



Outdoor IP65 ColorBright™  
**RGB Digital Pixel  
LED Strip Light**



Product Data Sheet



## Description

Our Outdoor (IP65) ColorBright™ RGB Digital Pixel LED Strip Light is a big step forward for our LED strip light offering. This strip incorporates a small integrated circuit every 6 LEDs creating a Pixel, for a total of 50 pixels in a 5-meter reel. The ability to control those 50 pixels individually gives way to beautiful, dynamic, breath-taking effects, which are perfect for commercial and entertainment environments.

You will have complete control over your Digital Pixel LED strip: when paired with a digital LED controller, you will be able to create chasing effects in countless patterns, while also being able to adjust the brightness, speed and direction of the pixels. The IP65 rating means that the LED strip lights are able to withstand jets and splashes of water from all sides. It cannot be submerged in water, but it will withstand the elements. We also recommend outdoor lights for use indoors in high splash areas or if you're looking for a strip that is easier to clean.

7 Year  
Warranty



Pair it with our Juno™  
Digital LED Controller to  
Unlock Many Features:



Multi-Directional  
Light Effects



Variable  
Speed Settings



Variable  
Pixel Lengths



Hundreds  
of Beautiful  
Preset Modes

## Product Features

|                    |                                |
|--------------------|--------------------------------|
| Voltage            | 24V DC Input                   |
| Efficacy           | Up to 29 lm/W                  |
| LEDs per Pixel     | 6 LEDs per Pixel               |
| Pixels per Spool   | 50 Pixels per Spool            |
| IC Protocol        | WS2811                         |
| Beam Angle         | 120° Beam Angle                |
| Ambient Temp       | -4°F to +113°F (-20°C to 45°C) |
| Strip Width        | 1/2" (12 mm)                   |
| LED Pitch          | 7/16" (11 mm)                  |
| Cutting Points     | 4" (100 mm)                    |
| Maximum Run Length | 32 ft (10 m)                   |
| PCB                | 3 oz copper                    |
| LED Size           | 5050                           |
| Adhesive Type      | 3M 9495LE tape (IP65)          |
| Dimmable           | Yes                            |
| Spool Size         | 16.4 ft (5 m)                  |

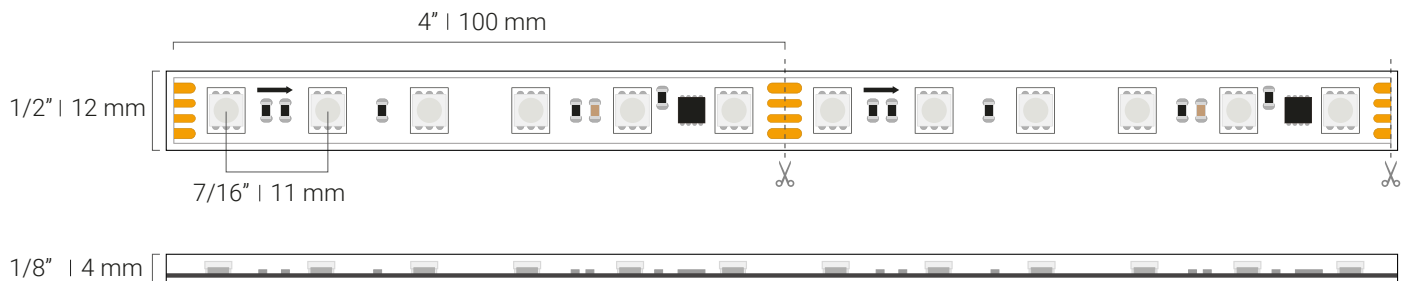
## Product Specifications

| Product SKU               | Watts/Foot | Watts/Meter | Lumens/Foot | Lumens/Meter | Luminous Efficacy Lumens/Watt |
|---------------------------|------------|-------------|-------------|--------------|-------------------------------|
| IP65-CB-DGTL-RGB-24V-16FT | 3.65 W     | 12 W        | 107 lm/ft   | 350 lm/m     | 29 lm/w                       |

## Ordering Code

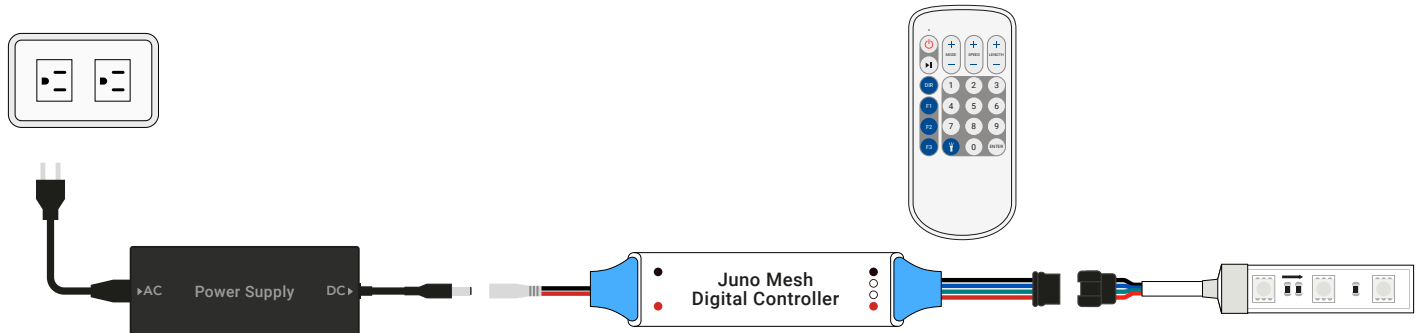
| IP Protection         | Brand             | Series                | Color | Voltage | Length            |
|-----------------------|-------------------|-----------------------|-------|---------|-------------------|
| IP65<br>Wet Locations | CB<br>ColorBright | DGTL<br>Digital Pixel | RGB   | 24V     | 16FT<br>16ft Reel |

## Dimensions

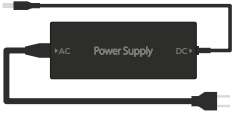




## Controller Options


### SPI Control

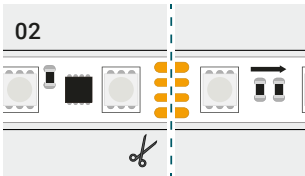


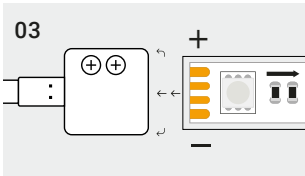
## Compatible Drivers

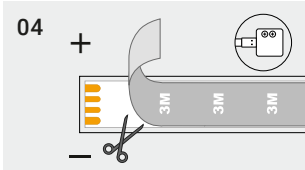
| Power Supply                | LED Strip Length | Watts | Product SKU  | Diagram  |
|-----------------------------|------------------|-------|--------------|--|
| <b>Plug-In Power Supply</b> | 1 - 5 ft         | 24 W  | 24V-WMPS-1   |   |
|                             | 6 - 13 ft        | 60 W  | 24V-DPS-2.5  |  |
|                             | 14 - 21 ft       | 96 W  | 24V-DPS-4    |  |
|                             | 22 - 26 ft       | 120 W | 24V-DPS-5    |  |
| <b>Mean Well™ HLG</b>       | 2 - 9 ft         | 40 W  | HLG-40H-24A  |   |
|                             | 10 - 14 ft       | 60 W  | HLG-60H-24A  |  |
|                             | 15 - 24 ft       | 96 W  | HLG-100H-24A |  |
|                             | 25 - 29 ft       | 120 W | HLG-120H-24A |  |
|                             | 30 - 45 ft       | 185 W | HLG-185H-24A |  |
|                             | 46 - 59 ft       | 240 W | HLG-240H-24A |  |
|                             | 60 - 78 ft       | 320 W | HLG-320H-24A |  |
|                             | 79 - 147 ft      | 600 W | HLG-600H-24A |  |
| <b>Mean Well™ LPV</b>       | 1 - 4 ft         | 20 W  | LPV-20-24    |  |
|                             | 5 - 8 ft         | 36 W  | LPV-35-24    |  |
|                             | 9 - 14 ft        | 60 W  | LPV-60-24    |  |

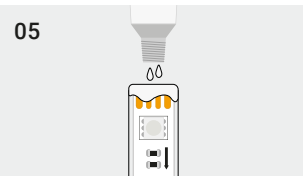
## Special Installation Instructions

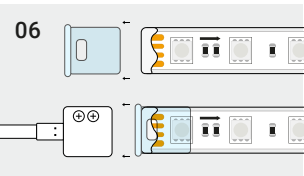
- 

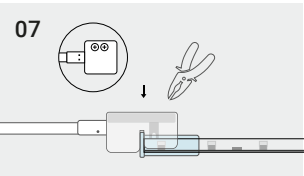
When working with our Outdoor (IP65) ColorBright™ RGB Digital Pixel LED Strip Light please make all necessary connections before applying power to the LED strip. Do not cut the strips or make/remove connections while power is applied.
- 

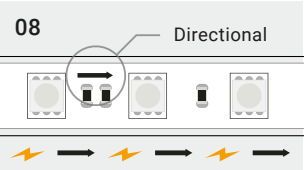
Cut the LED strip light and the silicone sleeve on the cutting point you want to install the connector.
- 

Make sure to use the same color wire for the same channels on the strip. Double check that you are using the same color for the positive (+) channel, and the same colors for the GROUND (GND) and DATA (DI or D0, depending on the end of the strip) channels.
- 

Check the polarity and remove 2" of the adhesive tape and its backer from the back of the LED 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, until making sure that the strip is making proper contact.
- 

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.
- 

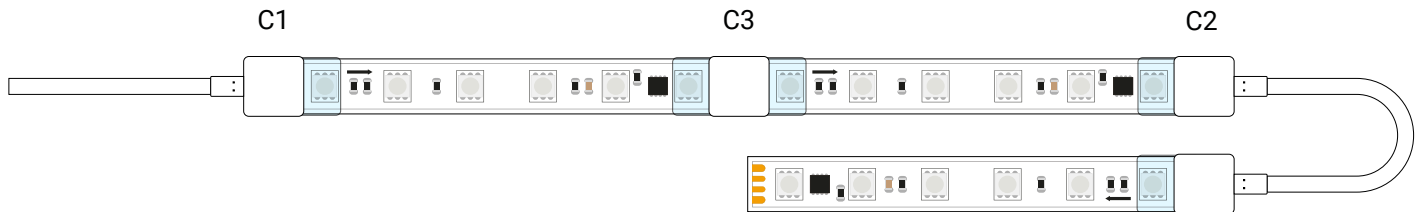
After making all connections, you will be ready to apply power. Please keep in mind that this LED strip light is directional, so the data can only flow from one direction. There are arrows printed on the PCB indicating the correct direction.

## Strip Light Connectors

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

\* Calculate max length of LED strip to follow the solderless connector based on an amperage draw of 0.14 A/ft (0.45 A/m) at 24 volts.

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








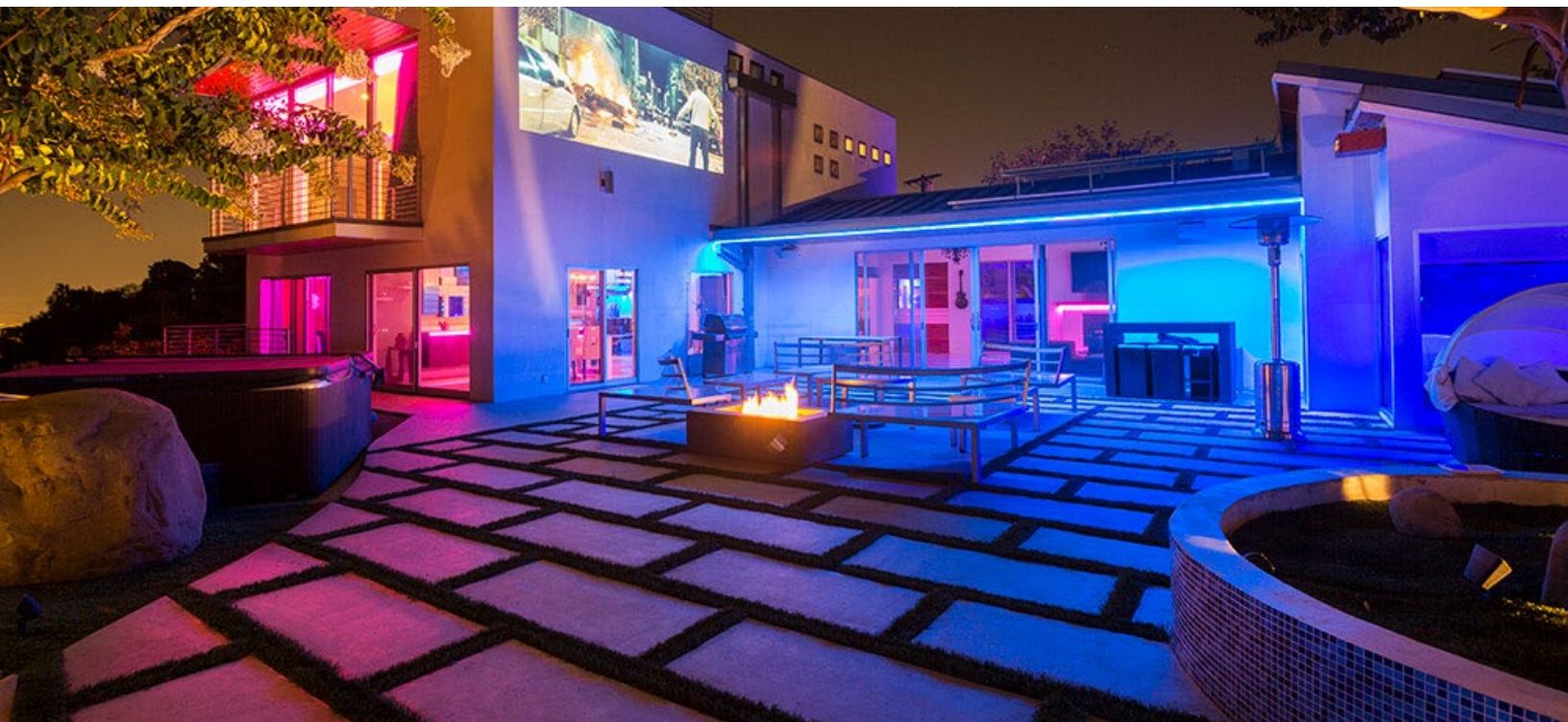
## Compatible Aluminum Extrusions

### Flexfire LEDs Mounting Channel Kits

| Name  | Type     | Included Accessories  | Covers   | Kit SKU   | Mockup  |
|---|----------|---|--|---|---|
| <b>Laika™</b>   | Surface  | 2 Open End Caps   | Clear Cover, 1 m (3' 3/8")   | SKU: LAI-CH-A-CVR-C-1M  |    |
|   | Mount    | 2 Closed End Caps<br>4 Metal Mounting Clips                         | Frosted Cover, 1 m (3' 3/8")   | SKU: LAI-CH-A-CVR-F-1M  |   |
| <b>Note:</b> This extrusion only fits the ColorBright™ IP65 RGB Digital Pixel LED strip without connectors. |          |   |  |   |   |
| <b>Gemini™</b>  | Surface  | 2 Open End Caps   | Clear Cover, 1 m (3' 3/8")   | SKU: GEM-CH-A-CVR-C-1M  |    |
|   | Mount    | 2 Closed End Caps<br>4 Metal Mounting Clips                         | Frosted Cover, 1 m (3' 3/8")<br>Matte Cover, 1 m (3' 3/8")   | SKU: GEM-CH-A-CVR-F-1M<br>SKU: GEM-CH-A-CVR-M-1M                                    |   |
| <b>Cassini™</b>   | Recessed | 2 Open End Caps   | Clear Cover, 1 m (3' 3/8")   | SKU: CAS-CH-A-CVR-C-1M  |    |
|   |          | 2 Closed End Caps<br>4 Metal Mounting Clips                         | Frosted Cover, 1 m (3' 3/8")<br>Matte Cover, 1 m (3' 3/8")   | SKU: CAS-CH-A-CVR-F-1M<br>SKU: CAS-CH-A-CVR-M-1M                                    |   |
| <b>Nova™</b>  | Surface  | 2 Open End Caps   | Clear Round Cover, 1 m (3' 3/8")   | SKU: NOV-CH-A-CVR-C-RD-1M   |  |
|   | Mount    | 2 Closed End Caps<br>4 Metal Mounting Clips                         | Clear Square, 1 m (3' 3/8")<br>Matte Round Cover, 1 m (3' 3/8")<br>Matte Square Cover, 1 m (3' 3/8") | SKU: NOV-CH-A-CVR-C-SQ-1M<br>SKU: NOV-CH-A-CVR-M-RD-1M<br>SKU: NOV-CH-A-CVR-M-SQ-1M |   |
| <b>Kepler™</b>  | Surface  | 2 Open End Caps   | Clear Cover, 1 m (3' 3/8")   | KEP-CH-A-CVR-C-1M   |  |
|   | Mount    | 2 Closed End Caps<br>4 Metal Mounting Clips                         | Frosted Cover, 1 m (3' 3/8")<br>Matte Cover, 1 m (3' 3/8")   | KEP-CH-A-CVR-F-1M<br>KEP-CH-A-CVR-M-1M  |   |
| <b>Note:</b> This extrusion only fits the ColorBright™ IP65 RGB Digital Pixel LED strip without connectors. |          |   |  |   |   |
| <b>Atlas™</b>   | Surface  | 2 Open End Caps   | Clear Cover, 1 m (3' 3/8")   | ATL-CH-A-CVR-C-1M   |  |
|   | Mount    | 2 Closed End Caps<br>4 Metal Mounting Clips                         | Frosted Cover, 1 m (3' 3/8")<br>Matte Cover, 1 m (3' 3/8")   | ATL-CH-A-CVR-F-1M<br>ATL-CH-A-CVR-M-1M  |   |
| <b>Titan™</b>   | Surface  | 2 Open End Caps   | Clear Cover, 1 m (3' 3/8")   | TTN-CH-A-CVR-C-1M   |  |
|   | Mount    | 2 Closed End Caps<br>4 Metal Mounting Clips<br>6 Channel Connectors | Frosted Cover, 1 m (3' 3/8")<br>Matte Cover, 1 m (3' 3/8")   | TTN-CH-A-CVR-F-1M<br>TTN-CH-A-CVR-M-1M  |   |
| <b>Calypso™</b>   | Recessed | 2 Open End Caps   | Frosted Cover, 1 m (3' 3/8")   | CAL-CH-A-CVR-F-1M   |  |
|   |          | 2 Closed End Caps<br>4 Metal Mounting Clips<br>6 Channel Connectors | Matte Cover, 1 m (3' 3/8")   | CAL-CH-A-CVR-M-1M   |   |
| <b>Ion™</b>   | Surface  | -   | -  | SKU: ION-CH-A-1M  |  |
|   | Mount    | -   | -  | -   |   |

## Compatible Aluminum Extrusions

| Name  | Covers  | End Caps  | Mounting Accessories  | Mockup  |
|---|---|---|---|---|
| <b>KLUS TAMI</b><br><b>Anodized Extrusion</b><br><b>with Translucent Cover</b><br>SKU: KL-B5390ANODA-1m     |   | <ul style="list-style-type: none"> <li>· KLUS ECO TAMI<br/>SKU: KL-20051</li> </ul>     | <ul style="list-style-type: none"> <li>· KLUS Stainless Steel Mounting Bracket<br/>SKU: KL-24190</li> </ul>                                     |    |
| <b>Note:</b> This extrusion only fits the ColorBright™ IP65 RGB Digital Pixel LED strip without connectors. |   |   |   |   |
| <b>KLUS GIZA</b><br><b>Anodized Extrusion</b><br>SKU: KL-B5556ANODA-1m                                      | <ul style="list-style-type: none"> <li>· KLUS - HS 22 Clear Cover<br/>SKU: KL-17022-1m</li> <li>· KLUS LIGER 22 Frosted Cover<br/>SKU: KL-17032-1m</li> </ul> | <ul style="list-style-type: none"> <li>· KLUS GIZA End Cap<br/>SKU: KL-24007</li> </ul> | <ul style="list-style-type: none"> <li>· KLUS GP Surface Spring<br/>SKU: KL-00293</li> <li>· KLUS Mounting Bracket<br/>SKU: KL-24143</li> </ul> |    |
| <b>Note:</b> This extrusion only fits the ColorBright™ IP65 RGB Digital Pixel LED strip without connectors. |   |   |   |   |
| <b>KLUS LIPOD</b><br><b>Anodized Extrusion</b><br>SKU: KL-B5554ANODA-1m                                     | <ul style="list-style-type: none"> <li>· KLUS LIGER 22 Frosted Cover<br/>SKU: KL-17032-1m</li> </ul>  | <ul style="list-style-type: none"> <li>· KLUS LIPOD-MET<br/>SKU: KL-24051</li> </ul>    | <ul style="list-style-type: none"> <li>· KLUS Mounting Bracket<br/>SKU: KL-24143</li> </ul>   |    |
| <b>KLUS KOPRO</b><br><b>Anodized Extrusion</b><br>SKU: KL-B6367ANODA-1m                                     | <ul style="list-style-type: none"> <li>· KLUS KOPRO L Cover<br/>SKU: KL-17092-1m</li> </ul>   | <ul style="list-style-type: none"> <li>· KLUS KOPRO L<br/>SKU: KL-24116</li> </ul>      | <ul style="list-style-type: none"> <li>· KLUS GP Surface Spring<br/>SKU: KL-00293</li> </ul>  |   |
| <b>KLUS SILER</b><br><b>Anodized Extrusion</b><br>SKU: KL-B9325ANODA-1m                                     | <ul style="list-style-type: none"> <li>· KLUS SILER Frosted Cover<br/>SKU: KL-17039-1m</li> </ul>   | <ul style="list-style-type: none"> <li>· KLUS SILER<br/>SKU: KL-24236</li> </ul>        | <ul style="list-style-type: none"> <li>· KLUS 45-STN Mounting Bracket<br/>SKU: KL-24144</li> </ul>  |  |
| <b>Note:</b> This extrusion only fits the ColorBright™ IP65 RGB Digital Pixel 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 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 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 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.
9. Do not modify the 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 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



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



**FLEXFIRELEDs**

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