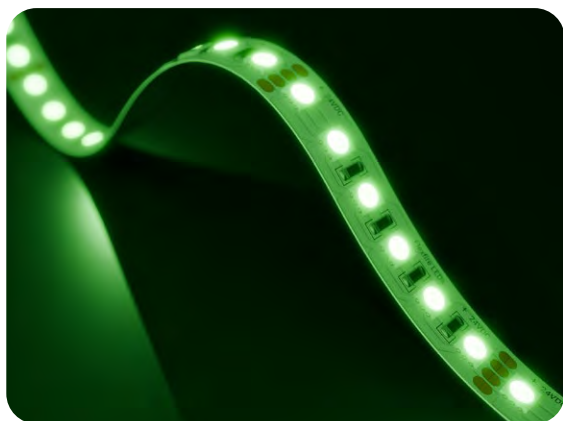




ColorBright™ RGB 600 LED Strip Light

 **PRECAUTION:** Please read all instructions carefully before installation.

Our ColorBright™ RGB 600 offers endless color-changing combinations and rich color depth. Paired with a control system, it can benefit from dynamic modes and stunning effects like flashing, strobing, and fading. With 600 high-quality LEDs and ultra-bold hues, it is the strongest color strip light on the market, making eye-catching statements in homes and businesses, particularly extra-large spaces.



Product Features

Voltage	24V DC
Wattage	6.1 W/ft (20 W/m)
Number of LEDs	36 LEDs/ft (120 LEDs/m)
Beam Angle	120°
Strip Width	3/8" (10 mm)
LED Pitch	3/8" (9.5 mm)
Cutting Points	2" (50 mm)
Max Run Length in Series	26 ft (8 m)
PCB	3 oz Copper
LED Size	4040
Adhesive Type	3M VHB 4930
Ambient Temperature	-4°F to +113°F (-20°C to 45°C)
Operating Temperature	-4°F to 167°F (-20°C to 75°C)
Dimmable	Yes
IP Rating	IP20: Indoor, Dry Location

7 Year
Warranty



Ordering Code

Brand

-

Series

-

Voltage

-

Length

CB

—

RGB600

—

24V

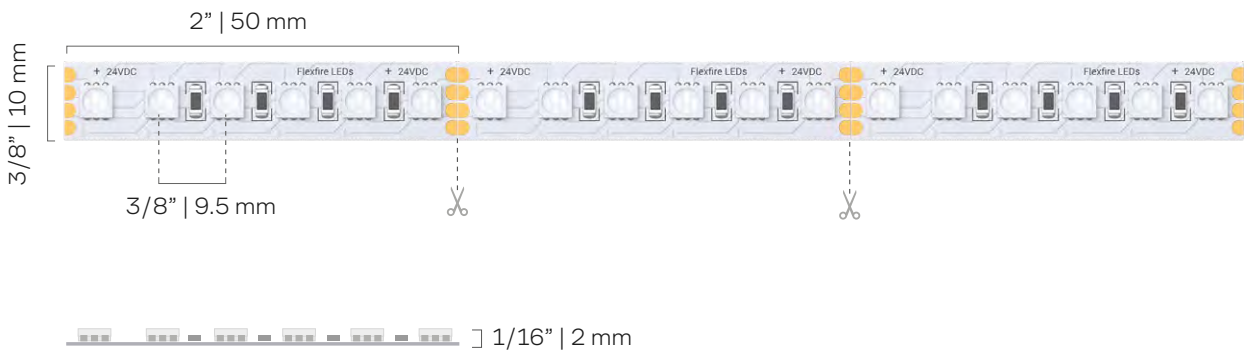
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16FT

ColorBright™

Example: CB-RGB600-24V-16FT

Dimensions



Product Specifications

Product SKU	Color*	Watts/Foot (Meter)	Lumens/Foot (Meter)	Luminous Efficacy (Lumens/Watt)	Color Wavelength
CB-RGB600	RGB	6.1 W/ft (20 W/m)	231 lm/ft (759 lm/m)	38 lm/W	R: 617-627 nm G: 515-525 nm B: 464-474 nm

Complete Your Setup



✓ Drivers



✓ Controllers & Dimmers



✓ Connectors



✓ Extrusions

Compatible Drivers (24V)

Non-dimmable					
Power Supply	Diagram	LED Strip Length	Product SKU	Watts	Class 2
Plug-In Power Supply Plug-and-Play Power Supply		1 - 3 ft	24V-WMPS2-1	24 W	X
		4 - 12 ft	24V-DPS2-4	96 W	X
Mean Well™ HLG Hardwired Power Supply		1 - 8 ft	HLG-60H-24A	60 W	X
		9 - 14 ft	HLG-100H-24A	96 W	X
		15 - 27 ft	HLG-185H-24A	185 W	
		28 - 47 ft	HLG-320H-24A	320 W	
		48 - 88 ft	HLG-600H-24A	600 W	
Mean Well™ LPV Hardwired Power Supply		1 - 8 ft	LPV-60-24	60W	X

Compatible Controllers & Dimmers



Handheld Remotes



DMX Controls



Wall Dimmers



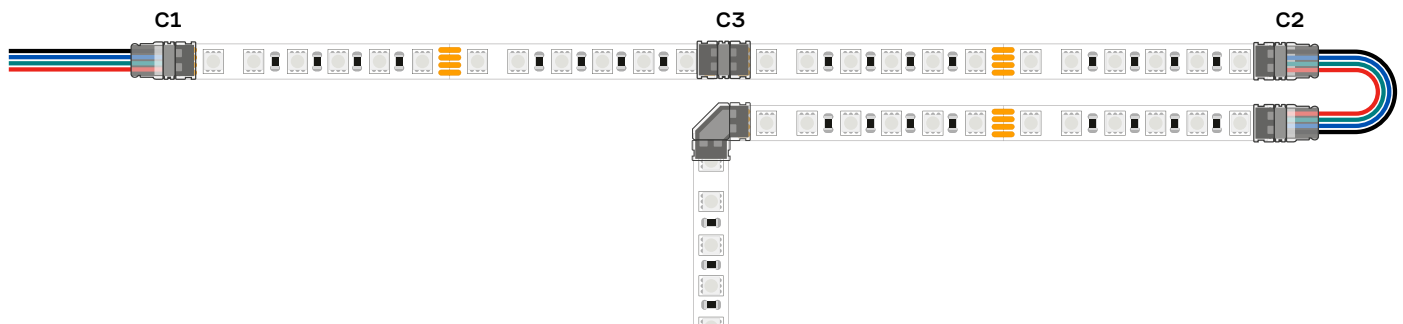
Smart Home Controllers

See Controllers and Dimmers

Compatible Strip Light Connectors

Product SKU	Diagram	Description	Wire Gauge	Amperage Limit*
GRIP-RGB-C1-12-0		Connector with no wire to attach the strip to wire.	-	5 Amps
GRIP-RGB-C1-12-12		Connector with 12" or 36" of wire to attach the strip to a power supply or low voltage control.	20 AWG	
GRIP-RGB-C1-12-36				
GRIP-RGB-C2-12-06		Jumper connector with 6" of wire to attach two sections of strip together. Wire allows to go around tight corners.		
GRIP-RGB-C3-12-0		Jumper connector with no wire to attach sections of strip together in a continuous run.	-	
GRIP-RGB-CNR-10-5		Corner connector for 90 degree turns.		

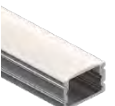
*Make sure no more than 5 amps are drawn after any solderless connector. Calculate max length of LED strip to follow the solderless connector based on an amperage draw of 0.25 A/ft (0.83 A/m) at 24 volts.



Strip Light Connectors Installation

- When installing connectors with the RGB600, you will need additional copper pad to work with. Cut both solder pads so that the piece to be attached to the connector has more surface area to insert into the connector head.
- Peel off 1/4" of the 3M adhesive (both the tape and release paper) 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.
- Check the polarity of the strip to match the positive (+) markings together and negative (-) markings together. If you accidentally close the connector before you're ready, use a small flathead screwdriver to pry the top back open.
- Open the top of the grip connector and insert the LED strip inside. Make sure the LED strip is facing up towards the translucent top and the solder pads are directly above the small hooks on the connector.
- Once everything is in order, use pliers to close and lock the connector. You'll hear a "click" sound when it is properly closed.

Compatible Aluminum Channel Kits

Diagram	Name	Type	Channel Kit Description	Kit SKU	Included	
	Ion™	 Surface Mount	1 Meter Ion Channel	ION-CH-A-1M		
	Gemini™	 Surface Mount	1 Meter Channel + Clear Cover Kit	GEM-CH-A-CVR-C-1M	2 Open End Caps 2 Closed End Caps 4 Mounting Clips	
			2 Meter Channel + Clear Cover Kit	GEM-CH-A-CVR-C-2M		
			1 Meter Channel + Frosted Cover Kit	GEM-CH-A-CVR-F-1M		
			2 Meter Channel + Frosted Cover Kit	GEM-CH-A-CVR-F-2M		
			1 Meter Channel + Matte Cover Kit	GEM-CH-A-CVR-M-1M		
			2 Meter Channel + Matte Cover Kit	GEM-CH-A-CVR-M-2M		
	Kepler™	 Surface Mount	1 Meter Channel + Clear Cover Kit	KEP-CH-A-CVR-C-1M	2 Open End Caps 2 Closed End Caps 4 Mounting Clips	
			1 Meter Channel + Frosted Cover Kit	KEP-CH-A-CVR-F-1M		
			1 Meter Channel + Matte Cover Kit	KEP-CH-A-CVR-M-1M		
			Note: Compatible only without connectors.			
	Laika™	 Surface Mount	1 Meter Channel + Clear Cover Kit	LAI-CH-A-CVR-C-1M	2 Open End Caps 2 Closed End Caps 4 Mounting Clips	
			1 Meter Channel + Frosted Cover Kit	LAI-CH-A-CVR-F-1M		
			2 Meter Channel + Frosted Cover Kit	LAI-CH-A-CVR-F-2M		
			Note: Compatible only without connectors.			
	Titan™	 Surface Mount	1 Meter Channel + Clear Cover Kit	TTN-CH-A-CVR-C-1M	2 Open End Caps 2 Closed End Caps 4 Mounting Clips	
			1 Meter Channel + Frosted Cover Kit	TTN-CH-A-CVR-F-1M		
			2 Meter Channel + Frosted Cover Kit	TTN-CH-A-CVR-F-2M		
			1 Meter Channel + Matte Cover Kit	TTN-CH-A-CVR-M-1M		
			2 Meter Channel + Matte Cover Kit	TTN-CH-A-CVR-M-2M	6 Channel Connectors	
			1 Meter Channel + 10 Meter Frosted Cover Kit	TTN-CH-A-CVR-F-10MR		10 Open End Caps 10 Closed End Caps 20 Mounting Clips 30 Channel Connectors
			1 Meter Channel + 10 Meter Matte Cover Kit	TTN-CH-A-CVR-M-10MR		
			1 Pendant Kit	TTN-PND-KIT		
	Atlas™	 Angled Surface Mount	1 Meter Channel + Clear Cover Kit	ATL-CH-A-CVR-C-1M	2 Open End Caps 2 Closed End Caps 4 Mounting Clips	
			1 Meter Channel + Frosted Cover Kit	ATL-CH-A-CVR-F-1M		
			2 Meter Channel + Frosted Cover Kit	ATL-CH-A-CVR-F-2M		
			1 Meter Channel + Matte Cover Kit	ATL-CH-A-CVR-M-1M		
			2 Meter Channel + Matte Cover Kit	ATL-CH-A-CVR-M-2M		

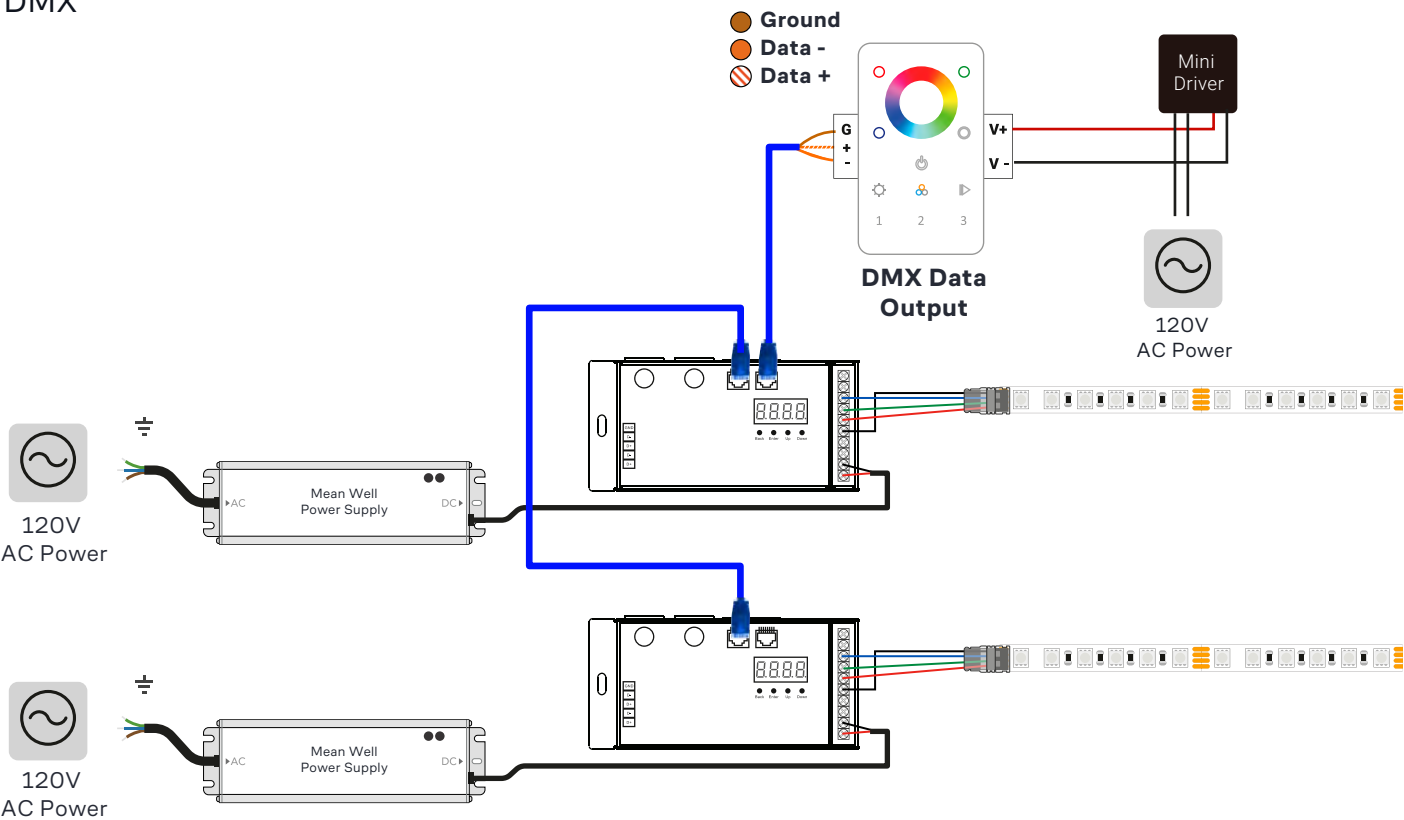
Note: The ColorBright™ RGB 600 Series is not compatible with recessed applications due to heat limitations.

Wiring Diagrams

In-Line Dimming



DMX



Safety And Disclosures

- 01.** Installation must comply with local and national electrical codes. A qualified, licensed electrician should install your strips for safety and proper installation.
- 02.** To meet UL requirements, only install with a Class 2 DC Constant Voltage LED driver.
- 03.** Do not install in an environment where excessive heat may exist.
- 04.** LED strip lights must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
- 05.** Do not secure this product with any kind of staples, nails, or materials that could potentially damage the product in any way. Keep these instructions for future reference.
- 06.** Do not cover this product with any kind of combustible material such as paper, fabrics, etc.
- 07.** Do not install with the majority of the product being unsupported. Allowing the product to be suspended or dangling while installing may cause damage to the PCB due to the weight of the strip.
- 08.** 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.
- 09.** Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
- 10.** Make sure the appropriate gauge wire is installed between the 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 the wires and cause a fire.
- 11.** Do not modify the product beyond the instructions, or the warranty will be void.
- 12.** 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, we cannot guarantee that existing installed fixtures will match subsequent orders or replacements regarding product appearance, CCT, or lumen output due to changes in technology and phosphors over time.

Warranty Information

Limited Warranty

This product has a 7 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 the product support team at 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.



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