Welcome to HitLights LED Strip Lighting!

Our thin and flexible LED lighting can be used in nearly any space to create wonderful accents of stylish light just about anywhere! Our high-quality LED chips provide exceptional light output, color accuracy, and brightness; and will be sure to establish a comfortable lighting effect for your project! Because they are fully dimmable and run on very low amounts of power, our LED light strips are designed to be an extremely versatile lighting solution.

Luma5 Series LED Light Strips

SKU#LS3528_XX

Common uses for our LED Light Strips include bright task lighting and accent lighting:

- Indirect lighting for recessed coves and molding
- Display cases, shelves, etc.
- Over, inside, and under cabinet areas
- Perimeter lighting for counters and shelves
- Custom lighting for artwork and other objects

Please read these installation tips before you begin.

HitLights LED Light Strips are a very modern and new lighting technology. In order to use the lights easily and effectively, these tips will help show you how to cut, wire, and connect LED Strips before installation.

In general, LED Strip Lights prove an easy DIY task for most customers, but basic wiring skills such as stripping, splicing, extending, and connecting wires are usually required for custom installations.

This product operates on low-voltage 12V DC power. Your power demand will depend on the length of strip you use, but Luma5 LED Light Strips require roughly 1.5 Watts/ft. Luma5 HD Series LED Light Strips require roughly 3 Watts/ft. Suitable 12V DC Power Sources are sold separately.

Planning Your Project

LED Light strips are typically used for indirect lighting applications, and shouldn't shine directly into your eyes. Lighting effects from the light strip will depend on their location, mounting angle, and the color of the surface they illuminate. For this reason, be sure to lay out the strip and test the mounting location before permanently mounting your strip!

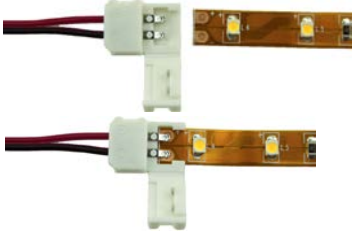
Things to Consider

- Where will you locate the 12V DC power supply?
- How will the LED Light Strip be turned on and off?
- How will you mount or hide wiring to your LED light strip?
    - HitLights sells mounting clips and upgraded adhesives separately

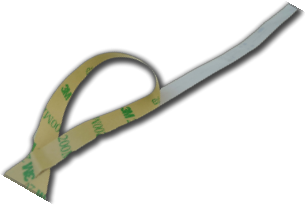
Basic Steps for Installing this LED Strip

*Note that most LED Light Strips have different power connections at each end of the spool: The beginning of the strip is equipped with a standard female barrel connector to easily plug the strip in to most 12V DC power sources, and the end of the strip includes simple bare-wire pigtails for wiring into current low-voltage DC power systems.

Cut the strip to the length you need: Each strip can be cut after every 3 LED chips, as indicated by our cut lines.



Make Stress-Free Connections: Use our single-colored LED light strip accessories to join strips, add power lead wires, and more!



Expose the 3M Adhesive Backing to stick your LED strip to a clean, smooth surface*. HitLights also offers stronger mounting tape and mounting clips online!

*IP 67 (Waterproof) LED Light Strips do not include adhesive backing, and require mounting clips.

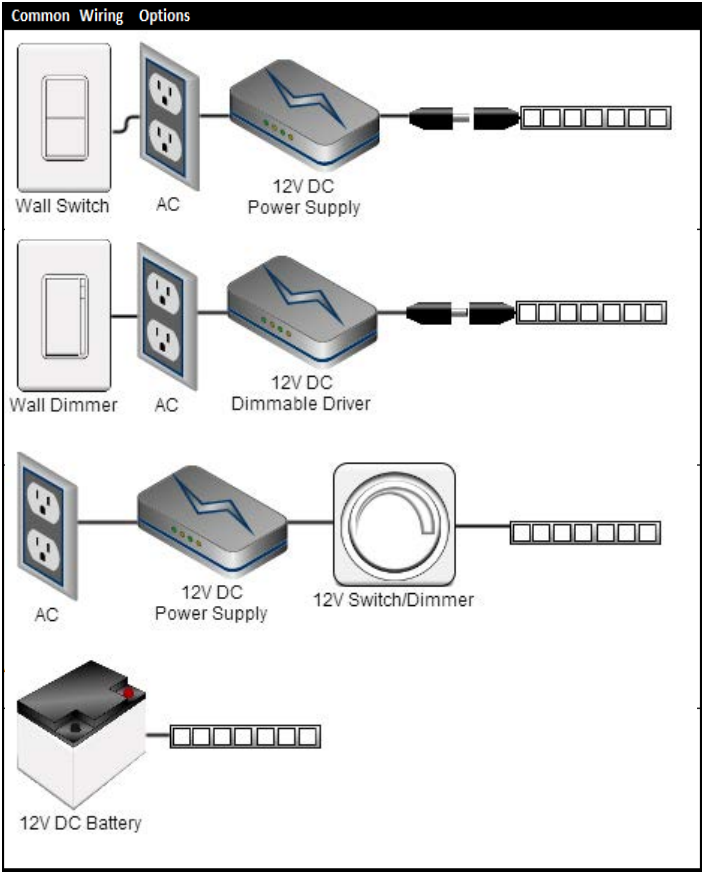
Important Notices and Concerns

- This product must only be powered by a 12V DC power source.
- Do not power the LED Light Strips while they are still wrapped around the spool.
- Unplug your power source when cutting LED Light Strips.
- Pay close attention to the polarity of all connections: match positive to (+) and negative to (-).
- Be sure to follow local and national electrical codes for low voltage Class 2 power units.
    - If you cannot wire this product on your own, please contact a professional.

Steps for More Advanced Installations

12V DC Voltage Drop: 12V DC power is naturally subject to "voltage drop." Along the length of 12V power wires through the lighting, LED chips may begin to dim after 600 LED chips of this LED Light Strip. This can be corrected with the use of single-color amplifiers, which are sold separately.

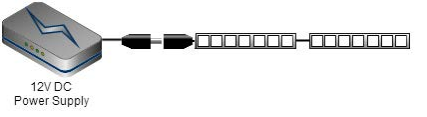
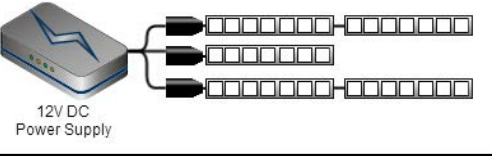
Switches and Dimming:



Power Supply Location:

You can run 2 spools of Luma5 Series LED's without extra components.

You can run 1 spool of Luma5 HD Series LED's without extra components.

Common Layouts	
Straight Run	
Up to 600 LED Chips of this LED Light Strip can be connected in a straight run. For long runs, another adapter and an amplifier are required.	
Centered Power/ Power Loops	
Installing a stronger power source in the middle of your installation will allow you to power up to 4 LED Light Strips in a straight run. For longer runs, another adapter and/or an amplifier may be required.	
Array	
An array uses multiple power leads to create parallel connections. It is important to ensure that the total length of LED light does not overload your power source.	

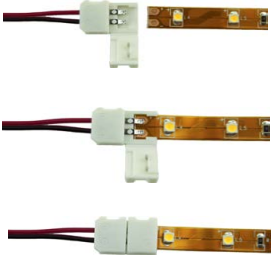
Cutting and Wiring Your LED Light Strip

Cut The Strip with Scissors: This LED Light Strip can be cut after every 3 LED chips. Cut directly on the lines in between the strip's copper connection ports. Solder joints are cut positions that have been soldered together in manufacturing. If you intend to use clasp connectors with the strip, we recommend avoiding cutting along solder joints. However, if you plan to solder to the light strip, these joints will make connecting easier!

Be sure to maintain polarity throughout your power wires!
Our LED Light Strips easily identify polarity by marking the positive side with a (+) and the negative side with a (-).

Strip-to-Strip Connectors: We offer 3 different strip-to-strip connector types that will utilize connections to snap onto your LED light strip. These connectors make it easy to attach an LED Light Strip.

To use an LED Light Strip with a Clasp Connector:



- Pry open the end of your connector that aligns with your strip's polarity.
- Slowly slide the strip into the clasp connector as shown left.
- Align the strip's copper ports under the clasp's connection pins.
- Clasp the connector closed.
- **If the LED strip does not light up or flickers, repeat the process.**

Gapless Connectors join cut LED Light Strip segments together end-to-end to create a virtually seamless connection.

Any-Angle Connectors join cut LED Light Strip segments together with a bit of wire in between, to allow you to bend the strips at sharp angles. They can also be cut in half to create power lead wires!

Extension Connectors work like any-angle connectors, but come with extra wiring in between for longer breaks in your LED light run.

Technical Details

SKU	LS3528_XX	**Width**	8 mm
Colors	Cool White, Blue, Green, Red, Warm White	**No. of LED's**	300-600
Color Temperature	Variable	**Beam Angle**	120
Input Voltage	12V DC	**IP Rating**	IP 30, IP 65, IP 67
Current Load	2-4 Amp	**Finish**	Copper, White
Power	1.5-3 W/Ft	**Length**	16.4 Ft
Lumens	Variable	**Warranty**	2 Year
LED Type	SMD 3528		