

SAVE THESE INSTRUCTIONS!

READ CAREFULLY AND FOLLOW ALL INSTRUCTIONS FOR YOUR OWN SAFETY

- **DISCONNECT AC POWER SUPPLY BEFORE SERVICING.**
- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure the electricity connections conform to the National Electrical Code and local regulations if applicable.
- Do not mount near gas or electrical heaters.
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition. Any modification or use of non-original components will void the warranty and product liability.
- Do not use this equipment for other than intended use.

The specialtyLED Rope Light is a commercial grade product made up of Light Emitting Diodes (LED) consecutively wired with in a clear flexible PVC housing. Due to the nature of the product - special care needs to be taken during the installation process in order to protect to internal wiring.

INSTALLATION INSTRUCTIONS

SAFETY PRECAUTIONS:

- Do not over extend the minimum concave bend radius of 6 inches. When installing in the mounting channels or mounting clips it is easy to bend the product back and exceed 6 inches without noticing.
- Do not cover the product unless done so with extreme caution and attention to ventilation.
- Do not apply power when tightly coiled. Maintain half inch spacing between parts.
- Do not puncture, cut, shorten or splice outside of the designated cutting marks.
- Do not route through walls, doors, windows or building structures.
- Do not mount inside cabinets, tanks or enclosures unless properly ventilated.
- Do not unroll on a rough surface or over sharp corners. This will scratch the PVC optics.
- When unrolling or installing do not twist, pull or kink the product.
- Do not operate if outer jacket is damaged or there are loose connections. Inspect periodically for damage.
- Do not secure with staples, nails or like means that can damage the insulated PVC housing.
- Do not install in locations where it is subject to continuous flexing.
- Do not submerge in liquid or apply near standing water.
- Do not operate in temperatures exceeding 140°F (60°C).
- Ground Fault Circuit Interrupter (GFCI) protection should be provided on all circuits when used for outside applications.
- Do not operate on circuits that do not have proper surge suppression protection. High voltage spikes will damage the LEDs.
- Do not operate over specified voltage, LED life degradation will be greatly increased.

General Material/Tool Requirements:

Material needed for installation:

- RL-12V - Rope Light
- RL-LC-12V - Molded power cord
- RL-EC - End Cap
- RL-MC - Mounting Clips

- 12V Transformer
- Handheld PVC cutter
- Measuring tape
- Scissor
- Screwdriver

1. Measure the installation location to determine product length. Due to internal circuitry, colors of the RL-12V have different cutting increments as listed below:

- Warm White, Blue and Green - 3” cutting increments
- Red, Yellow and Orange - 6” cutting increments

2. Measure the RL-12V to match required installation length. (Fig. 1)

3. Using a hand-held PVC cutter, make an even cut through product exactly on measurement. If cut off the measurement the product can be damaged.

NOTE: It is imperative to use a sharp cutting blade to make a straight cut. Sharp blades will help you avoid pulling the internal circuitry while making the cut. Stretching or pulling the product can result in damage.

4. Install RL-LC-12V power cord.

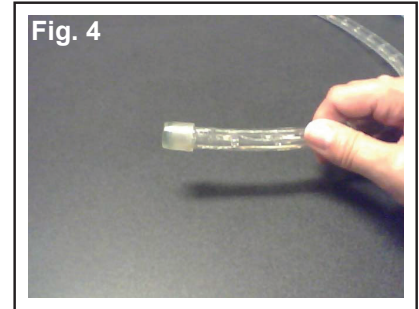
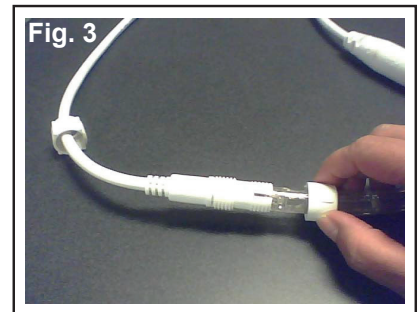
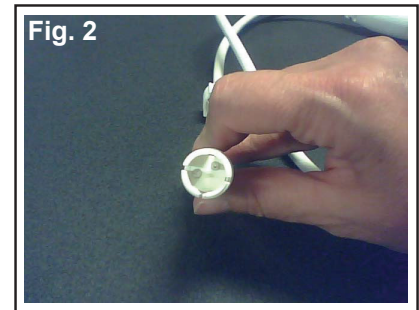
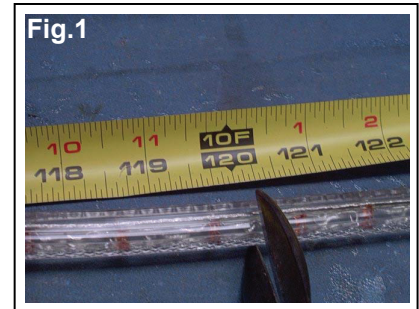
- a. Locate two copper wires in cut end of RL.
- b. Line up connector pins with copper wire. (Fig. 2)
- c. Firmly push connector pin into RL, do not force or apply excess pressure as the pins are fragile and will bend or break. Push pin in until flush with connector.
- d. Tighten nut around connector (Fig. 3)

5. All transformers are IP67 rated / Class 2 power supplies. Install the transformer within 10’ of the RL-12V. Connect the transformer to the wire leads of the RL-LC-12V power cord in accordance with current electrical codes and the current National Electric Code (NEC)

Part Number – 12 volt	Watts	White, Blue, Green (.84W/Ft)	Red, Yellow, Orange (.48W/Ft)
XFMR-12-20	20	23’	40’
XFMR-12-35	35	33’	40’
XFMR-12-60	60	40’	40’

6. On opposite end slid RL-EC over RL. (Fig. 4)

7. Test product to verify connections are correct.



MOUNTING

1. Suggested installation of RL-MC mounting clips is one every 8" for a straight run and as needed for a design. Remember to never leave sections of the tube unsecured.
2. RL-MC can be mounted with counter sink screws (Hardware field supplied). Verify screws are completely tightened down or they may cause the RL to bunch up during insertion.
3. Starting at the power feed end, gently start inserting the RL into the mounting. Do not twist, pull or kink the product as it is being installed.
4. Make sure the molded power cord is aligned with the orientation of the product. Do not have the power cord pulled or bent in any direction.
5. After the product has been installed, energize for testing.

TROUBLE SHOOTING

Product will not light

- Verify that there is power to the receptacle feeding the product.
- Check the GFCI and see if it is tripped.
- Remove the molded power connector and reset the connector pin.
- Check the transformer and make sure it has power.

Product does not light for the first 3"- 6"

- Product was cut incorrectly. It will be necessary to re-cut the product at the correct designated location and reassembled.

Product has a dark section in the run.

- This indicates the product was pulled, twisted, kinked and the interior circuitry was damaged.
- It will be necessary to cut new product or cut out the damaged section and splice a new piece in its place.