




FLEXFIRELEDs

ColorBright™

# RGBW Quad Chip LED Strip Light

Product Data Sheet



 Please read all instructions carefully before installation.

## Description

The ColorBright™ RGBW Quad Chip LED strip light is an ingenious product that has combined two powerful strips into one. Now featuring a 4-in-1 LED chip that produces both RGB color changing and warm white lighting. You no longer have to choose between one type of lighting or the other, we have combined them both into one LED chip to offer you the best of both worlds while offering a more diffused appearance with its compact chip packaging. This product is perfect for those who love to control every aspect of their lives, starting with their lights. Choose any color you can imagine, including a beautiful warm white.

7-Year  
Warranty



## Product Features

CCT	3000K
CRI	High CRI of 90+ (For White)
Voltage	24V DC Input
Lumens	Up to 293 lm/ft (961 lm/m)
Efficacy	Up to 52 lm/W
LEDs/ft	24 LEDs/ft (72/m)
Beam Angle	120° Beam Angle
Ambient Temperature	-4°F - 113°F (-20°C - 45°C)
LED Pitch	5/16" (8.5 mm)
Strip Width	1/2" (12 mm)
Cutting Points	3" (80 mm)
PCB	4 oz copper
Max Run Length in Series	32 ft (10 m)
LED Size	5050
Adhesive Type	3M VHB 4930 Tape (IP20)
Dimmable	Yes
Spool Size	16.4 ft (5 m), 98.4 ft (30 m)

## Product Specifications

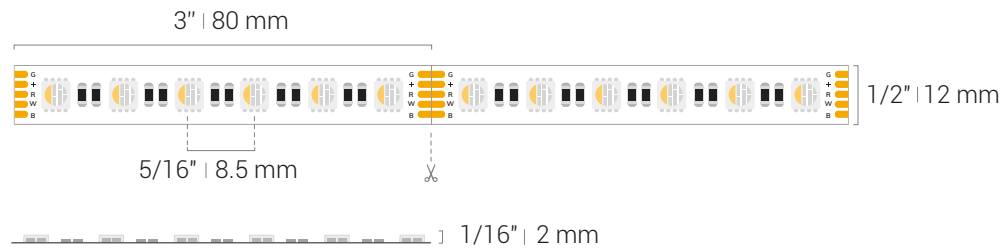
Product SKU	Color CCT*	Watts / Foot (Meter)	Lumens / Foot (Meter)	Luminous Efficacy (Lumens/Watt)	CRI	Gamut Score (Rg)	Relative Fidelity Score (Rf)	TLCI
CB-RGBW	3000K	1.4 W/ft (4.6 W/m)	121 lm/ft (397 lm/m)	79 lm/W	93	100	92	93
	All channels	5.8 W/ft (19 W/m)	293 lm/ft (961 lm/m)	52 lm/W	56	107	69	44

\*CCT may be +/-100K but always ordered from same bin and will present no noticeable differences perceived by the human eye.

## Ordering Code

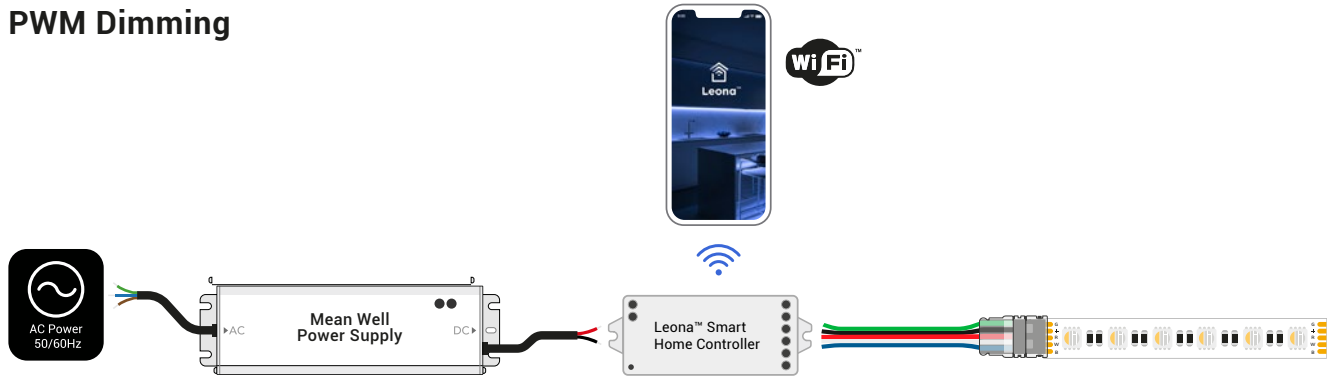
Brand	Series	Voltage	Length
<b>CB</b> ColorBright	<b>RGBW</b> RGB + 3000K	<b>24V</b>	<b>16FT</b> - 16.4 ft Reel <b>98FT</b> - 98.4 ft Reel

## Dimensions

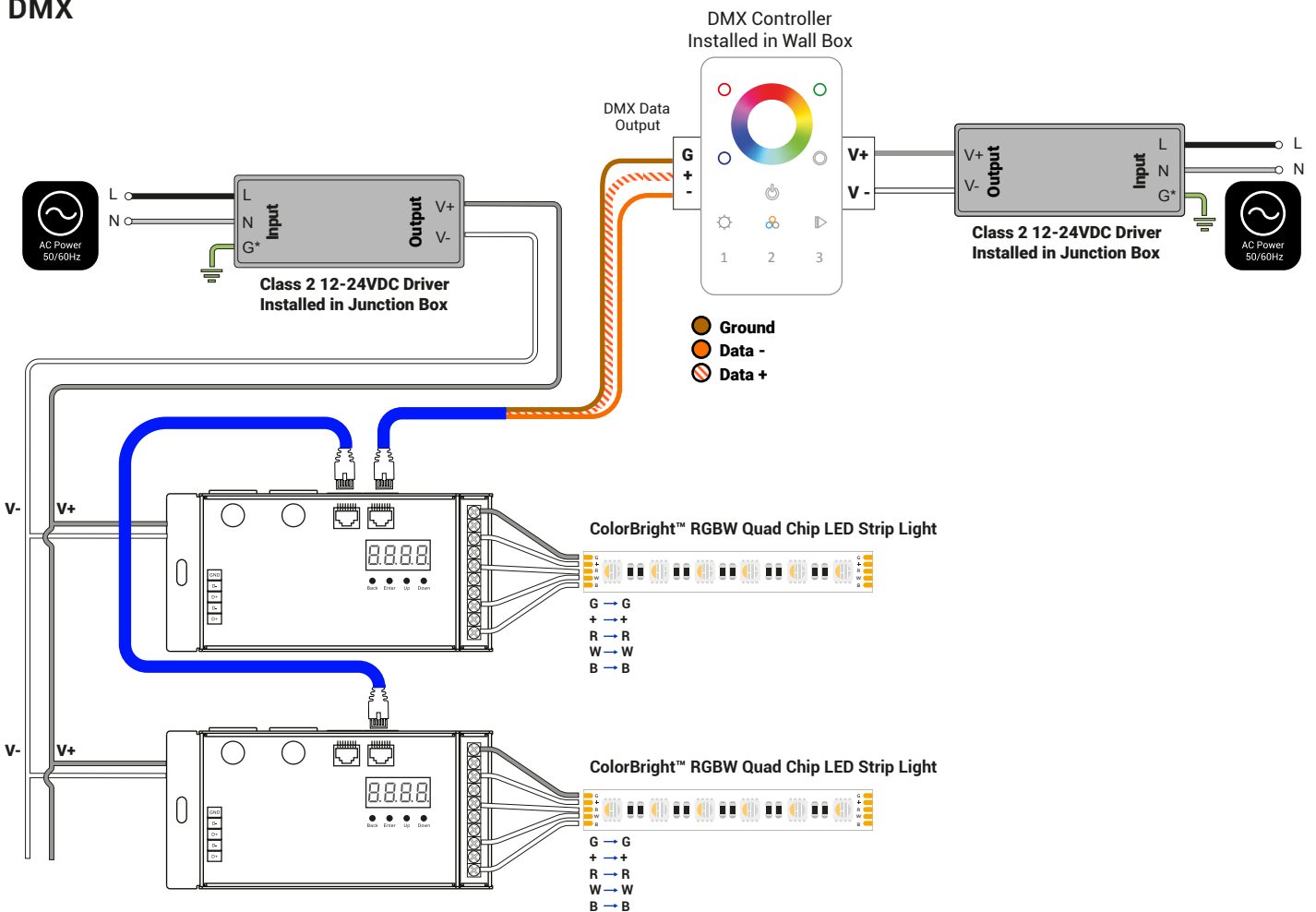


## Dimming Options

### PWM Dimming

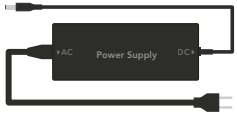




### DMX










## Compatible Drivers (24V)

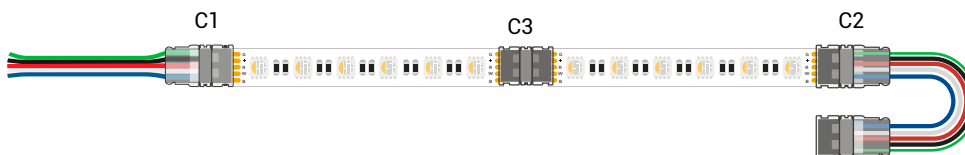
Power Supply	LED Strip Length	Watts	Product SKU	Class 2	Diagram
Plug-In Power Supply	1 - 3	24 W	24V-WMPS2-1	X	
	4 - 8	60 W	24V-DPS2-2.5	X	
	9 - 13	96 W	24V-DPS2-4	X	
	14 - 16	120 W	24V-DPS2-5	X	
Mean Well™ HLG	1 - 9	60 W	HLG-60H-24A	X	
	10 - 15	96 W	HLG-100H-24A	X	
	16 - 28	185 W	HLG-185H-24A	X	
	29 - 49	320 W	HLG-320H-24A	X	
	50 - 93	600 W	HLG-600H-24A	X	
Mean Well™ LPV	1 - 8	60 W	LPV-60-24	X	

## Compatible Strip Light Connectors

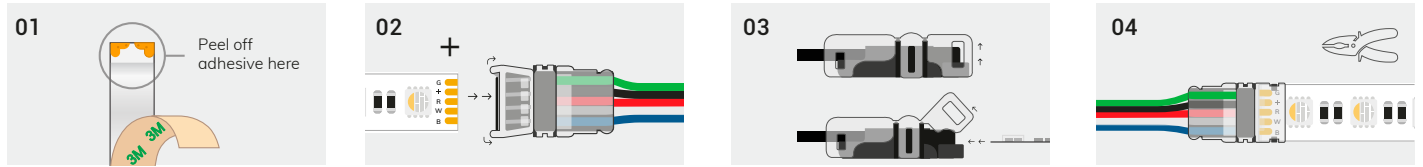
SKU	Description	Wire Gauge	Amperage Limit**	Diagram
GRIP-RGBW-C1-12-0*	Grip RGBW Connector with No Wire	-	5 Amps	
GRIP-RGBW-C1-12-12*	Grip RGBW Connector with 12" Bare Wire	20 AWG		
GRIP-RGBW-C1-12-36*	Grip RGBW Connector with 36" Bare Wire			
GRIP-RGBW-C2-12-06*	Grip RGBW Jumper Connector with 6" of Wire			
GRIP-RGBW-C3-12-0*	Grip RGBW Jumper Connector with No Wire	-		

\* Calculate max length of LED strip to follow the solderless connector based on an amperage draw of 0.24 A/ft (0.79 A/m) at 24 volts

\*\* Be sure no more than 5 amps is drawn after any solderless connector



## Strip Light Connectors Installation



01. 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.

02. Double 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, you can use a small flathead screwdriver to pry the top back open.





03. 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.

04. Once everything is in order, use pliers to close and lock the connector. You may hear a "click" sound when it's properly closed.


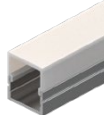


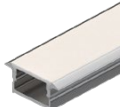

**NOTE:**

Soldering is the preferred method. If you need further assistance, please download our Solderless Connector Installation

## Compatible Aluminum Extrusions

Name	Type	Included Accessories	Covers	Kit SKU	Mockup
<b>Ion™</b>	Surface Mount	-	-	ION-CH-A-1M	
<b>Atlas™</b>	Surface Mount	2 Open End Caps	Clear Cover	ATL-CH-A-CVR-C-1M	
		2 Closed End Caps	Frosted Cover	ATL-CH-A-CVR-F-1M	
		4 Metal Mounting Clips	Matte Cover	ATL-CH-A-CVR-M-1M	
<b>Note:</b> This extrusion only fits the ColorBright™ RGBW Quad Chip LED strip without connectors.					
<b>Gemini™</b>	Surface Mount	2 Open End Caps	Clear Cover	GEM-CH-A-CVR-C-1M	
		2 Closed End Caps	Frosted Cover	GEM-CH-A-CVR-F-1M	
		4 Metal Mounting Clips	Matte Cover	GEM-CH-A-CVR-M-1M	
<b>Note:</b> This extrusion only fits the ColorBright™ RGBW Quad Chip LED strip without connectors.					
<b>Kepler™</b>	Surface Mount	2 Open End Caps	Clear Cover	KEP-CH-A-CVR-C-1M	
		2 Closed End Caps	Frosted Cover	KEP-CH-A-CVR-F-1M	
		4 Metal Mounting Clips	Matte Cover	KEP-CH-A-CVR-M-1M	
<b>Note:</b> This extrusion only fits the ColorBright™ RGBW Quad Chip LED strip without connectors.					

## Compatible Aluminum Extrusions

Name	Type	Included Accessories	Covers	Kit SKU	Mockup
<b>Laika™</b>	Surface Mount	2 Open End Caps	Clear Cover	LAI-CH-A-CVR-C-1M	
		2 Closed End Caps	Frosted Cover	LAI-CH-A-CVR-F-1M	
		4 Metal Mounting Clips	Matte Cover		
<b>Note:</b> This extrusion only fits the ColorBright™ RGBW Quad Chip LED strip without connectors.					
<b>Nova™</b>	Surface Mount	2 Open End Caps	Clear Round Cover	NOV-CH-A-CVR-C-RD-1M	
		2 Closed End Caps	Clear Square	NOV-CH-A-CVR-C-SQ-1M	
		4 Metal Mounting Clips	Matte Round Cover	NOV-CH-A-CVR-M-RD-1M	
			Matte Square Cover	NOV-CH-A-CVR-M-SQ-1M	
<b>Note:</b> This extrusion only fits the ColorBright™ RGBW Quad Chip LED strip without connectors.					
<b>Titan™</b>	Surface Mount	2 Open End Caps	Clear Cover	TTN-CH-A-CVR-C-1M	
		2 Closed End Caps	Frosted Cover	TTN-CH-A-CVR-F-1M	
		4 Metal Mounting Clips	Matte Cover	TTN-CH-A-CVR-M-1M	
		6 Channel Connectors			
<b>Calypso™</b>	Recessed	2 Open End Caps	Clear Cover	CAL-CH-A-CVR-F-1M	
		2 Closed End Caps	Frosted Cover	CAL-CH-A-CVR-M-1M	
		4 Metal Mounting Clips	Matte Cover		
<b>Cassini™</b>	Recessed	2 Open End Caps	Clear Cover	CAS-CH-A-CVR-C-1M	
		2 Closed End Caps	Frosted Cover	CAS-CH-A-CVR-F-1M	
		4 Metal Mounting Clips	Matte Cover	CAS-CH-A-CVR-M-1M	
		<b>Note:</b> This extrusion only fits the ColorBright™ RGBW Quad Chip LED strip without connectors.			
<b>Phoenix™</b>	Recessed	2 Open End Caps	Frosted Cover	PHO-CH-A-CVR-F-1M	
		2 Closed End Caps	Matte Cover	PHO-CH-A-CVR-M-1M	
		6 Channel Connectors			



## 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 the 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 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](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.



## Contact Information



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**FLEXFIRELEDs**

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