



# Outdoor ColorBright™ Vivid Color LED Strip Light

## Product Data Sheet

### PRECAUTION:

Please read all instructions carefully before installation.

Our Outdoor ColorBright™ Vivid Color LED Strip Lights offer exceptional color saturation for projects requiring specific, rich hues. Their silicone cover facilitates cleaning and protection against dust and low-pressure water jets. Available in red, green, blue, and amber, their medium brightness is perfect for adorning vehicles and residential exteriors, as well as for commercial signage and outdoor edge or stage lighting.



### Product Features

<b>Color</b>	Red, Green, Blue, Amber
<b>Voltage</b>	24V DC Input
<b>LEDs/Foot</b>	36 LEDs/ft (120 LEDs/m)
<b>Beam Angle</b>	120° Beam Angle
<b>LED Pitch</b>	1/4" (7 mm)
<b>Strip Width</b>	1/2" (12mm)
<b>Cutting Points</b>	2" (50 mm)
<b>Max Run Length in Series</b>	32 ft (10 m)
<b>PCB</b>	4 oz copper
<b>LED Size</b>	3528
<b>Adhesive Type</b>	3M 9495 Tape (IP65)
<b>Ambient Temperature</b>	-4°F to 113°F (-20°C to 45°C)
<b>Operating Temperature</b>	-4°F to 149°F (-20°C to 65°C)
<b>Dimmable</b>	Yes
<b>IP Rating</b>	IP65

15 Year  
Warranty



## Ordering Code

Series - Voltage - Length - Wet Location

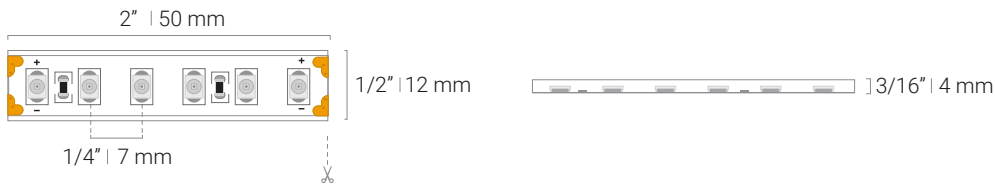
**24V** - **16FT** - **WL**

**16FT** - 16 ft Reel

**R** - Red  
**G** - Green  
**B** - Blue  
**A** - Amber  
**ATS** - Amber TS\*

\*Special order  
**Example:** R-24V-16FT-WL

## Dimensions



## Product Specifications

Product SKU	Color	Watts / Foot (Meter)	Lumen / Foot (Meter)	Luminous Efficacy (Lumens / Watt)	Color Wavelength
R	Red	3 W/ft (9.8 W/m)	31 lm/ft (101 lm/m)	10 lm/W	630 nm
G	Green	3 W/ft (9.8 W/m)	177 lm/ft (581 lm/m)	61 lm/W	517 nm
B	Blue	3 W/ft (9.8 W/m)	44 lm/ft (143 lm/m)	14 lm/W	462 nm
A	Amber	3 W/ft (9.8 W/m)	114 lm/ft (375 lm/m)	39 lm/W	641 nm
ATS	Amber Turtle Safe	3 W/ft (9.8 W/m)	67 lm/ft (221 lm/m)	22 lm/W	593 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
<b>Plug-In Power Supply</b> Plug-and-Play Power Supply		1 - 6 ft	24V-WMPS2-1	24W	X
		7 - 25 ft	24V-DPS2-4	96W	X
<b>Mean Well™ HLG</b> Hardwired Power Supply		1 - 18 ft	HLG-60H-24A	60W	X
		19 - 28 ft	HLG-100H-24A	96W	X
		29 - 55 ft	HLG-185H-24A	185W	
		56 - 96 ft	HLG-320H-24A	320W	
		97 - 180 ft	HLG-600H-24A	600W	
<b>Mean Well™ LPV</b> Hardwired Power Supply		1 - 17 ft	LPV-60-24	60W	X

### Dimmable

Power Supply	Diagram	LED Strip Length	Product SKU	Watts	Class 2
<b>Zurik® EMLV</b> Hardwired Power Supply		1 - 9 ft	ZRK-EMLV2-30W-24VDC	30W	X
		10 - 18 ft	ZRK-EMLV2-60W-24VDC	60W	X
<b>Zurik® Universal</b> Hardwired Power Supply		1 - 9 ft	ZRK-UNV-30W-24VDC	30W	X
		10 - 18 ft	ZRK-UNV-60W-24VDC	60W	X
		19 - 28 ft	ZRK-UNV-96W-24VDC	96W	X
		29 - 36 ft	ZRK-UNV-120W-24VDC	120W	
		37 - 60 ft	ZRK-UNV-200W-24VDC	200W	
		61 - 90 ft	ZRK-UNV-300W-24VDC	300W	
<b>Lutron® Hi-Lume™ Premier</b> Hardwired Power Supply		1 - 28 ft	L3D0-96W24V-U	96W	X
		Dimming Range: 0.1-100%			

[See Power Supplies Selector](#)

## Compatible Controllers & Dimmers

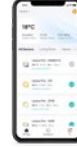
Handheld Remotes



Wall Dimmers



Smart Home Controllers

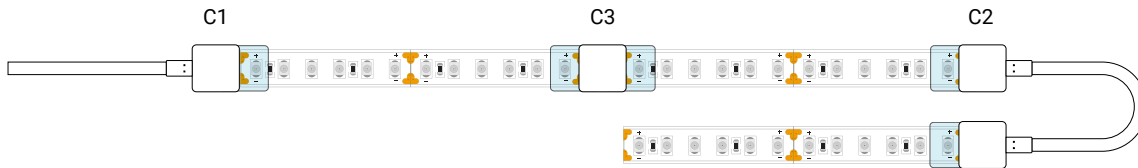


[See Controllers and Dimmers](#)

## Compatible Strip Light Connectors

Product SKU	Diagram	Description	Wire Gauge	Amperage Limit*
IP65-GRIP-SC-C1-10-40		Outdoor connector with 40" of wire to attach the strip to a power supply or low voltage control.	22 AWG	5 Amps
IP65-GRIP-SC-C2-10-08		Jumper connector with 8" of wire to attach two sections of strip together. Wire allows to go around tight corners.		
IP65-GRIP-SC-C3-10-0		Jumper connector with no wire to attach sections of strip together in a continuous run.		

\*Be sure no more than 5 amps is drawn after any solderless connector. Calculate max length of strip light to follow the solderless connector based on an amperage draw of 0.29 A/ft (0.96 A/m) at 12 volts, 0.15 A/ft (0.48 A/m) at 24 volts.



## Strip Light Connectors Installation

- Cut the LED strip light and the silicone sleeve on the cutting point you want to install the connector.
- Check the polarity to match the positive (+) markings together and negative (-) markings together, and remove 2" of the adhesive tape and its backer from the back of the strip light.
- Apply silicone sealant liberally inside of the silicone sleeve until ensuring it is completely sealed.
- Slide the transparent case of your outdoor IP65 grip connector into the sleeve with the window of the case facing upward, until making sure that the strip is making proper contact.
- Grab your connector and push the metal contacts through the window of the transparent case. Adjust it with pliers until you hear a click, and let the sealant cure according to its own instructions.

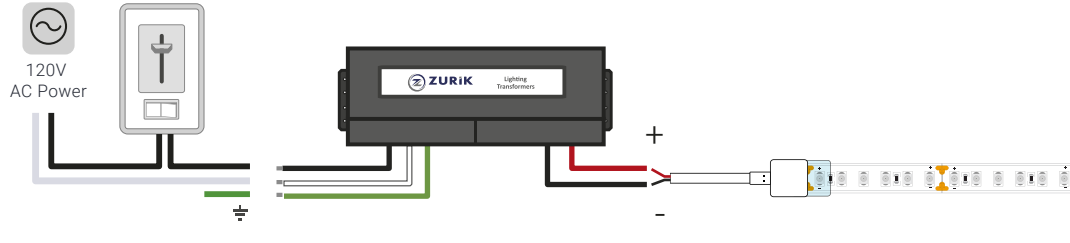
## Compatible Aluminum Channel Kits

Diagram	Name	Type	Channel Kit Description	Kit SKU	Included Accessories
	<b>Ion™</b>	 Surface Mount	1 Meter Ion Channel	ION-CH-A-1M	
	<b>Gemini™</b>	 Surface Mount	1 Meter Channel + Clear Cover Kit 2 Meter Channel + Clear Cover Kit 1 Meter Channel + Frosted Cover Kit 2 Meter Channel + Frosted Cover Kit 1 Meter Channel + Matte Cover Kit 2 Meter Channel + Matte Cover Kit	GEM-CH-A-CVR-C-1M GEM-CH-A-CVR-C-2M GEM-CH-A-CVR-F-1M GEM-CH-A-CVR-F-2M GEM-CH-A-CVR-M-1M GEM-CH-A-CVR-M-2M	2 Open End Caps 2 Closed End Caps 4 Mounting Clips
Note: This extrusion only fits the Outdoor ColorBright™ Vivid Color LED Strip Lights without connectors.					
	<b>Kepler™</b>	 Surface Mount	1 Meter Channel + Clear Cover Kit 1 Meter Channel + Frosted Cover Kit 2 Meter Channel + Frosted Cover Kit	KEP-CH-A-CVR-C-1M KEP-CH-A-CVR-F-1M KEP-CH-A-CVR-M-1M	2 Open End Caps 2 Closed End Caps 4 Mounting Clips
Note: This extrusion only fits the Outdoor ColorBright™ Vivid Color LED Strip Lights without connectors.					
	<b>Laika™</b>	 Surface Mount	1 Meter Channel + Clear Cover Kit 1 Meter Channel + Frosted Cover Kit 2 Meter Channel + Frosted Cover Kit	LAI-CH-A-CVR-C-1M LAI-CH-A-CVR-F-1M LAI-CH-A-CVR-F-2M	2 Open End Caps 2 Closed End Caps 4 Mounting Clips
Note: This extrusion only fits the Outdoor ColorBright™ Vivid Color LED Strip Lights without connectors.					
	<b>Titan™</b>	 Surface Mount	1 Meter Channel + Clear Cover Kit 1 Meter Channel + Frosted Cover Kit 2 Meter Channel + Frosted Cover Kit 1 Meter Channel + Matte Cover Kit 2 Meter Channel + Matte Cover Kit 1 Meter Channel + 10 Meter Frosted Cover Kit 1 Meter Channel + 10 Meter Matte Cover Kit 1 Pendant Kit	TTN-CH-A-CVR-C-1M TTN-CH-A-CVR-F-1M TTN-CH-A-CVR-F-2M TTN-CH-A-CVR-M-1M TTN-CH-A-CVR-M-2M TTN-CH-A-CVR-F-10MR TTN-CH-A-CVR-M-10MR TTN-PND-KIT	2 Open End Caps 2 Closed End Caps 4 Mounting Clips 6 Channel Connectors 10 Open End Caps 10 Closed End Caps 20 Mounting Clips 30 Channel Connectors 2 Pendant Mounts with Screws
	<b>Atlas™</b>	 Angled Surface Mount	1 Meter Channel + Clear Cover Kit 1 Meter Channel + Frosted Cover Kit 2 Meter Channel + Frosted Cover Kit 1 Meter Channel + Matte Cover Kit 2 Meter Channel + Matte Cover Kit	ATL-CH-A-CVR-C-1M ATL-CH-A-CVR-F-1M ATL-CH-A-CVR-F-2M ATL-CH-A-CVR-M-1M ATL-CH-A-CVR-M-2M	2 Open End Caps 2 Closed End Caps 4 Mounting Clips
Note: This extrusion only fits the Outdoor ColorBright™ Vivid Color LED Strip Lights without connectors.					
	<b>Calypso™</b>	 Recessed	1 Meter Channel + Frosted Cover Kit 2 Meter Channel + Frosted Cover Kit 1 Meter Channel + Matte Cover Kit 2 Meter Channel + Matte Cover Kit 1 Meter Channel + 10 Meter Frosted Cover Kit 1 Meter Channel + 10 Meter Matte Cover Kit	CAL-CH-A-CVR-F-1M CAL-CH-A-CVR-F-2M CAL-CH-A-CVR-M-1M CAL-CH-A-CVR-M-2M CAL-CH-A-CVR-F-10MR CAL-CH-A-CVR-M-10MR	2 Open End Caps 2 Closed End Caps 4 Mounting Clips 10 Open End Caps 10 Closed End Caps 20 Mounting Clips 30 Channel Connectors
	<b>Cassini™</b>	 Recessed	1 Meter Channel + Clear Cover Kit 1 Meter Channel + Frosted Cover Kit 2 Meter Channel + Frosted Cover Kit 1 Meter Channel + Matte Cover Kit 2 Meter Channel + Matte Cover Kit	CAS-CH-A-CVR-C-1M CAS-CH-A-CVR-F-1M CAS-CH-A-CVR-F-2M CAS-CH-A-CVR-M-1M CAS-CH-A-CVR-M-2M	2 Open End Caps 2 Closed End Caps 4 Mounting Clips
Note: This extrusion only fits the Outdoor ColorBright™ Vivid Color LED Strip Lights without connectors.					



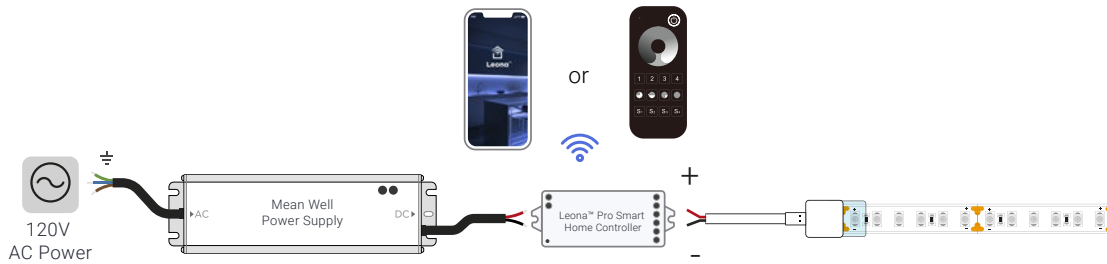
## Wiring Diagrams

### 120V Wall Dimmer



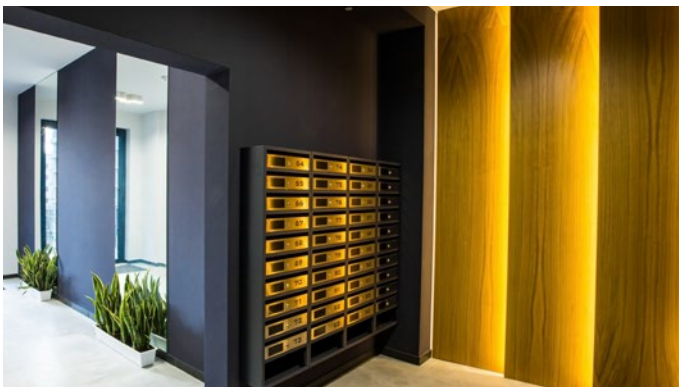
Input		
Green	⏏	Ground Wire
Black	L	Line (hot)
White	N	Neutral
Output		
Black	-	Negative
Red	+	Positive

### In-Line Dimming



Input		
Green/Yellow	⏏	Ground Wire
Brown	L	Line (hot)
Blue	N	Neutral
Output		
Black	-	Negative
Red	+	Positive

## Application Examples



## Safety And Disclosures

01. Installation must be in accordance with local and national electrical code regulations. To ensure safety and correct installation, our strips are intended to be installed by a qualified, licensed electrician.

02. Only install with a Class 2 DC Constant Voltage LED driver to meet UL requirements.

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 product with the majority of the product unsupported. Allowing the product to be suspended or dangling while installing may cause damage to the PCB due to the weight of the strip and/or spool.

08. Do not install within 5 feet of a swimming pool or spa.

09. Unless otherwise stated as appropriate, do not use the product in direct sunlight or in close proximity to caustic substances such as saltwater, chlorine, bromine, etc.

10. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.

11. 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 wires, and cause fire.

12. Do not modify the product beyond instructions or warranty will be void.

13. 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 15 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.



**Toll Free Number:**  
1-844-353-9347



**Local Number:**  
(925) 273-9080



[info@flexfireleds.com](mailto:info@flexfireleds.com)



**FLEXFIRELEDs**

[www.flexfireleds.com](http://www.flexfireleds.com)