

Outdoor ColorBright™ RGB Digital Pixel LED Strip Light

 **PRECAUTION:** Please read all instructions carefully before installation.

Our Outdoor (IP65) ColorBright™ RGB Digital Pixel comes with built-in pixels—small sections that can be controlled individually—for endless, vibrant color changes. Its easy-to-clean silicone cover protects it against dust and low-pressure water jets. Paired with a digital control system, it delivers stunning effects and patterns for cutting-edge outdoor stages and venues. Plus, its brightness and speed adjust easily.



Product Features

Voltage	24V DC
Wattage	3.65 W/ft (12 W/m)
Efficacy	Up to 29 lm/W
LEDs per Pixel	6 LEDs per Pixel
IC Protocol	WS2811
Beam Angle	120°
LED Pitch	7/16" (11 mm)
Strip Width	1/2" (12 mm)
Cutting Points	4" (100 mm)
Max Run Length in Series	32 ft (10 m)
PCB	3 oz Copper
LED Size	5050
Adhesive Type	3M LSE 9495
Ambient Temperature	-4°F to +113°F (-20°C to 45°C)
Operating Temperature	-4°F to 167°F (-20°C to 75°C)
Dimmable	Yes
IP Rating	IP65: Outdoor, Wet Location

7 Year
Warranty



Ordering Code

IP Protection

Brand

-

Series

-

Color

-

Voltage

-

Length

IP65

CB

PXL

RGB

24V

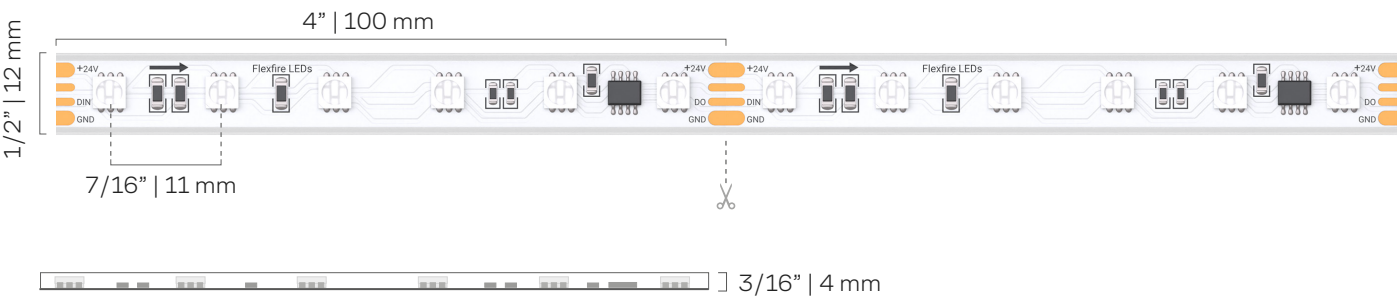
16FT

ColorBright™

Digital Pixel Series

Example: IP65-CB-PXL-RGB-24V-16FT

Dimensions



Product Specifications

Product SKU	Color*	Watts/Foot (Meter)	Lumens/Foot (Meter)	Luminous Efficacy (Lumens/Watt)	Color Wavelength
IP65-CB-PXL-RGB	RGB Pixel	3.65 W/ft (12 W/m)	107 lm/ft (350 lm/m)	29 lm/w	R: 620-630 nm G: 515-525 nm B: 465-475 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
Plug-In Power Supply Plug-and-Play Power Supply		1 - 5 ft	24V-WMPS2-1	24W	X
		6 - 21 ft	24V-DPS2-4	96W	X
Mean Well™ HLG Hardwired Power Supply		1 - 14 ft	HLG-60H-24A	60 W	X
		15 - 23 ft	HLG-100H-24A	96 W	X
		24 - 45 ft	HLG-185H-24A	185 W	
		46 - 78 ft	HLG-320H-24A	320 W	
		79 - 147 ft	HLG-600H-24A	600 W	
Mean Well™ LPV Hardwired Power Supply		1 - 13 ft	LPV-60-24	60W	X

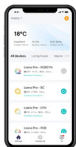
Compatible Controllers & Dimmers



Handheld Remotes



DMX Controls

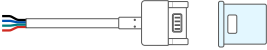


Smart Home Controllers

See Controllers and Dimmers

Compatible Strip Light Connectors

Please note that while the following connectors are compatible with our ColorBright™ RGB Digital Pixel LED Strip Light, there is a discrepancy in the wire colors between the connectors and the wires soldered directly onto the strip light. To ensure proper polarity, please follow the markings on the PCB rather than relying on the colors of the wires from the connectors. This is crucial for preventing any potential damage to the strip light or connectors. Always prioritize the PCB markings when making connections.

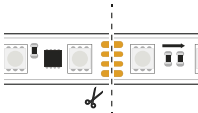
Product SKU	Diagram	Description	Wire Gauge	Amperage Limit*
IP65-GRIP-RGB-C1-10-40		Connector with 40" of wire to attach the strip to power.	22 AWG	5 Amps
IP65-GRIP-RGB-C2-10-08		Jumper connector with 8" of wire to attach two sections of strip together or go around tight corners.	22 AWG	
IP65-GRIP-RGB-C3-10-0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

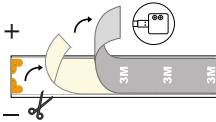
*Make sure no more than 5 amps are drawn after any solderless connector. Calculate max length of LED strip to follow the solderless connector based on an amperage draw of 0.15 A/ft (0.5 A/m) at 24 volts.



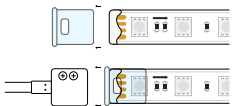
Strip Light Connectors Installation

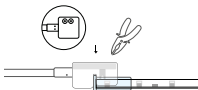
⚡ WARNING: When working with our ColorBright™ RGB Digital Pixel LED Strip Light please make all necessary connections before applying power to the LED strip. Do not cut the strips or make/remove connections while power is applied.

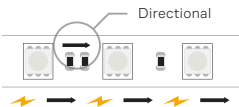
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Cut the LED strip light and the silicone sleeve on the cutting point you want to install the connector.
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Check the polarity to match the positive (+) markings together and negative (-) markings together, and remove 2" of the adhesive tape and its backer from the back of the strip light.
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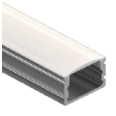
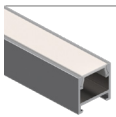
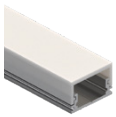
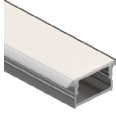
Apply silicone sealant liberally inside of the silicone sleeve until ensuring it is completely sealed.
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Slide the transparent case of your outdoor IP65 grip connector into the sleeve with the window of the case facing upward, until making sure that the strip is making proper contact.
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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.
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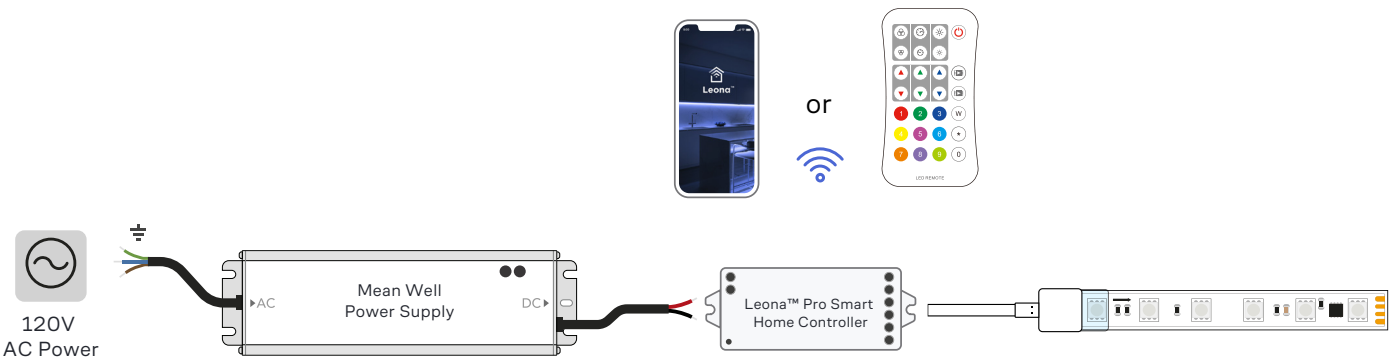
After making all connections, you will be ready to apply power. Please keep in mind that this LED strip light is directional, so the data can only flow from one direction. There are arrows printed on the PCB indicating the correct direction.

Compatible Aluminum Channel Kits

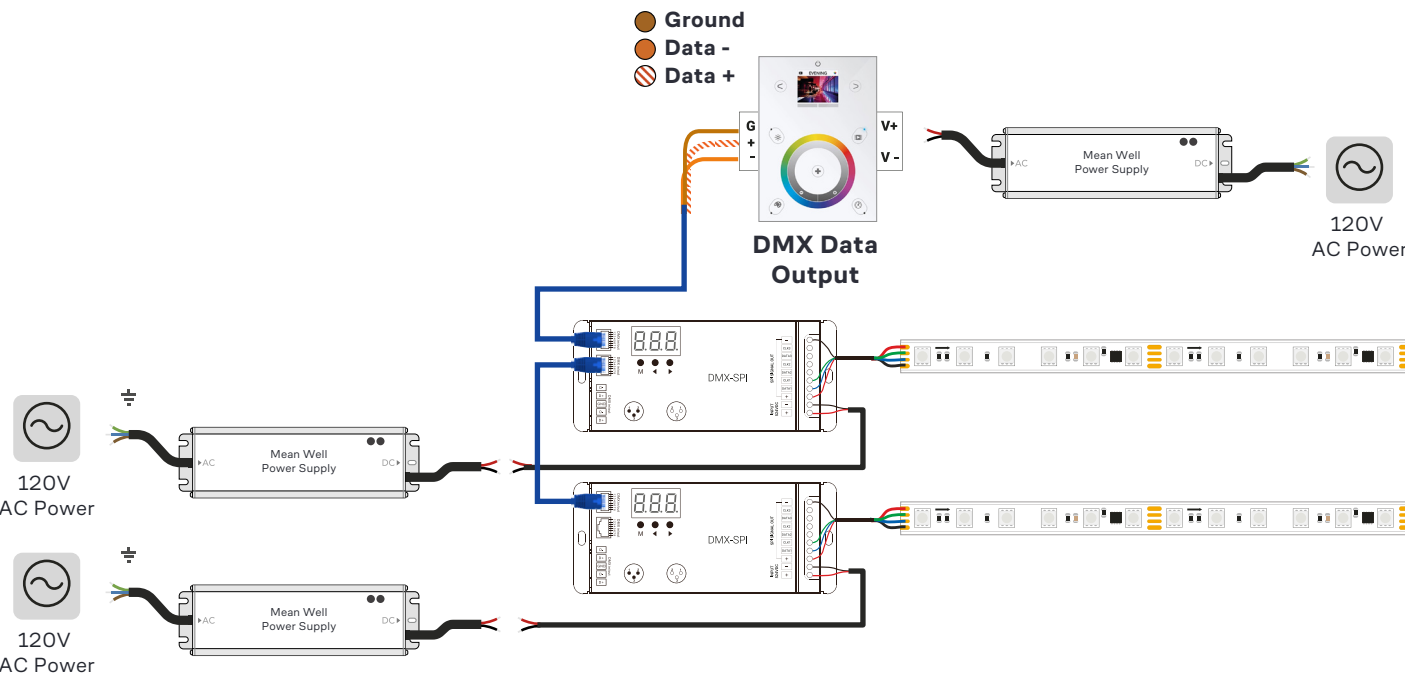
Diagram	Name	Type	Channel Kit Description	Kit SKU	Included
	Ion™	 Surface Mount	1 Meter Ion Channel	ION-CH-A-1M	
	Gemini™	 Surface Mount	1 Meter Channel + Clear Cover Kit 2 Meter Channel + Clear Cover Kit 1 Meter Channel + Frosted Cover Kit 2 Meter Channel + Frosted Cover Kit 1 Meter Channel + Matte Cover Kit 2 Meter Channel + Matte Cover Kit Note: Compatible only without connectors.	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
	Kepler™	 Surface Mount	1 Meter Channel + Clear Cover Kit 1 Meter Channel + Frosted Cover Kit 1 Meter Channel + Matte Cover Kit Note: Compatible only without connectors.	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
	Laika™	 Surface Mount	1 Meter Channel + Clear Cover Kit 1 Meter Channel + Frosted Cover Kit 2 Meter Channel + Frosted Cover Kit Note: Compatible only without connectors.	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
	Titan™	 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
	Atlas™	 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 Note: Compatible only without connectors.	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
	Calypso™	 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
	Cassini™	 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 Note: Compatible only without connectors.	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

Wiring Diagrams

In-Line Dimming



DMX



Safety And Disclosures

- 01.** Installation must comply with local and national electrical codes. A qualified, licensed electrician should install your strips for safety and proper installation.
- 02.** To meet UL requirements, only install with a Class 2 DC Constant Voltage LED driver.
- 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 with the majority of the product being unsupported. Allowing the product to be suspended or dangling while installing may cause damage to the PCB due to the weight of the strip.
- 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 close 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 the wires and cause a fire.
- 12.** Do not modify the product beyond the instructions, or the 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, we cannot guarantee that existing installed fixtures will match subsequent orders or replacements regarding product appearance, CCT, or lumen output due to changes in technology and phosphors over time.

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.

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.



www.flexfireleds.com

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