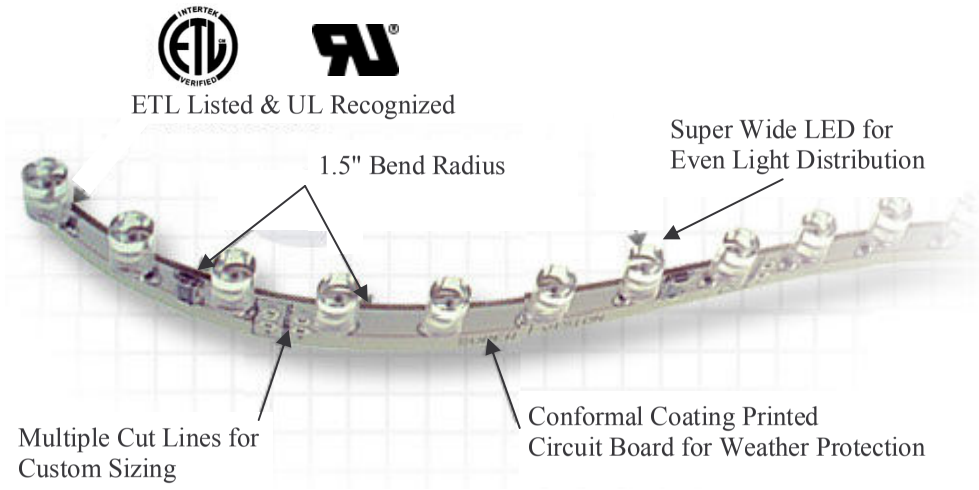
SUPER VISION INTERNATIONAL

Model: Flex-LED

Flex-LED Strip



Installation Manual

Rev. A 12-23-2004

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Step 1: General Information:

The Flex-LED Strip has a 1.50" degree bend radius. Power sockets are located approximately every 3" along the LED strip. Any one of the socket can be used for electrical power to the strip. Also, any one of the sockets can be used with a jumper cable to bring electrical power to any other LED strip.

Warning:

- Make sure all Flex-LED strips are connected to a 12VDC, 5 Amp, UL Recognized Class 2, Power Supply.
- Make sure Flex-LED strips are installed in a sealed enclosure to protect from water damage.
- Make sure all NEC and local codes are followed.

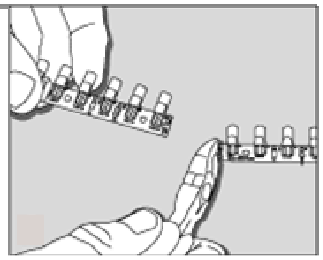
Power Supply Usage Chart			
Flex Color	EVPS150	EVPS60	EVPS60-UL
Clear Red	107 Feet	42 Feet	42 Feet
Deep Red	107 Feet	42 Feet	42 Feet
Orange	107 Feet	42 Feet	42 Feet
Yellow	107 Feet	42 Feet	42 Feet
Amber	107 Feet	42 Feet	42 Feet
Green	46 Feet	18 Feet	18 Feet
Blue	46 Feet	18 Feet	18 Feet
White	46 Feet	18 Feet	18 Feet

Flex-LED Notes:

1. Due to the current limitation on the power connectors (3 Amps) the following installation guide lines must be followed;
   - 16 continuous feet max. (Red, Orange, Yellow & Amber) connected in series.
   - 11 continues feet max. (White, Blue, Green) connected in series.
2. Due to Power Loss;
   - Maximum distance from the Power Supply to the first Flex-LED strip is 30 feet.

Step 2: Cutting LED Strip

Once you have determine the individual lengths of the Flex-LED Strips that is required, Use a wire cut and cut the circuit board at the designated intervals. The intervals are marked with dotted lines.

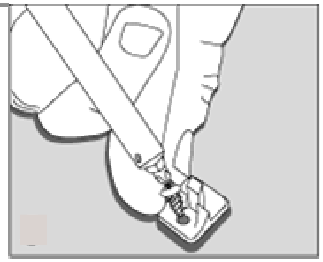


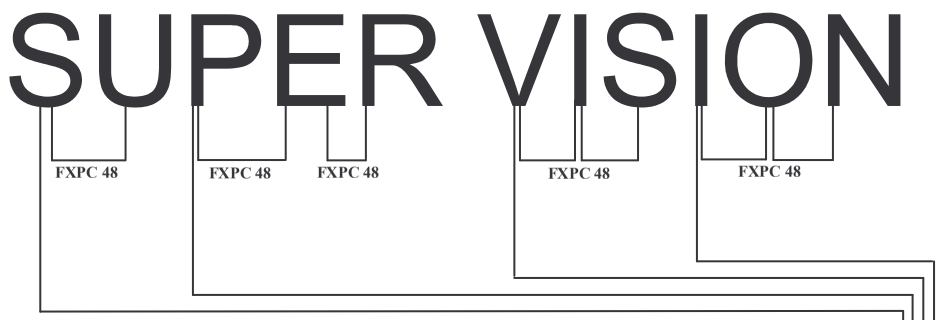
Note: Apply silicone or dielectric grease on all cut area as required to seal against water damage.

Cut on dotted line as shown.

Step 3: Installing Mounting Clips

Mount clips on the Flex-LED strip. Position the Flex-LED Strip in its final position on the mounting surface and mark clip screw holes. Remove clip from strip, using a self tapping or machine screw, secure clips in place. Clips can also be secured using appropriate adhesive for the application.





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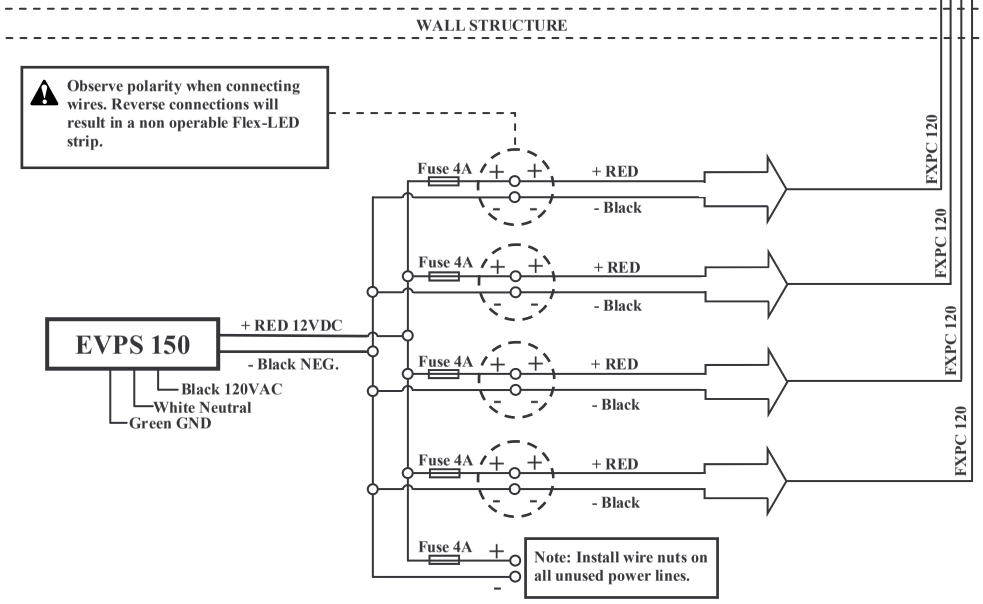

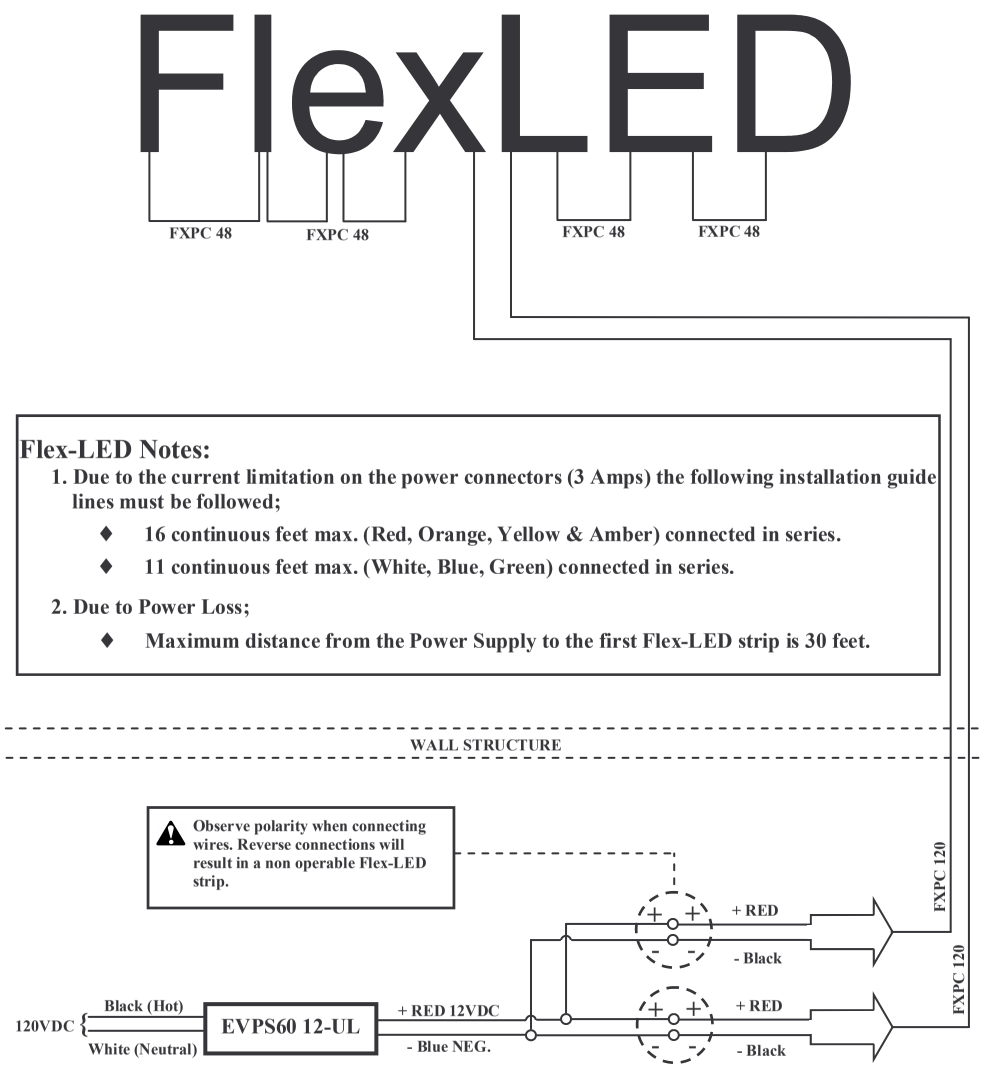

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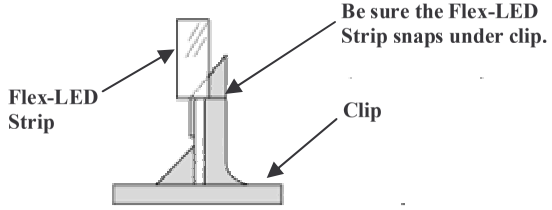
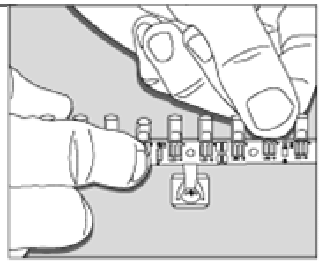
Step 4: Mounting Flex-LED Strip

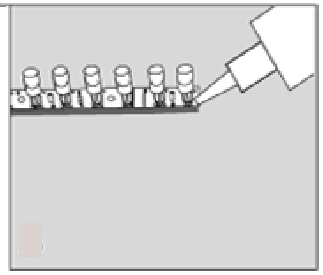
Snap Flex-LED Strips into clips as shown.





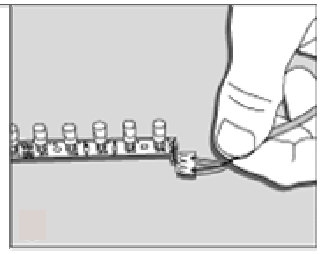
Step 5: Apply Silicone or Dielectric Grease to Following Areas

Apply a small amount of dielectric grease to the pin socket receptacle prior to installing the jumper cable connector, or another option is, after installing jumper cables apply silicone over entire connector plug. Note: All connectors used and unused must be sealed with silicon or dielectric grease to prevent corrosion.



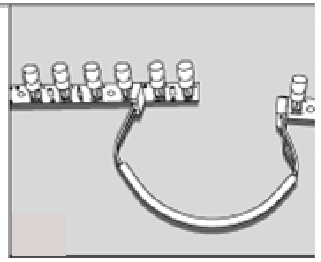
Step 6: Connect Jumper Cables

Snap jumper cable connector plug into pin socket receptacle by pushing firmly into socket.



Step 7: Jumper Connections

Jumper cables can be connected to any available socket on the Flex-LED Strip.



Connecting Input/Output to Power Supply

The Flex-LED Strip Should Only be Installed by Qualified Electrician.

Connecting the Line Voltage Wires:
Black wire to L (Line)
White wire to N (Neutral)

Connecting the Low Voltage Wires:
Connect the Red Wire to + Side.
Connect the Black Wire to - Side.

Flex-LED Power Chart

Flex Color	Max. Current per Foot	Total Wattage per Foot	Number of LED's per Board	Number of Cut Sections per Board
Clear Red	.15 Amp	1.8 Watt	18	6
Clear Red	.12 Amp	1.4 Watt	25	5
Deep Red	.12 Amp	1.4 Watt	25	5
Orange	.12 Amp	1.4 Watt	25	5
Yellow	.12 Amp	1.4 Watt	25	5
Amber	.12 Amp	1.4 Watt	25	5
Green	.26 Amp	3.2 Watt	24	12
Blue	.26 Amp	3.2 Watt	24	12
White	.26 Amp	3.2 Watt	24	12

Specification for Power Supplies

	EVPS60-UL	EVPS60	EVPS150
Input Voltage (Vac)	120 + or - 10%	88 - 264	88 - 132 / 176-264
Input Fregency (Hz)	60	47 - 60	47 - 63
Input Current (A)	0.7	2	3.2
Output Voltage (VDC)	12	12	12
Output Current (A)	5	5	12.5
Output Power (W)	60	150	300
Operating Temperture (C)	- 40 - +60	- 10 - +60	-10 - + 60
Operating Humidity (%)	80 RH	20 to 90 RH	20 to 90 RH
Number of Fuse Outputs	Not Required	3	7
Fuse Rating	N/A	4	4
UL Class 2 Approved	Yes	No	No
ETL Class 2 Approved	No	Yes	Yes
Enclosure	Dry	Dry	Dry

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