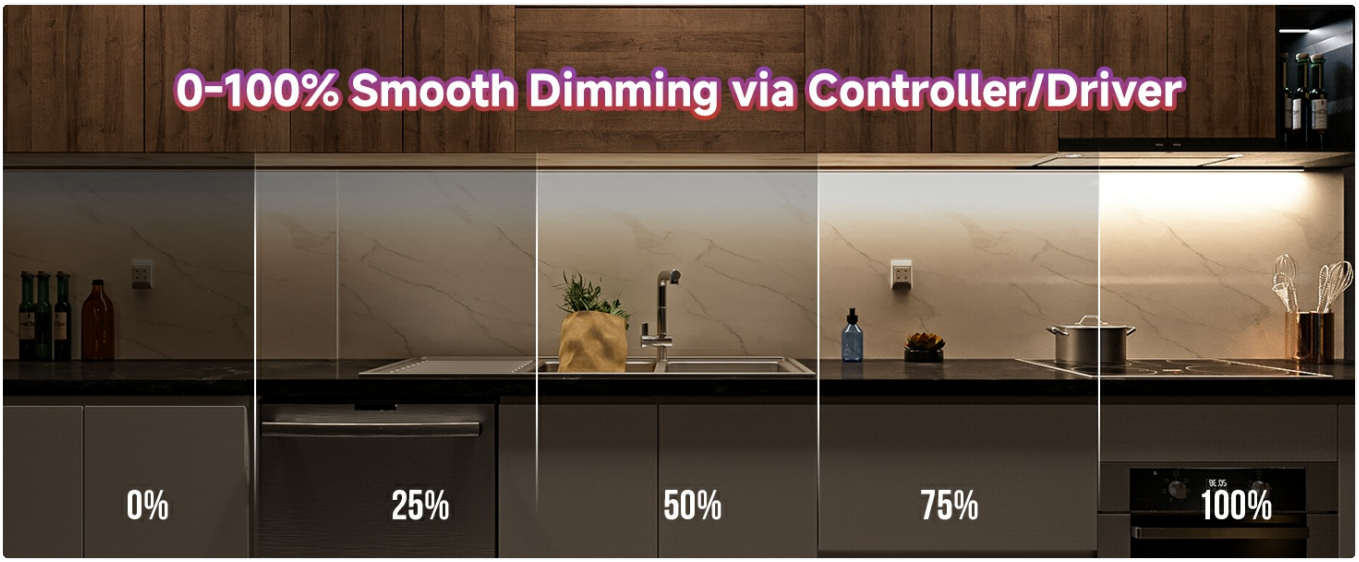


Image 4.3: Superior construction with three-layer high-temperature resistant PI film, 3M self-adhesive double tape, and double-layer copper PCB for enhanced durability and performance.

5. Setup Instructions

5.1 Preparation

- Ensure the installation surface is thoroughly cleaned and dried. Remove any dust, grease, or moisture.
- Plan your layout before adhering the strip.

5.2 Cutting and Linking

The FCOB LED strip is flexible and can be cut to your desired length at designated cutting marks. It also supports end-to-end series connection.

- **Cutting:** Locate the copper solder pads marked with a scissor icon. Cut only at these points.
- **Linking:** The strip comes with two 5.5mmx2.1mm DC plugs (one female, one male) for easy connection. For custom lengths or configurations, use appropriate connectors (not included).

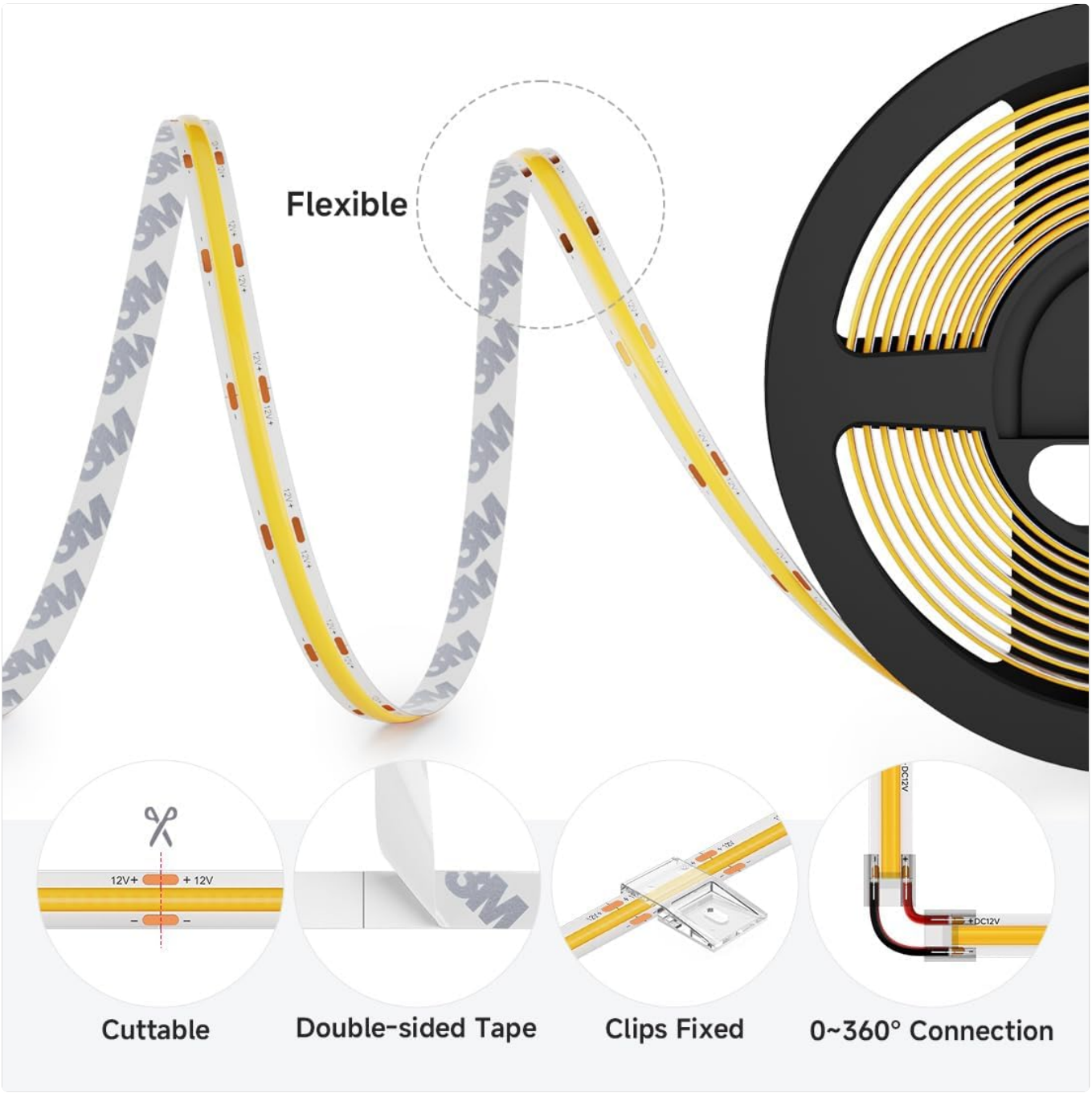


Image 5.1: The LED strip is flexible, cuttable at marked points, uses double-sided tape for mounting, can be secured with clips, and supports 0-360 degree connections.



Image 5.2: Guide to cutting points and LED strip width for DC12V and DC24V versions with different LED densities.

5.3 Power Connection

Connect the LED strip to a compatible DC12V power supply or LED controller. Ensure correct polarity (+ to + and - to -).

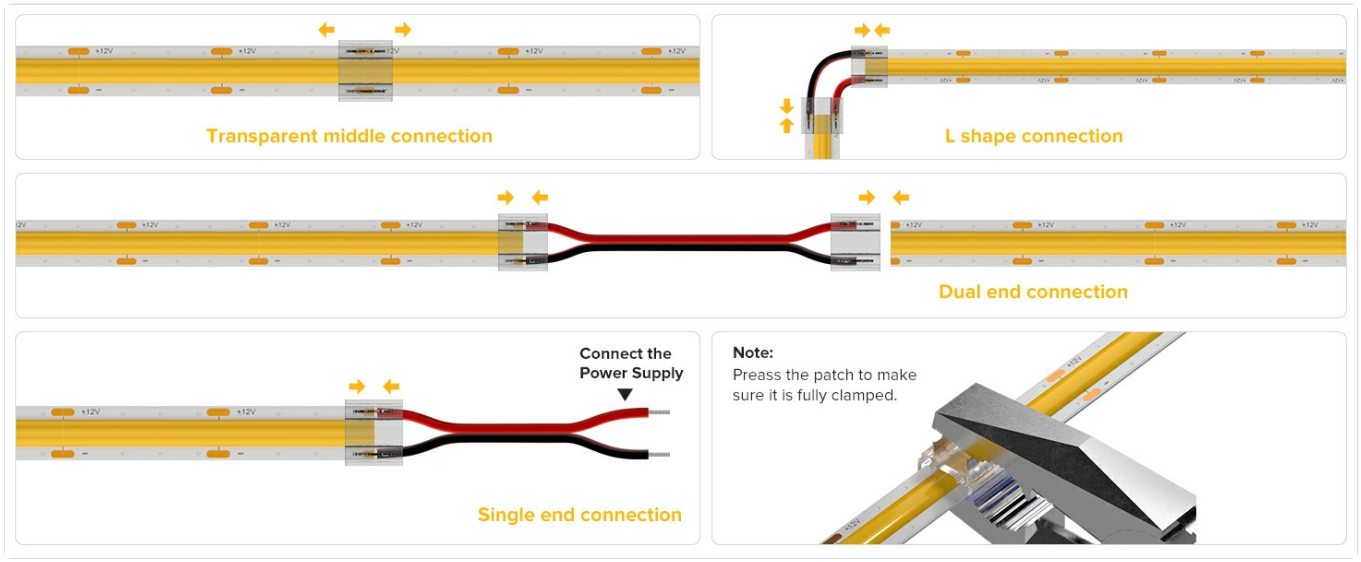


Image 5.3: Wiring diagrams for connecting the LED strip directly to a power supply, to a Triac dimmable LED driver, or with a controller and power adapter.



Image 5.4: Various connection methods including transparent middle connection, L-shape connection, dual-end connection, and single-end connection.



Image 5.5: The DC connector accessory is optional; the strip can be connected directly to a power supply by cutting off the DC connector and wiring.

▶ **Watch video online**
FCOB LED Strip Connector 8mm/10mm width

Video 5.1: Demonstrates how to use FCOB LED strip connectors for various configurations.

5.4 Mounting

Once connections are secure and tested, peel off the backing from the 3M adhesive tape and firmly press the LED strip onto the prepared surface. For added security, especially on rough or vertical surfaces, use mounting clips (not included).

6. Operating Instructions

Once powered, the LED strip will illuminate. To control brightness or integrate with smart home systems, a compatible dimmer or controller is required (sold separately).

- **Dimming:** This FCOB LED strip is dimmable from 0-100% when connected to a compatible dimmer (ELV, TRIAC, DMX, Dali, 0-10V, RF).
- **Controller Use:** For advanced control, connect the strip to a compatible LED controller. Refer to your controller's manual for specific operating instructions. Compatible controllers include Tuya Wi-Fi, Bluetooth, Zigbee 3.0 (WB5, C01W, C01Z, LM053), BanlanX APP (SP530E, SP630E), and WLED ESP32 (SP803E, SP805E).



Image 6.1: The LED strip supports 0-100% smooth dimming via a compatible controller or driver, allowing for various lighting moods from nightlight to full brilliance.

▶ **Watch video online**
FCOB Single Color LED Strip-About Color Temperature

Video 6.1: Explains different color temperatures available for FCOB LED strips and their visual effects.

7. Maintenance

The FCOB LED strip light requires minimal maintenance.

- **Cleaning:** Ensure the power is off before cleaning. Gently wipe the strip with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check connections for any signs of wear or damage.

8. Troubleshooting

- **Light does not turn on:**
  - Check if the power supply is properly connected and receiving power.
  - Verify all connections (LED strip to power supply/controller) are secure and polarity is correct.
  - Ensure the power supply is functional and provides the correct DC12V output.
- **Light is flickering or dim:**
  - Ensure the power supply wattage is sufficient for the length of the LED strip.
  - Check for loose connections.
  - If using a dimmer, ensure it is compatible and functioning correctly.
- **Section of the strip is not lighting up:**
  - This may indicate damage to that section. If the strip was cut, ensure it was cut at the designated marks.
  - Check for any physical damage or short circuits.

9. Specifications

Model Number	FCOB-12V-336L-W-IP30
Color Temperature	Cool White 6000K
Voltage	DC12V
Length	16.4 FT (5 meters)
LEDs per Meter	336 LEDs/m
Wattage	28 watts
CRI	90+
Width	8mm
IP Rating	IP30 (Indoor Use Only)
Special Features	DC connector, Dimmable, No Light spot, Uniform light

10. Warranty and Support

BTF-LIGHTING is committed to providing high-quality products and customer satisfaction. This product comes with dedicated customer support.

- **Technical Support:** For installation guidance, troubleshooting, or warranty service, our team is available 24/7 to assist you.
- Please refer to your purchase platform for specific warranty terms and conditions.



Image 10.1: BTF-LIGHTING offers professional support for DIY designs and technical assistance.

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