

## WARNING: RISK OF FIRE AND SHOCK

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1. Do not cover this product as the covering may cause the flexible light to overheat and melt or ignite.
2. Do not operate with the flexible light tightly coiled. To prevent overheating do not allow contact between flexible LED eSTRIPs and parts of LED eSTRIPs. Maintain at least 12 mm spacings between flexible LED eSTRIPs or parts of LED eSTRIPs.
3. Do not route the cord or flexible LED eSTRIP through walls, doors, windows or any like part of the building structure.
4. Do not use if there is any damage to the light or cord insulation. Inspect periodically.
5. Do not submerge flexible light in liquids.
6. Secure this flexible LED eSTRIP using only the hangers, tracks or clips provided. Do not secure this product or its cord with staples, nails, or like means that may damage the insulation.
7. DO NOT EXCEED THE MAXIMUM NUMBER OF EXTENSIONS OR FLEXIBLE LIGHT LENGTHS PERMITTED BY THE MARKING.
8. Do not install on gates or doors, where subject to flexing
9. Do not install in cabinets, tanks or enclosures of any kind

### For Outdoor Installations:

10. Caution: Ground Fault Circuit Interrupter (GFCI) protection should be provided on the circuit or outlet.
11. Caution: Use only outdoor extension cords, such as type SOW, STW, SJOW or SJTW.
12. Caution: Do not install closer than 3 meters from a swimming pool surface
13. All 120 Volt electrical connections to power supplies (drivers) should be carried out by a qualified electrician. **Power supplies used for outdoor applications must be enclosed in approved outdoor enclosure unless listed for wet locations.**
14. Magic Lite offers a variety of power supplies for powering LED eSTRIP to suit your particular project. Power supplies vary in wattage rating and therefore will power various lengths of LED eSTRIP. Consult the list of power supplies in these instructions which indicate TOTAL FOOTAGE OF PRODUCT that each power supply will power. NEVER EXCEED THE MAXIMUM ALLOWABLE SINGLE RUN OF PRODUCT. Note that dimming power supplies have both maximum and minimum loads. Be sure to adhere to these restrictions when using dimmable power supplies.

### INSTALLATION

#### DISCONNECT POWER BEFORE INSTALLING LED eSTRIP

##### 1. CONNECTING LED eSTRIP TO POWER.

Magic Lite Ltd LED eSTRIP runs on 24 volt power supply. Use only power supplies from Magic Lite Ltd. approved for use with LED eSTRIP.

Use only extension segments and power cords provided by Magic Lite Ltd. for powering or extending LED eSTRIP.

Make sure all end caps and connections are firmly seated to preclude the entry of water.

- A) Cut LED eSTRIP to desired length (nearest cutting line) with

sharp knife or cable cutters. (Figure A) Refer to maximum lengths in specifications shown above. Do not exceed maximum recommended length of LED eSTRIP. Do not exceed total wattage rating of power supply being used

- B) Line up positive and negative polarity markings on male connector with markings on LED eSTRIP. Place male connector over cut end of LED eSTRIP and push together firmly. (See figure B)
- C) Screw threaded contacts of connector into LED eSTRIP until tight and plastic part of connector is seated firmly against LED eSTRIP. (Figure B)
- D) Connect to power supply connector making sure polarity markings are matched. (Figure C)
- E) Place end cap over dead end of LED eSTRIP. (Figure D)
- F) Connect wires from connector to low voltage power supply.

- G) Connect low voltage power supply to main power (120 volt). Note – 120 volt connections to low voltage power supply should be carried out by qualified electrician.

##### 2. JOINING TWO PIECES OF LED eSTRIP TOGETHER.

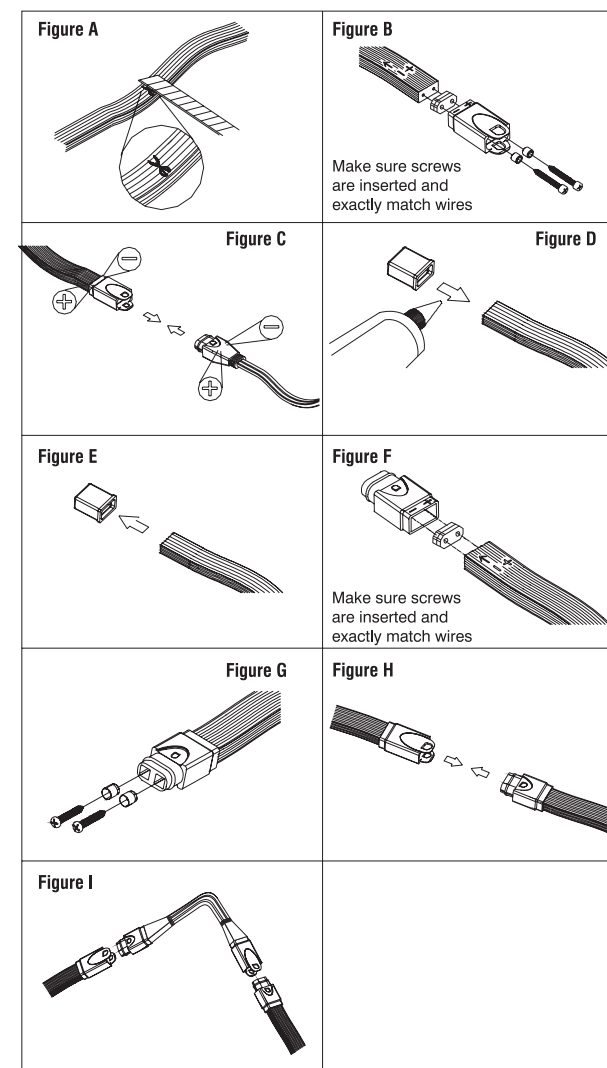
CAUTION: When joining two pieces of LED eSTRIP together, MAKE SURE COMBINED LENGTHS OF TWO PIECES DO NOT EXCEED 100 WATTS IN POWER CONSUMPTION. Do not exceed rated wattage of power supply

- A) Disconnect from power supply.
- B) Remove end cap from LED eSTRIP (if applicable) (Figure E)
- C) Line up positive and negative polarity markings on female part of inline connector with markings on LED eSTRIP. Place connector over cut end of LED eSTRIP and push together firmly. (Figure F)
- D) Screw threaded contacts of connector into LED eSTRIP until tight and plastic part of connector is seated firmly against LED eSTRIP.(Figure G)
- E) Repeat steps C and D for male side of inline connector.
- F) Line up positive and negative polarity marks on in line connectors and push together until flaps are locked together.(Figure H)
- G) Note: IMPORTANT SAFETY PRECAUTION! Female side of inline connector should always be attached to the length of LED eSTRIP that will be attached to power supply.
- H) Place end cap over dead end of LED eSTRIP. (Figure D)

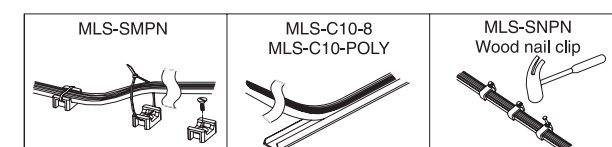
##### 3. USING SPECIAL CONNECTORS.

When using one of Magic Lite's special connectors (MLS-EFSN, MLS-BFXN, MLS-BFTR, MLS-BFTD or MLS-BFLN) please follow steps A – E in step 2 above.








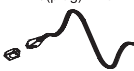


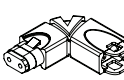
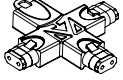
After completing steps A – E, connect special connector to inline connector by matching appropriate ends and pushing firmly together. BE SURE TO MATCH POLARITY MARKINGS.



#### 4. MOUNTING ACCESSORIES FOR LED eSTRIP USE OF MOUNTING ACCESSORIES



## ACCESSORIES FOR LED ESTRIP

<b>MLS-SMPN</b> Saddle mounts with tie wrap 	<b>MLS-C10-POLY</b> <b>MLS-C10-8</b> Channel track 	<b>MLS-BFSN</b> Male and female in-line connector set 	<b>MLS-SFHN</b> End cap 
<b>MLS-SNPN</b> Wood nail clip 	<b>MLS-EFSN</b> Elbow extension connector 		<b>MLS-BFMS-15</b> Male connector w/(plug) wire 
<b>MLS-BFTD</b> "T" Type Connector connector in bottom 	<b>MLS-BFTR</b> "T" Type Connector connector in right or left 	<b>MLX-BFLN</b> "L" Type Connector 	<b>MLS-BFXN</b> "X" Type Connector 

## POWER SUPPLIES

### Indoor, Non-dimmable LED Driver

MLDR-20-24JB 24V, 20W, hardwire Max 16'  
in junction box

### Outdoor, Non-dimmable LED Driver

MLDR-120-24 24V, 120W, hardwire Max 90' per single tap  
Max 125' combined 2 secondary taps

### Outdoor, Dimmable LED Driver

MLDR-20-24-DM 24V, 20W, hardwire Max 18'  
Max 18W, Min 10W

MLDR-40-24-DM 24V, 40W, hardwire Max 37.5'  
Max 36W, Min 20W

MLDR-60-24-DM 24V, 60W, hardwire Max 56'  
Max 54W, Min 30W

MLDR-100-24-DM 24V, 100W, hardwire Max 90'  
Max 90W, Min 50W

## SPECIFICATIONS FOR LED ESTRIP

Dimensions: 6 X 12 mm (0.25" X 0.5")

PVC body colour: Clear

LED spacing 25.4 mm (1") Note custom spacing available upon request

Colours: Amber, Red, Blue, Green, White, Warm White

Voltage: 24 volt

Cutting Lengths:	24 volts	15.24 cm (6")
Power Consumption:	24 volts	.96 watts/ft
Maximum Length:	24 volts	27.4 m (90')

## APPROVED DIMMERS FOR DIMMABLE DRIVERS

### Lutron Ariadni Dimmer

AYLV-603P AYLV-603P-CSA AYLV-603P-S AYLV-600P

AYLV-600P-CSA AYLV-600P-S

### Lutron Vareo Dimmer

V-1000 V-600 V-1000-S V-600-S

### Lutron Nova Dimmer

NTLV-1000 NTLV-1500 NTLV-600 NTLV-1500-S  
NTLV-600-S NTLV-1000-S NTLV-1503P NTLV-2003P  
NTLV-1003P NTLV-603P NTLV-1503P-CSA NTLV-1003P-CSA  
NTLV-603P-CSA NTLV-1503P-S NTLV-2003P-S NTLV-1003P-S

### Lutron Diva Dimmer

DVLV-103P DVLV-603P DVSCLV-103P DVSCLV-603P  
DVLV-103P-CSA DVLV-603P-CSA DVLV-103P-S DVLV-603P-S  
DVLV-103PH-S DVLV-603PH-S DVSCLV-103P-L DVSCLV-603P-L  
DVLV-600P DVLV-10P DVSCLV-10P DVSCLV-600P  
DVLV-10P-CSA DVLV-10P-S DVLV-10PH-S DVSCLV-10P-L

### Lutron Glyder Dimmer

GLV-600 GLV-600-CSA

### Lutron Lyneo Dimmer

LXLV-103PL LXLV-603PL LXLV-10PL LXLV-600PL

### Lutron Nova T Dimmer

NTLV-1500 NTLV-1000 NTLV-600

### Lutron Skylark Dimmer

SLV-603P SLV-603P-CSA SLV-603PH-CSA SLV-600P  
SLV-600P-CSA SLV-600PH-CSA

### Leviton Illumatech Dimmer

IPM06-1LZ IPM06-1LX IPM10-1LZ

### Leviton Mural Dimmer

MDM06-1LI MDM06-1LW MDM06-1LA MDM10-1LI  
MDM10-1LW MDM10-1LA

### Leviton SureSlide Dimmer

6613-PLT 6613-PLI 6613-PLW 6613-PLA

### Leviton ToggleTouch Dimmer

TGM10-1LI TGM10-1LI TGM10-1LA TGM10-1LT

### Leviton Vizia Dimmer

VPM06-1LZ

## INSTALLATION INSTRUCTIONS

# LED ESTRIP



## Applications

Building Outlines

Coves

Stairway and aisle lighting

Signage

Backlit panels

Decks

Edge lit glow

Emergency lighting

Pathway lighting

Billboards

Highlighting architectural features

Over/Under cabinets

Decks & Patios

**M** **MAGIC LITE**  
YOUR TRUSTED LIGHTING PARTNER

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