LUMENSTAR LED LIGHTING

RGBW strip light Installation Guide

RGBW LED Flex Tape	Voltage	LED / M	W/M	Ordering Increment	Cut Length	Max Length Single Side Power (no voltage drop)	Max Length Double Side Power (no voltage drop)
Indoor - with 3M sticky tape on back							
LS-FLI-35B-24-60-RGBW	24V DC	30 WW 27K 30 RGB	14.4	5M (16.4 ft.)	200mm (7⅞ in.)	5M (16.4 ft.)	10M (32.8 ft.)
Moisture Proof - with silicone coating and 3M sticky tape on back							
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Calculating Power Supply requirements:

1. Calculate the wattage required for the total length of flexible strip used. Example: 14.4W x 5M = 72W + 10% safety room = 79.2W.
2. Choose power supply greater than the total wattage required including the 10% safety room. **NOTE:** Dimmable drivers **do not work with** RGBW as RGBW is inherently dimmable through the RGBW Controller. Using a dimmable power supply with a wall dimmer will destroy the controls.

Layout Process:

1. Map out Layout:	Choose flexible strip type based on brightness/length requirements. Decide location of components and RGBW Flex. Measure lengths of RGBW strip required and note. It helps to sketch layout to visualize the entire system and make more calculated decisions.
2. Voltage Drop Guidelines:	See above chart for information on Max run lengths for optimal performance to avoid color distortion & light loss. **NOTE:** Voltage drop happens when runs get too long without using an amplifier or running a fresh line from the original controller/amplifier.
3. Power Supply Load:	Calculate load based on the total length of strips in Meters x Wattage. Be sure to leave 10% room on the power supply for optimal long term performance. **Example:** 5 Meters of 30 chip/M RGBW strip @ 14.4W x 5M = 72W + 10% safety room = 79.2W. Choose a power supply greater than 79.2W.
4. RGBW Controller Load:	You must stay within the load of each respective controller/amplifier. Calculate max load based on max amperage/channel. **Example 5A/channel**: 5A x 24V = 120W x 4 channels for RGBW = 480W@24V
4a. Amplifier Load:	Same premise applies as above for RGBW Controller. Amplifiers repeat the existing signal from the original controller and facilitating much longer runs as you can continue to install amplifiers and keep your strip bright at the required distances thus avoiding light loss & color distortion.

Solderless Connectors:

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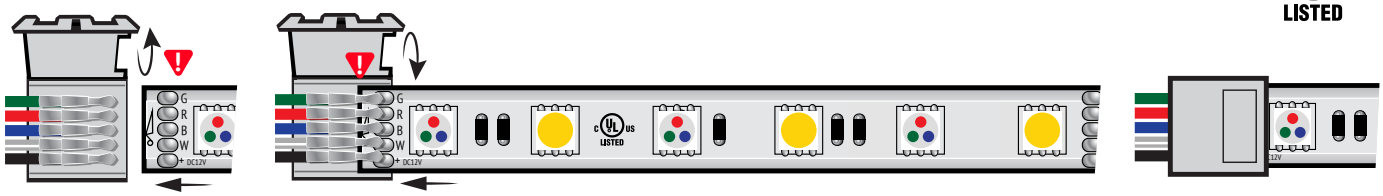
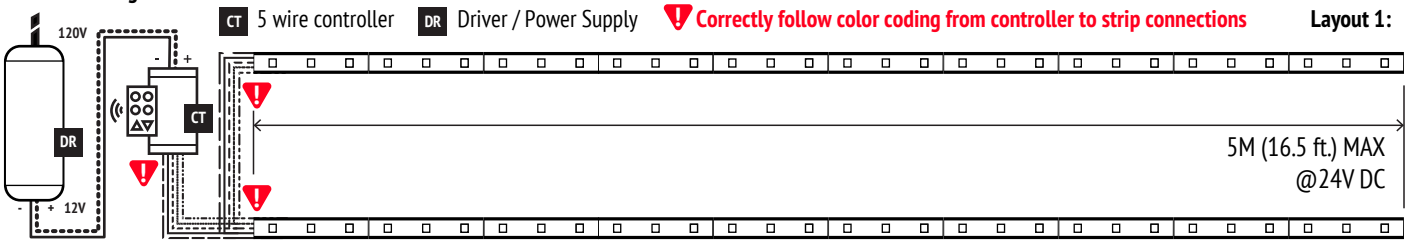


1. Open solderless connector **2.** Slide strip under pins **3.** Snap connector closed

Connection guide:



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