

# Outdoor IP65 ColorBright™ Color Changing

RGB + W Series

Product Data Sheet



15 Year  
Warranty



## Description

The Outdoor ColorBright™ (IP65) Color Changing + White LED strip light is a reel of linear color changing LED chips mounted on a flexible printed circuit board (PCB) that has a silicone coating offering protection from water and foreign elements. These lights can create any color you can imagine, including a beautiful warm white. No longer will you have to sacrifice one product for the other, we have combined them both into one strip.

The IP65 rating means that the LED strip lights are able to withstand jets and splashes of water from all sides. It cannot be submerged in water, but it will withstand the elements. We also recommend outdoor lights for use indoors in high splash areas or if you're looking for a strip that is easier to clean.

## Product Features

- White LEDs have a High CRI of 80+
- Specification Grade LED strips
- Fully dimmable
- Highest quality components and premium packaged 5050 LEDs
- Single BIN LED selection to ensure color consistency (3-Step MacAdam)
- 3M 9731 adhesive for a strong bond to the weatherproof silicone sleeve
- 120° Beam Angle
- Only 9/16" (14mm) strip width
- Short LED pitch of 3/4" (17mm)
- 12V or 24V DC Input Options
- LEDs per foot: RGB: 9, White: 9
- Can be cut every 6 LEDs (10 LEDs for 24V)
- 18 LEDs/Foot (60/Meter)
- Thick double layer 2 oz copper PCB for excellent thermal management
- Operating Temperature -4°F to +104°F (-20°C to 40°C)
- Maximum Length in Series 16ft 5in (5 Meters) for 12V 32ft 10 in (10 Meters) for 24V
- IP65 Rated with non-yellowing and UV resistant silicone sleeve

## Product Specifications

Product SKU	Color (CCT)	Watts / foot (Meter)	Lumen / foot (Meter) [White chips only]	Lumen / foot (Meter) [RGB only]	CRI [White]	Gamut Score Rg (Color Sat.) [White]	Relative Fidelity Score (RF) [White]
IP65-CB-RGB24K	2400K	4.4 W/ft 14.4 W/m	Coming Soon	R: 11LM (35/m) G: 46LM (150/m) B: 10LM (30/m)	84	98	83
IP65-CB-RGB27K	2700K	4.4 W/ft 14.4 W/m	Coming Soon	R: 11LM (35/m) G: 46LM (150/m) B: 10LM (30/m)	84	94	83
IP65-CB-RGB30K	3000K	4.4 W/ft 14.4 W/m	198 lm/ft (423 lm/m)	R: 11LM (35/m) G: 46LM (150/m) B: 10LM (30/m)	83	91.4	82.9
IP65-CB-RGB42K	4200K	4.4 W/ft 14.4 W/m	207 lm/ft (679 lm/m)	R: 11LM (35/m) G: 46LM (150/m) B: 10LM (30/m)	82	96.9	80.6
IP65-CB-RGB62K	6200K	4.4 W/ft 14.4 W/m	213 lm/ft (698 lm/m)	R: 11LM (35/m) G: 46LM (150/m) B: 10LM (30/m)	83	94.3	79.5

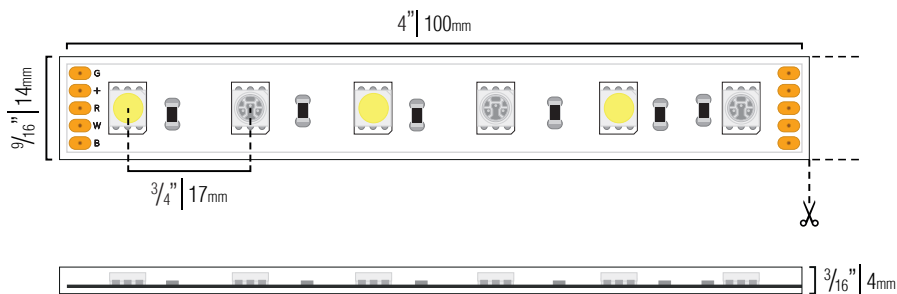
\*Because of variability of RGB, we cannot calculate CRI, Gamut, RF, or efficacy

## Ordering Code

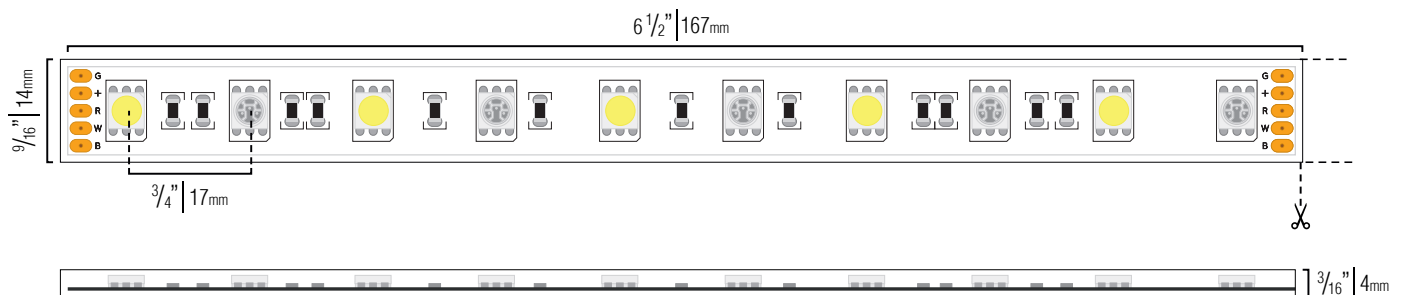
IP Protection	Brand	Color	CCT	Voltage	Length
<b>IP65 -</b> Weatherproof	<b>CB-</b> ColorBright	<b>RGB</b>	<b>24K -</b> 2400K <b>27K -</b> 2700K <b>30K -</b> 3000K <b>42K -</b> 4200K <b>62K -</b> 6200K	<b>12V -</b> <b>24V -</b>	<b>16FT -</b> 16ft Reel
<b>IP68* -</b> Waterproof					

\* Special Order

## Dimensions 12V

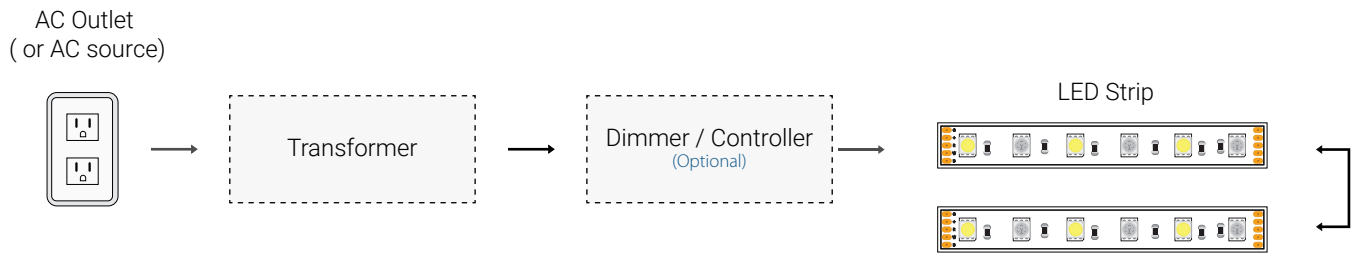


## Dimensions 24V

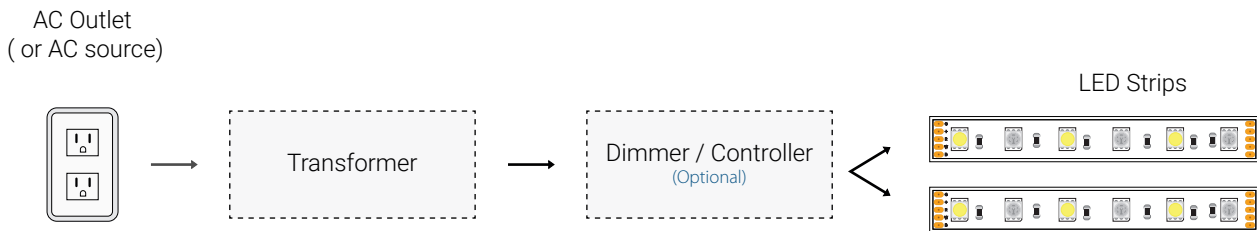


## Example Installation and Layout

### In Series

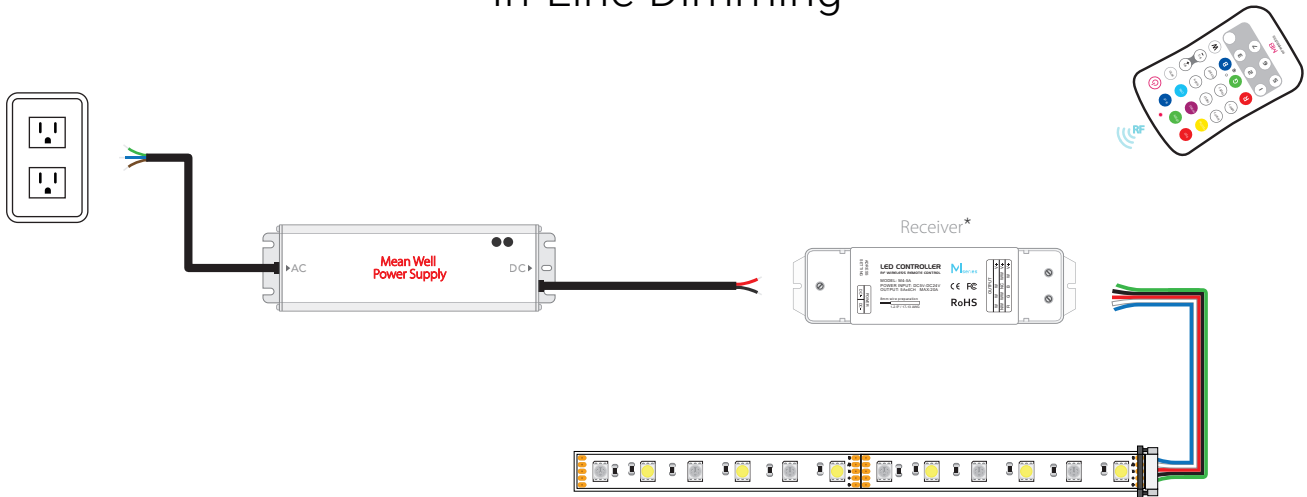


### In Parallel



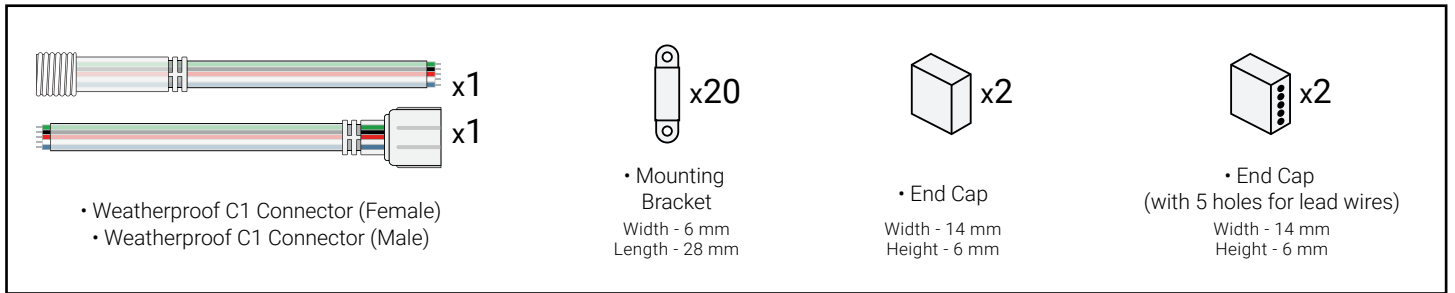
## Dimming Options

### In-Line Dimming



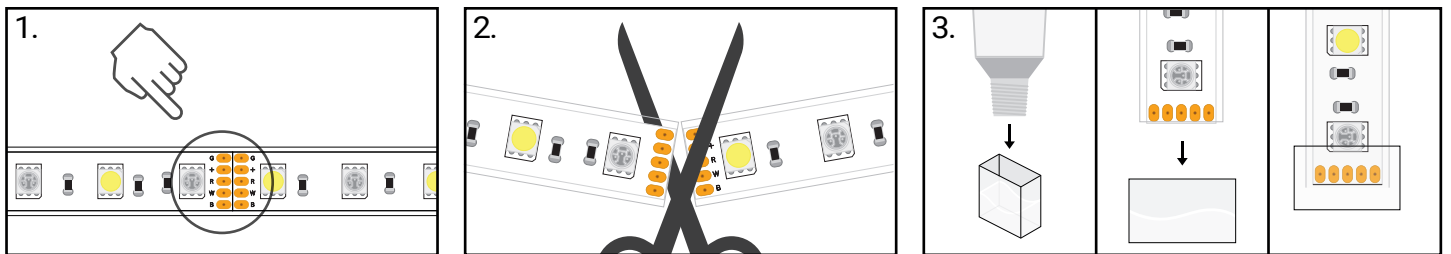
\*Remote Control (SKU: SC-MZ-CTRL) can be paired to 8 total receivers. Multiple remotes cannot be paired to a single receiver (max 1)

## Included Accessories



## Resealing Outdoor Strips

### Sealing Outdoor Strips with End Caps

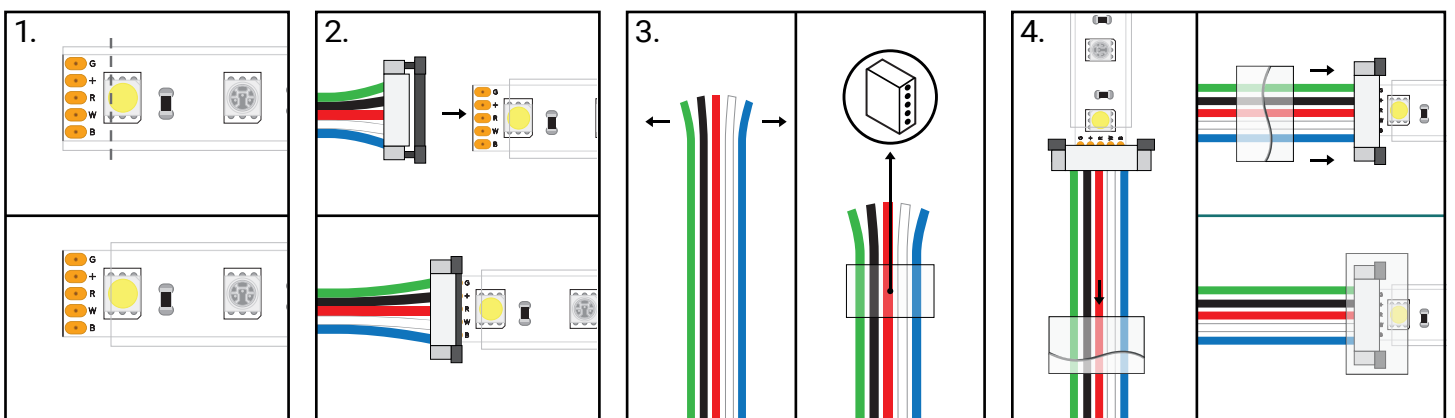


1. Find the cut line on the strip (between the solder pads).

2. Carefully cut the strip on the cut line.

3. Fill an end cap (without holes) with sealant and slide it over the end of the strip until it fits snugly.

### Sealing Outdoor Strips with End Caps and a Solderless Connector



1. Cut the strip and remove the silicone covering just enough to expose the solder pads on the strip.

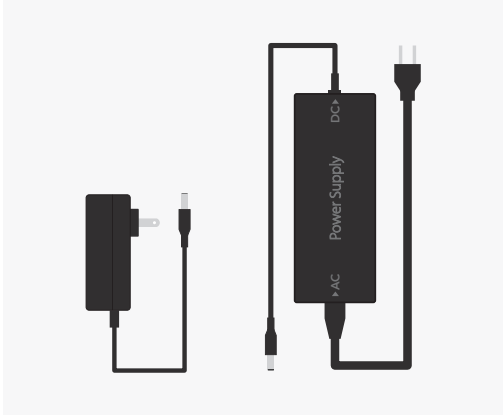
2. Carefully insert the strip into the connector and ensure it fits snugly.

3. Spread the wires on the connector and slide them through the holes in the end cap.

4. Fill the end cap (with holes) with sealant and slide carefully over the connector at the end of the strip.

## Compatible Drivers (12V)

### Wall Mounted Power Supply / Desktop Power Supply

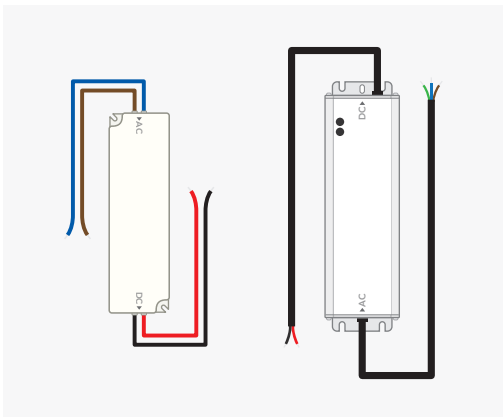


#### LED Strip Length

#### SKU

1 - 4 ft	12V-WMPS-1
5 - 9 ft	12V-DPS-2
10 - 18 ft	12V-DPS-4
18 - 26 ft	12V-DPS-6
22 - 35 ft	12V-DPS-8

### Mean Well



#### LED Strip Length

#### SKU

1 - 4 ft	LPV-20-12
5 - 8 ft	HLG-40H-12A
7 - 12 ft	HLG-80H-12A
12 - 20 ft	LPV-100-12
18 - 24 ft	HLG-120H-12A
21 - 29 ft	HLG-150H-12A
27 - 39 ft	HLG-240H-12A

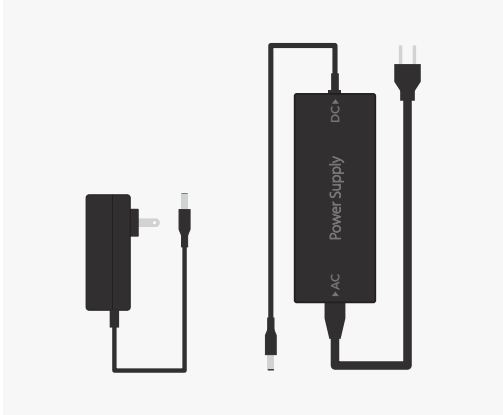
#### LED Strip Length

#### SKU

36 - 54 ft	HLG-320H-12A
55 - 92 ft	HLG-600H-12A

## Compatible Drivers (24V)

### Wall Mounted Power Supply / Desktop Power Supply



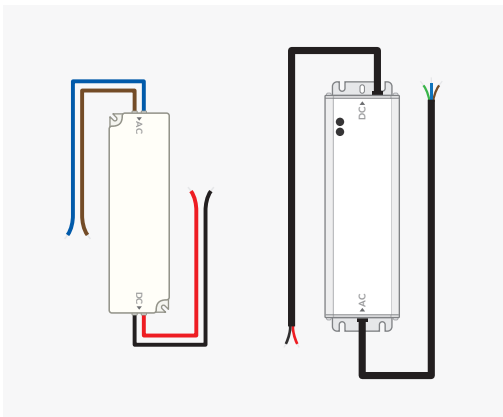
#### LED Strip Length

- 1 - 9 ft
- 9 - 22 ft
- 22 - 35 ft
- 28 - 44 ft

#### SKU

- 24V-WMPS-1
- 24V-DPS-2.5
- 24V-DPS-4
- 24V-DPS-5

### Mean Well



#### LED Strip Length

- 1 - 4 ft
- 5 - 8 ft
- 8 - 12 ft
- 11 - 16 ft
- 14 - 19 ft
- 17 - 24 ft
- 24 - 37 ft
- 34 - 48 ft

#### SKU

- LPV-20-24
- HLG-40H-24A
- HLG-60H-24A
- HLG-80H-24BL
- HLG-100H-24A
- HLG-120H-24A
- HLG-185H-24A
- HLG-240H-24A

#### LED Strip Length

- 44 - 67 ft
- 68 - 120 ft

#### SKU

- HLG-320H-24A
- HLG-600H-24A



## Compatible Aluminum Extrusions

### KLUS GIZA Anodized Extrusion

(SKU: KL-B5556ANODA-1m)



#### Covers

- KLUS - HS 22 Clear Cover (SKU: KL-17022-1m)
- KLUS LIGER 22 Frosted Cover (SKU: KL-17032-1m)

#### End Caps

- KLUS GIZA End Cap (SKU: KL-24007)

#### Mounting Accessories

- KLUS GP Surface Spring (SKU:KL-00293)
- KLUS Mounting Bracket (SKU: KL-24143)

## Safety And Disclosures

1. Installation must be in accordance with local and national electrical code regulations.
2. To ensure safety and correct installation, our strips are intended to be installed by a qualified, licensed electrician.
3. Only install with a Class 2 DC Constant Voltage LED driver to meet UL requirements.
4. Do not install in environment where excessive heat may exist.
5. LED strip lights must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
6. Do not install indoor LED tape light products in outdoor / wet location environments. Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
7. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
8. Make sure the appropriate gauge wire is installed between driver, LEDs, and any dimmers. When choosing wire, calculate voltage drop, maximum amperage rating, and the location ratings on the wire. Improper wire selection and installation could overheat wires, and cause fire.
9. Do not modify product beyond instructions or warranty will be void.
10. We reserve the right to modify and improve the design of our fixtures without prior notice. Although we try our best to order the same colors every time, due to changes in technology and phosphors over time, we cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.

## Warranty Information

### Limited Warranty

This product has a 15 year limited warranty from the date of shipment. This warranty only includes the main product outlined in this specification sheet and does not include the additional accessories that are used as a reference. Complete warranty details for fixtures and additional accessories are available at <https://www.flexfireleds.com/warranties/> within the Policies section. For warranty related questions please contact product support team at ([support@flexfireleds.com](mailto:support@flexfireleds.com)).

### Consumer's Acknowledgment

Flexfire LEDs, Inc. stands behind its products when they are used properly and according to our specifications. When you purchase our products, you are agreeing to the terms and conditions outlined in our warranty section. We try our best to make recommendations, but the burden of proper installation, design, and maintenance relies on the purchaser.

This limited warranty does not include product failures that are the result of:

Not using a voltage regulated power supply to connect the LED product or controls; Connecting LED products to the wrong output voltage; Improper connection of power supplies, LED products, or controls; Connecting LED products or controls directly to any AC power source if they are stated for DC only input; Connecting power supplies backwards to an AC power source; Products used in an inappropriate location or in environmental conditions (temperature, humidity, moisture, etc.) outside the normal specified range; Water damage to products not specifically sold as waterproof products; Electrical power surges and spikes; Damage from hail, flooding, tornado, fire, wind, earthquake, lightning, electrical storm, or any other natural disasters or "force majeure" incidences; Damage caused by a vehicle or other accident; Damage caused when transporting the item; Damage to any products that were modified by the user, used for purposes other than as intended or directed, or connected to LED systems or components not purchased from Flexfire LEDs; Products that have been subjected to misuse, mishandling, misapplication or accident. Products used in connection with any components, devices or systems other than those explicitly approved as compatible with Company's products and listed on Company's website. Excessive wear and tear and/or physical or accidental abuse, loss, or theft. Improper repairs or warranty services performed by someone other than Flexfire LEDs will void this warranty.