**FLEXFIRELEDs**

UltraBright™
# Industrial Series
# LED Strip Light

Product Data Sheet

⚠️ **Please read all instructions carefully before installation.**

## Description

The UltraBright™ Industrial Series is one of the brightest LED strips and continues to redefine the limits of LED strip lighting. With an extraordinary luminosity that outshines the rest, it boasts an extremely high output of 1019 lm/ft. Its short LED pitch guarantees consistently bright and uniform lines of light, eliminating any shadows or unevenness while its high CRI up to 94 helps deliver accurate color rendering. This strip is made to surpass all expectations and it has become a popular choice amongst our high-end commercial and OEM clients, making this strip the gold standard for light quality and energy-efficiency.

**7** Year Warranty

CE

RoHS COMPLIANT

c UL us
LISTED
(LOW VOLTAGE LUMINAIRE)
E362522

## Product Features

| | |
|---|---|
| CRI | High CRI of up to 94 |
| R9 and R13 Values | High R9 (93) and R13 (97) |
| Voltage | 24V DC Input |
| Brightness | Up to 1019 lm/ft (3344 lm/m) |
| Efficacy | Up to 147 lm/W |
| LEDs/Foot | 36 LEDs/ft (120/m) |
| Beam Angle | 120° Beam Angle |
| LED Pitch | 5/16" (8 mm) |
| Strip Width | 3/8" (10 mm) |
| Cutting Points | 2 5/8" (66 mm) |
| Max Run Length in Series | 19 ft 8 in (6 m) |
| PCB | 4 oz copper |
| LED Size | 2835 |
| Adhesive Type | 3M VHB 4930 tape (IP20) |
| Ambient Temp | -4°F to 113°F (-20°C to 45°C) |
| Operating Temp | -4°F to 149°F (-20°C to 65°C) |
| Dimmable | Yes |
| IP Rating | IP20 |

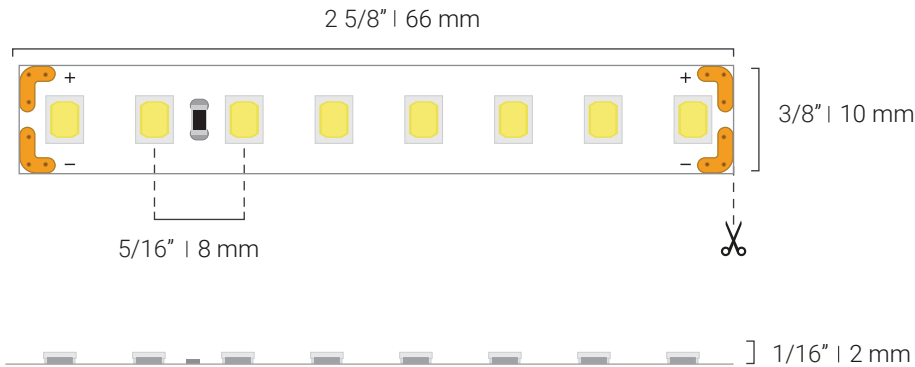## Product Specifications

| 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) |
|---|---|---|---|---|---|---|---|---|
| UB-IS-30K90C | 3000K | 6.6 W/ft (21.7 W/m) | 930 lm/ft (3051 lm/m) | 135 lm/W | 93 | 100 | 92 | 93 |
| UB-IS-35K90C | 3500K | 6.6 W/ft (21.7 W/m) | 1019 lm/ft (3344 lm/m) | 147 lm/W | 94 | 99 | 90 | 95 |
| UB-IS-40K90C | 4000K | 6.6 W/ft (21.7 W/m) | 1007 lm/ft (3305 lm/m) | 144 lm/W | 94 | 98 | 89 | 95 |
| UB-IS-50K90C | 5000K | 6.6 W/ft (21.7 W/m) | 1002 lm/ft (3288 lm/m) | 144 lm/W | 94 | 97 | 87 | 96 |
| UB-IS-62K90C | 6200K | 6.6 W/ft (21.7 W/m) | 991 lm/ft (3251 lm/m) | 144 lm/W | 94 | 98 | 88 | 95 |

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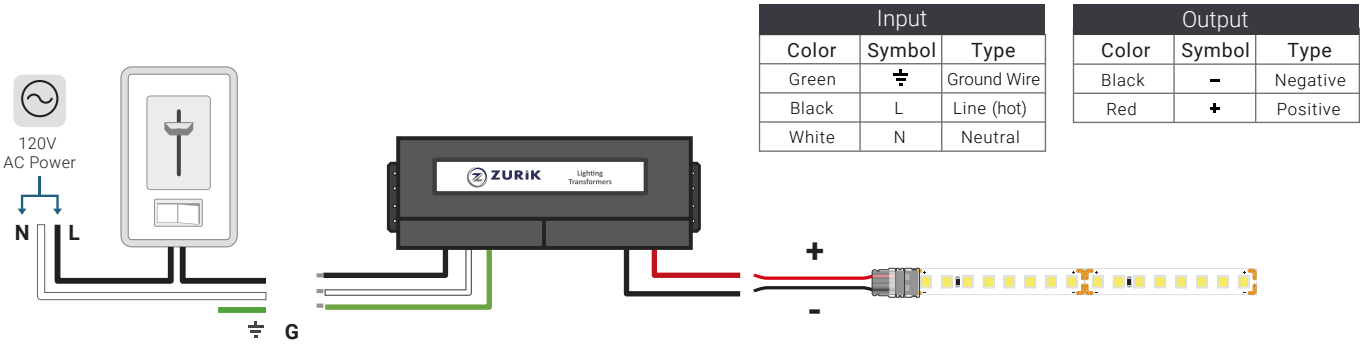
## Ordering Code

| Brand | | Series | | CCT | | Voltage | | Length |
|---|---|---|---|---|---|---|---|---|
| **UB** | - | **IS** | - | ▼ | - | ▼ | - | ▼ |
| UltraBright™ | | Industrial Series | | **30K90C -** 3000K/90+ CRI<br>**35K90C -** 3500K/90+ CRI<br>**40K90C -** 4000K/90+ CRI<br>**50K90C -** 5000K/90+ CRI | | **12V**<br>**24V** | | **16FT -** 16 ft Reel<br>**98FT -** 98 ft Reel |

## Dimensions



2 5/8" | 66 mm

3/8" | 10 mm

5/16" | 8 mm

1/16" | 2 mm

# Dimming Options

## Lutron Style Wall Dimming



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

| Output | | |
|---|---|---|
| Color | Symbol | Type |
| Black | – | Negative |
| Red | + | Positive |

120V
AC Power

N   L

⏚  G

## In-Line Dimming



120V
AC Power

Mean Well
Power Supply

AC                    DC

Leona™ Smart
Home Controller

+

-
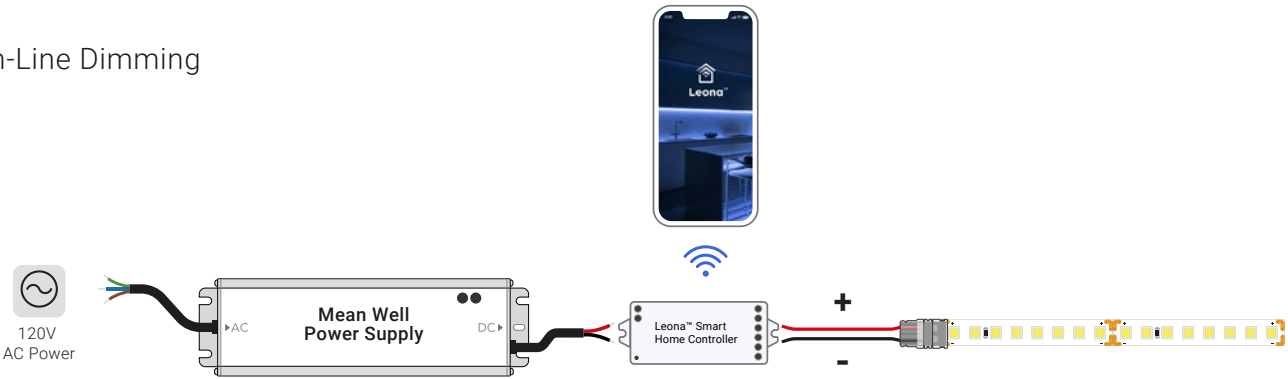
# Strip Light Connectors

| Product SKU | Description | Wire Gauge | Amperage Limit* | Diagram |
|---|---|---|---|---|
| GRIP-SC-C1-10-0 | Connector with no wire to attach the strip to power. | 22 AWG | | |
| GRIP-SC-C1-10-12<br>GRIP-SC-C1-10-36 | Connector with 12" or 36" of wire to attach the strip to power. | 22 AWG | | |
| GRIP-SC-C2-10-06 | Jumper connector with 6" of wire to attach two sections of strip together or go around tight corners. | 22 AWG | 5 Amps | |
| GRIP-SC-C3-10-0 | Jumper connector with no wire to attach sections of strip together in a continuous run. | - | | |
| GRIP-SC-CNR-10-5 | Corner connector for 90 degree turns. | - | | |

* Be sure no more than 5 amps is drawn after any solderless connector. Calculate max length of LED strip to follow the solderless connector based on an amperage draw of 0 0.36 A/ft (1.2 A/m) at 12 volts and 0.18 A/ft (0.6 A/m) at 24 volts.
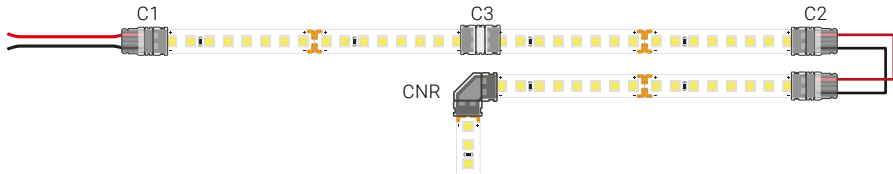
# Strip Light Connectors Installation

**01.**

Peel off adhesive here

3M
3M
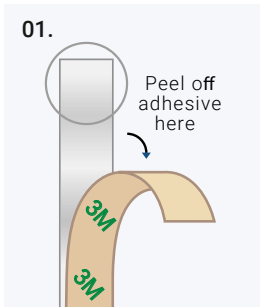
Remove 1/4" of 3M adhesive tape on the back from the end of the strip that you want to connect. It must be removed to allow it to fit properly with the solderless connector.

**02.**
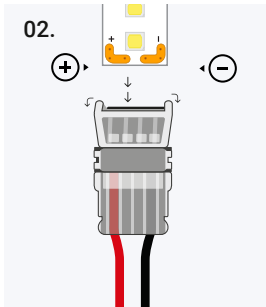
Check the polarity of the strip to match the positive (+) markings together and negative (-) markings together. If you accidentally close the connector before you're ready, use a small flathead screwdriver to pry the top back open.
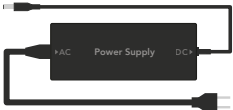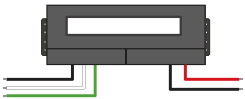
**03.**
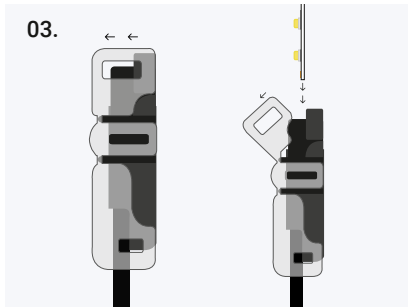
Open the top of the grip connector and insert the LED strip inside. Make sure the LED strip is facing up towards the translucent top and the solder pads are directly above the small hooks on the connector.
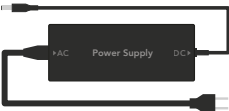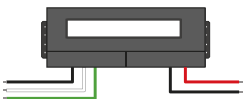
**04.**
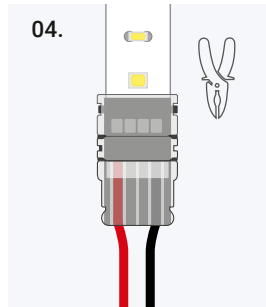
Once everything is in order, use pliers to close and lock the connector. You'll hear a "click" sound when it is properly closed.

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

# Compatible Drivers (12V)

| | Power Supply | LED Strip Length | Product SKU | Watts | Class 2 | Diagram |
|---|---|---|---|---|---|---|
| **Non-dimmable** | **Plug-In Power Supply** | 1 ft | 12V-WMPS-1 | 12W | X |  |
| | | 2 - 5 ft | 12V-DPS-4 | 48W | X | |
| | | 6 - 8 ft | 12V-DPS2-6 | 72W | | |
| | | 9 - 11 ft | 12V-DPS2-8 | 96W | | |
| | **Mean Well™ HLG** | 1 - 8 ft | HLG-80H-12A | 60W | X |  |
| | | 9 - 16 ft | HLG-120H-12A | 120W | | |
| | | 17 - 36 ft | HLG-320H-12A | 265W | | |
| **Dimmable** | **Zurik® Universal** | 1 - 4 ft | ZRK-UNV-30W-12VDC | 30W | X |  |
| | | 5 - 8 ft | ZRK-UNV-60W-12VDC | 60W | X | |
| | | 9 - 16 ft | ZRK-UNV-120W-12VDC | 120W | | |
| | | 17 - 27 ft | ZRK-UNV-200W-12VDC | 200W | | |
| | | 28 - 40 ft | ZRK-UNV-300W-12VDC | 300W | | |
| | | 1 - 40 ft (up to 8 ft/output) | ZRK-UNV-C300W-12VDC | 300W | X | |

# Compatible Drivers (24V)

| | Power Supply | LED Strip Length | Product SKU | Watts | Class 2 | Diagram |
|---|---|---|---|---|---|---|
| **Non-dimmable** | **Plug-In Power Supply** | 1 - 2 ft | 24V-WMPS2-1 | 24 W | X | |
| | | 3 - 7 ft | 24V-DPS2-2.5 | 60 W | X | |
| | | 8 - 11 ft | 24V-DPS2-4 | 96 W | X | |
| | | 12 - 14 ft | 24V-DPS2-5 | 120 W | | |
| | **Mean Well™ HLG** | 1 - 8 ft | HLG-60H-24A | 60 W | X | |
| | | 9 - 13 ft | HLG-100H-24A | 96 W | X | |
| | | 14 - 25 ft | HLG-185H-24A | 185 W | | |
| | | 26 - 43 ft | HLG-320H-24A | 320 W | | |
| | | 44 - 81 ft | HLG-600H-24A | 600 W | | |
| | **Mean Well™ LPV** | 1 - 7 ft | LPV-60-24 | 60W | X | |
| **Dimmable** | **Zurik® EMLV** | 1 - 4 ft | ZRK-EMLV2-30W-24VDC | 30W | X | |
| | | 5 - 8 ft | ZRK-EMLV2-60W-24VDC | 60W | X | |
| | **Zurik® Universal** | 1 - 4 ft | ZRK-UNV-30W-24VDC | 30 W | X | |
| | | 5 - 8 ft | ZRK-UNV-60W-24VDC | 60 W | X | |
| | | 9 - 13 ft | ZRK-UNV-96W-24VDC | 96 W | X | |
| | | 14 - 16 ft | ZRK-UNV-120W-24VDC | 120 W | | |
| | | 17 - 27 ft | ZRK-UNV-200W-24VDC | 200 W | | |
| | | 28 - 40 ft | ZRK-UNV-300W-24VDC | 300 W | | |
| | | 1 - 26 ft (13ft/output) | ZRK-UNV-C192W-24VDC | 192W | X | |
| | | 27 - 52 ft (13ft/output) | ZRK-UNV-C384W-24VDC | 384W | X | |
| | **Lutron® Hi-Lume™ Premier** | 1 - 13 ft | L3D0-96W24V-U | 96W | X | |

**0.1% Constant Voltage Driver**

**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 | Included Accessories | Covers | Kit SKU | Mockup |
|------|------|---------------------|--------|---------|--------|
| **Ion™** | Surface Mount | - | - | ION-CH-A-1M | |
| **Atlas™** | Angled Surface Mount | 2 Open End Caps<br>2 Closed End Caps<br>4 Metal Mounting Clips | Clear Cover<br>Frosted Cover<br>Matte Cover | ATL-CH-A-CVR-C-1M<br>ATL-CH-A-CVR-F-1M<br>ATL-CH-A-CVR-M-1M | |
| **Gemini™** | Surface Mount | 2 Open End Caps<br>2 Closed End Caps<br>4 Metal Mounting Clips | Clear Cover<br>Frosted Cover<br>Matte Cover | GEM-CH-A-CVR-C-1M<br>GEM-CH-A-CVR-F-1M<br>GEM-CH-A-CVR-M-1M | |
| **Kepler™** | Surface Mount | 2 Open End Caps<br>2 Closed End Caps<br>4 Metal Mounting Clips | Clear Cover<br>Frosted Cover<br>Matte Cover | KEP-CH-A-CVR-C-1M<br>KEP-CH-A-CVR-F-1M<br>KEP-CH-A-CVR-M-1M | |
| | | Note: This extrusion only fits the Industrial™ Series Series LED strip without connectors. | | | |
| **Laika™** | Surface Mount | 2 Open End Caps<br>2 Closed End Caps<br>4 Metal Mounting Clips | Clear Cover<br>Frosted Cover<br>Matte Cover | LAI-CH-A-CVR-C-1M<br>LAI-CH-A-CVR-F-1M | |
| | | Note: This extrusion only fits the Industrial™ Series Series LED strip without connectors. | | | |
| **Titan™** | Surface Mount | 2 Open End Caps<br>2 Closed End Caps<br>4 Metal Mounting Clips | Clear Cover<br>Frosted Cover<br>Matte Cover | TTN-CH-A-CVR-C-1M<br>TTN-CH-A-CVR-F-1M<br>TTN-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 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 LED 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 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: Connecting LED products to the wrong output voltage; Improper connection of power, 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 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**