

ColorBright™ RGB + Tunable White LED Strip Light

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

Our ColorBright™ RGB + Tunable White combines precise warm-to-cool white customization with endless other hues, all while keeping colors in your space accurate. Pair it with a control system for full flexibility—quick function changes, full-range dimming, medium brightness, and human-centric design let you switch between inviting or sharp-focused white accents and fun, vibrant moods in any shade.



7 Year
Warranty



Product Features

Color Temperature Range	2400K - 6500K
Voltage	24V DC
Wattage	5.5 W/ft (18 W/m)
Brightness	Up to 260 lm/ft (853 lm/m)
Efficacy	Up to 76 lm/W
CRI	High CRI up to 95 (For White)
Number of LEDs	18 LEDs/ft (60 LEDs/m)
Beam Angle	120°
LED Pitch	3/4" (17 mm)
Strip Width	1/2" (12 mm)
Cutting Points	4" (101 mm)
Max Run Length in Series*	16 ft (5 m)
PCB	3 oz Copper
LED Size	5050
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

* The maximum run length in series if all channels are being used is 16 ft (5 m). However, if only using up to three channels on the strip, the maximum run length in series is 23 ft (7 m).

Ordering Code

Brand

-

Series

-

CCT

-

Voltage

-

Length

CB

RGBDYN

2465K

24V

ColorBright™

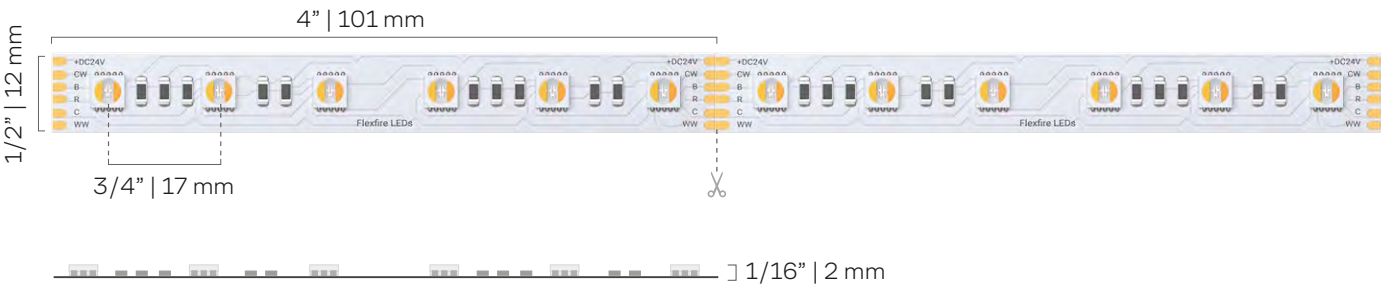
RGB + Tunable White

2400K - 6500K

16FT
98FT

Example: CB-RGBDYN-2465K-24V-16FT

Dimensions



Product Specifications

Product SKU	Color* (CCT)	Watts/Foot (Meter)	Lumens/Foot (Meter)	Luminous Efficacy (Lumens/Watt)	CRI	Gamut Score (Rg)	Relative Fidelity Score (Rf)
CB-RGBDYN-2465K	All channels	5.5 W/ft (18 W/m)	260 lm/ft (853 lm/m)	49 lm/W	64	109	75
	2400K	1.1 W/ft (3.6 W/m)	113 lm/ft (371 lm/m)	68 lm/W	94	100	93
	6500K	1.1 W/ft (3.6 W/m)	109 lm/ft (357 lm/m)	77 lm/W	95	97	89

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 - 13 ft	24V-DPS2-4	96 W	X
Mean Well™ HLG Hardwired Power Supply		1 - 9 ft	HLG-60H-24A	60 W	X
		10 - 15 ft	HLG-100H-24A	96 W	X
		16 - 30 ft	HLG-185H-24A	185 W	
		31 - 52 ft	HLG-320H-24A	320 W	
		53 - 98 ft	HLG-600H-24A	600 W	
Mean Well™ LPV Hardwired Power Supply		1 - 9 ft	LPV-60-24	60W	X

Compatible Controllers & Dimmers



Handheld Remotes



DMX Controls



Wall Dimmers



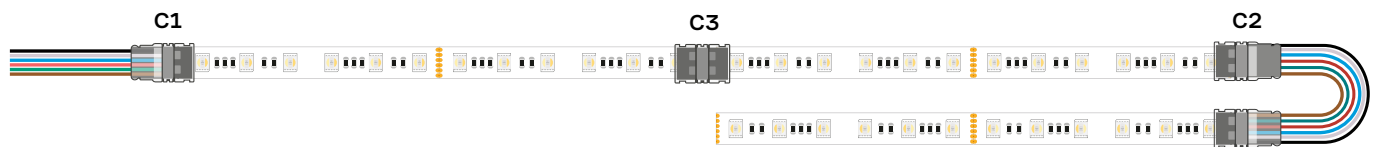
Smart Home Controllers

See Controllers and Dimmers

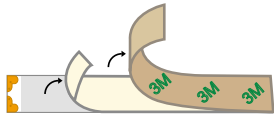
Compatible Strip Light Connectors

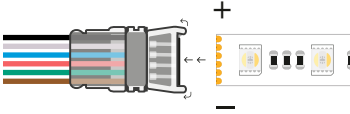
Product SKU	Diagram	Description	Wire Gauge	Amperage Limit*
GRIP-RGBDYN-C1-12-12-5 GRIP-RGBDYN-C1-12-36-5		Connector with 12" or 36" of wire to attach the strip to power.	20 AWG	5 Amps
GRIP-RGBW-C2-12-06		Jumper connector with 6" of wire to attach two sections of strip together. Wire allows to go around tight corners.		
GRIP-RGBW-C3-12-0		Jumper connector with no wire to attach sections of strip together in a continuous run.		

*Make sure no more than 5 amps are drawn after any solderless connector. Calculate max length of strip light to follow the solderless connector based on an amperage draw of 0.23 A/ft (0.75 A/m) at 24 volts.

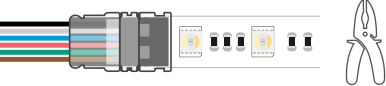


Strip Light Connectors Installation

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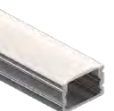
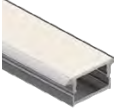
Peel off 1/4" of the 3M adhesive (both the tape and release paper) from the end of the strip that you want to connect. It must be removed to allow it to fit properly with the solderless connector.
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Check the polarity of the strip to match the positive (+) 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.
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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.
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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

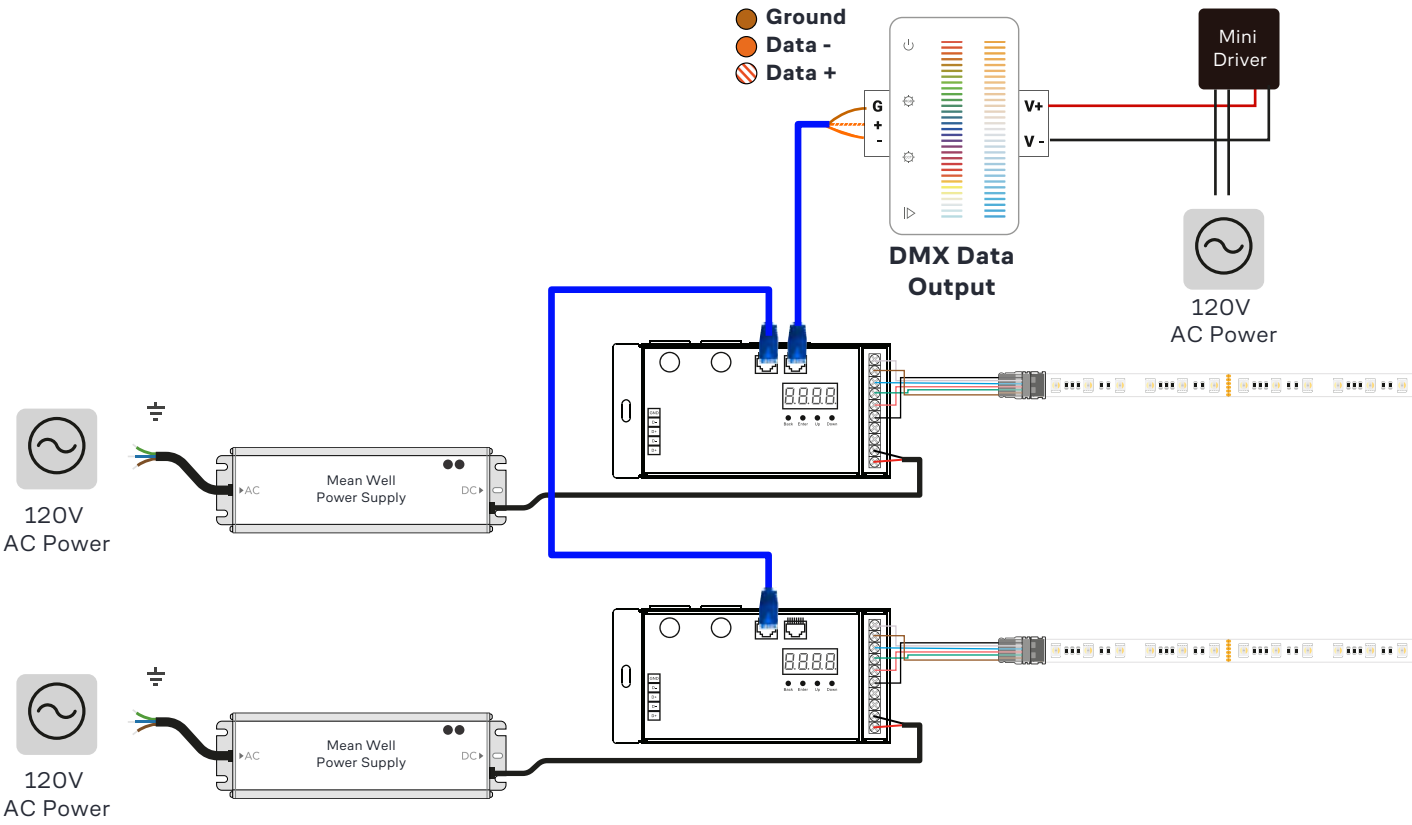
Diagram	Name	Type	Channel Kit Description		Kit SKU	Included
	Ion™	 Surface Mount	1 Meter Ion Channel		ION-CH-A-1M	
	Gemini™	 Surface Mount	1 Meter Channel + Clear Cover Kit		GEM-CH-A-CVR-C-1M	2 Open End Caps 2 Closed End Caps 4 Mounting Clips
			2 Meter Channel + Clear Cover Kit		GEM-CH-A-CVR-C-2M	
			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	
			Note: Compatible only without connectors.			
	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 6 Channel Connectors
			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	10 Open End Caps 10 Closed End Caps 20 Mounting Clips 30 Channel Connectors
			1 Meter Channel + 10 Meter Frosted Cover Kit		TTN-CH-A-CVR-F-10MR	
			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: Compatible only without connectors.			
	Calypso™	 Recessed	1 Meter Channel + Frosted Cover Kit		CAL-CH-A-CVR-F-1M	2 Open End Caps 2 Closed End Caps 4 Mounting Clips
			2 Meter Channel + Frosted Cover Kit		CAL-CH-A-CVR-F-2M	
			1 Meter Channel + Matte Cover Kit		CAL-CH-A-CVR-M-1M	
			2 Meter Channel + Matte Cover Kit		CAL-CH-A-CVR-M-2M	
			1 Meter Channel + 10 Meter Frosted Cover Kit		CAL-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		CAL-CH-A-CVR-M-10MR	
	Cassini™	 Recessed	1 Meter Channel + Clear Cover Kit		CAS-CH-A-CVR-C-1M	2 Open End Caps 2 Closed End Caps 4 Mounting Clips
			1 Meter Channel + Frosted Cover Kit		CAS-CH-A-CVR-F-1M	
			2 Meter Channel + Frosted Cover Kit		CAS-CH-A-CVR-F-2M	
			1 Meter Channel + Matte Cover Kit		CAS-CH-A-CVR-M-1M	
			2 Meter Channel + Matte Cover Kit		CAS-CH-A-CVR-M-2M	
			Note: Compatible only without connectors.			

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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