

## Installation Manual for Flexible LED Strip

This flexible LED strip is designed as a lighting solution for halo-lit channel lettering, cove lighting, light box illumination, and architectural applications.

### Step I. General Information:

1. Input voltage – 12V DC
2. Maximum current per strip for white (200 mA), green/blue (240 mA), red/amber (290 mA)
3. Power consumption per strip for white (2.4 Watts), green/blue (3.0 Watts), red/amber (3.5 Watts)
4. Dimensions(L x W x H) – 20" x 0.8" x 0.02"

### Step II. Calculation:

1. Determine the number of LED strips needed for the application.
2. Calculate the load on the power supply.

Strip Color	Max. Current per Strip	Wattage per Strip	Number of Cut Sections per Strip	Length per Strip
	(mA)	(Watt)		(inch)
Red	290	3.5	10	20
Amber	290	3.5	10	20
Blue	240	3.0	10	20
Green	240	3.0	10	20
White	200	2.4	10	20

(Table 1. Power Chart of Flexible LED Strip)

### Step III. Application & Connection:

1. Test fit the strips to determine the lengths that are needed. Cut the strip at the appropriate location (Lines indicated on the strip) to fit the project correctly.
2. Solder power jumper wires from one LED strip to another. Double check the polarity of all connections. ( Grey for "+", White for "-" )

3. Secure LED strips to project surface using mounting holes provided on the strips. If preferred, a suitable adhesive may be used. Clean surfaces thoroughly, before applying adhesive to ensure maximum bonding.
4. When all LED strips are in place, the DC output from the power supply can be connected. Finally, have the AC input from the power supply connected.

**Step IV. Finalization:**

1. Apply silicon sealant or enamel paint to any cut end of LED strip to protect against any corrosion.
2. When finished, liberally apply a clear acrylic spray coating to entire LED strips to seal all electrical pads and connections. This will maximize resistance to moisture and corrosion.

**Warning:**

- a. Make sure all LED strips are connected to a 12V DC, UL recognized class 2, power supply.
- b. Make sure all NEC and local codes are followed.
- c. Due to the power loss/ voltage drop, maximum distance from the power supply to the first LED strip is 15 feet.
- d. Due to the current limitation on the power supply, the following installation guidelines should be followed: 30 continuous feet max. (white/blue/green) connected in series. Or, 25 continuous feet max. (red/amber) connected in series.