



FLEXFIRELEDs

Outdoor IP65 ColorBright™
**RGBW Quad Chip
LED Strip Light**

Product Data Sheet



Please read all instructions carefully before installation.

Description

The Outdoor (IP65) 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, this strip was designed to offer you the best of both worlds while offering a more diffused appearance with its compact chip packaging. The IP65 rated silicone coating protects the strip from water and the elements. It cannot be submerged in water but it can withstand low-pressure jets and splashes of water from all sides. Choose any color you can imagine, including a beautiful warm white. This product is versatile enough to be installed in any residential or commercial project.

This LED strip light is perfect for projects that require the flexibility of multiple types of light, such as bars, restaurants, clubs and casinos, as well as places that benefit from creative lighting solutions such as schools, hospitals, churches, and more. In addition to outdoor areas, it is recommended for indoor spaces subject to humidity, moisture, or splashes, or if you are simply looking for a strip that is easier to clean.

7-Year
Warranty



Product Features

CCT	3000K
CRI	High CRI of 90+ (For White)
Voltage	24V DC Input
Brightness	Up to 293 lm/ft (961 lm/m)
Efficacy	Up to 52 lm/W
LEDs/ft	24 LEDs/ft (72/meter)
Beam Angle	120° Beam Angle
Ambient Temperature	-4°F - 113°F (-20°C - 45°C)
LED Pitch	5/16" (8.5 mm)
Strip Width	5/8" (14 mm)
Cutting Points	3" (80 mm)
PCB	4 oz copper
Max Run Length in Series	32 ft (10 m) all channels on
LED Size	5050
Adhesive Type	3M 9495 Tape (IP65)
Dimmable	Yes
Spool Size	16.4 ft (5 m)



Product Specifications

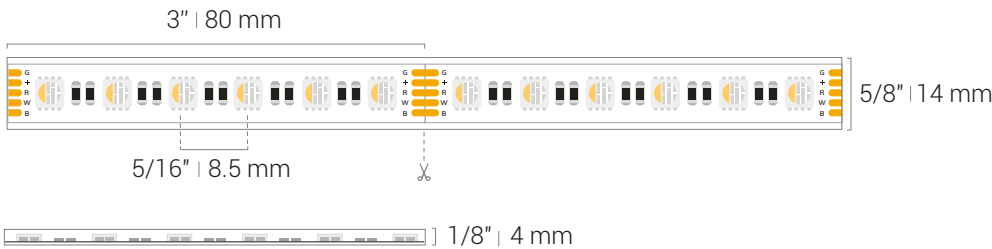
Product SKU	Color CCT*	Watts / Foot (Meter)	Lumens / Foot (Meter)	Luminous Efficacy (Lumens/Watt)	CRI	Gamut Score (Rg)	Relative Fidelity Score (Rf)	TLCI
IP65-CB-RGBW	3000K	1.4 W/ft (4.6 W/m)	121 lm/ft (397 lm/m)	79 lm/W	93	100	92	93
	All channels	5.8 W/ft (19 W/m)	293 lm/ft (961 lm/m)	52 lm/W	56	107	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

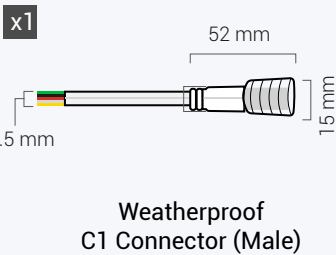
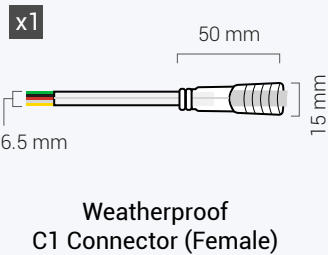
IP Protection	Brand	Series	Voltage	Length
IP65	CB	RGBW	24V	16FT
Wet Location	ColorBright	RGB + 3000K		

Dimensions



Included Accessories

Wire Color Pinout	Strip
Green Wire	Green (G)
Black Wire	Positive (+)
Red Wire	Red (R)
White Wire	White (W)
Yellow Wire	Blue (B)

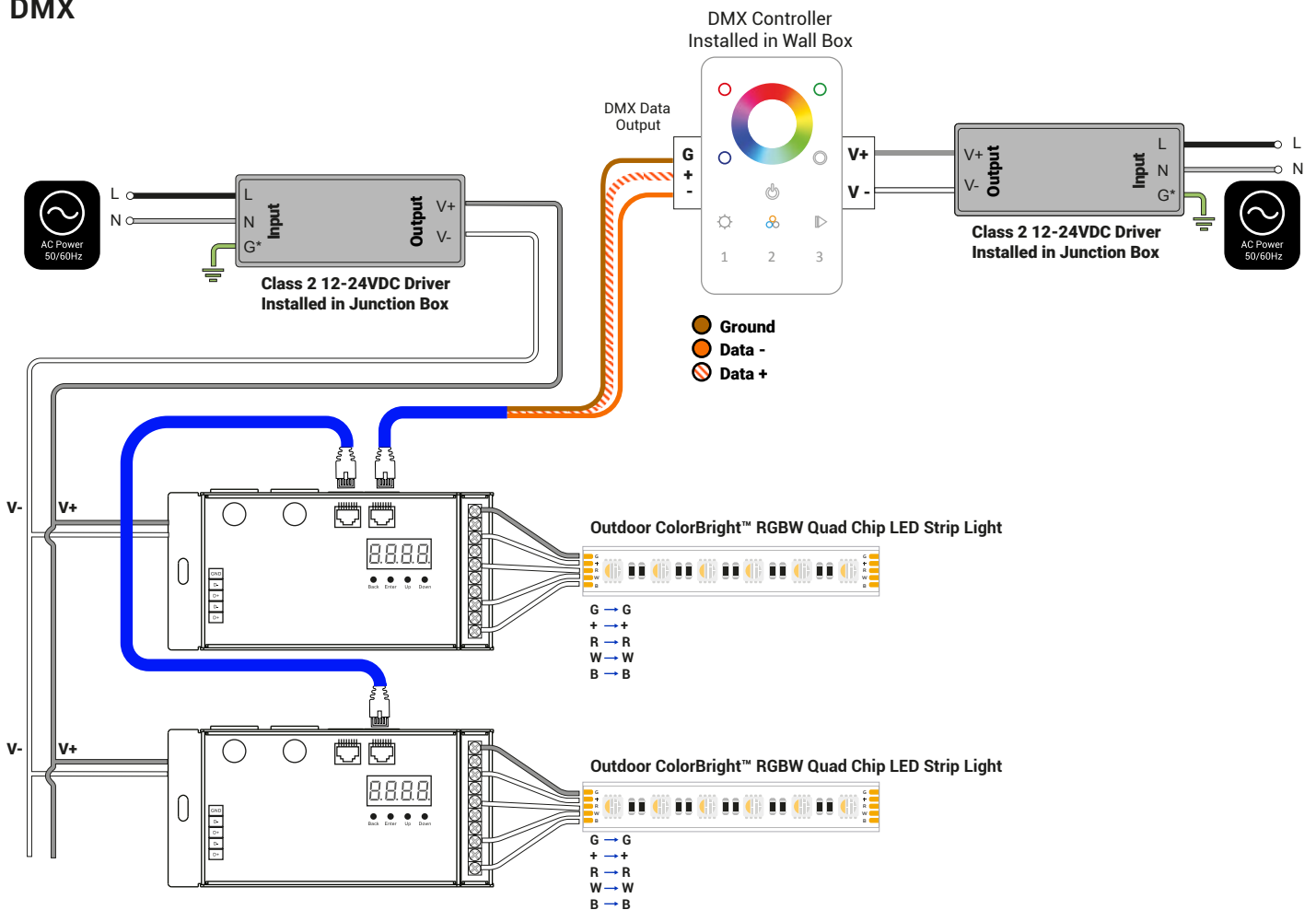


Dimming Options

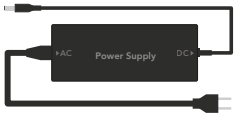
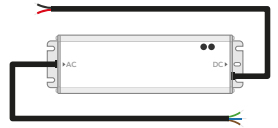
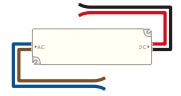
PWM Dimming



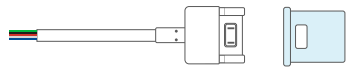

DMX



Compatible Drivers (24V)

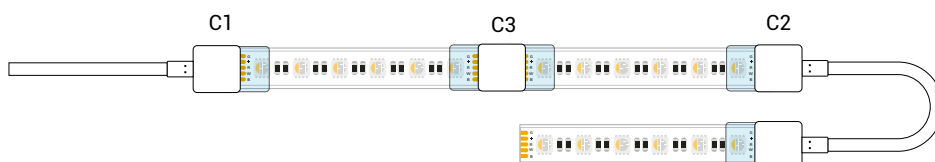
Power Supply	LED Strip Length	Watts	Product SKU	Class 2	Diagram
Plug-In Power Supply	1 - 3	24 W	24V-WMPS2-1	X	
	4 - 8	60 W	24V-DPS2-2.5	X	
	9 - 13	96 W	24V-DPS2-4	X	
	14 - 16	120 W	24V-DPS2-5	X	
Mean Well™ HLG	1 - 9	60 W	HLG-60H-24A	X	
	10 - 15	96 W	HLG-100H-24A	X	
	16 - 28	185 W	HLG-185H-24A	X	
	29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

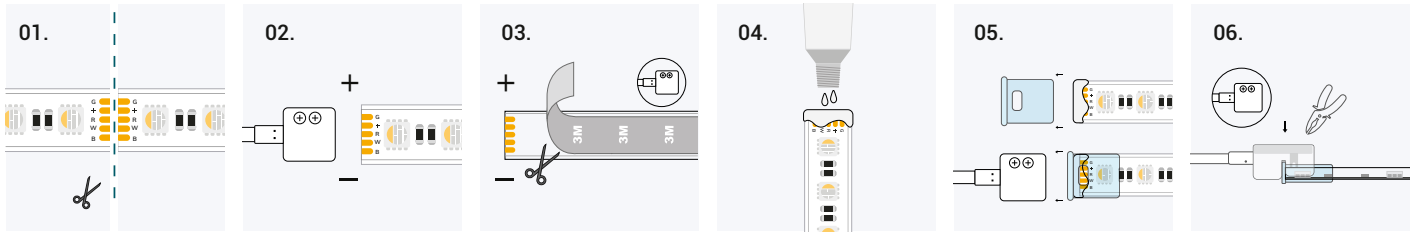
SKU	Description	Wire Gauge	Amperage** Limit	Diagram
IP65-GRIP-RGBW-C1-10-40*	Outdoor IP65 Grip RGBW Connector with 40" Bare Wire	22 AWG	5 Amps	
IP65-GRIP-RGBW-C2-10-08*	Outdoor IP65 Grip RGBW Jumper Connector with 8" Bare Wire			
IP65-GRIP-RGBW-C3-10-0*	Outdoor IP65 Grip RGBW Jumper Connector with No 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



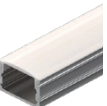



Strip Light Connectors Installation


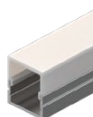


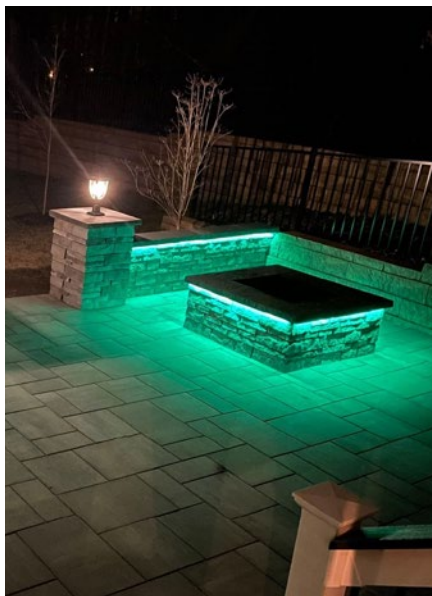
1. Cut the LED strip light and the silicone sleeve on the cutting point you want to install the connector.
2. Check the polarity.
3. Remove 2" of the adhesive tape and its backer from the back of the LED Strip light.
4. Apply Silicone sealant liberally inside of the silicone sleeve until ensuring it is completely sealed.
5. Slide the transparent case of your Outdoor IP65 Grip connector into the sleeve, until making sure that the strip is making proper contact.
6. Grab the white plastic part of your connector and push the metal contacts through the window of the transparent case. Adjust it with pliers until you hear a click, and then let the sealant cure according to its own instructions.

Compatible Aluminum Extrusions

Name	Type	Included Accessories	Covers	Kit SKU	Mockup
Ion™	Surface Mount	-	-	ION-CH-A-1M	
Atlas™	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	
		Note: This extrusion only fits the ColorBright™ RGBW Quad Chip LED strip without connectors.			
Gemini™	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	
		Note: This extrusion only fits the ColorBright™ RGBW Quad Chip LED strip without connectors.			
Kepler™	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	
		Note: This extrusion only fits the ColorBright™ RGBW Quad Chip LED strip without connectors.			

Compatible Aluminum Extrusions

Name	Type	Included Accessories	Covers	Kit SKU	Mockup
Laika™	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		
Note: This extrusion only fits the ColorBright™ RGBW Quad Chip LED strip without connectors.					
Nova™	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	
Note: This extrusion only fits the ColorBright™ RGBW Quad Chip LED strip without connectors.					
Titan™	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			
Calypso™	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		
Cassini™	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	
		Note: This extrusion only fits the ColorBright™ RGBW Quad Chip LED strip without connectors.			
Phoenix™	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. Do not install within 5' of a pool, spa, or fountain per National Electrical Code.
6. LED strip lights must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
7. 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.
8. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
9. 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.
10. Do not modify the product beyond instructions or warranty will be void.
11. 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).

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



Toll Free Number:
1-844-353-9347



Local Number:
(925) 273-9080



info@flexfireleds.com



FLEXFIRELEDs

www.flexfireleds.com