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BTF-LIGHTING 3PIN-xK-10mm-10P

BTF-LIGHTING 3-Pin 10mm Solderless LED Strip Connector Instruction Manual

Model: 3PIN-xK-10mm-10P

Introduction

Thank you for choosing the BTF-LIGHTING 3-Pin 10mm Solderless LED Strip Connectors. These connectors are designed for quick and easy installation of WS2811, WS2812B, and SK6812 LED flexible light strips without the need for soldering. This manual provides essential information for proper setup, operation, and maintenance of your connectors.

Product Features

- **Solderless Design:** Enables quick and secure connections without the need for soldering tools.
- **Compatibility:** Specifically designed for WS2811, WS2812B, and SK6812 LED flexible strips.
- **Connector Type:** 10mm wide, 3-pin configuration.
- **Cable Length:** Each connector features a 15cm (6 inches) long cable.
- **Material:** Pins are copper plated for reliable conductivity.
- **Compact and Practical:** Lightweight design for easy integration into various lighting projects.

Package Contents

Each package includes:

- 10 x BTF-LIGHTING 3-Pin Single End Solderless LED Strip Connectors

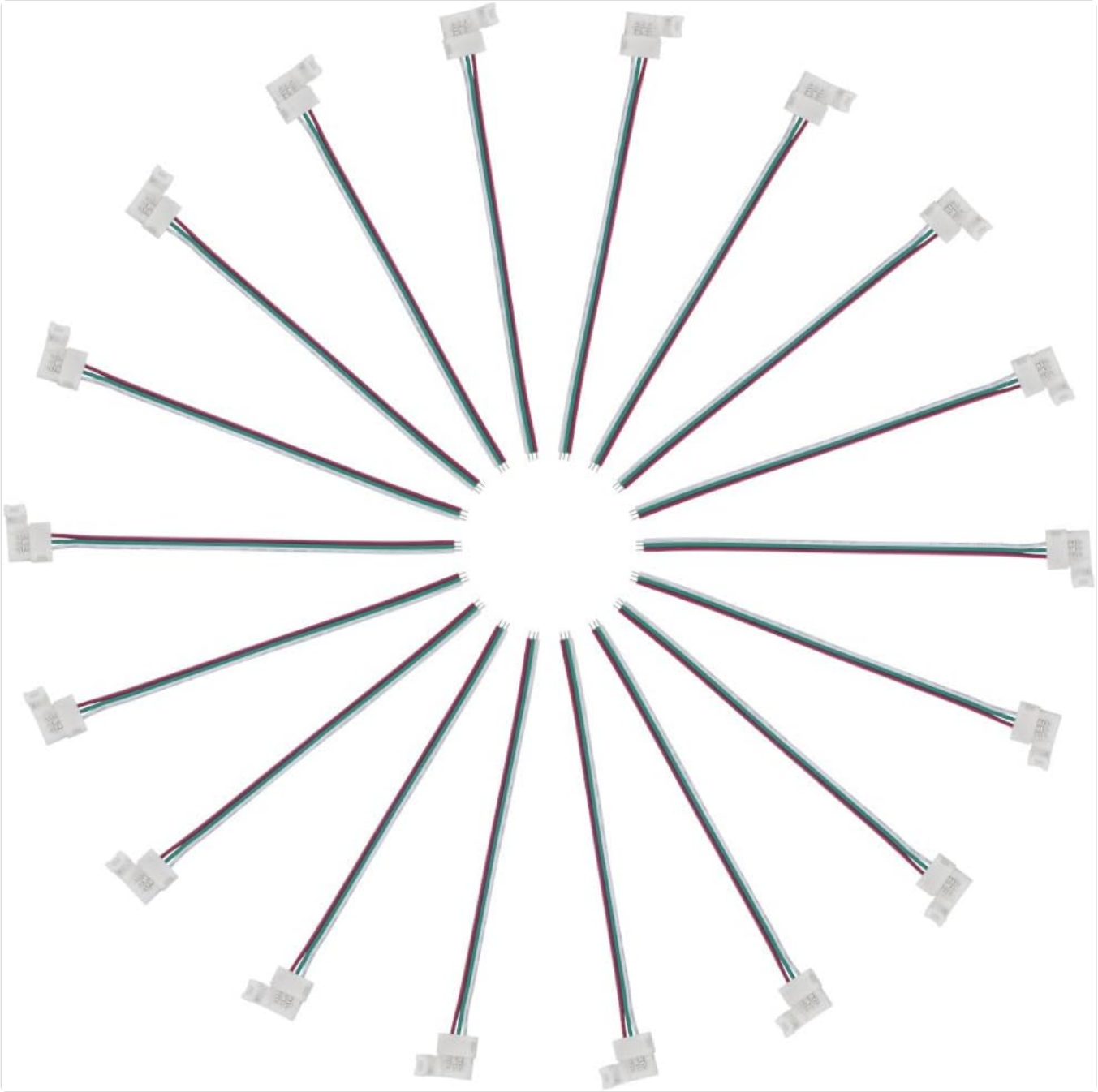


Figure 1: Overview of the 10-piece connector set.

Specifications

Attribute	Detail
Connector Type	10mm 3-Pin Solderless Connector
Wire Length	15 cm (6 inches)
Wire Diameter	1 mm
Material (Pins)	Copper Plated
Working Temperature	0°C to 40°C (32°F to 104°F)

Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Suitable Voltage (WS2812B)	DC 5V
Suitable Voltage (WS2811)	DC 12V

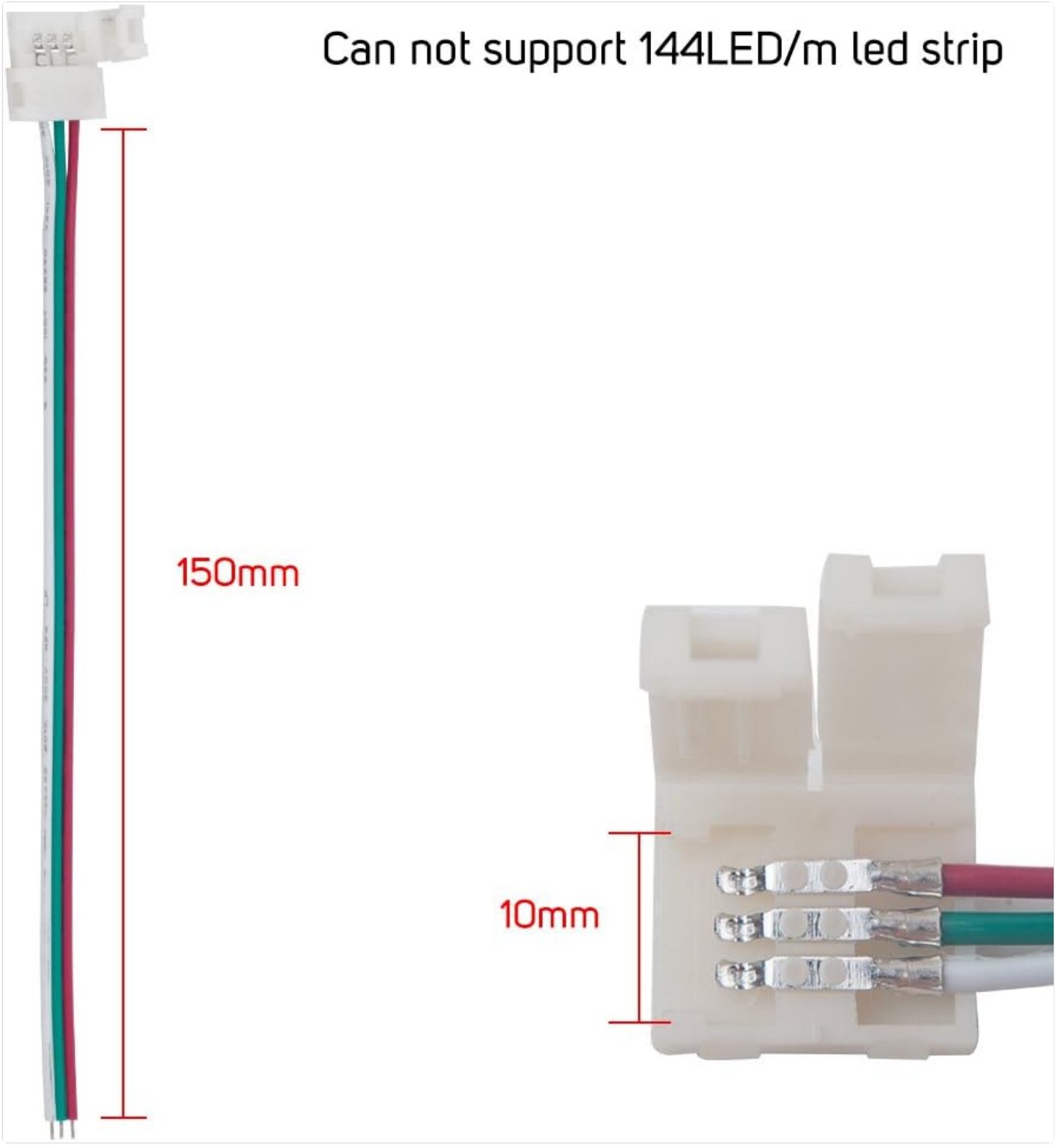


Figure 2: Connector dimensions and cable length.

Setup and Installation

Follow these steps to properly connect your LED strip using the solderless connector:

1. **Prepare the LED Strip:** Carefully cut the LED strip along the designated 'Scissor' mark. Ensure the cut is clean and straight.
2. **Align Connections:** Match the letters on the LED strip (e.g., 5V, GND, DO, DI) with the corresponding pins on the connector. Ensure correct polarity (5V to 5V, GND to GND, DO to DI, etc.).
3. **Insert LED Strip:** Open the connector clip. Insert the 10mm wide LED strip into the clip, ensuring the copper pads on the strip make firm contact with the two metal prongs inside the connector.
4. **Secure the Connection:** Close the connector lid firmly until it clicks into place, securing the LED strip.

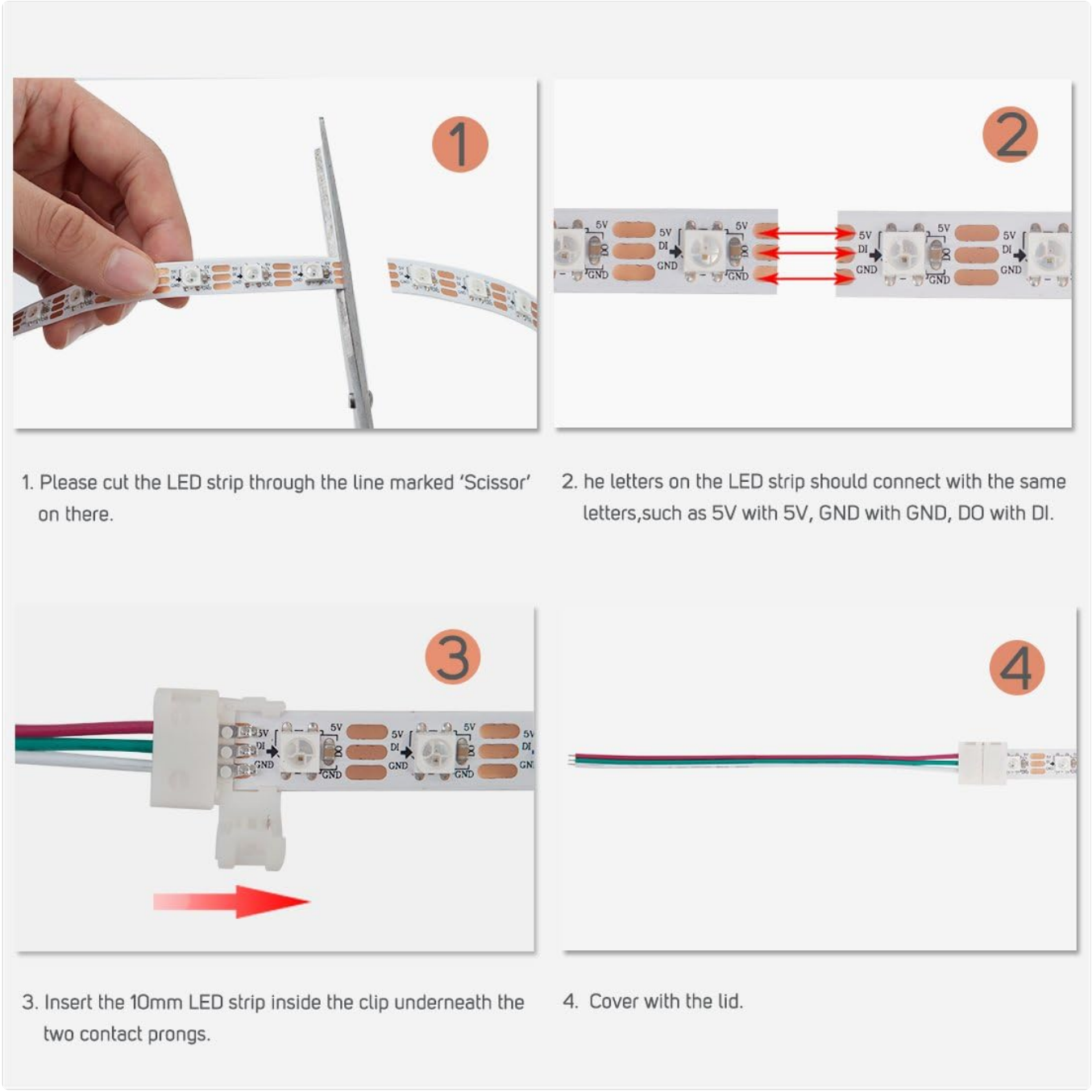


Figure 3: Step-by-step installation guide for the LED strip connector.

Operating Instructions

Once the LED strip is securely connected to the solderless connector, it is ready to be integrated into your lighting system. Simply connect the other end of the connector's cable to your power source or controller, ensuring voltage

compatibility (DC 5V for WS2812B, DC 12V for WS2811).

Compatibility

- **Supported LED Strips:** WS2811, WS2812B, SK6812 flexible LED strips.
- **Unsupported LED Strips:** These connectors **cannot support 144LED/m LED strips**.
- **Unsupported Brands:** These connectors **cannot support ALTOVE LED Strips**.
- **PCB Compatibility:** Designed for standard public PCB boards. Not compatible with special PCB board designs where contact pads are not aligned with the connector's prongs.

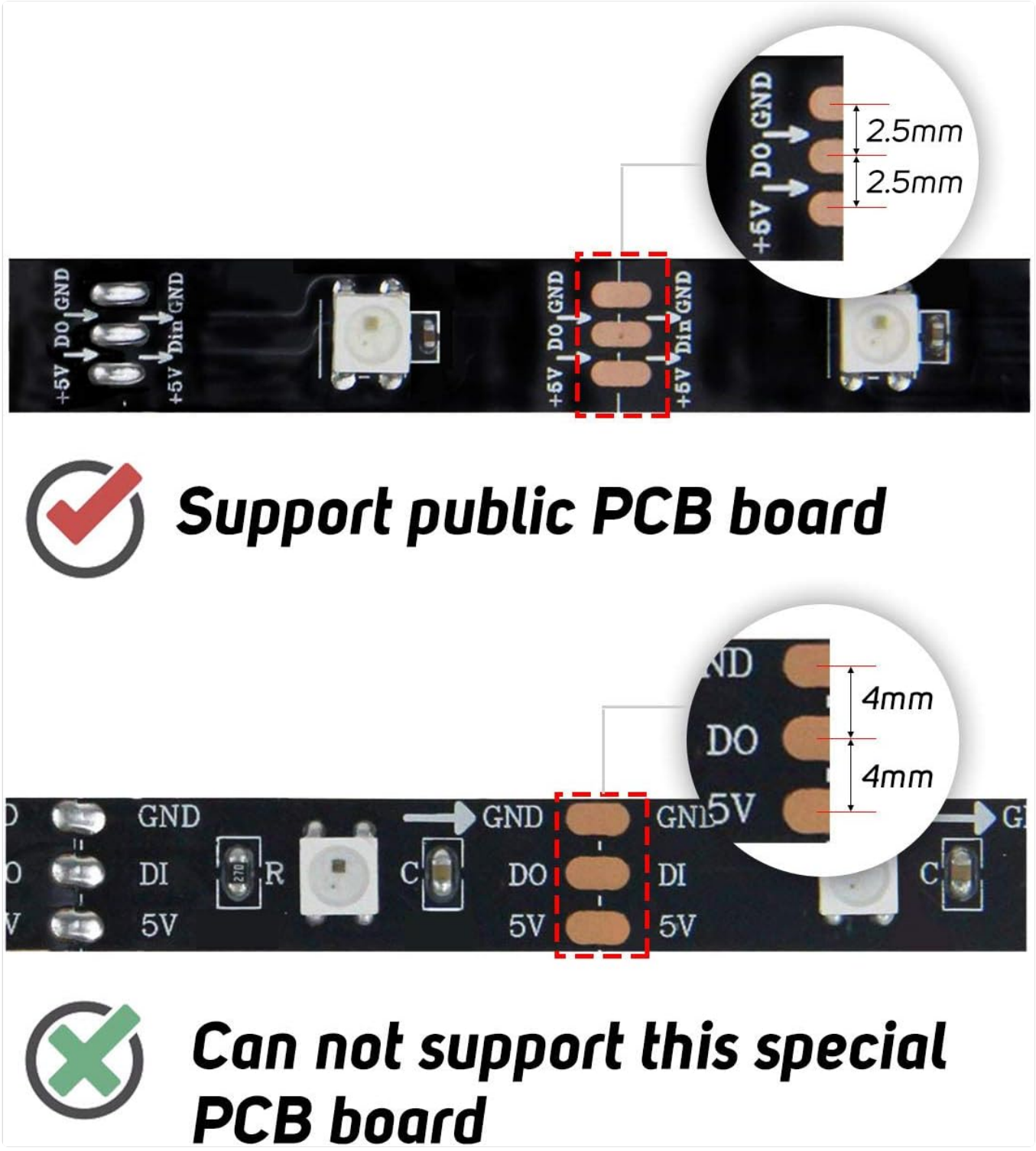


Figure 4: PCB board compatibility guide.

Important Notes and Warnings

- Do not pull the connector or connected wires with excessive force.
- This connector is **not waterproof**. Ensure it is used in dry environments only.
- Always ensure correct polarity (positive and negative) when connecting. Incorrect polarity will prevent the LED strip from lighting up.

Troubleshooting

If your LED strip does not light up after connecting:

1. **Check LED Strip Functionality:** Verify that the LED strip itself is working correctly by testing it with a known good connection or power source.
2. **Verify Polarity:** Ensure that the positive (+) and negative (-) connections on the LED strip are correctly aligned with the connector's pins. Reversed polarity will prevent illumination but will not damage the LED strip.
3. **Inspect Connection:** Open the connector and ensure the LED strip's copper pads are making firm and complete contact with the connector's metal prongs. Re-seat the strip if necessary.
4. **Check for Damage:** Inspect both the LED strip and the connector for any visible damage or bent pins.

Maintenance

These solderless connectors require minimal maintenance. Keep them clean and dry. Avoid exposing them to moisture or extreme temperatures outside the specified operating range to ensure longevity and reliable performance.

Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact BTF-LIGHTING customer service through their official website or the retailer where the product was purchased.

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