

# PRODUCT DATA SHEET

---

## ColorBright™ Vivid Color Series



15 Year  
Warranty



## Description

ColorBright™ Vivid Color LED strip lights are the perfect way to add a ferocious amount of beautiful vivid colored lighting in compact places. The LED chips are mounted on flexible strips of printed circuit boards (FPCB) with strong 3M adhesive backing. Sometimes referred to as "LED tape lights," the flexible design of LED strips allows for the addition of red, green, blue, or amber in basically any space you can imagine. The fact that the flexible PCBs can be bent up to 90 degrees and cut every 3 LEDs make them very versatile and customizable solutions for adding color lighting wherever you need it.

## Product Features

- Double density LEDs for high brightness output
- Fully dimmable
- Highest quality components and premium packaged 3528 LEDs
- Single BIN LED selection to ensure color consistency (3-Step MacAdam)
- Thermally Resistant 3M VHB 4930 adhesive for long lasting bond
- 120° Beam Angle
- Efficiency up to 92 lm/W
- Only 5/16" (8mm) strip width
- Short LED pitch of 5/16" (8mm)
- 12V DC Input (24V available by special order)
- Can be cut every 1" (25.4mm)
- 36 LEDs / Foot (120 / 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 32ft 10in (10 Meters)

## Product Specific Specifications

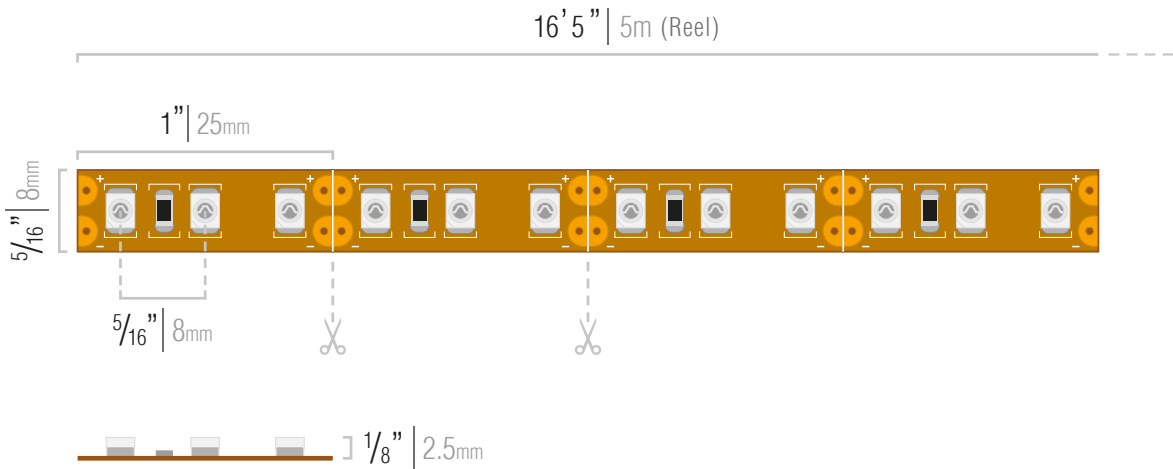
Product SKU	Color (CCT)	Wavelength (nm)	Watts / foot (Meter)	Lumin. Flux (Meter)	Luminous efficacy (Lumens / Watt)
CB-G	Green	515 - 525 nm	2.9 W/ft (9.6 W/m)	134 lm/ft (440 lm/m)	46
CB-R	Red	615 - 630 nm	2.9 W/ft (9.6 W/m)	91 lm/ft (300 lm/m)	31
CB-B	Blue	465 - 475 nm	2.9 W/ft (9.6 W/m)	55 lm/ft (180 lm/m)	19
CB-AM	Amber	575 nm (1600-1800K)	2.9 W/ft (9.6 W/m)	263 lm/ft (862 lm/m)	91

# Ordering Code

## INDOOR

Brand	Color	Voltage	Length
<div>CB - ColorBright™</div>	<div>G - Green</div> <div>R - Red</div> <div>B - Blue</div> <div>AM - Amber</div>	<div>12V</div> <div>24V - (Special)</div>	<div>01FT - 1ft Reel</div> <div>04FT - 4ft Reel</div> <div>08FT - 8ft Reel</div> <div>16FT - 16ft Reel</div>

# Dimensions

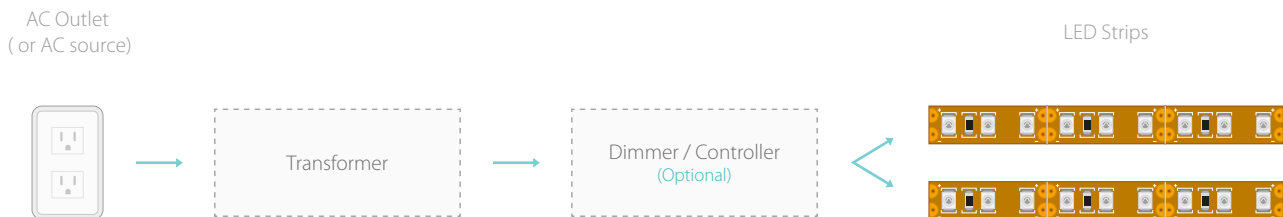


# Example Installation and Layout

## IN SERIES

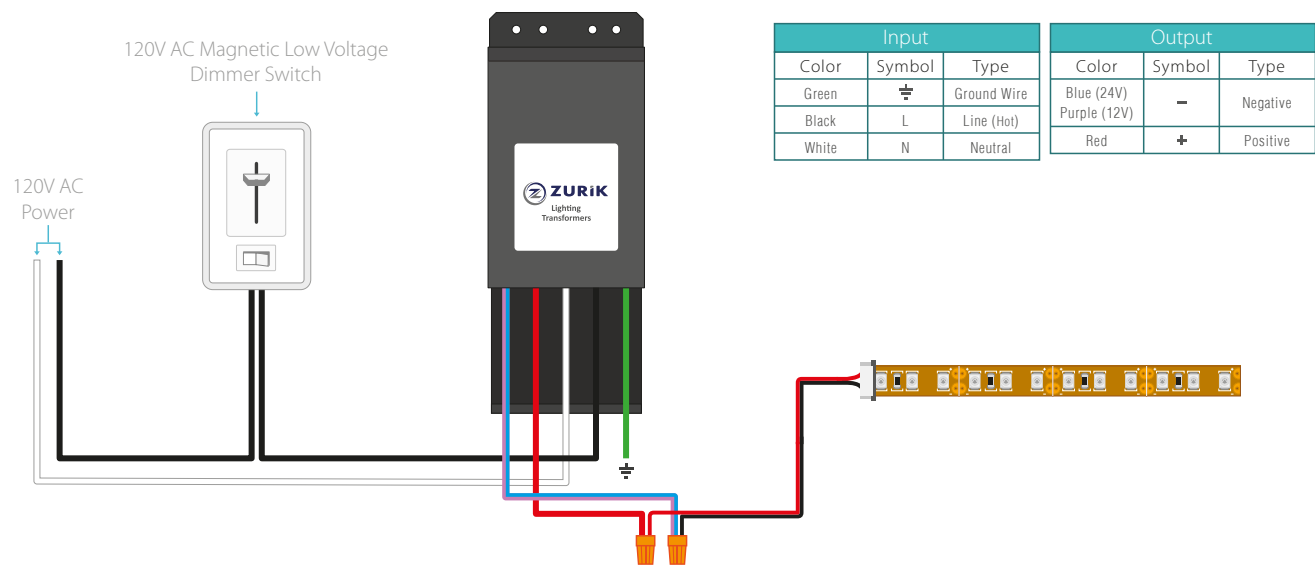


## IN PARALLEL

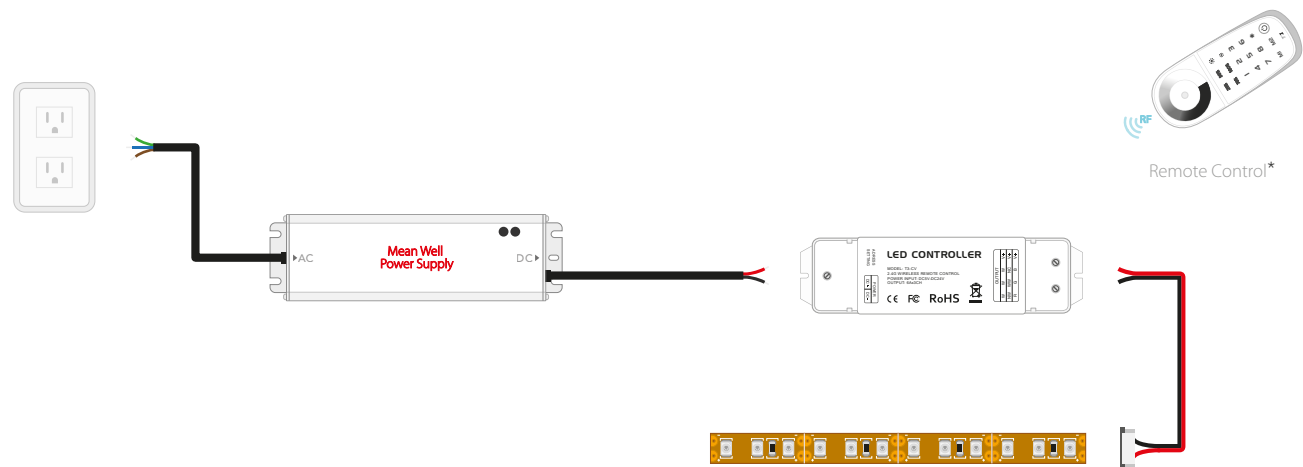


# Dimming Options

## Lutron Style Wall Dimmer






## 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 remote per receiver).

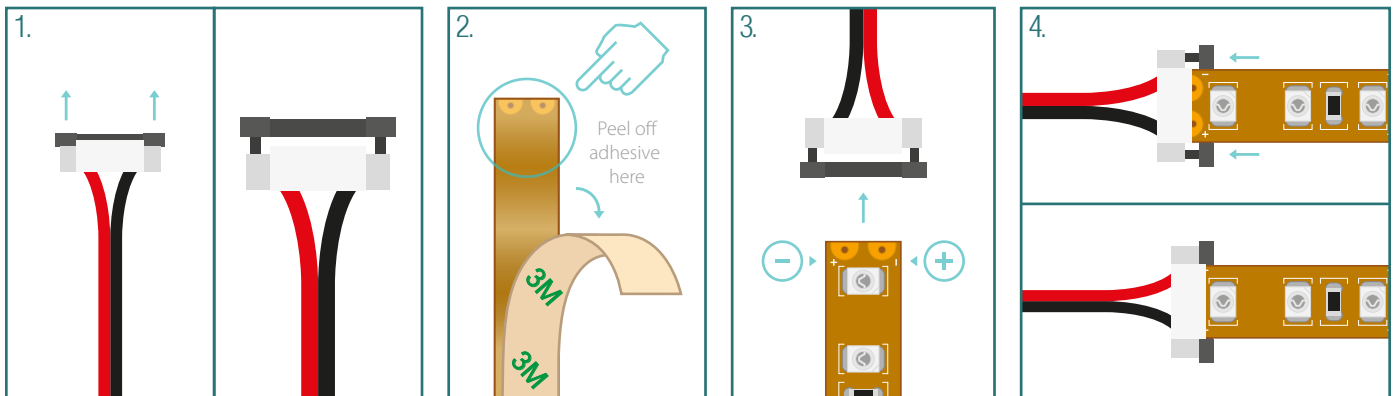
# Strip Light Connectors

SKU	Description	Wire Gauge	Amp Limit**	Mockup
CB-C1*	Attaches LED strip directly to a Power Supply/Driver, low voltage control or DC source.	22 AWG	5 Amps	
CB-C2*	Attaches two sections of LED strip together. Wire lead allows for turns around tight corners.	22 AWG		
CB-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 0.24 amps per foot (0.79 A/m) at 12 volts, or at 24 volts use 0.12 A/ft (0.40 A/m).

\*\* The max continuous run of the White Series LED strip is 32 feet (10 meters). Be sure no more than 5 amps is drawn after any solderless connector.

## Solderless Connection Guide



1. The solderless connectors have a plastic housing with a small black tray on the underside. Pull the black plastic tray out until the tray stops. The tray will only pull out approximately 2-3mm, don't try to pull it out farther. *See Diagram 1*
2. Remove 1/4" of 3M adhesive tape on the back from the end of the strip that you want to connect. It must be removed to allow it to fit properly with the solderless connector. *See Diagram 2*
3. Slide the connector into the end of the LED strip by holding the tray out as you slide it in. Make sure the tray does not move into a locked position until the connector is all the way in. *See Diagram 3*
4. Once the LED strip is inserted into the solderless connector, close the black tray underneath by pinching the wings on the side of the connector (inward, toward the connector's housing). *See Diagram 4*

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

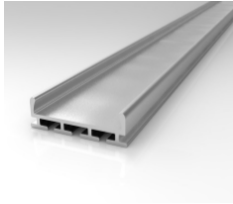
# Compatible Drivers (12V)

	Power Supply	LED Strip Length	SKU	Diagram
Non-Dimmable	Wall Mounted Power Supply / Desktop Power Supply	1 - 3 ft	12V-WMPS-1	
		4 - 6 ft	12V-DPS-2	
		7 - 13 ft	12V-DPS-4	
		14 - 20ft	12V-DPS-6	
		21 - 26 ft	12V-DPS-8	
Non-Dimmable	Mean Well™ HLG	1 - 11 ft	HLG-40H-12A	
		12 - 17 ft	HLG-80H-12A	
		18 - 35 ft	HLG-120H-12A	
		36 - 43 ft	HLG-150H-12A	
		44 - 53 ft	HLG-240H-12A	
		54 - 74 ft	HLG-320H-12A	
Non-Dimmable	Mean Well™ LPV	75 - 140 ft	HLG-600H-12A	
		1 - 6 ft	LPV-20-12	
		7 - 10 ft	LPV-35-12	
		11 - 17 ft	LPV-60-12	
Dimmable	Zurik® EMLV	18 - 28 ft	LPV-100-12	
		1 - 8 ft	ZRK-EMLV2-30W-12VDC	
		9 - 17 ft	ZRK-EMLV2-60W-12VDC	
		18 - 35 ft	ZRK-EMLV2-120W-12VDC-J	
		36 - 58 ft	ZRK-EMLV2-200W-12VDC-J	
Dimmable	Zurik® Universal Drivers	59 - 88 ft	ZRK-EMLV2-300W-12VDC-J	
		1 - 17 ft	ZRK-UNV-60W-12VDC	
		18 - 34 ft	ZRK-UNV-120W-12VDC	
		35 - 60 ft	ZRK-UNV-200W-12VDC	
		61 - 95 ft	ZRK-UNV-300W-12VDC	

# 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)

## ► 45-ALU Anodized Extrusion

(SKU: KL-B4023ANODA-1m)



### Covers

- HS Clear Cover (SKU: KL-1370-1m)
- HS Frosted Cover (SKU: KL-1369-1m)
- LIGER Frosted Cover (SKU: KL-17031-1m)

### End Caps

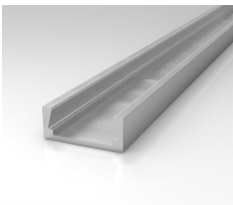
- 45-ALU End Cap without Wire Hole (SKU: KL-1383)
- 45-ALU End Cap with Wire Hole (SKU: KL-1440)

### Mounting Accessories

- Zinc Mounting Bracket (SKU: KL-1399)
- NOTE:** All solderless connectors do not fit inside this aluminum extrusion.

## ► KLUS MICRO-ALU Anodized Extrusion

(KL-B1888ANODA-1m)



### Covers

- HS Clear Cover (SKU: KL-1370-1m)
- HS Frosted Cover (SKU: KL-1369-1m)
- LIGER Frosted Cover (SKU: KL-17031-1m)

### End Caps

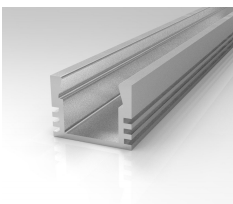
- MICRO-ALU End Cap without Wire Hole (SKU: KL-1059)
- MICRO-ALU End Cap with Wire Hole (SKU: KL-1060)

### Mounting Accessories

- Zinc Mounting Bracket (SKU: KL-1072)
- NOTE:** All solderless connectors do not fit inside this aluminum extrusion.

## ► KLUS PDS4-ALU Anodized Extrusion

(KL-B1718ANODA-1m)



### Covers

- HS Clear Cover (SKU: KL-1370-1m)
- HS Frosted Cover (SKU: KL-1369-1m)
- LIGER Frosted Cover (SKU: KL-17031-1m)

### End Caps

- PDS4-ALU End Cap without Wire Hole (SKU: KL-1055)
- PDS4-ALU End Cap with Wire Hole (SKU: KL-1057)

### Mounting Accessories

- Zinc Mounting Bracket (SKU: KL-1072)
- NOTE:** All solderless connectors do not fit inside this aluminum extrusion.



# 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.