

HOW TO USE ROPE LIGHT

Tronix Rope Light 230V is delivered with a Europlug and 24V/12V comes with stripped wire suitable for DC power supply. Tronix Rope Light comes with a fixed end cap.

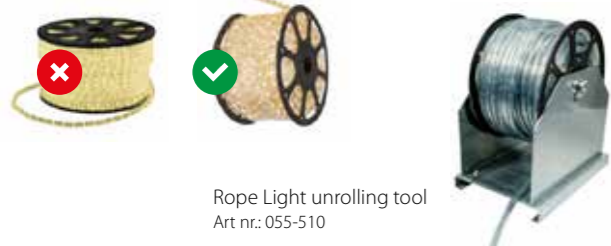
! Before you start:

- Make sure that the main voltage is not connected during installation
- Make sure that the main voltage of the Rope Light is the same as the main voltage of the power supply.
- Led Rope Light 230V comes with a power cable with standard converter. For 24V/12V Rope Light, make sure to use stabilized DC power supply to avoid that the Led's will start to flicker.

Check the Rope Light instruction manual for more detailed instructions included with the product and available at www.tronixlighting.com

Unrolling

To protect and avoid damage to the wire it is very important to unroll the rope light from the reel in the right way. Please make sure to position the reel in such a way that the rope light can be rolled off in a straight line instead of having to make circles. This prevents loops or swaying which could damage the internal wiring.



Rope Light unrolling tool
Art nr.: 055-510

! Rolling off Rope Light in the wrong way may cause unreparable damage to the product!

Preheat before use

Sometimes it is necessary to preheat the rope light for easy installation and best results.

- In case of a low product or outside temperature we advise to preheat the rope light to ease installation and safeguard product quality.
- In case you want to make several bends/curves for your lighting project it is very important to preheat the rope for best results.

! Disconnect the main supply before starting the assembly and unroll (part of) the ropelight before starting to work with the material. You can do this by connecting the required length to the main supply, allowing the Rope Light to burn for a couple of minutes until it is flexible. Never connect the main voltage while the light tube is still on the reel; the heat development can cause fire!

For all Tronix Rope Light Connectors & Accessories – check page 67

We offer large choice in Rope Light connectors and other accessories to splice, cut and connect Rope Light in any desired way to make sure that you have everything you need for your lighting project and achieve the best results.

Cutting Rope Light

- **First make absolutely sure that the main voltage is not connected!**
- Measure the desired length and cut at the nearest cutting mark - **picture 1**.
- Use a pair of sharp cutting pliers and make sure the edge is smooth and at the right angles - **picture 2**.
- After cutting, remove any excess copper wire. There is no difference in how to cut LED rope light. The distance between the cut marks vary, depending on the rope light. To achieve maximum chasing effects, 3, 4 and 5 wire rope light need to be connected to a controller.



1. Cut rope light only at marks 2. Cut rope light neatly

! Only cut the Rope Light at the identification mark, otherwise part of the tube will be permanently useless.

Connecting Rope Light

- Remember that the two pieces of rope light you want to connect, must be the same in voltage and wire count (2-wire, 3-wire etc.)
- When connecting LED Rope Light 230V/24V/12V to a transformer, always use a power cable with a converter, otherwise the LED's will start to flicker. For low voltage it is best to use a stabilized DC power supply; in this case you don't need a converter.
- Bring the holes at rope light end in the same position with the prongs ("teeth") of the connector - **picture 3** - then firmly press the pieces together.
- Tronix offers many different connectors - **picture 4** - each one unique for connecting rope in any requested shape or design.
- All rope light accessories must correspond with the shape and diameter of rope light you want to use.
- **TIP:** if a section of the rope light malfunctions (in time), simply remove the unlit section and place the working sections back together with a connector



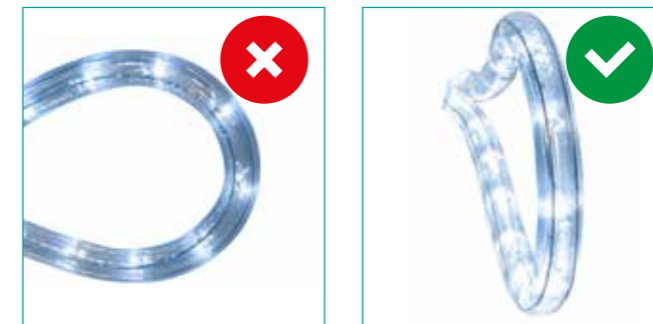
3. Connecting rope light 4. Insert connector and press



Bending Rope Light

- Make sure to preheat the Rope Light a little bit to make easier curves
- It is very important to bend Rope Light perpendicular - straight up or down - at the wires. Make absolutely sure to bend rope light in the right direction - pictures 5 & 6 - to make sure that the two internal wires make the same curve.

! Avoid at all times that the inner side wire needs to make a very sharp curve. Bending rope light incorrectly can cause damage to the internal wiring. Please check picture 5 and 6



5. Bending wrong way 6. Bending right way

Applying and fixing Rope Light

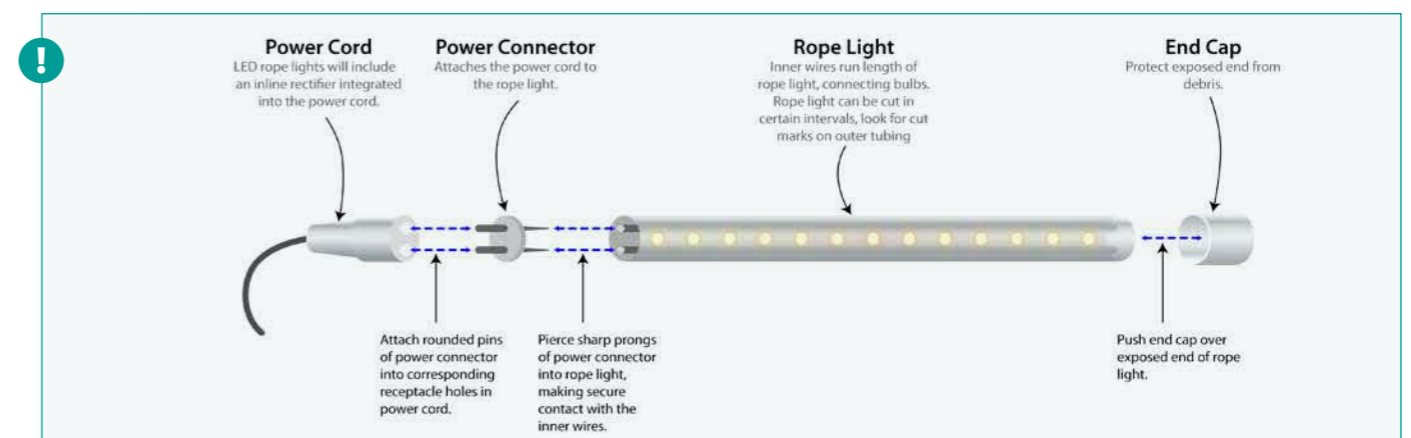
There are many ways to apply rope light: you can use it to wrap objects like pillars or trees, or for a glamorous outline of your bar, swimming pool or fence. Or just hang it using suitable fixing points to create any dimension you like. Fixing Rope Light requires minimal experience, you just need the right accessories (see page 67). Whichever accessory you use, make sure there is proper mounting in each foot of the rope light, with additional mounting at every corner and curve. Depending on the application and specific circumstances different fixing materials are available. Use tie-wraps along a steel wire or preshaped frame; for outdoor usage take the UV-durable quality. Consider the following accessories when deciding how to mount rope light. These will help you learn how to secure rope light in no time at all.



Rope Light Channel
To guide the direction of the rope light. Mostly used for straight paths. Gives a professional look.

Mounting Clip
To direct the rope light even better in curvy areas or corners.

Zip ties
To secure rope lighting onto metal railings or any surface suitable for zip tie. Pull tightly and cut excess sticking out from the tie



Power

After the rope light has been designed, be sure to place a power connector at one end - picture 7 - so the rope light can be plugged into an outlet. Where the run of rope light completes, simply place an end cap - picture 8. Always seal the end of the (cutted) tube with an end cap. The end cap must be glued on with pvc or silicon glue



7. Rope Light Power Connector 8. Rope Light End Cap

! Make sure there is enough ventilation so that any possible heat can flow off

- Do not assemble on surfaces that can vibrate or rattle violently due to severe wind
- Rope Light spanned over roads or large surfaces must be allowed some movement with the wind
- When applying Rope Light on a flat surface, make sure the part of the tube producing the most light is facing front!
- Recommended fixation distance for clips & zip ties (tie wraps): horizontal 20 cm and vertical 30 cm.
- Make sure the rope light does not make any twists in the process
- Aluminium channels may be subject to expansion, meaning that 2m channels can differ in length with several millimeters. Make sure to keep about 4mm of space between two channels.