FLEXFIRELEDs

PRODUCT DATA SHEET

UltraBright™
High CRI Series

7 Year Warranty

RoHS COMPLIANT

CE

c UL us LISTED (LOW VOLTAGE LUMINAIRE) E362522

Description

Not all light is created equal. One may assume just because the color temperature, wattage, and LED size is the same between two different light sources they are equal. That assumption is not necessarily true. There are many factors determining quality of light. Specifically in this case, a main factor is how well colors are rendered under the light source. The Color Rendering Index (CRI), also known by some as color accuracy, is a term of measurement of how natural the light given off by a source looks in comparison to the sun. Have you ever purchased a red towel or dress in the store and when you try it on at home or wear it outside in the sun it looks different? This is because the CRI is different between the two light sources. High CRI LEDs will show an object's true pure and vibrant colors. The High CRI Series measures over 93 CRI as well as high Gamut Index and Fidelity Index, making it a superior lighting source for near perfect color rendering and saturation.

Product Features

- High CRI of 90+
- Highest Brightness - Up to 456 Lumen/ft (1,496/Meter)
- Fully dimmable
- Highest quality components and premium packaged 3020 LEDs
- Single BIN LED selection to ensure color consistency (3-Step MacAdam)
- Thermally Resistant 3M VHB 4930 adhesive for long lasting bond
- 120° Beam Angle
- Efficiency up to 88 lm/W
- Only 3/8" (10mm) strip width
- Short LED pitch of 5/16" (8mm)
- 12V DC Input (24V available by special order)
- Can be cut every 1" (25.4mm)
- 36 LEDs / Foot (120 / Meter)
- Thick double layer 2 oz copper PCB for excellent thermal management
- Operating Temperature -4°F to +104°F (-20°C to 40°C)
- Maximum Length in Series 16ft 5in (5 Meters)

Product Specific 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)
UB-CRI-30K	3000K	5.8 W/ft 19 W/m	402 lm/ft (1,319 lm/m)	69 lm/W	93	98.5	90.2
UB-CRI-42K	4200K	5.8 W/ft 19 W/m	450 lm/ft (1,476 lm/m)	87 lm/W	93	97.2	88.8
UB-CRI-62K	6200K	5.8 W/ft 19 W/m	456 lm/ft (1,497 lm/m)	88 lm/W	94	97.4	88.5

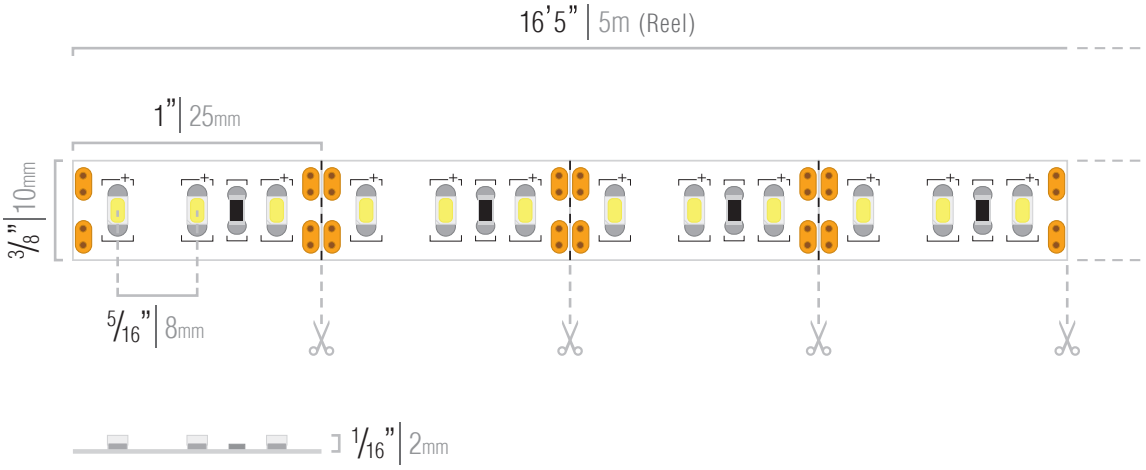
*CCT may be +/-100K but always ordered from same bin and will present no noticeable differences perceived by the human eye.

Ordering Code

INDOOR

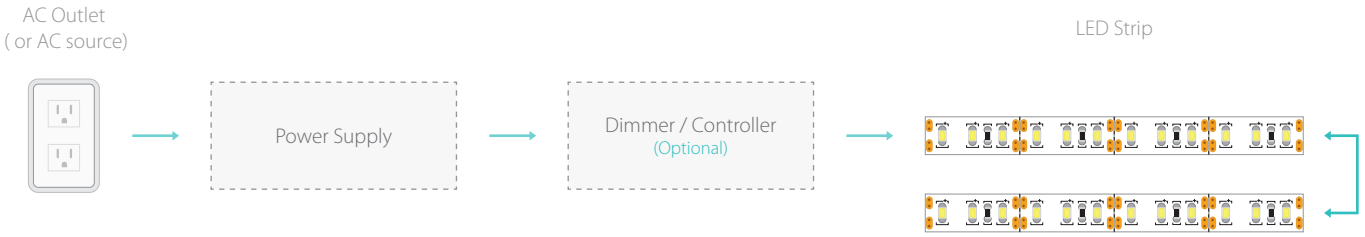
Brand	Series	CCT	Voltage	Length
UB - UltraBright	CRI - High CRI	24K - 2400K	12V	01 FT - Under 16 ft
		27K - 2700K	24V - (Special)	16 FT - 16 ft Reel
		30K - 3000K		
		42K - 4200K		
		62K - 6200K		

Dimensions



Example Installation and Layout

IN SERIES



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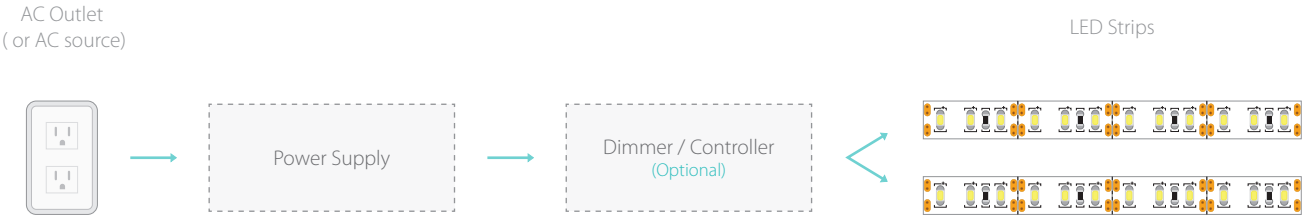
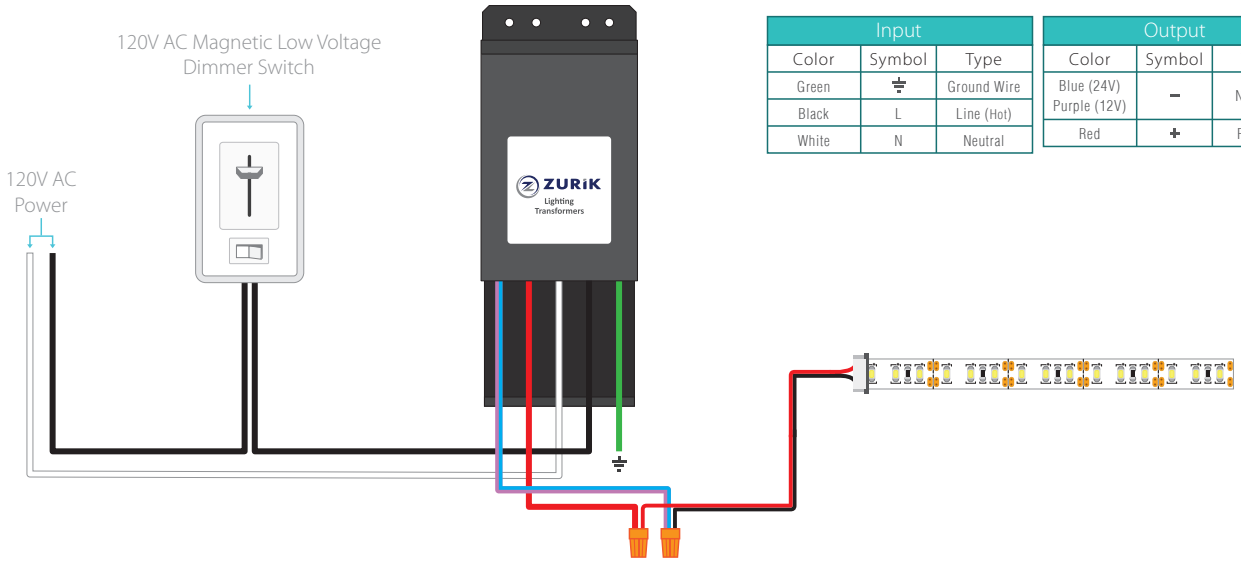


Dimming Options

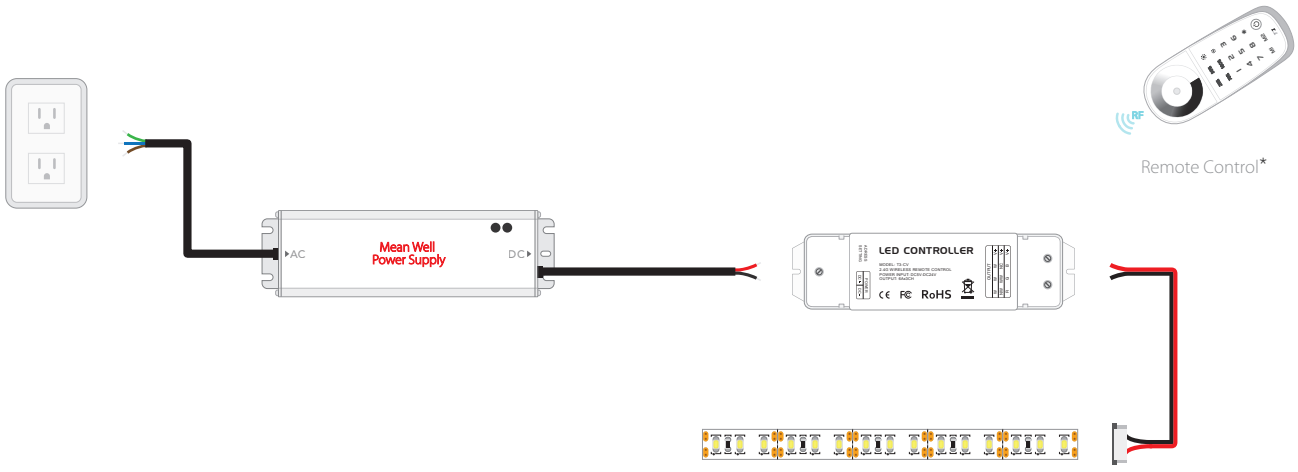
Lutron Style Wall Dimmer



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

Output		
Color	Symbol	Type
Blue (24V) Purple (12V)	–	Negative
Red	+	Positive

In-Line Dimming



Remote Control (SKU: SC-MZ-CTRL) can be paired to 8 total receivers. Multiple remotes cannot be paired to a single receiver (max 1 remote per receiver).

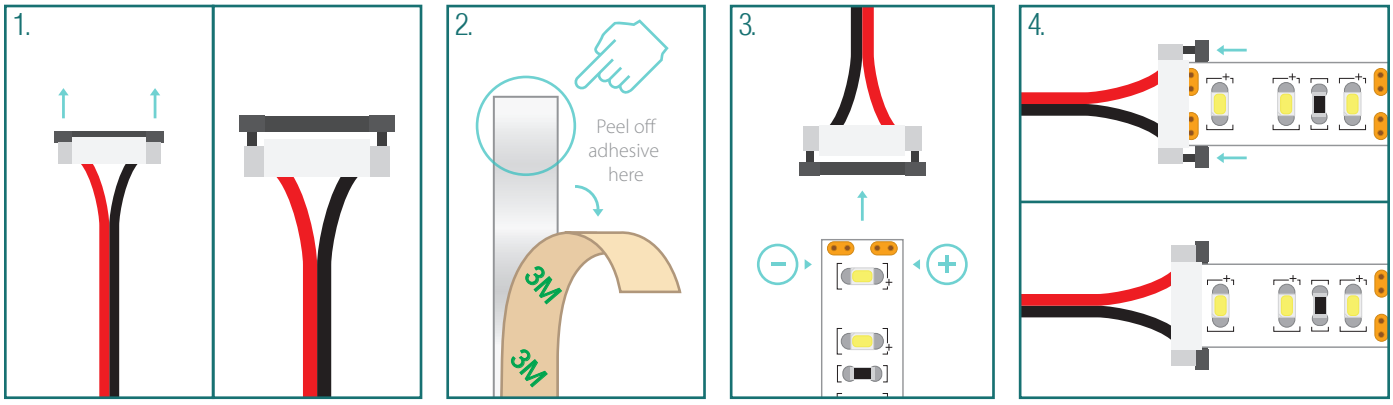
Strip Light Connectors

SKU	Description	Wire Gauge	Amp Limit**	Mockup
UB-C1*	Attaches LED strip directly to a Power Supply/Driver, low voltage control or DC source.	22 AWG	5 Amps	
UB-C2*	Attaches two sections of LED strip together. Wire lead allows for turns around tight corners.	22 AWG		
UB-C3*	Attaches two sections of LED strip together in a continuous run.	-		

* Calculate max length of LED strip to follow the solderless connector based on an amperage draw of 0.48 amps per foot (1.59 A/m) at 12 volts, or at 24 volts use 0.24 A/ft (0.79 A/m).

** The max continuous run of the High CRI series LED strip is 16 feet (5 meters). Be sure no more than 5 amps is drawn after any solderless connector.

Solderless Connection Guide

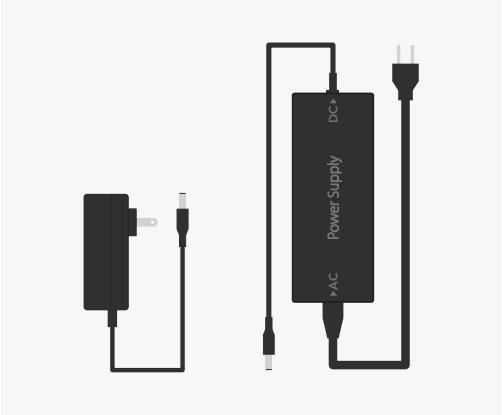


1. The solderless connectors have a plastic housing with a small black tray on the underside. Pull the black plastic tray out until the tray stops. The tray will only pull out approximately 2-3mm, dont try to pull it out farther. *See Diagram 1*
2. Remove 1/4" of 3M adhesive tape on the back from the end of the strip that you want to connect. It must be removed to allow it to fit properly with the solderless connector. *See Diagram 2*
3. Slide the connector into the end of the LED strip by holding the tray out as you slide it in. Make sure the tray does not move into a locked position until the connector is all the way in. *See Diagram 3*
4. Once the LED strip is inserted into the solderless connector, close the black tray underneath by pinching the wings on the side of the connector (inward, toward the connector's housing). *See Diagram 4*

NOTE: Soldering is the preferred method. If you need further assistance, please download our Solderless Connector Installation Guide from our website

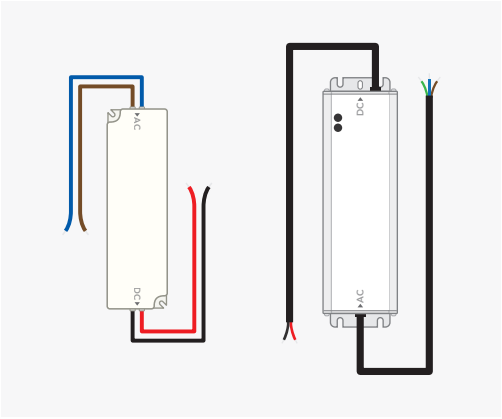
Compatible Drivers

Wall Mounted Power Supply / Desktop Power Supply



LED Strip Length	SKU
1 ft	12V-WMPS-1
2 - 4 ft	12V-DPS-2
4 - 7 ft	12V-DPS-4
6 - 10 ft	12V-DPS-6
8 - 14 ft	12V-DPS-8

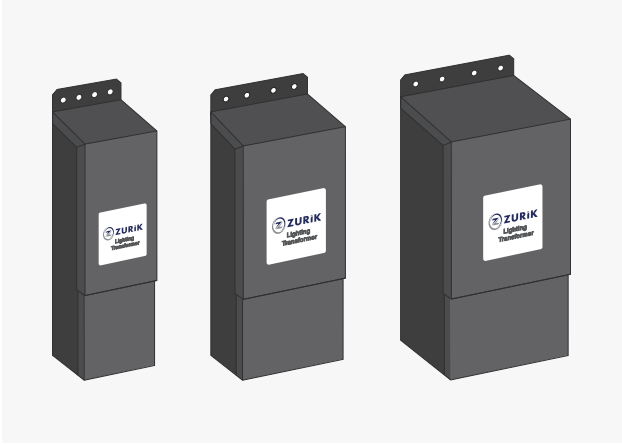
Mean Well



LED Strip Length	SKU
2 - 3 ft	LPV-20-12
3 - 5 ft	LPV-35-12
4 - 6 ft	HLG-40H-12A
5 - 8 ft	LPV-60-12
5 - 8 ft	HLG-80H-12A
5 - 8 ft	HLG-80H-12BL
8 - 14 ft	LPV-100-12
10 - 17 ft	HLG-120H-12A

LED Strip Length	SKU
13 - 21 ft	HLG-150H-12A
17 - 27 ft	HLG-240H-12A
23 - 38 ft	HLG-320H-12A
39 - 70 ft	HLG-600H-12A

Zurik



LED Strip Length	SKU
2 - 3 ft	ZRK-20-12VDC
4 - 6 ft	ZRK-40-12VDC
5 - 8 ft	ZRK-60-12VDC
8 - 14 ft	ZRK-100-12VDC
13 - 21 ft	ZRK-150-12VDC
17 - 28 ft	ZRK-200-12VDC
22 - 35 ft	ZRK-250-12VDC
26 - 44 ft	ZRK-300-12VDC

Compatible Aluminum Extrusions

KLUS GIP Anodized Extrusion (SKU: KL-B4574ANODA-1m)

Covers
- G-L Frosted Cover (SKU: KL-00413-1m)

End Caps
- GIP - L End Cap without Wire Hole (SKU: KL-00306)

Mounting Accessories
- GP Surface Spring (SKU: KL-00293)
  - minimum surface thickness 10mm (3/8")
- Mounting Bracket (SKU: KL-24143)

GIZA Anodized Extrusion (SKU: KL-B5556ANODA-1m)

Covers
- HS 22 Clear Cover (SKU: KL-17022-1m)
- HS 22 Frosted Cover (SKU: KL-17011-1m)

End Caps
- GIZA End Cap without Wire Hole (SKU: KL-24007)

Mounting Accessories
- GP Surface Spring (SKU: KL-00293)
  - minimum surface thickness 10mm (3/8")
- Mounting Bracket (SKU: KL-24143)

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 environment where excessive heat may occur.
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 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 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 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.