

# PRODUCT DATA SHEET

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ColorBright™  
Color Changing  
RGB+W Series



5 Year  
Warranty



# Description

The ColorBright™ Color Changing + White LED strip light is an ingenious product that has combined two powerful strips into one. This product has alternating RGB color changing LEDs and single color high brightness white LEDs. This product is for those who love to control every aspect of their lives, starting with their lights. These lights can produce 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.

# 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)
- Thermal conductive 3M brand adhesive
- 120° Beam Angle
- Only 1/2" (12mm) 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 -30°C to 60°C
- Maximum Length in Series 16ft 5in (5 Meters) for 12V  
32ft 10 in (10 Meters) for 24V

# Product Specific Specifications

Product SKU	Color (CCT)	Watts / foot (Meter)	Lumen / foot (Meter) [White chips only]	Lumen Output [RGB only]	CRI [White]	Gamut Score Rg (Color Sat.) [White]	Relative Fidelity Score (RF) [White]
CB-RGB24K	2400K	4.4 W/ft 14.4 W/m	Coming Soon	Variable	Coming Soon	Coming Soon	Coming Soon
CB-RGB27K	2700K	4.4 W/ft 14.4 W/m	Coming Soon	Variable	Coming Soon	Coming Soon	Coming Soon
CB-RGB30K	3000K	4.4 W/ft 14.4 W/m	198 lm/ft (423 lm/m)	Variable	83	91.4	82.9
CB-RGB42K	4200K	4.4 W/ft 14.4 W/m	207 lm/ft (679 lm/m)	Variable	82	96.9	80.6
CB-RGB62K	6200K	4.4 W/ft 14.4 W/m	213 lm/ft (698 lm/m)	Variable	83	94.3	79.5

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

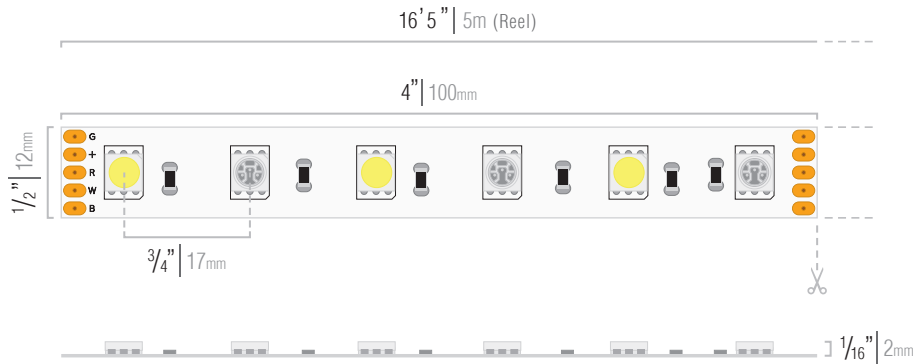
# Ordering Code

## INDOOR

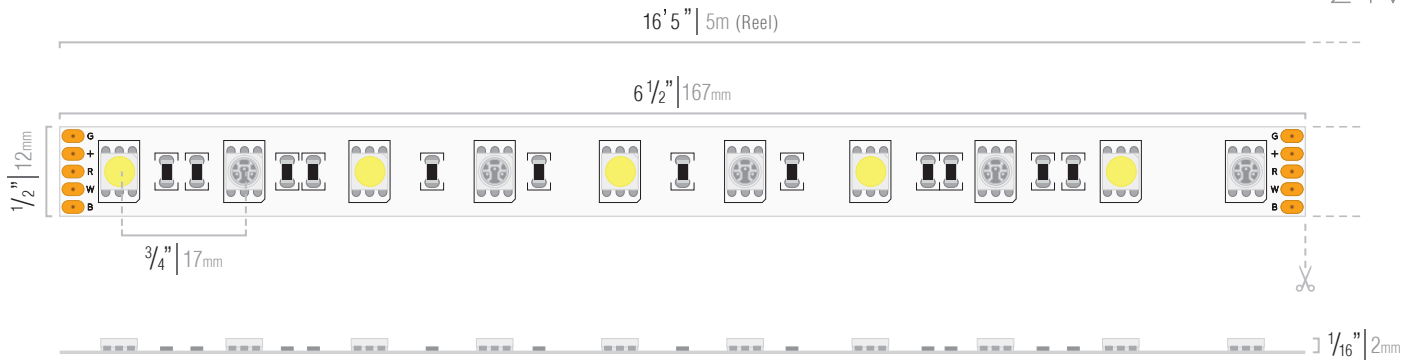
Brand	Color	CCT	Voltage	Length
CB - ColorBright™	RGB	24K - 2400K 27K - 2700K 30K - 3000K 42K - 4200K 62K - 6200K	24V 12V - (Special)	01 FT - Less than 16 ft 16 FT - 16 ft Reel

# Dimensions

12V

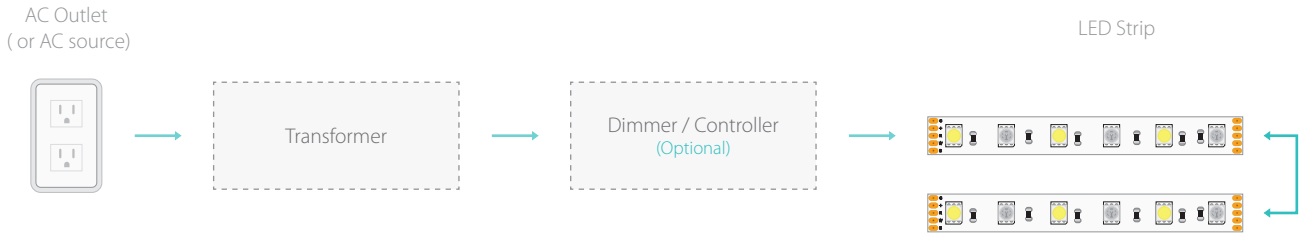


24V

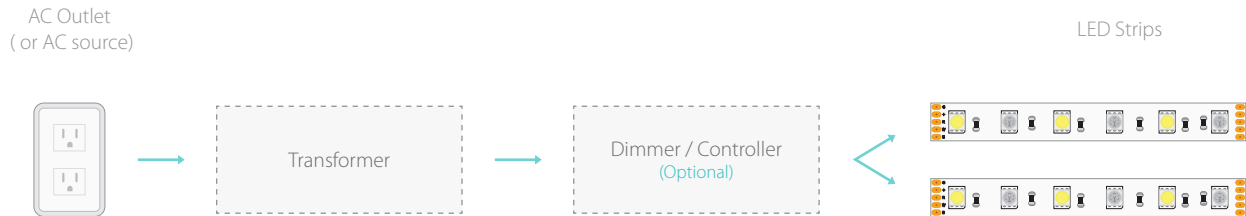


# Example Installation and Layout

## IN SERIES

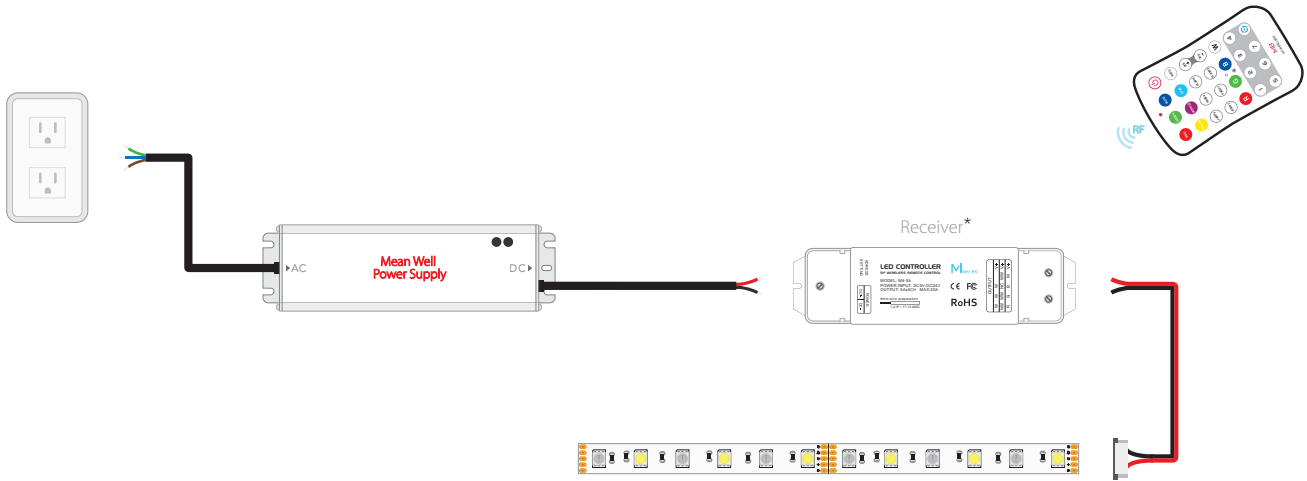


## IN PARALLEL






# Dimming Options

## In-Line Dimming



\* The receiver and controller may differ from the one shown.

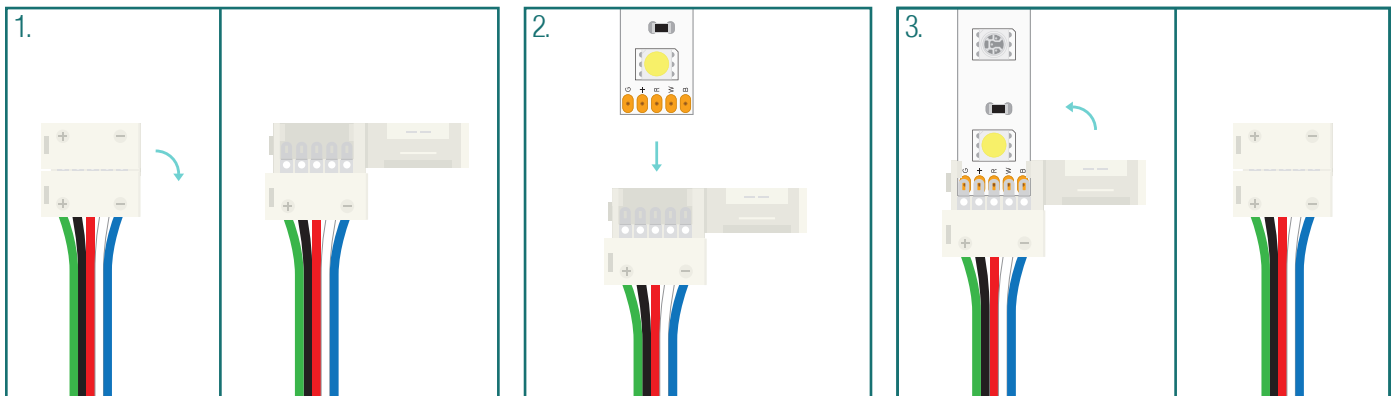
# Strip Light Connectors

SKU	Description	Wire Gauge	Amp Limit**	Mockup
RGBW-C1*	Attaches LED strip directly to a Power Supply/Driver, low voltage control or DC source.	22 AWG	5 Amps	
RGBW-C2*	Attaches two sections of LED strip together. Wire lead allows for turns around tight corners.	22 AWG		
RGBW-C3*	Attaches two sections of LED strip together in a continuous run.	-		

\* Calculate max length of LED strip to follow the solderless connector based on an amperage draw of 0.37 amps per foot (1.20 A/m) at 12 volts, or at 24 volts use 0.18 A/ft (0.60 A/m).

\*\* The max continuous run of the RGB 300 LED strip is 16 feet (5 meters) at 12V. Be sure no more than 5 amps is drawn after any solderless connector.

## Solderless Connection Guide

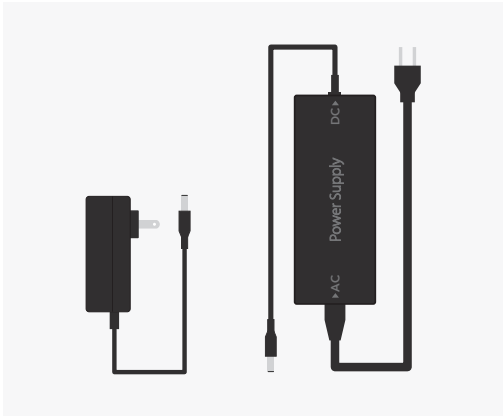


1. Open the RGBW strip connector. *See Diagram 1*
2. Take a look at the cut mark on the strip and you will see G,+, R, W, B. Match the colors on the wires as follows: Green to G, Black to positive, R to red, W to white and Blue to B. *See Diagram 2*
3. Insert the end of the strip under the 5 metal pins on the connector, make sure the pins are making contact on the copper contact points and finally close the lid on the connector. *See Diagram 4*

**NOTE:** Soldering is the preferred method. If you need further assistance, please download our Solderless Connector Installation Guide from our website

# Compatible Drivers (12V only)

## Wall Mounted Power Supply / Desktop Power Supply



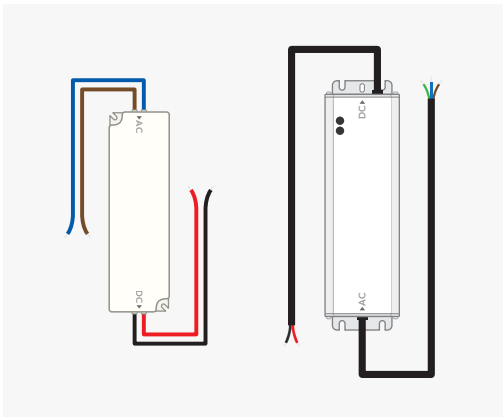
### LED Strip Length

- 1 - 4 ft
- 5 - 9 ft
- 10 - 18 ft
- 18 - 26 ft
- 22 - 35 ft

### SKU

- 12V-WMPS-1
- 12V-DPS-2
- 12V-DPS-4
- 12V-DPS-6
- 12V-DPS-8

## Mean Well



### LED Strip Length

- 1 - 4 ft
- 5 - 8 ft
- 7 - 12 ft
- 12 - 20 ft
- 18 - 24 ft
- 21 - 29 ft
- 27 - 39 ft

### SKU

- LPV-20-12
- HLG-40H-12A
- HLG-80H-12A
- LPV-100-12
- HLG-120H-12A
- HLG-150H-12A
- HLG-240H-12A

### LED Strip Length

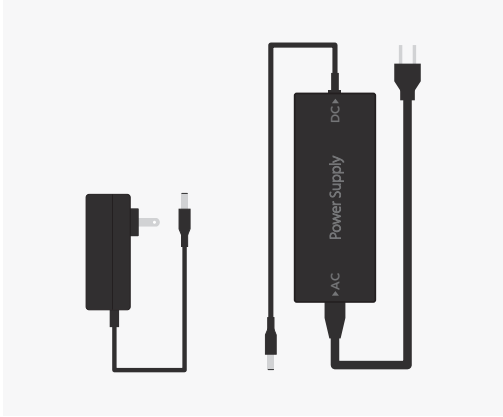
- 36 - 54 ft
- 55 - 92 ft

### SKU

- HLG-320H-12A
- HLG-600H-12A

# Compatible Drivers (24V only)

## Wall Mounted Power Supply / Desktop Power Supply



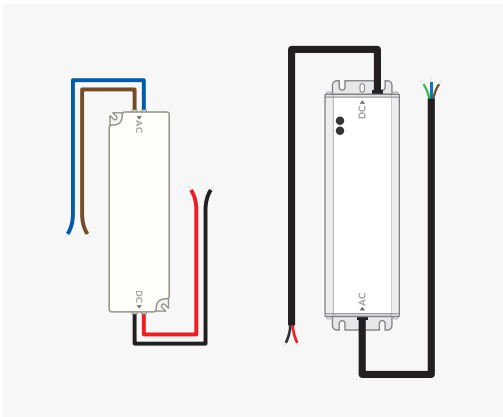
### LED Strip Length

- 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 GIP Anodized Extrusion

(SKU: KL-B4574ANODA-1m)



### Covers

- G-L Frosted Cover (SKU: KL-00413-1m)

### End Caps

- GIP - L End Cap without Wire Hole (SKU: KL-00306)

### Mounting Accessories

- GP Surface Spring (SKU: KL-00293)
  - minimum surface thickness 10mm (3/8")
- Mounting Bracket (SKU: KL-24143)

## ▶ GIZA Anodized Extrusion

(SKU: KL-B5556ANODA-1m)



### Covers

- HS 22 Clear Cover (SKU: KL-17022-1m)
- HS 22 Frosted Cover (SKU: KL-17011-1m)

### End Caps

- GIZA End Cap without Wire Hole (SKU: KL-24007)

### Mounting Accessories

- GP Surface Spring (SKU: KL-00293)
  - minimum surface thickness 10mm (3/8")
- Mounting Bracket (SKU: KL-24143)

## Safety And Disclosures

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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

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This product has a 5-year limited warranty that starts from the date of shipment. Products must be installed as instructed for warranty to be valid. This warranty does not include the additional accessories referenced in this specification sheet. Complete warranty details for fixtures and additional accessories are available at <https://www.flexfireleds.com/returns-and-exchanges/> within the Policies section. For warranty related questions please contact our support team ([support@flexfireleds.com](mailto:support@flexfireleds.com)).