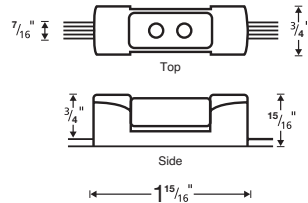


## IMPORTANT

The following instructions are provided to assure safe installation and operation of LED Brite Strip. Please read carefully before connecting or installing LED Brite Strip.

- LED Brite Strip is presently Engineer Testing Laboratories (ETL) listed for indoor and protected outdoor locations ("dry locations").
- Do not mount or support LED Brite Strip in a manner that can cut the outer jacket or damage wire insulation.
- Always make sure power is disconnected from LED Brite Strip before cutting, mounting, attaching terminal block, attaching end cap, or modifying in any way.
- Do not mount in a manner that the bulbs have a clearance of less than the minimum outlined in this instruction manual.
- Assure all wattage limitations listed under "Powering LED Brite Strip" are not exceeded.
- These products may represent a possible shock or fire hazard if improperly installed or attached in any way. Products should be installed in accordance with the owner's manual, current local codes, and/or the current National Electrical Code (NEC).
- Requires dimmer! See list of approved dimmers under "Powering LED Brite Strip".

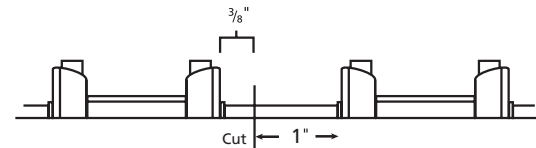
### SPECIFICATIONS:



- 2, 3, or 4 bulbs per foot configuration
- Use only 24 Volt Direct Current dimmable LED magnetic power supplies, NSL part numbers TR24L20DC, TR24L40DC, TR24L60DC, TR24L100DC.
- Totally parallel wired
- LED Festoon bulbs = 0.5 watts
- LED MR-11 bulbs = 2.0 watts

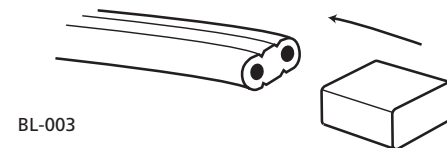
## CUTTING LED BRITE STRIP

1. Always make sure LED Brite Strip is disconnected from power source before cutting.
2. LED Brite Strip lengths will be determined by the application requirements and the minimum and maximum number of bulbs allowed per each size of power supply. Please see table listed under Powering LED Brite Strip, #2, reverse side of instructions. In any case, do not exceed 80 watts (160 bulbs) total.
3. Utilizing a good pair of shears, cut LED Brite Strip between appropriate bulb sockets. You will need at least 1" of wire to attach terminal block and junction box. You will need at least 3/8" of wire to attach the end cap. There is ample wire between bulb sockets in the BL-2 (2 sockets per foot) and BL-3 (3 sockets per foot) to provide 1 3/8" of wire. You will have to sacrifice one bulb socket to acquire 1 3/8" of wire in the BL-4 (4 sockets per foot) design.



## ATTACHING END CAP

1. Push BL-003 end cap onto 3/8" cut from above so that end cap is snug.



## LEAD WIRE

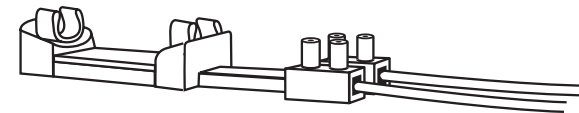
Our 12 gauge lead wire (LW-12G/WH/BK) **IS NOT** UL Listed for use interior to any wall, or attic, or outside building use. A UL Listed Romex type product is normally accepted for lead wire interior to walls or attics in residential locations. Commercial applications are generally more restrictive.

This lead wire **IS** normally acceptable for interior use, external to walls and attics, including cabinet sections accessible without the use of a tool in residential locations.

**MAXIMUM LOAD OF 160 LAMPS (0.5w)**  
**CONSULT YOUR LOCAL BUILDING CODE & THE CURRENT NEC.**

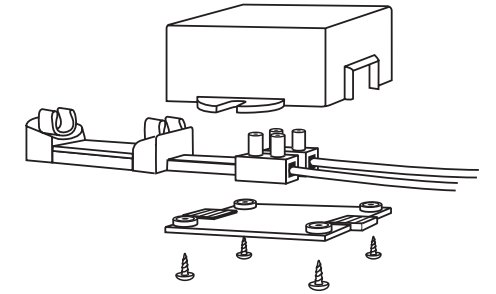
## ATTACHING POWER CONNECTOR

1. Assure both LED Brite Strip run and 12 gauge power feed are without power.
2. Strip insulation back 1/16" on both LED Brite Strip lead and 12 gauge power feed leads.
3. Place stripped LED Brite Strip leads into one side of LW-1 terminal block connector. Tighten screws on top of LW-1 connector into LED Brite Strip leads.
4. Place stripped 12 gauge power feed leads into other side of LW-1 connector. Tighten screws on top of LW-1 connector into power feed leads.



## ATTACHING JUNCTION BOX

1. In order to meet ETL, and NEC code, each LW-1 connector must be placed in an approved junction box with strain relief (BL-JB or other ETL listed box).
2. Assure power is removed from power feed and connector.
3. Place LED Brite Strip connection assembly into top of BL-JB junction box.

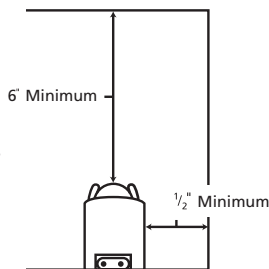


4. Assure entire LW-1 connector assembly fits into junction box and enclose with BL-JB bottom. Tighten four junction box screws through bottom into top of BL-JB.

## MOUNTING LED BRITE STRIP

1. Always make sure power is disconnected before modifying, mounting, or installing a section of LED Brite Strip.

2. Do not mount LED Brite Strip in a situation that does not have at least ½" clearance on the side of the fixture, and 6" clearance above the bulb. Make sure area is well ventilated to dissipate bulb heat. Wall or cabinet mount only.

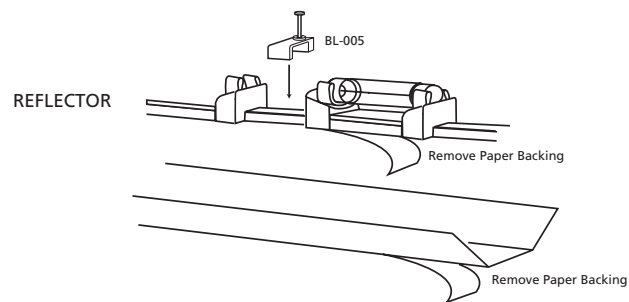


3. Do not exceed 90 watts total in any single run.

4. In most applications you simply have to clean mounting surface, remove paper backing from double-sided tape on bottom of each socket, and attach LED Brite Strip socket-by-socket to mounting surface.

5. In situations where LED Brite Strip is continually mounted with bulbs facing down, we suggest both affixing with double-sided tape as per above, and using BL-005 mounting clips every 12".

6. In applications utilizing BLF reflector, or BLFAS fascia extrusion, follow steps #1, #2, and #3 above. Clean both the mounting surface and the extrusion for good adhesion of double-sided tape. Remove paper backing on the double-sided tape from bottom of extrusion. Attach extrusion to mounting surface by firmly pressing extrusion onto mounting surface. Remove paper backing from double-sided tape on LED Brite Strip sockets. Attach LED Brite Strip by firmly pressing sockets onto extrusion.



## INSTALLING BULBS

Assure power is disconnected from LED Brite Strip.

### LED FESTOON BULBS:

The 0.5W LED Festoon bulb does not have polarity. The bulb may be placed into socket in either direction. The LEDs may be turned slightly in bulb socket to achieve the optimal light output for your application.

## POWERING LED BRITE STRIP

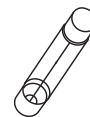
1. Check to see that each single run has a terminal block, end cap, and junction box attached.
2. In designing your lighting system, follow the table below of our LED magnetic power supplies, and the recommended minimum and maximum LED 0.5W bulbs per power supply.

	Min. 0.5W Bulbs	Max. 0.5W Bulbs
TR24L20DC	16	32
TR24L40DC	30	60
TR24L60DC	50	100
TR24L100DC	80	160

3. Run 12 gauge lead wire from LED Brite Strip to LED driver. Check all connections and clearances.
4. Our 24 Volt Direct Current dimmable LED magnetic power supplies are designed to work with most 'stand alone' low voltage magnetic analog dimmers. A recommended dimmer list is as follows:  
LUTRON "Ariadni" AYLV-600PH  
LUTRON "Lyneo" LXLV-600PL  
LUTRON "Skylark" SLV-600P  
LUTRON "Diva" DXLV-600PH  
LUTRON "Glyder" GLV-600
5. Carefully following the dimmer instructions, dimmable LED magnetic power supply instructions, and the NEC, wire dimmer between 110VAC power input and 24 Volt Direct Current dimmable LED power supply.

110VAC	Low Voltage	24 Volt	Maximum
	Magnetic Dimmer	Direct Current Dimmable LED Magnetic Power Supply	160 pcs. LBL-24-.5WW LED Festoon Bulbs

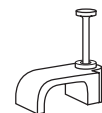
## ACCESSORIES



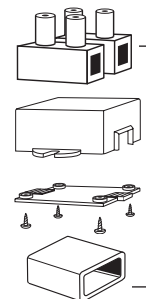
LED FESTOON BULBS  
LBL-24-.5WW



LW-12G/WH LW-12G/BK 12 Gauge Lead Wire. To be used from LED Brite Strip to LED Driver.



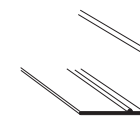
BL-005/WH BL-005/BK Brite Strip Nail Clips (30 per bag)



BL-001/WH BL-001/BK Connector Assembly Kit: Brite Strip Terminal Block, Junction Box, and End Cap



BLF Brite Strip Reflector



BLFAS Brite Strip Fascia Extrusion Reflector

WH = White BK = Black

## INSTALLATION INSTRUCTIONS

# LED BRITE STRIP

THE BRIGHTEST LOW-ENERGY LIGHTING SOLUTION AVAILABLE!

(DIMMABLE)

LED efficiency in a festoon 0.5W bulb flexible linear lighting strip



**NATIONAL SPECIALTY LIGHTING**  
ARCHITECTURAL AND DECORATIVE LIGHTING  
LOUISVILLE, CO 80027

