FLEXFIRELEDs

Outdoor IP65

Accent™ Series
LED Strip Light

Product Data Sheet

Description

Our Outdoor (IP65) UltraBright™ Accent Series is the perfect choice for those wanting to uplift and revitalize any size space - inside or outside. With near-perfect color rendering and longer run lengths, these sophisticated lights are made to satisfy the desire for beauty and functionality. The weatherproof IP65 silicone cover promises complete protection against dust, can withstand powerful streams of water, and allows the strips to be easy to clean. Rediscover your favorite spaces and boast an even, bright line of light using minimal energy. Whether you want to brighten decks, beautify kitchens, or highlight your display windows, the IP65-rated Accent™ Series will truly reinvent your space.

15 Year Warranty

CE

RoHS COMPLIANT

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

TITLE **24** REQUIREMENTS

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

Product Features

CRI	High CRI of up to 97
R9 and R13 Values	High R9 (99) & R13 (98) values
Lumens	Up to 300 lm/ft (985 lm/m)
Efficacy	Up to 80 lm/W
Voltage	12V and 24V DC Input
LEDs/Foot	73 LEDs/ft (240/m)
Beam Angle	120° Beam Angle
Ambient Temp	-4ºF to 113ºF (-20ºC to 45ºC)
PCB	4 oz copper
LED Pitch	3/16" (4 mm)
Strip Width	1/2" (12 mm)
Cutting Points	1" (25 mm)
Max Run Length in Series 12V*	32 ft (10 m)
Max Run Length in Series 24V*	49 ft (15 m)
LED Size	2216
Adhesive Type	3M VHB 9495 tape (IP65)
Dimmable	Yes
IP Rating	IP65, weatherproof protection

*To be in compliance with Class 2 and our UL Listing, the maximum run length of this strip may not exceed 26 ft (8 m) in 12V and 36 ft (11 m) in 24V. However, in terms of sheer voltage drop and reduction in brightness, the strip is able to be run 32 ft (10 m) in 12V and 49 ft (15 m) in 24V which would be outside the parameters of our UL certification.
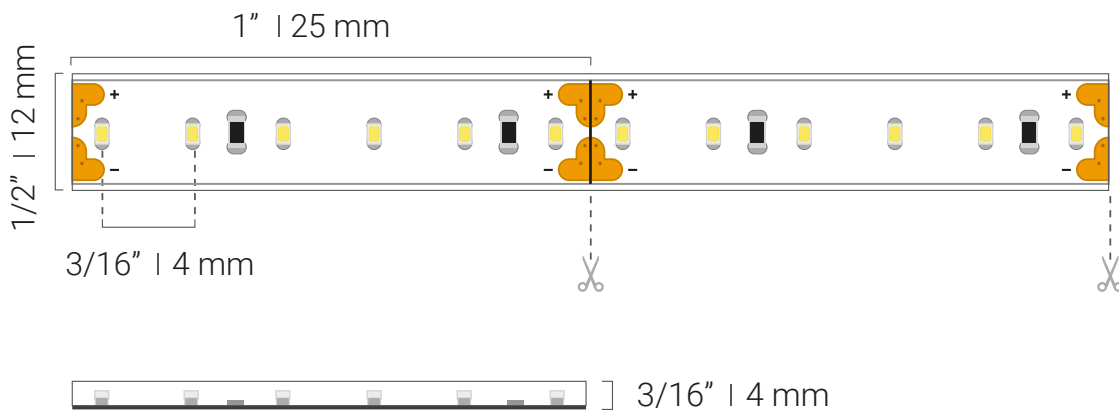
Product Specifications

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-AT1-27K97C	2700K	3.5 W/ft (11.5 W/m)	267 lm/ft (877 lm/m)	76	97	105	95	95	96
IP65-AT1-30K97C	3000K	3.5 W/ft (11.5 W/m)	275 lm/ft (901 lm/m)	78	97	103	96	98	98
IP65-AT1-35K97C	3500K	3.5 W/ft (11.5 W/m)	281 lm/ft (921 lm/m)	80	97	103	96	98	98
IP65-AT1-40K95C	4000K	3.5 W/ft (11.5 W/m)	263 lm/ft (864 lm/m)	75	97	102	96	98	98
IP65-AT1-50K95C	5000K	3.5 W/ft (11.5 W/m)	300 lm/ft (985 lm/m)	80	97	103	96	99	98

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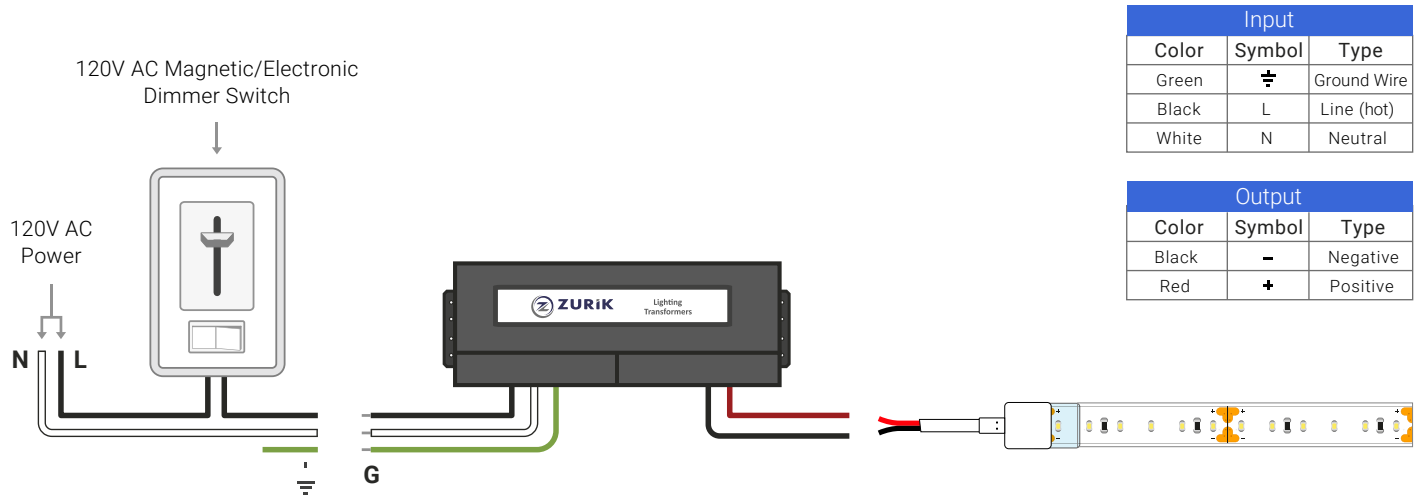
Ordering Code

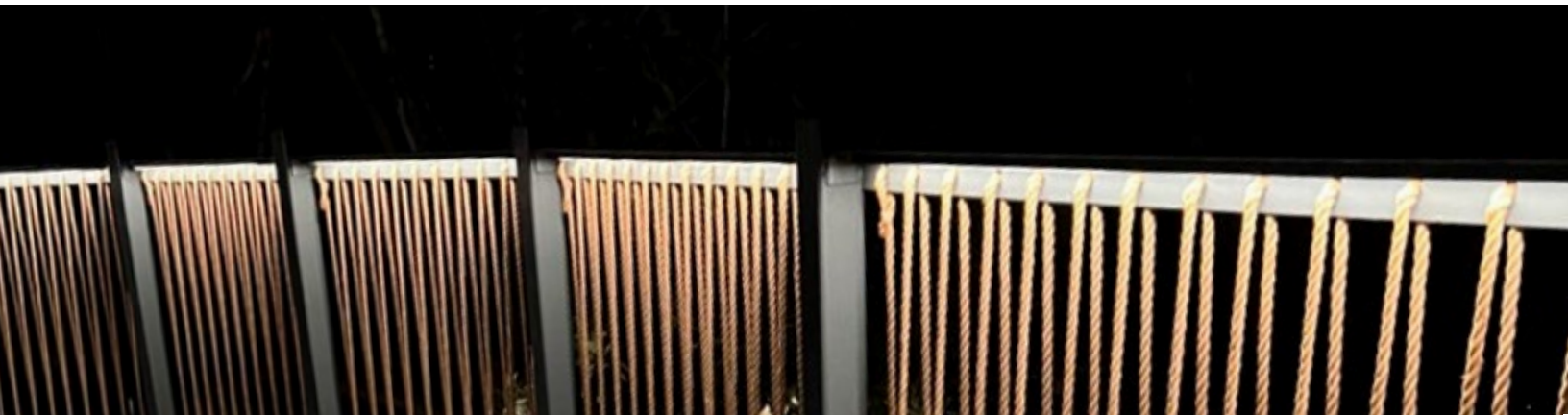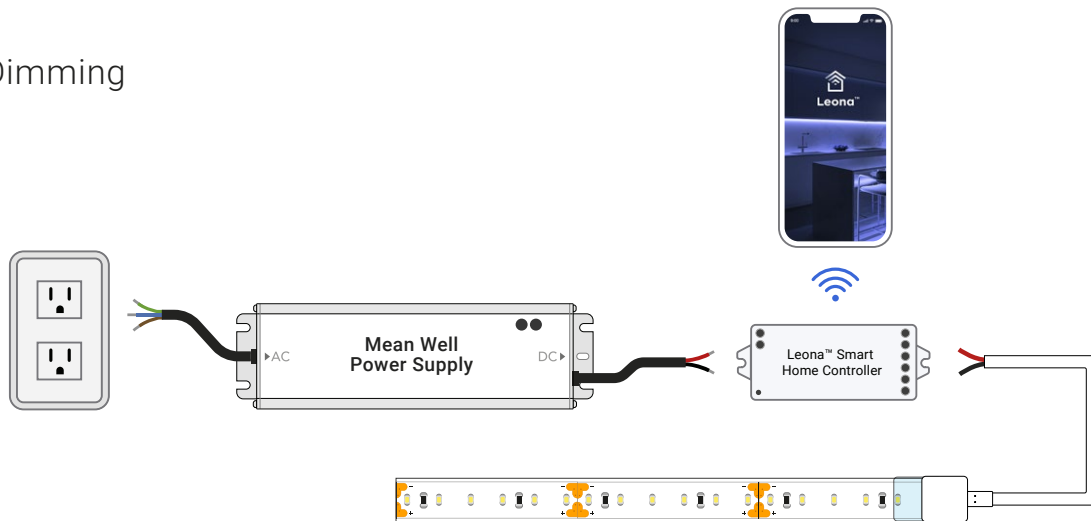| IP Protection	Brand	Series	CCT	Voltage	Length
IP65 Wet Location	**UB** UltraBright™	**AT1** Accent™ Series	**27K97C** - 2700K/97+ CRI **30K97C** - 3000K/97+ CRI **35K97C** - 3500K/97+ CRI **40K95C** - 4000K/95+ CRI **50K95C** - 5000K/95+ CRI	**12V** **24V**	16FT - 16 ft Reel 32FT - 32 ft Reel 98FT - 98 ft Reel

Dimensions

1" | 25 mm

1/2" | 12 mm

3/16" | 4 mm

3/16" | 4 mm

Dimming Options

Lutron Style Wall Dimmer

Input		
Color	Symbol	Type
Green	⏚	Ground Wire
Black	L	Line (hot)
White	N	Neutral

Output		
Color	Symbol	Type
Black	–	Negative
Red	+	Positive

120V AC Magnetic/Electronic
Dimmer Switch

120V AC
Power

N   L

ZURiK   Lighting Transformers

G

In-Line Dimming

Leona™

Mean Well
Power Supply

AC   DC

Leona™ Smart
Home Controller

Included Accessories

x1	x1	x10	x2	x2
36 mm / 12 mm / 8 mm	36 mm / 17 mm / 9 mm			
Weatherproof C1 Connector (Female)	Weatherproof C1 Connector (Male)	Mounting Bracket	End Cap	End Cap with holes
		W: 6 mm L: 30 mm	W: 14 mm L: 6 mm	W: 14 mm L: 6 mm

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		
IP65-GRIP-SC-C2-10-08	Outdoor IP65 Grip Jumper Connector with 8" wire	20 AWG	5 Amps	
IP65-GRIP-SC-C3-10-0	Outdoor IP65 Grip Jumper Connector			

C1   C3   C2
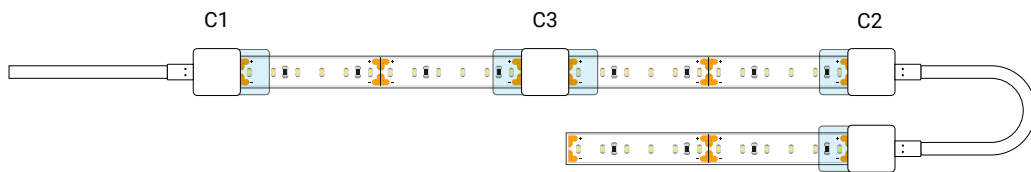
*Calculate max length of LED strip to follow the solderless connector based on an amperage draw of 0.3 A/ft (0.96 A/m) at 12 volts, 0.15 amps per foot (0.48 A/m) at 24 volts.

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

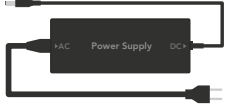## Strip Light Connectors Installation

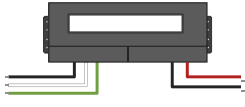| 01.	02.	03.	04.	05.
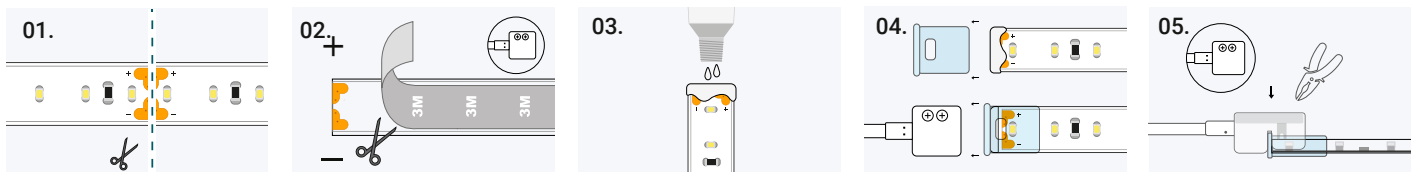
1. Cut the LED strip light and the silicone sleeve on the cutting point you want to install the connector.

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	Strip Length	Product SKU	Watts	Class 2	Diagram
Non-dimmable	**Plug-In Power Supply**	1 - 2 ft	12V-WMPS2-1	12W	X	
		3 - 5 ft	12V-DPS2-2	24W	X	
		6 - 10 ft	12V-DPS2-4	48W	X	
		11 - 16 ft	12V-DPS2-6	72W		
		17 - 21 ft	12V-DPS2-8	96W		
	Mean Well™ HLG	1 - 15 ft	HLG-80H-12A	60W	X	
		16 - 30 ft	HLG-120H-12A	120W		
		31 - 68 ft	HLG-320H-12A	265W		
Dimmable	**Zurik® Universal**	1 - 7 ft	ZRK-UNV-30W-12VDC	30W	X	
		8 - 15 ft	ZRK-UNV-60W-12VDC	60W	X	
		16 - 30 ft	ZRK-UNV-120W-12VDC	120W		
		31 - 77 ft	ZRK-UNV-300W-12VDC	300W		

Compatible Drivers (24V)

	Power Supply	Strip Length	Product SKU	Watts	Class 2	Diagram
Non-dimmable	**Plug-In Power Supply**	1 - 5 ft	24V-WMPS2-1	24W	X	
		6 - 13 ft	24V-DPS2-2.5	60W	X	
		14 - 21 ft	24V-DPS2-4	96W	X	
		22 - 27 ft	24V-DPS2-5	120W		
	Mean Well™ HLG	1 - 15 ft	HLG-60H-24A	60W	X	
		16 - 24 ft	HLG-100H-24A	96W	X	
		25 - 47 ft	HLG-185H-24A	185W		
		48 - 82 ft	HLG-320H-24A	320W		
		83 - 154 ft	HLG-600H-24A	600W		
	Mean Well™ LPV	1 - 14 ft	LPV-60-24	60W	X	
Dimmable	**Zurik® EMLV**	1 - 7 ft	ZRK-EMLV2-30W-24VDC	30W	X	
		8 - 15 ft	ZRK-EMLV2-60W-24VDC	60W	X	
	Zurik® Universal	1 - 7 ft	ZRK-UNV-30W-24VDC	30W	X	
		8 - 15 ft	ZRK-UNV-60W-24VDC	60W	X	
		16 - 24 ft	ZRK-UNV-96W-24VDC	96W	X	
		25 - 30 ft	ZRK-UNV-120W-24VDC	120W		
		31 - 51 ft	ZRK-UNV-200W-24VDC	200W		
		52 - 77 ft	ZRK-UNV-300W-24VDC	300W		
		3 - 98 ft (24ft/output)	ZRK-UNV-C384W-24VDC	384W	X	
	Lutron® Hi-Lume™ Premier **0.1% Constant Voltage Driver**	1 - 60 ft	L3D0-96W24V-U	96W	X	

Dimming Range: 0.1-100%

Description: Hi-Lume Premier 0.1% EcoSystem 24V constant voltage LED driver with Soft-on, Fade-to-Black dimming technology

Compatible Aluminum Extrusions

Name	Type	Covers	Included Accessories	Kit SKU	Diagram
Ion™	Surface Mount	-	-	ION-CH-A-1M	
Atlas™	Angled Surface Mount	Clear Frosted Matte	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	ATL-CH-A-CVR-C-1M ATL-CH-A-CVR-F-1M ATL-CH-A-CVR-M-1M	
	Note: This extrusion only fits the Outdoor (IP65) Accent™ Series LED strip without connectors.				
Gemini™	Surface Mount	Clear Frosted Matte	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	GEM-CH-A-CVR-C-1M GEM-CH-A-CVR-F-1M GEM-CH-A-CVR-M-1M	
	Note: This extrusion only fits the Outdoor (IP65) Accent™ Series LED strip without connectors.				
Kepler™	Surface Mount	Clear Frosted Matte	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	KEP-CH-A-CVR-C-1M KEP-CH-A-CVR-F-1M KEP-CH-A-CVR-M-1M	
	Note: This extrusion only fits the Outdoor (IP65) Accent™ Series LED strip without connectors.				
Laika™	Surface Mount	Clear Frosted	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	LAI-CH-A-CVR-C-1M LAI-CH-A-CVR-F-1M	
	Note: This extrusion only fits the Outdoor (IP65) Accent™ Series LED strip without connectors.				
Nova™	Surface Mount	Clear Round Clear Square Matte Round Matte Square	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	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	
	Note: This extrusion only fits the Outdoor (IP65) Accent™ Series LED strip without connectors.				
Titan™	Surface Mount	Clear Frosted Matte	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	TTN-CH-A-CVR-C-1M TTN-CH-A-CVR-F-1M TTN-CH-A-CVR-M-1M	
Calypso™	Recessed Mount	Frosted Matte	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	CAL-CH-A-CVR-F-1M CAL-CH-A-CVR-M-1M	
Cassini™	Recessed Mount	Clear Frosted Matte	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	CAS-CH-A-CVR-C-1M CAS-CH-A-CVR-F-1M CAS-CH-A-CVR-M-1M	
	Note: This extrusion only fits the Outdoor (IP65) Accent™ Series LED strip without connectors.				
Phoenix™	Recessed Mount	Frosted Matte	2 Open End Caps 2 Closed End Caps 6 Channel Connectors	PHO-CH-A-CVR-F-1M PHO-CH-A-CVR-M-1M	

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 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).

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