

LED Strip Light

Pre - Installation Notes

- Do not cut any wires. Any extra wire length can be coiled up.
- Read all steps below before beginning installation.
- Steps below are for general guidance, various railing designs may require modified installation steps.
- Piece of heat-shrink tubing between LEDs and wires

Tools / Materials Needed

- Drill
- 1/2" Drill Bit
- 1/8" Flat Blade Screwdriver
- Fine Tooth Saw
- Scissors
- Silicone Caulk
- Pencil
- Tape Measure

Step 1

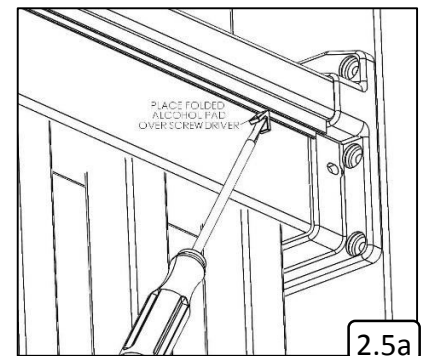
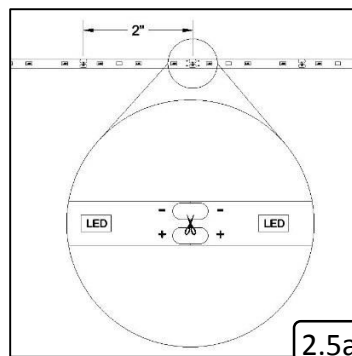
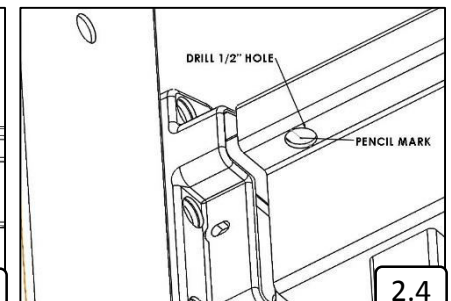
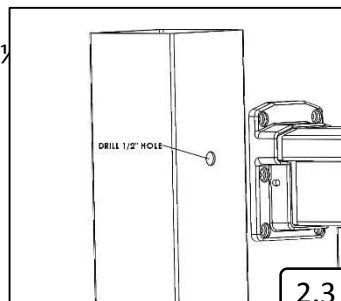
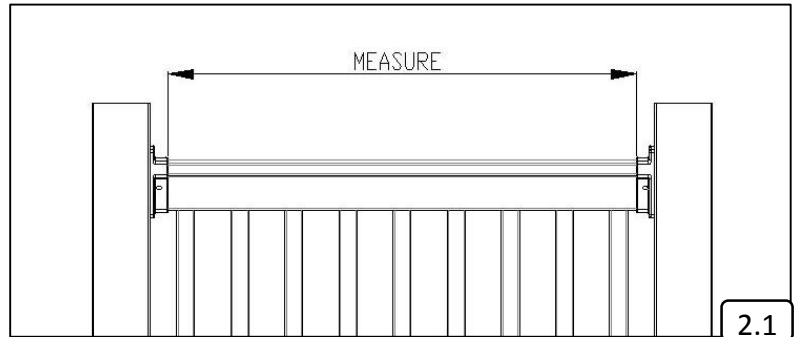
Prepare the Transformer and Wiring Harness

- 1.1 Follow instructions provided with the transformer.
- 1.2 Follow instructions for the wiring harnesses so there is a male connector located at each post that will have a light installed. Anchor harness in post so weight of harness does not pull on strip light.

Step 2

Prepare the Rail

- 2.1 Measure distance between brackets. Cut PVC channel shorter than measurement using fine tooth saw.
- 2.2 Use pencil to mark bracket location on bottom of rail.
- 2.3 Remove screws from bracket and push rail to the side. Drill 1/2" hole in post.
- 2.4 Remove bracket from rail and drill 1/2" hole where line was drawn in step 2.2.
- 2.5 Measure and cut LED strip light to required length.
 - a. Strip can only be cut at designated locations every 2 inches. (See Image 2.5a)
 - b. If required length does not fall on cutline move to the next location making the strip longer.
- 2.6 Reinstall bracket onto rail. Place plug of strip light into rail. Install bracket onto rail. Plug strip light into harness plug in post.
- 2.7 Using supplied alcohol pads clean under side of rail and both surfaces of PVC channel. Do not throw used pads away, they are needed in later step.
- 2.8 Only remove release liner on one side of adhesive. Apply adhesive strip to back of PVC channel.
- 2.9 Remove release liner on back of PVC channel and position on railing. Start at end with hole allowing small gap for strip light to move in the hole. Push firmly on the channel to securely attach to rail.
- 2.10 Starting at end opposite the plug, remove a few inches of release liner from LED strip. Place into the channel and press into place with folded alcohol pad from step 2.7 placed over tip of screwdriver. Continue to remove release liner and slide along with screw driver pressing into place. The alcohol pad is needed so pressure point from screwdriver does not damage LEDs. When getting close to plug end push any extra strip light into the hole.
- 2.11 Finalize installation by adding a dab of silicone caulk to the end of strip that was cut. The dab can be placed on end of screwdriver and inserted into the channel. This is necessary to protect the exposed circuit of the strip light.

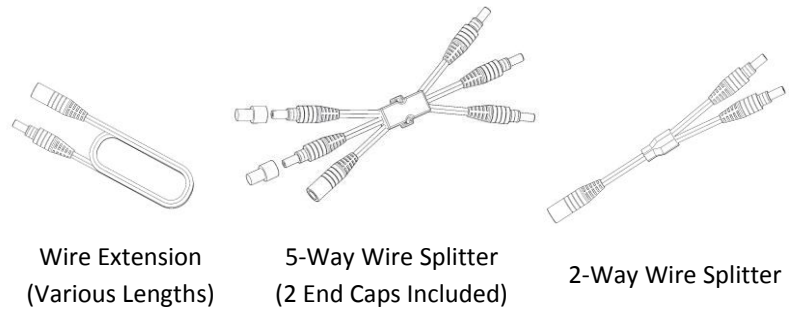


Wiring Extensions and Splitters

Pre - Installation Notes

- Do not cut any wires. Any extra wire length can be coiled up.
- If using insulated wire staples to hold the wires in place, be sure not to pierce or crush the wires.
- During installation, it is recommended that you temporarily cover the photocell on the transformer with dark tape so the lights will be on when you plug them in. This will help check for any issues during installation. Remove tape when done.

Components Available



Harness

- 1.1 The wire extension is used to extend power from the transformer to each individual light or splitter. The wire extension has a male and female end.
- 1.2 Wire extensions can be plugged into each other to extend length if needed.
- 1.3 The wire extensions can be run underneath the deck (above ground) and/or inside the post/railing where it is hidden from view.

5-Way Wire Splitter

- 2.1 The 5-Way Wire Splitter is used to evenly distribute power from 1 input to 5 outputs.
- 2.2 Plug the male connector from a wire extension into the female input connector of the 5-Way Wire Splitter. Press firmly until the connection is fully engaged.
- 2.3 Connection is fully engaged when there is minimal gap between the male extension connector and the female input connector.
- 2.4 Plug the female connector from a harness or a light into one of the male output connectors. Repeat for each output connector that is needed.
- 2.5 If there are any unused output connectors, an end cap (2 included) must be used to seal the output connector. Any unused end caps can be saved or discarded. If there are more than 2 unused output connectors, a 2-Way Wire Splitter (see below) should be used.
- 2.6 The 5-Way Wire Splitter can be secured using (2) #2 Stainless Steel Screws (not supplied).

2-Way Wire Splitter

- 3.1 The 2-Way Wire Splitter is used to evenly distribute power from 1 input to 2 outputs.
- 3.2 Plug the male connector from a wire extension into the female input connector of the 2-Way Wire Splitter. Press firmly until the connection is fully engaged. (See Step 2.3)
- 3.3 Plug the female connector from a harness or a light into one of the male output connectors. Repeat for the other output connector.

