

LED Ribbon Light (RBN) Installation Guidelines

Please note that these guidelines are guidelines only and in no way supersede any construction or installation standard. Local building and electrical codes should be consulted before installation.

WARNING – HANDLE THE RIBBON LIGHT WITH CARE, AND CONTAINS DELICATE ELECTRONIC COMPONENTS AND SOLDER JOINTS
All Ribbon Lights are tested before they ship from our warehouse.

1. Power Supply/Driver Requirements

Ribbon Light operates on 12VDC. It is imperative that a regulated DC power supply is used and Class 2 is highly recommended. The Ribbon Light draws 1.2W/ft or 4W/m.

Consult the electrical code for details on mounting and installing power supplies/drivers.

2. Ampacity Limitations

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

The maximum length of any particular run is 2A, 19.5ft or 6m.

3. Power Connections

a. Factory Terminations

BL recommends that the power connections and terminations are done at the factory. When so, lengths must be specified on the PO and lengths will ship with standard 18” leads of 20AWG wire attached. Red is positive and black is negative, wire to the power supply/driver’s coloured leads.

They can be trimmed by removing the end cap, cutting at the designated cut mark at the solder joint between every third LED and reaffixing the end cap with silicone.

b. Field Terminations

- i. Measure and layout lengths as necessary
- ii. Cut only at the solder joints between every third LED
- iii. Strip approximately 1/8” of insulation off of a 2 conductor stranded 20AWG or 18AWG wire
- iv. Insert wires through input cap with holes
- v. Solder onto the pads using a small soldering tip at approximately 40W
- vi. Test the strip to ensure connections are intact
- vii. Apply silicone to the inside of the input and end caps and secure onto the plastic jacket

Jumpers can be installed in a similar fashion

4. Warnings

1. Handle carefully
2. Do not power the Ribbon Light in when it is wound in a coil
3. Always power down the Ribbon Light before cutting
4. Always power down the Ribbon Light before installing
5. Do not mount or support Ribbon Light in a manner that can cause damage to the protective or plastic insulation. Ensure that if the jacketing is damaged the Ribbon Light be powered down and replaced immediately
6. Do not cover Ribbon Light, always allow for heat dissipation and adequate ventilation. Do not use in a sealed environment.



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BL Innovative Lighting 111-8838 Heather St, Vancouver, BC V6P3S8
Ph: 604-874-4405 Fx: 604-321-0445 Em: info@bllighting.com Ww: www.bllighting.com

6. Lighting Installation

Mounting Method 1: Mounting Clips

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

Mounting Method 2: Adhesives

Various adhesives can be found at local material suppliers for a cyanoacrylate, clear silicone, or construction adhesive.



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