

Low Voltage Ropelight (LNK / LED-xxV) Installation Guidelines

Please note that these guidelines are guidelines only and in no way supercede any construction or installation standard. It is strongly recommended that local building and electrical codes be consulted before installation to guarantee compliance.

1. Transformer Requirements

Low Voltage ropelight runs on 12 or 24 Volts, and thus a transformer will be required. Verify that the transformer's voltage is that of the lighting. It is very important that the load be calculated carefully before selecting a transformer. Please note the bulb spacing and bulb type defines that load; incandescent bulbs are 0.3W each, White/Blue/Green LEDs are 0.08W each, and Red/Yellow LEDs are 0.04W each.

Maximum Load = Total Sum of Wattage of all Bulbs x 10-15% variance

2. Ampacity Limitations

Please remember that this is a low voltage product and consult the appropriate section of the electrical code when selecting wire.

	Max. Lamps 12V	Max. Lamps 24V	Max. Recommended Amperage
Incandescent	240	480	5A
LED	240	480	1.6A Cord
LED	600	1200	4A Cord

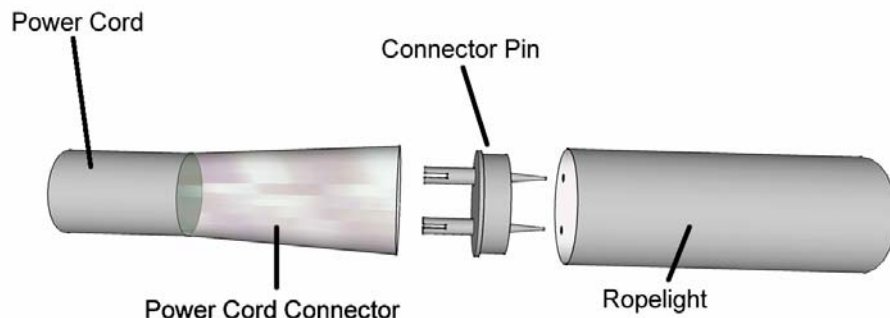
Current (A) = Total Wattage / Voltage

3. Wiring Guidelines and Placement of Transformers

Consult the electrical code for details on wiring requirements. Transformers must be kept free of moisture; when installing please ensure they have adequate ventilation and are not subject to very warm or cool temperatures. Please read the manufacturers' specifications for details. For magnetic transformers we recommend that a dampening pad or device be used, as there is often some humming from the transformer. A weatherproof outdoor electrical box is strongly recommended for outdoor applications, as always please refer to the local electrical code to ensure compliance.

4. Cutting, Splicing, and Connecting

- Only cut the Ropelight on the designated markings points designated by scissor marks (✂).
- LED Ropelight is polarized and the polarity must be maintained. If a section is not illuminating, try applying power from the other end.



Attaching Power Connector:

Match the two sharp pins on the connector with the two wires in the Ropelight. Note that the pins and wires are off-centre. Slide the Retainer Ring over the Connector and onto the Ropelight. Push the slitted half of the housing onto the Ropelight and tighten with the Retainer Ring. Attention must be paid to the polarity of the system if using LED Ropelight.

Attaching the End Cap:

Place the End Cap over the exposed end of the Ropelight

Attaching the Power Cord:

Align the holes on the female power cord with the pins on the Ropelight connector and push together. Slide the retainer Ring on the Power Cord to the Connector and tighten. The Power Cord for LED Ropelight will have an inline AC/DC rectifier of either 1.6A or 4A capacity.

Attaching the Transformer:

Use only UL/cUL/CSA or other listed transformers. Class II are preferable. Power Cord ends should be wired either directly into a transformer or approved junction box. Attention must be paid to ensure the connections are appropriate for the installation. It is recommended that a licensed electrician do all wiring to ensure compliance with local electrical codes.

Attaching Invisible Splice Connector:

Slide the protective sheath over one section of Ropelight. Insert the Connector pin into one section of Ropelight as far as it will go and do the same with the other section so that the Ropelight sections are butted directly up against the connector pin. Slide the sheath over the Ropelight-Pin-Ropelight assembly and cover with glue to ensure a sealed connection.

5. Warnings

1. Do not plug the Ropelight in when it is wound in a coil
2. Always unplug the Ropelight before cutting
3. Always unplug the Ropelight before installing
4. Do not mount or support Ropelight in a manner that can cause damage to the protective or plastic insulation. Ensure that if the jacketing is damaged the Ropelight be powered down and replaced immediately
5. Ropelight is water tight, but if used outdoors all connections should be insulated with silicone
6. Do not cover Ropelight, always allow for heat dissipation and adequate ventilation. Do not use in a sealed environment.

6. Lighting Installation

Mounting Method 1: Plastic Ties

Plastic ties are a convenient and easy way to mount the ropelight. Usually these ties will either be fixed to a frame, branch or adhesive backed mounting block. If you use a mounting block, please ensure that the surface is clean, smooth and dry.

Mounting Method 2: Mounting Clips

This method is ideal for wood and porous surfaces that do not accommodate adhesives. To use, simply place over tubing between bulbs and screw or nail into the provided holes. Be careful not to disturb the filament, as it may break.

Mounting Method 3: Snap-in Channel

This method is the most strongly recommended as it helps ensure the lighting is mounted in straight lines. Do not twist the light tube and keep the bulbs facing up. Do not drill or screw channel; avoid high heat and keep ventilated. Affix the channel on a clean, dry, smooth surface and ensure it is well fixed before installing the lighting. Keep the inner cords of the light parallel to the bottom of the channel and the bulbs on top. Embed ropelight into the channel firmly and carefully.