




Outdoor IP65

# Architectural™ Series LED Strip Light

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Product Data Sheet

 Please read all instructions carefully before installation.

## Description

The Outdoor UltraBright™ Architectural Series LED strip lights are the most popular series of strip lights offered at Flexfire LEDs. Their lumen output is up to 502 lumens per foot with an efficacy of up to 116 lm/W, making this strip a must-have lighting tool for any architect, designer, OEM, contractor, or homeowner. The IP65 silicone cover protection not only allows the lights to be protected from a range of outdoor elements and withstand jets of water, but also makes them extremely easy to clean. The very high lumen output, excellent color rendering and consistency, and flexible design of LED strips means that beautiful lighting can be installed in basically any space you can imagine.

15 Year  
Warranty



Title 24 is regulated for lamps with color temperatures 4000K and below

## Product Features

CRI	High CRI of up to 98
R9 and R13 Values	High R9 (98) & R13 (100) values
Lumens	Up to 502 lm/ft (1,646 lm/m)
Efficacy	Up to 116 lm/W
Voltage	12V and 24V DC Input
LEDs/Foot	49 LEDs/Foot (160/m)
Beam Angle	120° Beam Angle
Ambient Temp	-4°F to 113°F (-20°C to 45°C)
PCB	4 oz copper PCB
LED Pitch	1/4" (6.3 mm)
Strip Width	1/2" (12 mm)
Cutting Points 12V	1" (25 mm)
Cutting Points 24V	2" (51 mm)
Max Run Length in Series 12V	16 ft (5 m)
Max Run Length in Series 24V	42 ft (13 m)
LED Size	3014
Adhesive Type	3M VHB 9495 tape (IP65)
Dimmable	Yes

## Product Specifications

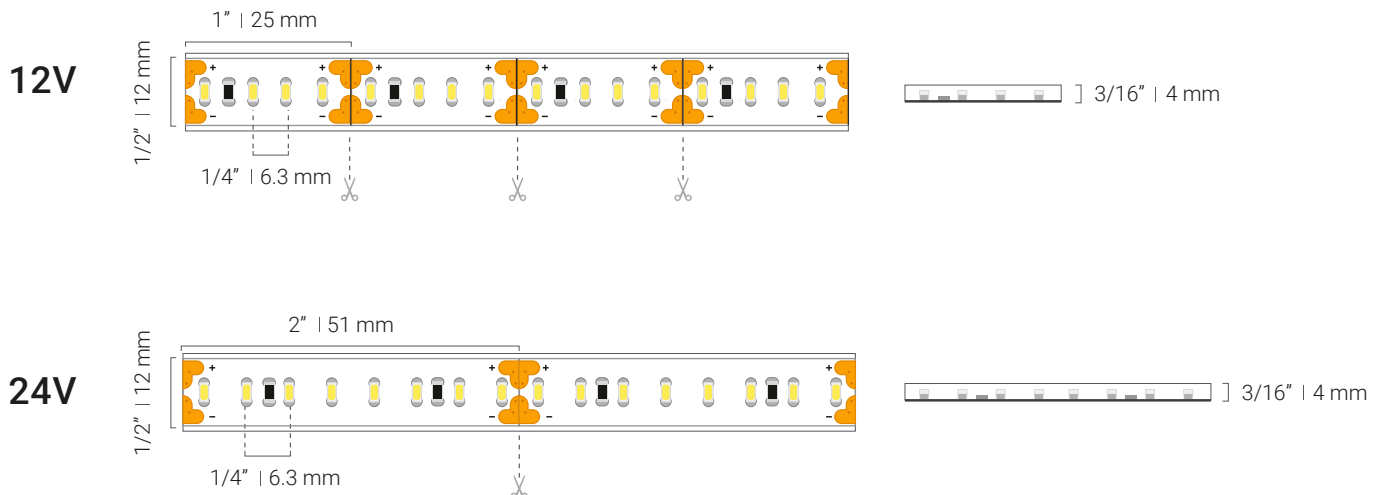
Product SKU	Color* (CCT)	Watts / Foot (Meter)	Lumen / Foot (Meter)	Luminous Efficacy (Lumens / Watt)	CRI	Gamut Score Rg (Color Sat.)	Relative Fidelity Score (RF)	TLCI (Qa)	CQS
IP65-UB-AS-27K90C	2700K	4.4 W/ft (14.4 W/m)	466 lm/ft (1,528 lm/m)	104	98	101	95	97	96
IP65-UB-AS-30K90C	3000K	4.4 W/ft (14.4 W/m)	478 lm/ft (1,567 lm/m)	108	94	100	92	94	93
IP65-UB-AS-35K90C	3500K	4.4 W/ft (14.4 W/m)	499 lm/ft (1,636 lm/m)	112	95	100	92	95	93
IP65-UB-AS-40K90C	4000K	4.4 W/ft (14.4 W/m)	493 lm/ft (1,616 lm/m)	114	97	99	92	98	95
IP65-UB-AS-50K90C	5000K	4.4 W/ft (14.4 W/m)	502 lm/ft (1,646 lm/m)	116	95	98	91	96	92

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

## Ordering Code

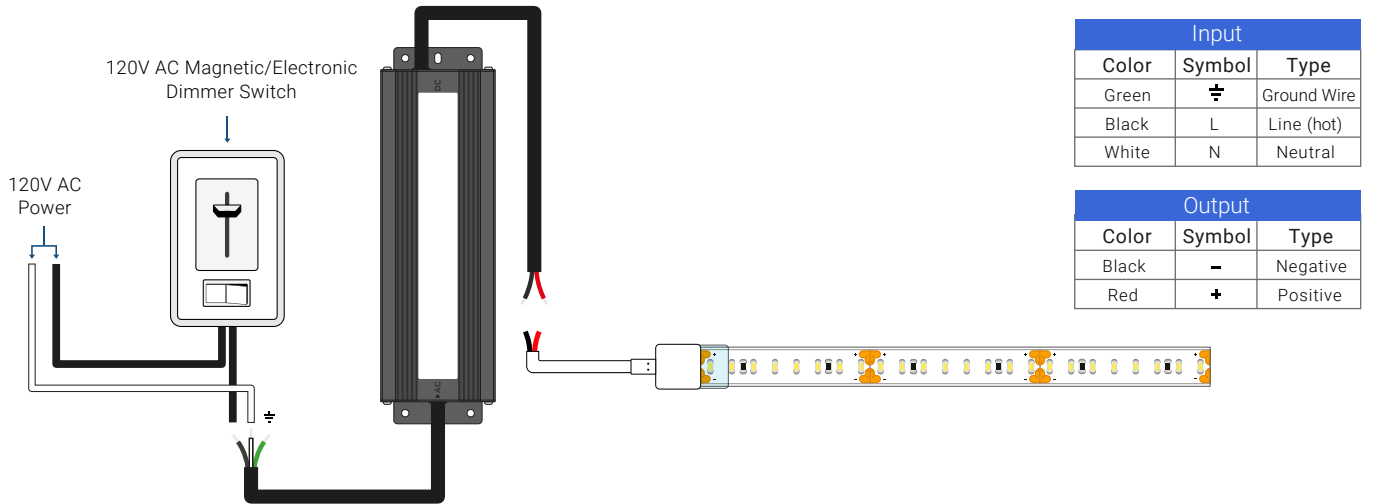
IP Protection	Brand	Series	CCT	Voltage	Length
<b>IP65 -</b> Weatherproof	<b>UB -</b> UltraBright	<b>AS -</b> Architectural™ Series	<b>27K90C</b> - 2700K/90+ CRI <b>30K90C</b> - 3000K/90+ CRI <b>35K90C</b> - 3500K/90+ CRI <b>40K90C</b> - 4000K/90+ CRI <b>50K90C</b> - 5000K/90+ CRI	<b>12V</b> <b>24V</b>	16FT - 16.4 ft Reel

## Dimensions

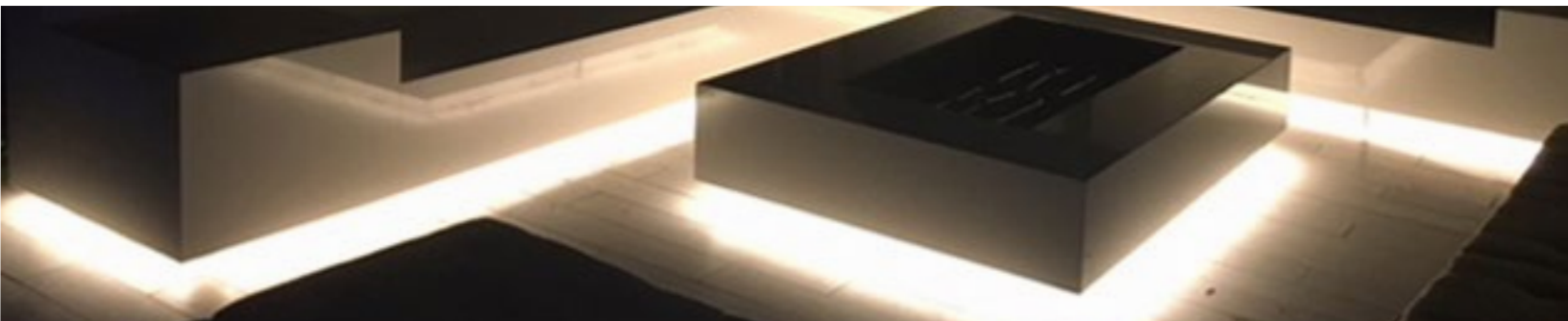
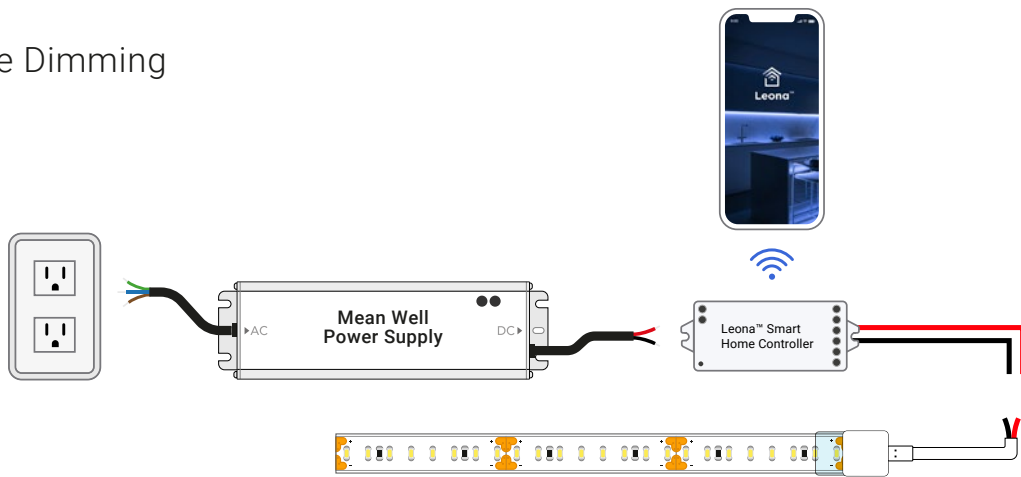


## Dimming Options

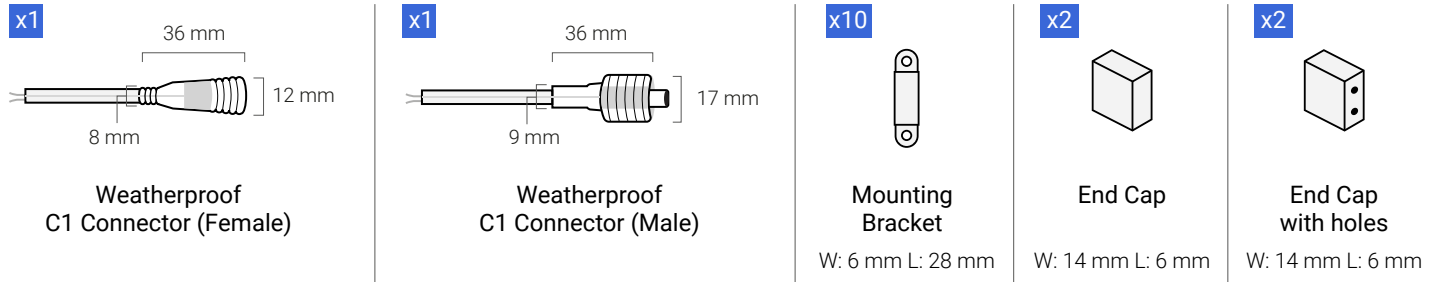
### Lutron Style Wall Dimmer



### In-Line Dimming



## Included Accessories

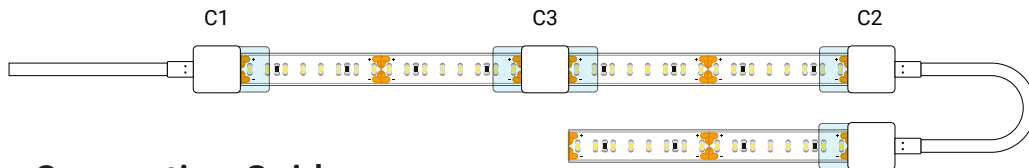


## Strip Light Connectors

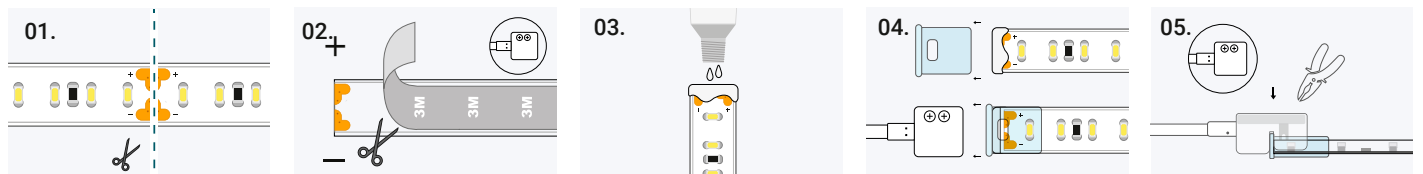
SKU	Description	Wire Gauge	Amperage** Limit	Diagram
IP65-GRIP-SC-C1-10-40	Outdoor IP65 Grip Connector with 40" wire	20 AWG	5 Amps	
IP65-GRIP-SC-C2-10-08	Outdoor IP65 Grip Jumper Connector with 8" wire	20 AWG		
IP65-GRIP-SC-C3-10-0	Outdoor IP65 Grip Jumper Connector			

\*Calculate max length of LED strip to follow the solderless connector based on an amperage draw of 0.36 A/ft (1.2 A/m) at 12 volts and 0.18 amps per foot (0.6 A/m) at 24 volts.

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



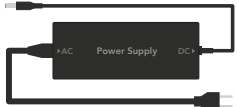
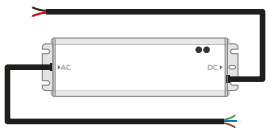
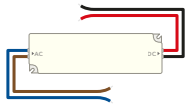

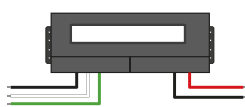
## Solderless Connection Guide



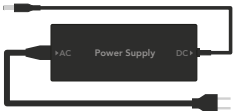



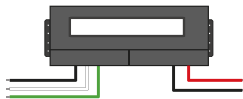

1. Cut the LED strip light and the silicone sleeve on the cutting point you want to install the connector.
2. Check the polarity and remove 2" of the adhesive tape and its backer from the back of the LED Strip light.
3. Apply Silicone sealant liberally inside of the silicone sleeve until ensuring it is completely sealed.
4. Slide the transparent case of your Outdoor IP65 Grip connector into the sleeve, until making sure that the strip is making proper contact.
5. 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 Drivers (12V)

	Power Supply	LED Strip Length	Product SKU	Diagram	
Non-dimmable	Plug-In Power Supply	1 - 2 ft	12V-WMPS2-1		
		3 - 4 ft	12V-DPS2-2		
		5 - 8 ft	12V-DPS2-4		
		9 - 13 ft	12V-DPS2-6		
		14 - 17 ft	12V-DPS2-8		
	Mean Well™ HLG		1 - 8 ft	HLG-40H-12A	
			9 - 12 ft	HLG-80H-12A	
			13 - 24 ft	HLG-120H-12A	
			25 - 30 ft	HLG-150H-12A	
			31 - 39 ft	HLG-240H-12A	
			40 - 54 ft	HLG-320H-12A	
			55 - 98 ft	HLG-600H-12A	
	Mean Well™ LPV		1 - 4 ft	LPV-20-12	
			5 - 7 ft	LPV-35-12	
			8 - 12 ft	LPV-60-12	
		13 - 20 ft	LPV-100-12		
Dimmable	Zurik® EMLV	1 - 6 ft	ZRK-EMLV2-30W-12VDC		
		7 - 12 ft	ZRK-EMLV2-60W-12VDC		
		13 - 24 ft	ZRK-EMLV2-120W-12VDC-J		
		25 - 40 ft	ZRK-EMLV2-200W-12VDC-J		
		41 - 61 ft	ZRK-EMLV2-300W-12VDC-J		
	Zurik® Universal		1 - 11 ft	ZRK-UNV-60W-12VDC	
			12 - 22 ft	ZRK-UNV-120W-12VDC	
			23 - 40 ft	ZRK-UNV-200W-12VDC	
			41 - 62 ft	ZRK-UNV-300W-12VDC	
			1 - 36 ft	ZRK-UNV-C180W-12VDC	
	37 - 62 ft	ZRK-UNV-C300W-12VDC			

## Compatible Drivers (24V)

	Power Supply	LED Strip Length	Product SKU	Diagram	
Non-dimmable	Plug-In Power Supply	1 - 4 ft	24V-WMPS2-1		
		5 - 11 ft	24V-DPS2-2.5		
		12 - 18 ft	24V-DPS2-4		
		19 - 22 ft	24V-DPS2-5		
	Mean Well™ HLG		1 - 8 ft	HLG-40H-24A	
			9 - 12 ft	HLG-60H-24A	
			13 - 20 ft	HLG-100H-24A	
			21 - 25 ft	HLG-120H-24A	
			26 - 38 ft	HLG-185H-24A	
			39 - 49 ft	HLG-240H-24A	
		50 - 65 ft	HLG-320H-24A		
	66 - 123 ft	HLG-600H-24A			
Mean Well™ LPV		1 - 4 ft	LPV-20-24		
		5 - 7 ft	LPV-35-24		
		8 - 12 ft	LPV-60-24		
Zurik® EMLV		1 - 6 ft	ZRK-EMLV2-30W-24VDC		
		7 - 12 ft	ZRK-EMLV2-60W-24VDC		
		13 - 20 ft	ZRK-EMLV2-96W-24VDC-J		
		21 - 25 ft	ZRK-EMLV2-120W-24VDC-J		
		26 - 41 ft	ZRK-EMLV2-200W-24VDC-J		
	42 - 61 ft	ZRK-EMLV2-300W-24VDC-J			
Zurik® Universal		1 - 11 ft	ZRK-UNV-60W-24VDC		
		12 - 18 ft	ZRK-UNV-96W-24VDC		
		19 - 22 ft	ZRK-UNV-120W-24VDC		
		23 - 40 ft	ZRK-UNV-200W-24VDC		
		41 - 62 ft	ZRK-UNV-300W-24VDC		
		1 - 38 ft	ZRK-UNV-C192W-24VDC		
	39 - 79 ft	ZRK-UNV-C384W-24VDC			
Lutron® Hi-Lume™ Premier	0.1% Constant Voltage Driver	1 - 21 ft	L3D0-96W24V-U		
	<b>Dimming Range:</b>	<b>Description:</b>			
	0.1-100%	Hi-Lume Premier 0.1% EcoSystem 24V constant voltage LED driver with Soft-on, Fade-to-Black dimming technology			

## Compatible Aluminum Extrusions

Name	Type	Included Accessories	Covers	Kit SKU	Mockup
<b>Ion™</b>	Surface Mount	-	-	ION-CH-A-1M	
<b>Titan™</b>	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")	TTN-CH-A-CVR-C-1M TTN-CH-A-CVR-F-1M TTN-CH-A-CVR-M-1M	
<b>Gemini™</b>	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")	GEM-CH-A-CVR-C-1M GEM-CH-A-CVR-F-1M GEM-CH-A-CVR-M-1M	
		<b>Note:</b> This extrusion only fits the Outdoor (IP65) Architectural™ Series LED strip without connectors.			
<b>Nova™</b>	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")	NOV-CH-A-CVR-C-RD-1M NOV-CH-A-CVR-C-SQ-1M NOV-CH-A-CVR-M-RD-1M NOV-CH-A-CVR-M-SQ-1M	
		<b>Note:</b> This extrusion only fits the Outdoor (IP65) Architectural™ Series LED strip without connectors.			
<b>Kepler™</b>	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	
		<b>Note:</b> This extrusion only fits the Outdoor (IP65) Architectural™ Series LED strip without connectors.			
<b>Laika™</b>	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")	LAI-CH-A-CVR-C-1M LAI-CH-A-CVR-F-1M	
		<b>Note:</b> This extrusion only fits the Outdoor (IP65) Architectural™ Series LED strip without connectors.			
<b>Atlas™</b>	Angled 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	
		<b>Note:</b> This extrusion only fits the Outdoor (IP65) Architectural™ Series LED strip without connectors.			
<b>Calypso™</b>	Recessed Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	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	
<b>Phoenix™</b>	Recessed Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Frosted Cover, 1 m (3' 3/8") Matte Cover, 1 m (3' 3/8")	PHO-CH-A-CVR-F-1M PHO-CH-A-CVR-M-1M	
<b>Cassini™</b>	Recessed 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")	CAS-CH-A-CVR-C-1M CAS-CH-A-CVR-F-1M CAS-CH-A-CVR-M-1M	
		<b>Note:</b> This extrusion only fits the Outdoor (IP65) Architectural™ Series LED strip without connectors.			



## Safety And Disclosures

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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 an 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 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.
7. Do not cover this product with any kind of combustible material such as paper, fabrics, etc.
8. Do not install within 5 feet of a swimming pool or spa.
9. 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 wires, and cause fire.
11. Do not modify the product beyond instructions or 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, 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.
13. 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.

## 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.

# Contact Information



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



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



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**FLEXFIRELEDs**

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