FLEXFIRELEDs

ColorBright™
**RGB + Dynamic Tunable White
LED Strip Light**

Product Data Sheet

Description

Our ColorBright™ RGB + Dynamic Tunable White LED Strip Light really is an LED strip light for all occasions. Combining two strips in one, it allows for the creation of countless colors and multiple shades of white light in a smooth and vibrant line of light, thanks to its 5-in-1 5050 LED chips, which total 18 chips per foot.

This product is for those who love to control every aspect of their lives, starting with their lights. Perfect for spaces 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.

7 Year
Warranty

C€

RoHS
COMPLIANT

c (UL) US
LISTED
(LOW VOLTAGE LUMINAIRE)
E362522

Product Features

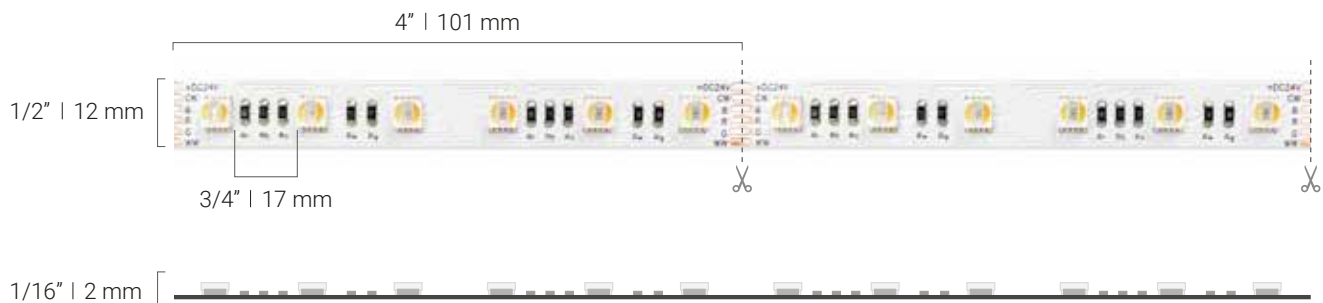|	
CCT	2400K-6500K
CRI	High CRI of 90+ (For White Section)
Voltage	24V DC Input
Lumens	Up to 266 lm/ft (872 lm/m)
Efficacy	Up to 76 lm/W
LEDs/ft	18 LEDs/ft (60/meter)
Beam Angle	120° Beam Angle
Ambient Temp	-4°F to +104°F (-20°C to 40°C)
LED Pitch	3/4" (17 mm)
Strip Width	1/2" (12 mm)
Cutting Points	Every 4" (101 mm)
PCB	3 oz copper
Max Run Length in Series	23 ft (7 m) using 3 channels
	16.4ft (5 m) all channels on
LED Size	5050
Adhesive Type	3M VHB 4930 Tape (IP20)
Dimmable	Yes
Spool Size	16.4 ft (5 m)

Product Specifications

Product SKU	Color* CCT	Watts/ft (Meter)	Lumen/ft (Meter)	Luminous Efficacy (Lumens/Watt)	CRI	Gamut Score (Rg)	Relative Fidelity Score (Rf)	TLCI (Qa)	CQS
CB-RGBDYN-2465K-24V-16FT	All channels on	5.5 W/ft (18 W/m)	260 lm/ft (853 lm/m)	48.82	64	109	75	56	82
	2400K	1.1 W/ft (3.6 W/m)	113 lm/ft (371 lm/m)	67.78	94	100	93	92	94
	6500K	1.1 W/ft (3.6 W/m)	109 lm/ft (357 lm/m)	76.87	95	97	89	94	91

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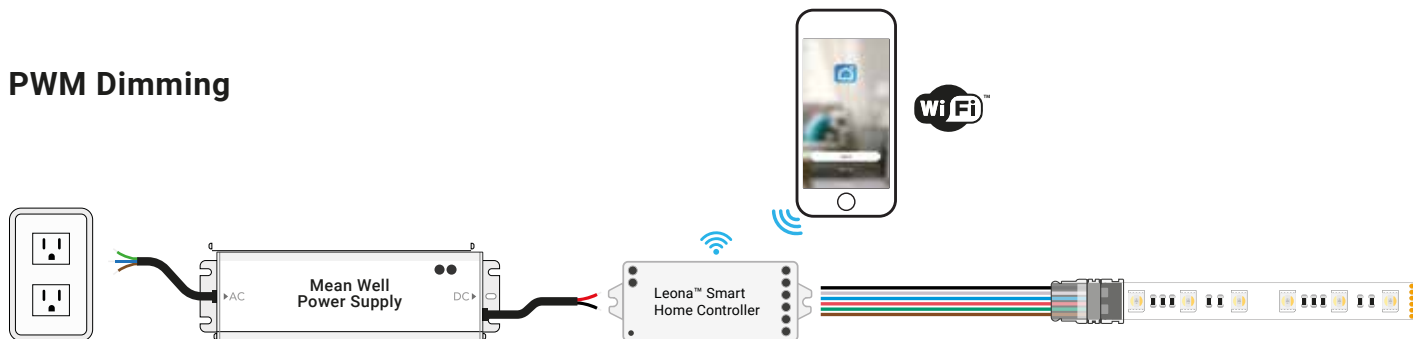
Ordering Code

Brand	Series	CCT	Voltage	Length
CB ColorBright	**RGBDYN** RGB + DYN Series	**2465K** 2400K - 6500K	**24V**	**16FT** 16ft Reel

Dimensions

4" | 101 mm

1/2" | 12 mm

3/4" | 17 mm

1/16" | 2 mm

Dimming Options

PWM Dimming

Mean Well Power Supply

AC   DC

Leona™ Smart Home Controller

Wi Fi™

DMX

DMX Data Output

G
+
–

DMX Controller Installed in Wall Box

Ground
Data –
Data +

V+
V –

V+   Output   V–

Input   L N G*

L
N

Class 2 12-24VDC Driver Installed in Junction Box

AC Power 50/60Hz

L
N

AC Power 50/60Hz

L N G*   Input   Output   V+ V–

Class 2 12-24VDC Driver Installed in Junction Box

V-   V+

V+ → V+
CH1 → CW
CH2 → B

CH3 → R
CH4 → G
CH5 → WW

ColorBright™ RGB + Dynamic Tunable White LED Strip Light

Back   Enter   Up   Down

V-   V+

V+ → V+
CH1 → CW
CH2 → B

CH3 → R
CH4 → G
CH5 → WW

ColorBright™ RGB + Dynamic Tunable White LED Strip Light

Back   Enter   Up   Down

Compatible Drivers

Power Supply	LED Strip Length	Watts	Product SKU	Diagram
Plug-In Power Supply	1 - 3 ft	24 W	24V-WMPS-1	
	4 - 8 ft	60 W	24V-DPS-2.5	
	9 - 13 ft	96 W	24V-DPS-4	
	14 - 17 ft	120 W	24V-DPS-5	
Mean Well™ HLG	1 - 6 ft	40 W	HLG-40H-24A	
	7 - 9 ft	60 W	HLG-60H-24A	
	10 - 16 ft	96 W	HLG-100H-24A	
	17 - 19 ft	120 W	HLG-120H-24A	
	20 - 30 ft	185 W	HLG-185H-24A	
	31 - 39 ft	240 W	HLG-240H-24A	
	40 - 52 ft	320 W	HLG-320H-24A	
	53 - 98 ft	600 W	HLG-600H-24A	
Mean Well™ LPV	1 - 3 ft	20 W	LPV-20-24	
	4 - 5 ft	36 W	LPV-35-24	
	6 - 9 ft	60 W	LPV-60-24	

Strip Light Connectors

SKU	Description	Wire Gauge	Amperage** Limit	Diagram
GRIP-RGBDYN-C1-12-0-5*	Attaches LED strip directly to a Power Supply/Driver, low voltage control or DC source.	–	5 Amps	
GRIP-RGBDYN-C1-12-12-5* GRIP-RGBDYN-C1-12-36-5*	Attaches LED strip directly to a Power Supply/Driver, low voltage control or DC source.	20 AWG		
GRIP-RGBDYN-C2-12-06-5*	Attaches two sections of LED strip together. Wire lead allow for turns around tight corners.			
GRIP-RGBDYN-C3-12-0-5*	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 0.229 A/ft (0.75 A/m) at 24 volts.

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

Strip Light Connectors

01
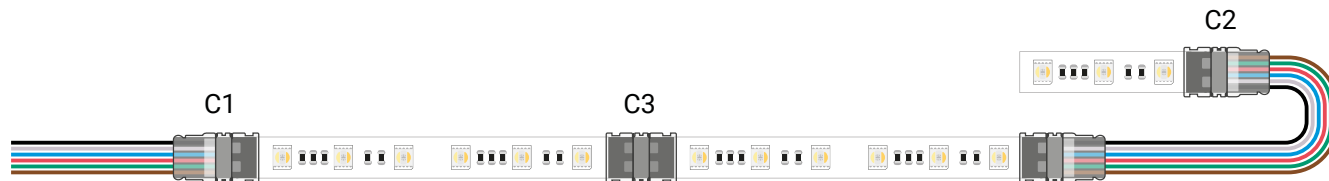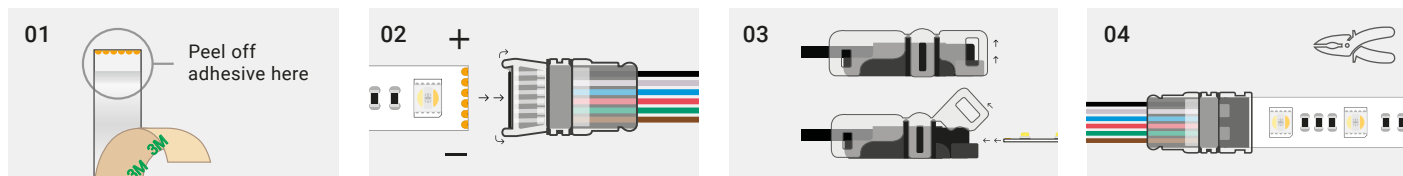
Remove 1/4" of 3M adhesive tape on the back from the end of the strip that you want to connect. It must be removed to allow it to fit properly with the solderless connector.

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 is properly closed.

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

Compatible Aluminum Extrusions

Flexfire LEDs Mounting Channel Kits

Name	Type	Included Accessories	Covers	Kit SKU	Mockup
Laika™	Surface Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Clear Cover, 1 m (3' 3/8") Frosted Cover, 1 m (3' 3/8")	SKU: LAI-CH-A-CVR-C-1M SKU: LAI-CH-A-CVR-F-1M	
		Note: This extrusion only fits the ColorBright™ RGB + Dynamic Tunable White Series LED strip without connectors.			
Gemini™	Surface Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Clear Cover, 1 m (3' 3/8") Frosted Cover, 1 m (3' 3/8") Matte Cover 1, m (3' 3/8")	SKU: GEM-CH-A-CVR-C-1M SKU: GEM-CH-A-CVR-F-1M SKU: GEM-CH-A-CVR-M-1M	
		Note: This extrusion only fits the ColorBright™ RGB + Dynamic Tunable White Series LED strip without connectors.			
Cassini™	Recessed	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Clear Cover, 1 m (3' 3/8") Frosted Cover, 1 m (3' 3/8") Matte Cover, 1 m (3' 3/8")	SKU: CAS-CH-A-CVR-C-1M SKU: CAS-CH-A-CVR-F-1M SKU: CAS-CH-A-CVR-M-1M	
		Note: This extrusion only fits the ColorBright™ RGB + Dynamic Tunable White Series LED strip without connectors.			
Nova™	Surface Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Clear Round Cover, 1 m (3' 3/8") Clear Square, 1 m (3' 3/8") Matte Round Cover, 1 m (3' 3/8") Matte Square Cover, 1 m (3' 3/8")	SKU: NOV-CH-A-CVR-C-RD-1M SKU: NOV-CH-A-CVR-C-SQ-1M SKU: NOV-CH-A-CVR-M-RD-1M SKU: NOV-CH-A-CVR-M-SQ-1M	
		Note: This extrusion only fits the ColorBright™ RGB + Dynamic Tunable White Series LED strip without connectors.			
Kepler™	Surface Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Clear Cover, 1 m (3' 3/8") Frosted Cover, 1 m (3' 3/8") Matte Cover, 1 m (3' 3/8")	KEP-CH-A-CVR-C-1M KEP-CH-A-CVR-F-1M KEP-CH-A-CVR-M-1M	
		Note: This extrusion only fits the ColorBright™ RGB + Dynamic Tunable White Series LED strip without cover.			
Atlas™	Surface Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Clear Cover, 1 m (3' 3/8") Frosted Cover, 1 m (3' 3/8") Matte Cover, 1 m (3' 3/8")	ATL-CH-A-CVR-C-1M ATL-CH-A-CVR-F-1M ATL-CH-A-CVR-M-1M	
		Note: This extrusion only fits the ColorBright™ RGB + Dynamic Tunable White Series LED strip without connectors.			
Titan™	Surface Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips 6 Channel Connectors	Clear Cover, 1 m (3' 3/8") Frosted Cover, 1 m (3' 3/8") Matte Cover, 1 m (3' 3/8")	TTN-CH-A-CVR-C-1M TTN-CH-A-CVR-F-1M TTN-CH-A-CVR-M-1M	
Calypso™	Recessed	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips 6 Channel Connectors	Frosted Cover, 1 m (3' 3/8") Matte Cover, 1 m (3' 3/8")	CAL-CH-A-CVR-F-1M CAL-CH-A-CVR-M-1M	
Ion™	Surface Mount	-	-	SKU: ION-CH-A-1M	

Compatible Aluminum Extrusions

Name	Covers	End Caps	Mounting Accessories	Mockup
KLUS TAMI **Anodized Extrusion** **with Translucent Cover** SKU: KL-B5390ANODA-1m		· KLUS ECO TAMI SKU: KL-20051	· KLUS Stainless Steel Mounting Bracket SKU: KL-24190	
Note: This extrusion only fits the ColorBright™ RGB + Dynamic Tunable White Series LED strip without connectors.				
KLUS GIZA **Anodized Extrusion** SKU: KL-B5556ANODA-1m	· KLUS - HS 22 Clear Cover SKU: KL-17022-1m · KLUS LIGER 22 Frosted Cover SKU: KL-17032-1m	· KLUS GIZA End Cap SKU: KL-24007	· KLUS GP Surface Spring SKU:KL-00293 · KLUS Mounting Bracket SKU: KL-24143	
Note: This extrusion only fits the connectors for RGB + Dynamic Tunable White Series LED Strip without a cover.				
KLUS LIPOD **Anodized Extrusion** SKU: KL-B5554ANODA-1m	· KLUS LIGER 22 Frosted Cover SKU: KL-17032-1m	· KLUS LIPOD-MET SKU: KL-24051	· KLUS Mounting Bracket SKU: KL-24143	
KLUS KOPRO **Anodized Extrusion** SKU: KL-B6367ANODA-1m	· KLUS KOPRO L Cover SKU: KL-17092-1m	· KLUS KOPRO L SKU: KL-24116	· KLUS GP Surface Spring SKU: KL-00293	
KLUS SILER **Anodized Extrusion** SKU: KL-B9325ANODA-1m	· KLUS SILER Frosted Cover SKU: KL-17039-1m	· KLUS SILER SKU: KL-24236	· KLUS 45-STN Mounting Bracket SKU: KL-24144	
Note: This extrusion only fits the ColorBright™ RGB + Dynamic Tunable White Series LED strip without 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 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 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

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FLEXFIRELEDs

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