



TRACK LIGHTING INSTALL GUIDE



SHL Soffit Lighting Kits

- This system was developed to be a DIY friendly version of the growingly popular permanent soffit or holiday track lighting systems out there.
- Everything in this system is certified and meets electrical codes required in Canada and many places in the USA that regulate permanent lighting applications like these.
- These systems by most laws, can be installed by the homeowner on their own property or be installed by a certified electrician.
- Check to see if a permit is required in your area.

The Brains Behind The Lights

Our 4-Channel 12/24V controller with fused outputs allows you to safely control your LED lights. Can also be used as a 2-channel controller with power injection when you combine it with our power injection cables (Sold separately). Other features include.

- ESP 32 16Mb chip pre flashed with WLED
- Long range Wifi antenna
- Extra custom presets preloaded
- 100% waterproof enclosure
- ETL certified
- A 7.5amp fuse is used for each output. The controller is designed to handle 10amps combined between LED output 1&2 and 10amps combined between LED outputs 3&4.



What does 4-channels mean?

- 4 channel means that each output on the controller is on its own channel and can be controlled independently from the other outputs on the controller.
- Within the app you can set it up so that each output does something different.
- This is great if you have a 2-story house and want something different happening on the second story, or if you have some lights you want on every night but don't want lights in another location to come on.
- Or you can run strip lights around your stair railings on one output and your homes soffit lighting off the 3 other outputs.
- It just adds more flexibility
- For most people having all outputs doing the same thing works just fine, and most people with a standard house might only use 1 or 2 of the outputs.



Power supply / controller connection and placement

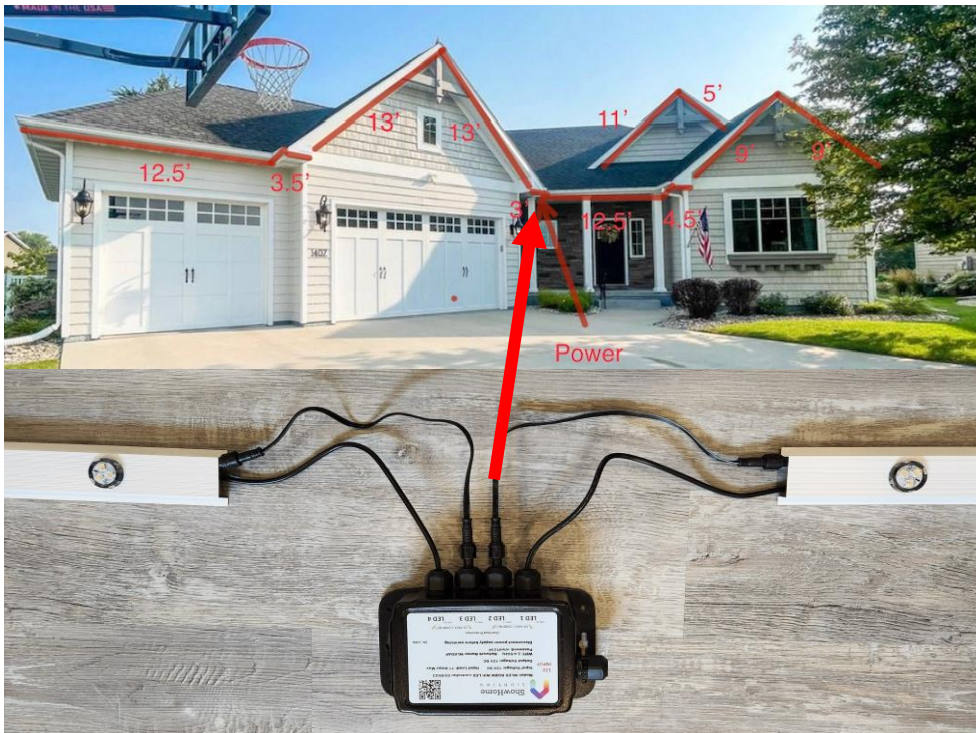


- Each 300w power supply comes with 20ft of cable on the 24v side and can be cut down to length based on your power supply/controller location.
- In this example where the plugin is at ground level you can place the power supply at ground level and run the 24V cable up to the controller which can be screwed to the underside of the soffit.
- If you have a plugin in the soffit of your house, you can cut the 24v wire short and put the controller and power supply right close together.
- Refer to the [power injection guide](#) for more info on power injection



Controller Location Tips

If you have a house with only one plugin in the middle of your house, then you can use 2 outputs on the controller running left and right and use [power injection](#) on the runs that are over 50ft.



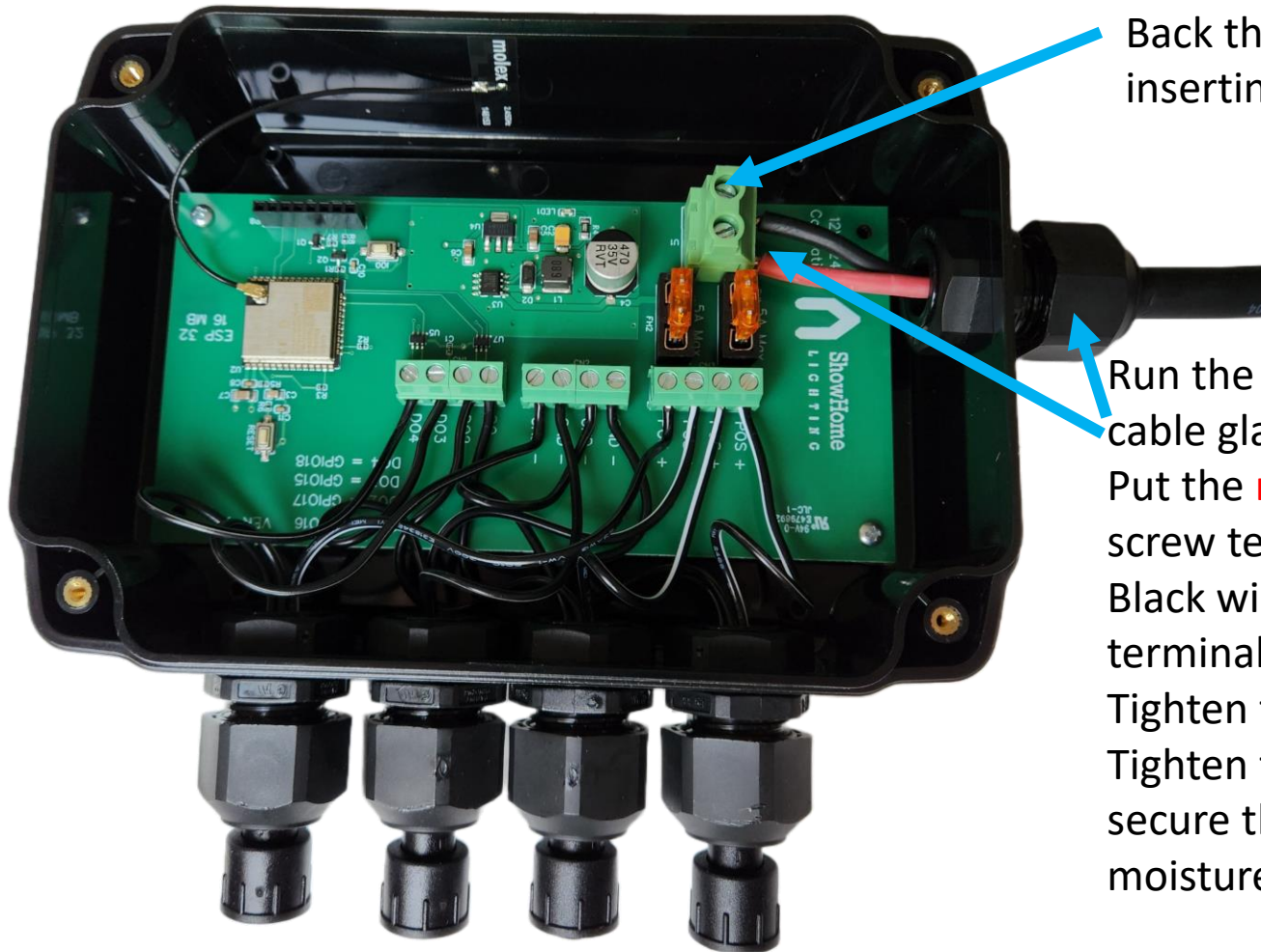
If you have a house with a plugin on one side of the house and one on the other side of the house, you can place the controller on one side and use a separate power supply to add power on the other side. This is the easiest install method.



Quick before and after for some motivation.



Connecting power supply to controller



Back the screws out before inserting wires

Run the cable through the cable gland.

Put the **red** wire in the **+ Pos** screw terminal

Black wire in the **- Neg** terminal.

Tighten the screws.

Tighten the cable gland to secure the wire and seal it from moisture.



Cut the 24v wire to desired length

Connect lights to controller

The data signal for the lights only runs in one direction, so make sure you start at the controller and install the lights working away from the controller.

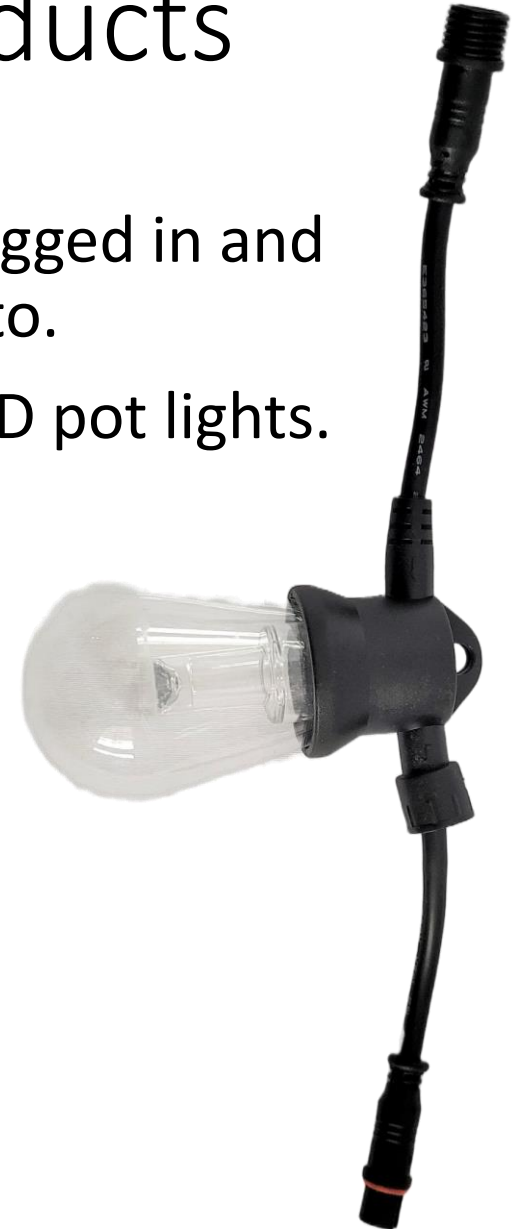


- You can connect the controller to the lights using any length of connector supplied in the kit.
- 1ft,5ft,10ft and 20ft connectors.
- Check the [power injection guide](#) for how to connect any extra cables that might be required.
- If you are running an extension cable further than 20ft I recommend buying an amplifier to boost the data signal to prevent light flickering.



Controller Can Also Run Other Products

- Other products such as string lights and rope lights can be plugged in and power from the same controller your track lights are hooked to.
- You can also use one output on the controller to run smart LED pot lights.



Attaching the track to the soffit with the supplied color matching screws

Watch video on installing the track to the soffit and connecting the lights.

[CLICK HERE](#)

Lights come in bundles of ten, separate into groups of 5 and ensure all the connectors are screwed tight together before inserting into track.

Push the lights in from the back side of the track until they pop through, and all 4 tabs have clicked into place.



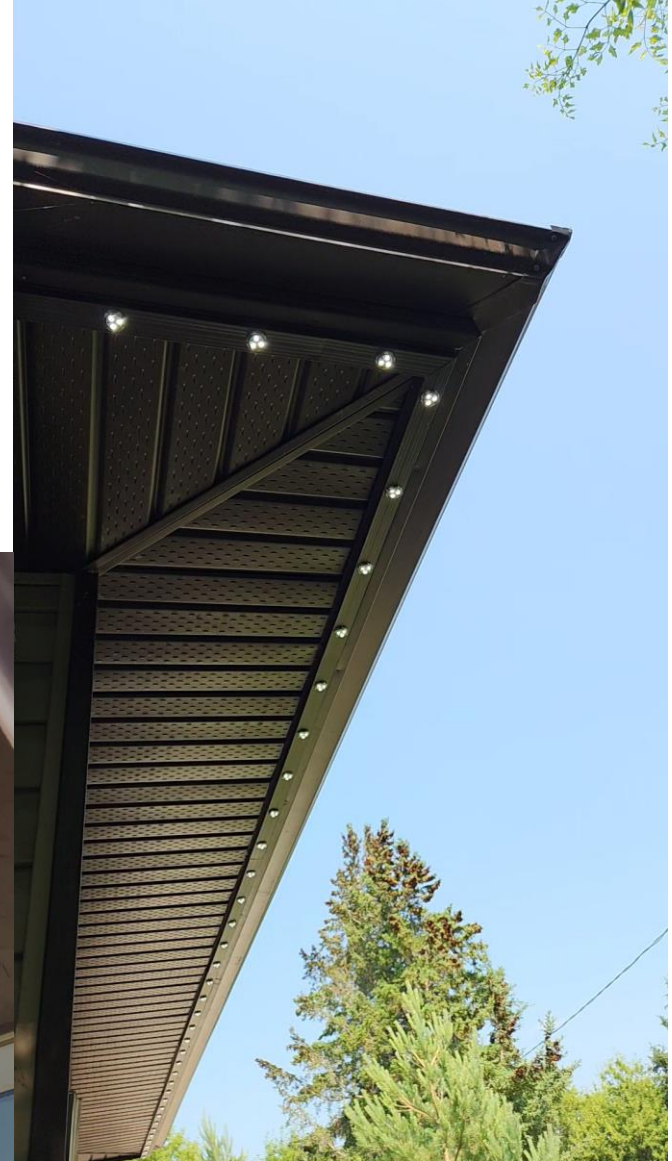
Cutting inside or outside corners

Video on cutting corners [CLICK HERE](#)

Video on making straight cuts [CLICK HERE](#)

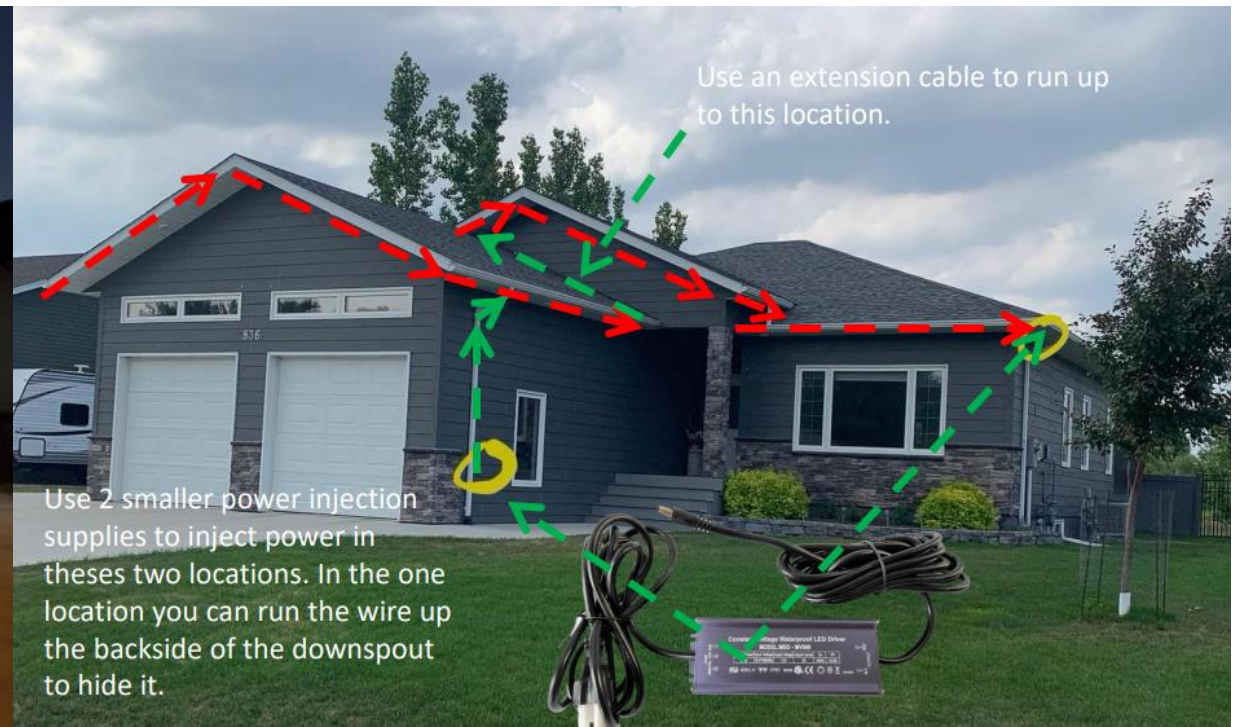
Video on making a peak cut COMING SOON

Making cuts is easy and can be done simply with a pair of tin snips.



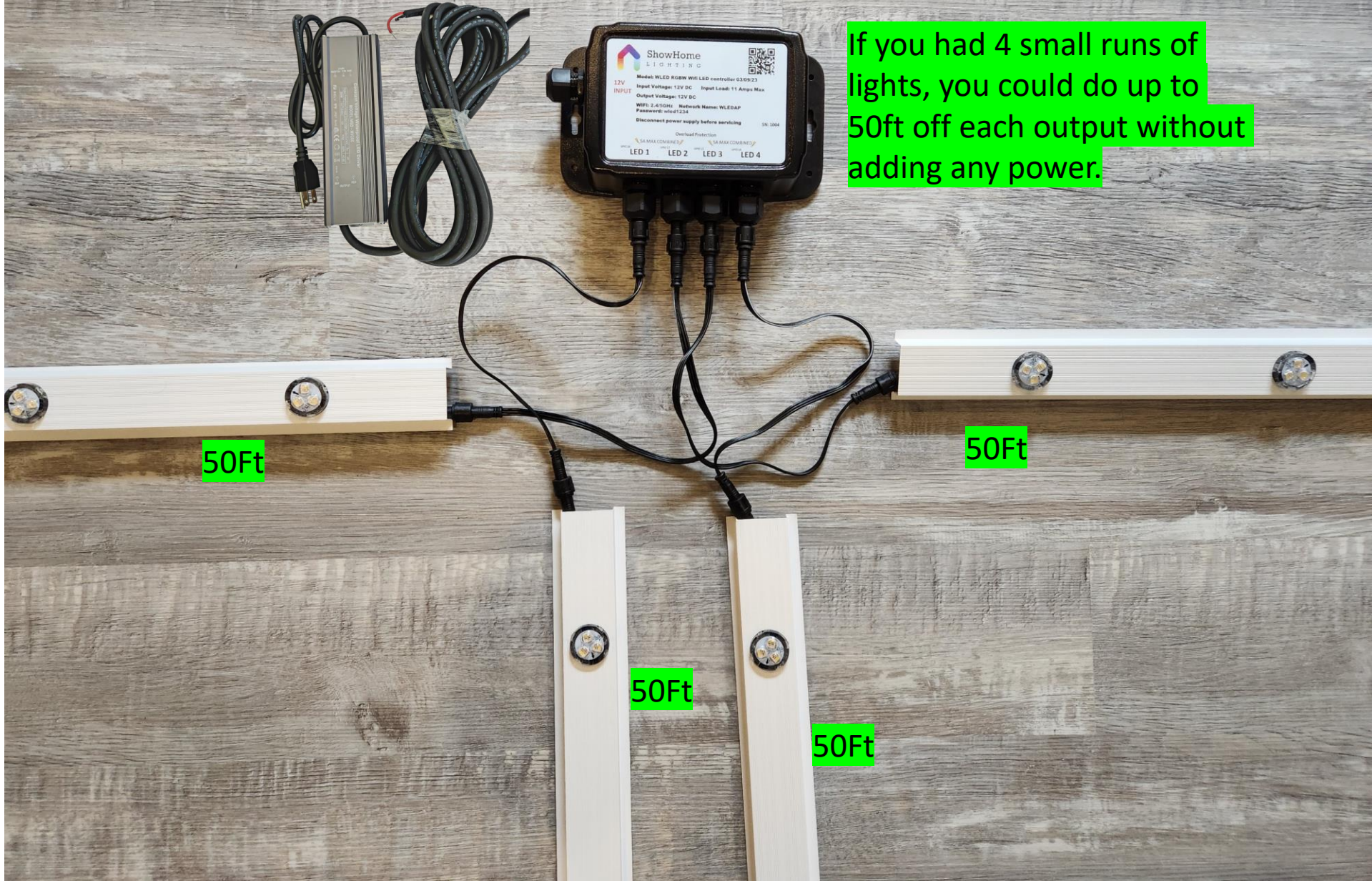
Running lights to peaks or second story

Running your lights from the first story to the second story or to a peak can be done in many ways, and any scenario can be accomplished with use of extension cables and Y-Splitters. If you need help figuring this out, let us create a design by filling out [this form](#) and sending in a picture of your home. We will get back to you with a plan within 48hrs



Side note

If you had 4 small runs of lights, you could do up to 50ft off each output without adding any power.





SHL Track Lighting Kits



Each kit comes with everything needed to do most homes, but if you have any questions, please reach out to me at asksteve@showhomelighting.com and I'd be happy to help you out.