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**RGBZONE FB0960**

# RGBZONE 4 Pin 10mm LED Connectors User Manual

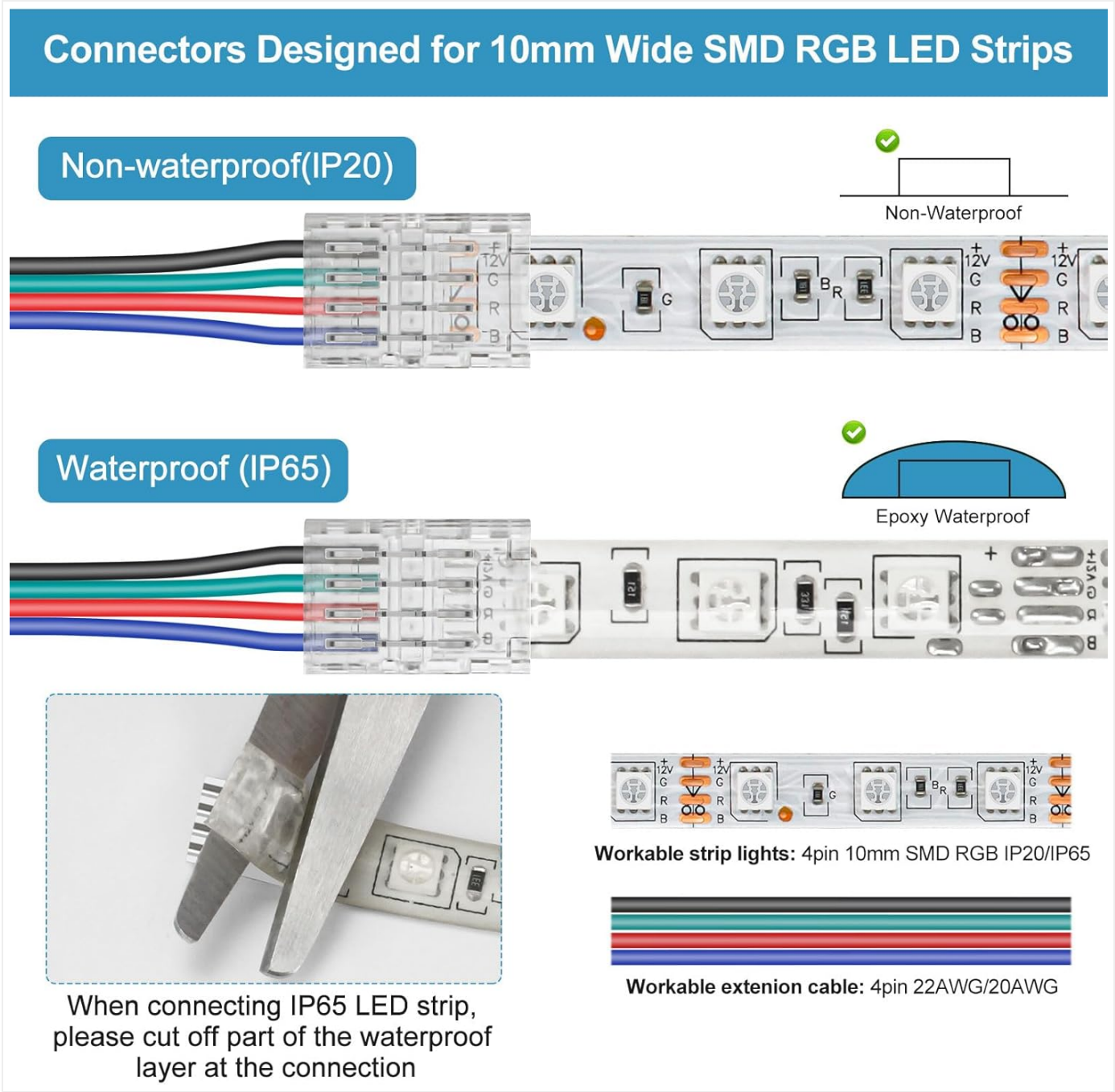
Brand: RGBZONE | Model: FB0960

## Introduction

The RGBZONE 25Pcs 4 Pin 10mm LED Connectors are designed to provide a gapless, solderless, and quick connection solution for 10mm wide 5050/3528 SMD RGB LED strip lights. This manual provides detailed instructions for the proper installation and use of these connectors, ensuring a reliable and aesthetically pleasing LED lighting setup.

## What's in the Box

- 25Pcs 4-Pin 10mm LED Strip to Wire Connectors

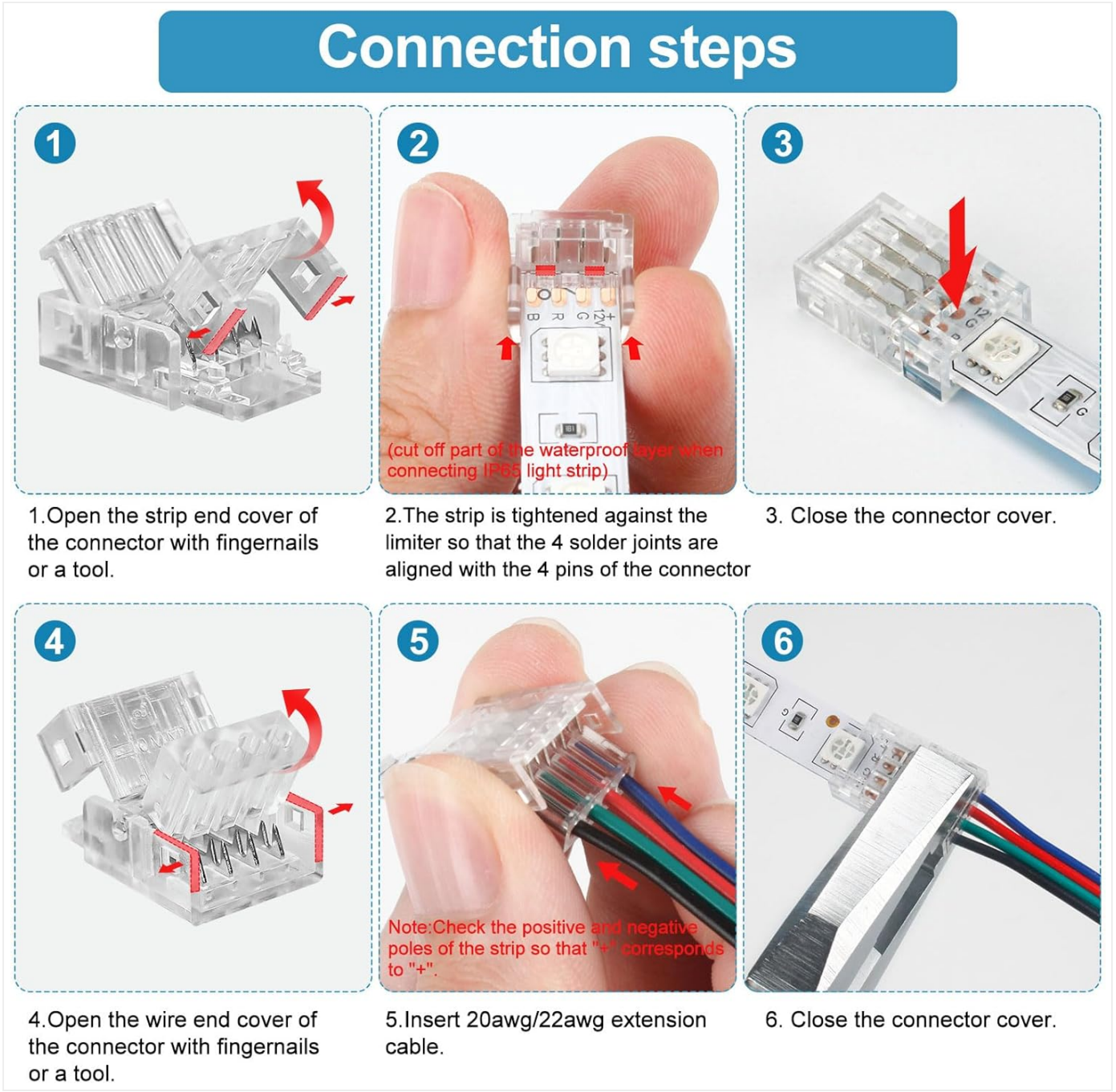



The package includes 25 individual 4-pin 10mm LED strip to wire connectors, neatly organized in a durable clear plastic storage case for convenience and protection.

## Setup Guide

### 1. Preparing the LED Strip

Ensure your LED strip is 10mm wide and has 4 solder points for RGB connections. If using an IP65 waterproof LED strip, carefully cut off a small portion of the waterproof layer at the connection point to expose the copper pads. This allows for proper contact with the connector's pins.

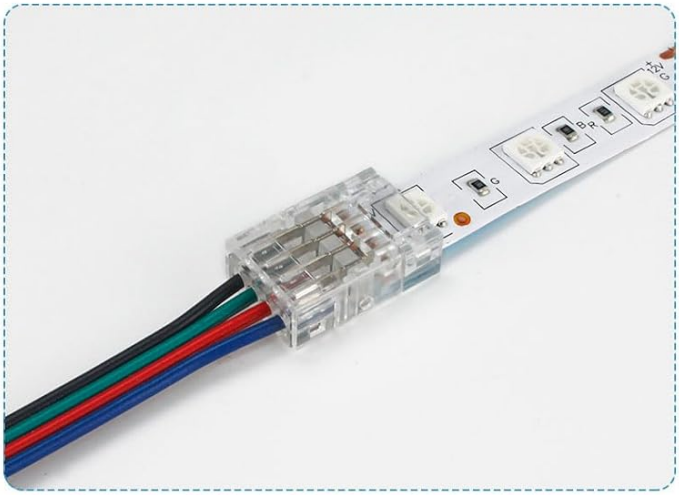



This diagram illustrates the difference in preparation for non-waterproof (IP20) and waterproof (IP65) LED strips. For IP65 strips, the waterproof epoxy layer must be removed to expose the conductive pads.

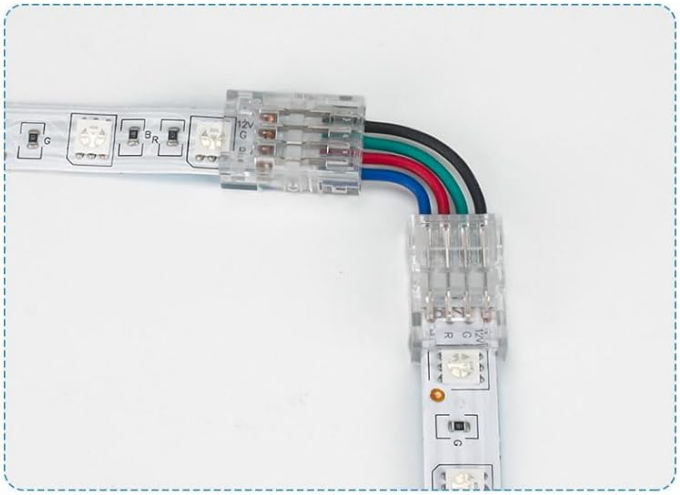
## 2. Connecting the Wires

Open the connector's strip end cover. Align the 4 solder joints of the LED strip with the 4 metal pins inside the connector. Gently push the strip into the connector until it is fully seated and the metal pins pierce the copper pads. Close the cover firmly until it clicks, ensuring a secure connection. For the wire end, insert the 4-pin LED cable (20AWG or 22AWG) into the wire end of the connector, ensuring correct polarity (+ to +, R to R, G to G, B to B). Close the wire end cover firmly.

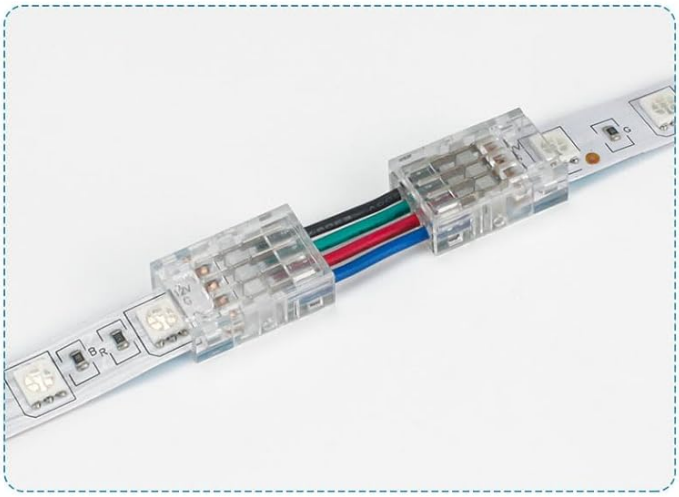
# MORE DIY CONNECTIONS



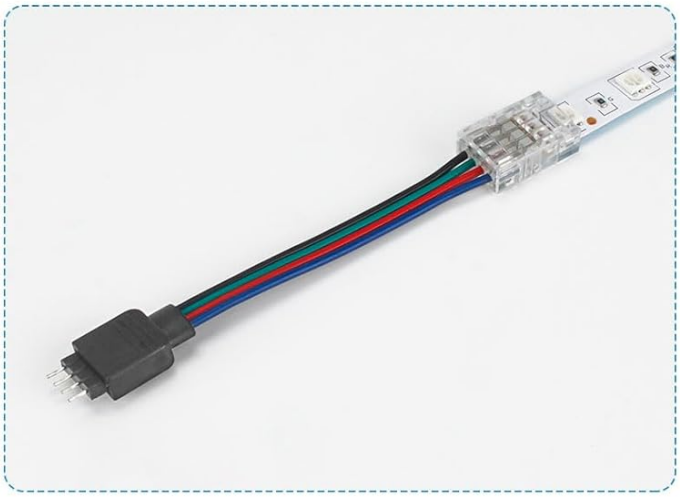
Strip to wire connetion



L-shape corner connection



Strip to strip connection



Strip to controller jumper connection

Detailed steps for connecting both the LED strip and the extension wire to the connector. This includes opening the covers, inserting the components, and closing the covers securely.

PC material

Transparent material, which can reduce dark areas. And it is antioxidant, safe and durable.

High precision tinned copper metal

Firm and stable connection, zero poor contact, no welding.

Important installation details highlighting the need to match positive and negative terminals and ensuring the connector's copper tips make proper contact with all four pads on the LED strip.

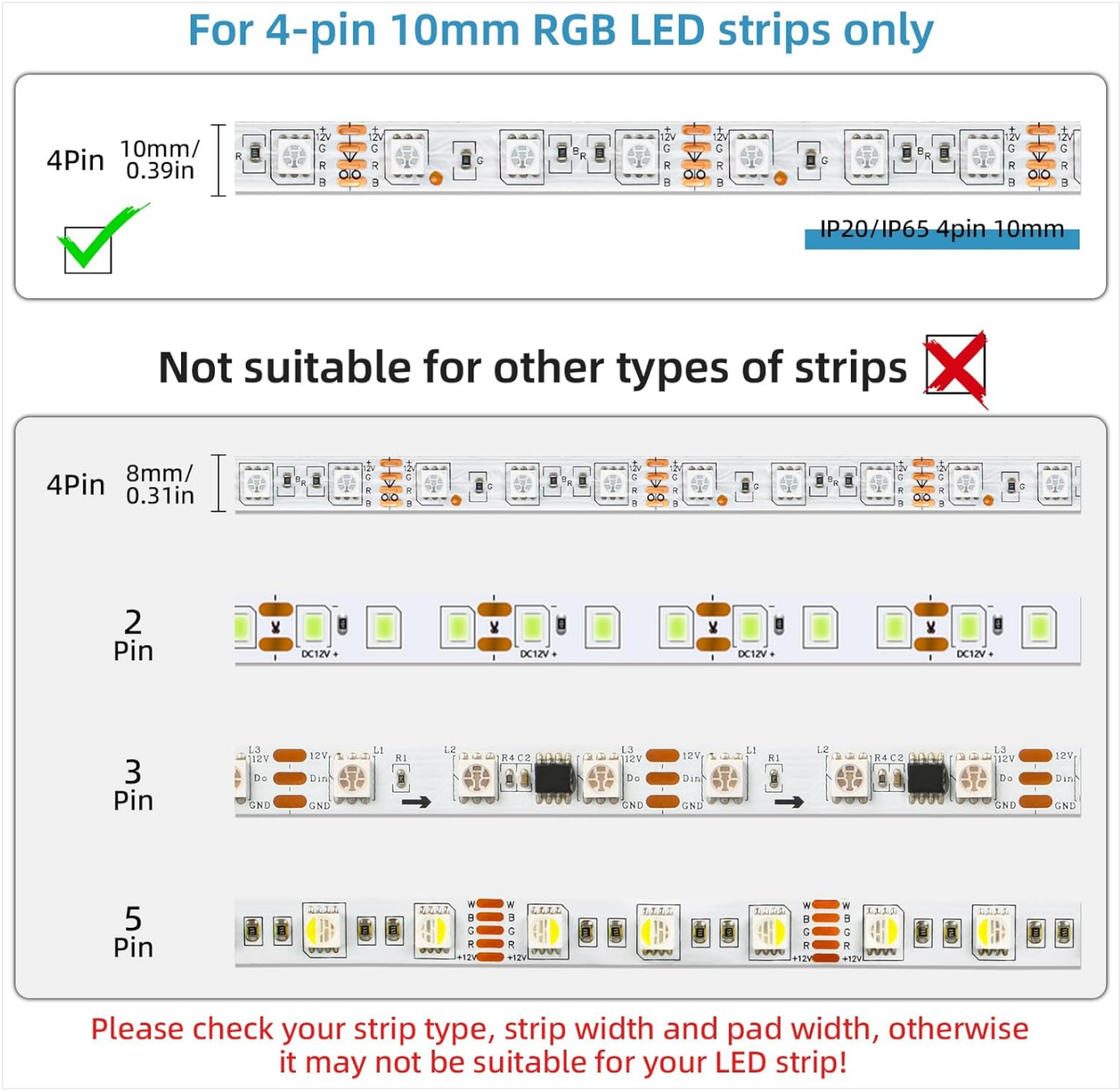
### Video Tutorial

Your browser does not support the video tag.

This official video demonstrates the step-by-step process of connecting a 4-pin LED strip to a wire using the RGBZONE connector, ensuring a secure and functional connection.

## Operating Instructions

Once the connectors are securely attached to both the LED strip and the power source/controller, ensure all connections are firm. The transparent design of the connector allows for visual confirmation of proper contact. Power on your LED strip system. If the lights do not illuminate or show incorrect colors, refer to the Troubleshooting section.




An example of the 4-pin 10mm LED strip to wire connector in operation, showing a successful and illuminated LED strip connection.

## Maintenance

These connectors are designed for durability and require minimal maintenance. Periodically check connections to ensure they remain secure, especially if the LED strips are in an area subject to movement or vibration. Keep connectors clean and free from dust or debris. Avoid exposing non-waterproof connectors to moisture. For IP65 strips, ensure the cut waterproof layer is properly sealed if exposed to wet environments.

## Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| LED strip does not light up. | Incorrect polarity, loose connection, incompatible strip/wire. | Check that '+' on the strip aligns with '+' on the connector and wire. Ensure both the strip and wire are fully inserted and the connector covers are firmly closed. Verify the LED strip is 4-pin 10mm and the wire gauge is 20AWG or 22AWG. |
| Lights flicker or show inconsistent colors. | Poor contact, partial connection. | Re-open the connector and re-seat the LED strip and/or wire, ensuring all metal pins make solid contact with the copper pads/wires. Apply gentle pressure to close the connector covers completely. |
| Connector does not close properly. | LED strip or wire not fully inserted, debris. | Ensure the LED strip and wire are pushed in completely. Check for any obstructions preventing the cover from closing. Do not force the cover; re-align components. |

## Specifications

| Feature | Detail |
|---|---|
| Rated Voltage | 0-36V |
| Rated Current | 5A |
| Suitable Wire Gauge | 22AWG or 20AWG |
| Compatible LED Strip Width | 10mm |
| Compatible LED Strip Type | 4-pin 5050/3528 SMD RGB LED Strip Light (IP20/IP65) |
| Material | PC material and tinned copper metal |
| Dimensions (L x W x H) | 19mm x 13mm x 6mm (0.74in x 0.51in x 0.23in) |
| Number of Items | 25 |

## Warranty and Support

RGBZONE products are manufactured to high-quality standards. For specific warranty details, please refer to the product packaging or contact RGBZONE customer service.
For further assistance, troubleshooting, or product inquiries, please visit the officialRGBZONE Store on Amazon or contact their customer support team directly.

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