

# LED Light Tape Installation Guide



NOTE: This guide is intended for installation PL-XX#-YYO-Z-WWWW series LEDs. These products Class 2 LED Modules, designated as PL-XX#-YYO-Z-WWWW Series where XX may be replaced with LT (Light Tape) or LE (Light Edge); # may be replaced with any numeric character 0 to 9; YY may be replaced with any combination of alpha character AA to ZZ; O may be replaced with any numeric character 0 to 9; Z may be replaced with letter N or P; and WWWWW may be any combination of alphanumeric characters.

1. These products are only intended for use and connection to a Class 2 power source rated 12 Volt DC or less.
2. When these units are connected to a Class 2 circuit, they are not to draw a total wattage of greater than the secondary or output rating of the Class 2 supply.
3. These products are suitable for use in dry, damp and wet locations.
4. These products are not required to be enclosed or protected from the weather in the end product.
5. These products may be secured in place in the end product by any means available.

## Product Specifications

Part Number	Description	Wavelength / CCT	Energy Usage (W/ft.)	Max. Footage (60W Supply)
<b>12 Volt, Standard Output</b>				
PL-LA1-MW1-N-8001	16.4 ft. reel (300 LEDs), 100 LMft.	4300K	1.4	43 ft.
PL-LA1-PW1-N-8001	16.4 ft. reel (300 LEDs), 100 LMft.	6000K	1.4	43 ft.
PL-LA1-UW1-N-8001	16.4 ft. reel (300 LEDs), 100 LMft.	2600K	1.4	43 ft.
<b>12 Volt, High Output</b>				
PL-LT1-UW1-N-8001	16.4 ft. reel (300 LEDs), 165 LMft.	2600K	1.6	37 ft.
PL-LT1-WW1-N-8001	16.4 ft. reel (300 LEDs), 165 LMft.	3100K	1.6	37 ft.
PL-LT1-MW1-N-8001	16.4 ft. reel (300 LEDs), 165 LMft.	4300K	1.6	37 ft.
PL-LT1-TW1-N-8001	16.4 ft. reel (300 LEDs), 165 LMft.	6000K	1.6	37 ft.
PL-LT1-PW2-N-3301	16.4 ft. reel (600 LEDs), 330 LMft.	6000K	3.2	18 ft.
PL-LT1-BL1-N-8001	16.4 ft. reel (300 LEDs)	460 nm	1.6	37 ft.
PL-LT1-GR1-N-8001	16.4 ft. reel (300 LEDs)	525nm	1.6	37 ft.
PL-LT1-AM1-N-8001	16.4 ft. reel (300 LEDs)	592nm	1.6	37 ft.
PL-LT1-RD1-N-8001	16.4 ft. reel (300 LEDs)	625nm	1.6	37 ft.
PL-LT1-RG1-N-3201	16.4 ft. reel (300 RGB 5050 LEDs)	RGB-150	2.2	27 ft.
PL-LT1-RG3-N-3201	16.4 ft. reel (150 RGB 5050 LEDs)	RGB-300	4.4	14 ft.

\*Note: "-N" designation is replaced with "-P" for encapsulated, weather resistant version.

### Connectors:

Single Color Jumper (P/N LT-COM-3528-C) / RGB 150 Jumper (P/N LT-COM-RGB-C)  
Single Color Middle Splice (P/N LT-COM-3528-B) / RGB Splice (P/N LT-COM-RGB-B)

### Troubleshooting:

1. Check primary power power to sign.
2. Check power connection to the LED Class 2 power supply.
3. Check polarity on the DC side (Black+ Red-)
4. Check wire or jumper connections to module (make sure connections ate + to + and - to -) – reseat if needed.
5. If solder joint breaks to the input module or there is a bad connection, all modules after the bad connection will not light.

# Installation & Handling

*Note: This is a flexible product. Use care when handling to prevent breakage.*



1. Clean mounting surface with alcohol to remove dirt or oil. Surface may be the back of the cabinet (single sided), square tubing or extrusion (double sided).



2. Temporarily adhere LEDs to back using masking or electrical tape according to layout or estimate and test to ensure evenness of illumination prior to final install.



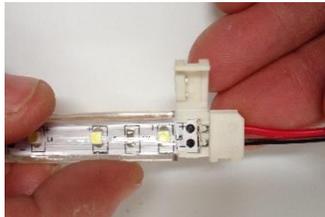
3. If Cutting is required, cut LED strip at cut points only, designated by the line between the corresponding pair of solder / connector dots.



4. For encapsulated products designated "-P", additionally remove the outer jacket by carefully cutting away with a razor blade to expose the connector dots.



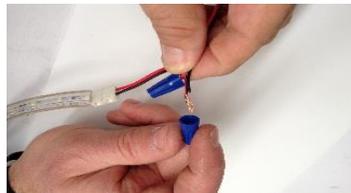
5. For end connection or jumping open one side of the connector and slide the end of the tape until it is flush with the back of the connector as shown. Close the connector top and snap in place. Make sure the (+) dot lines up with the red wire.



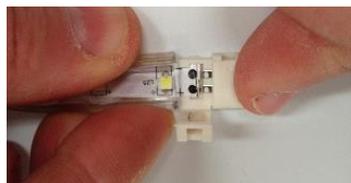
6. If jumper is used on the terminal end to wire to the power supply, the jumper may be cut and stripped.



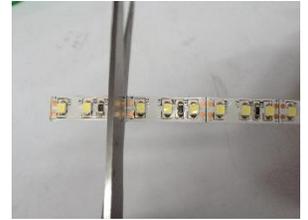
7. Once stripped, the terminal end should be wired to the UL Class 2 power source. Check the footage chart to ensure proper loading.



8. Splice connectors are available for joining cut pieces and each side should be installed following steps 3-5. Make sure to align the (+) dot to the (+) dot on each corresponding side of the splice connector.



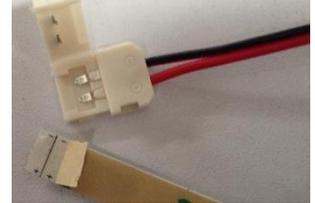
9. For 600 LED Light Tape (PL-LT1-PW2-N-3301), cut the tape just inside of the last LED to expose two pairs of connector dots. This is required in order for the tape to fit into the connector.



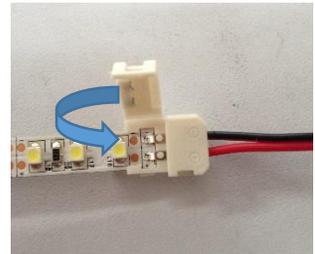
10. For 600 LED Light Tape (PL-LT1-PW2-N-3301), dispose of unused section leaving 4 connector dots exposed.



11. For 600 LED Light Tape (PL-LT1-PW2-N-3301), peel back section of release liner that will be inserted into the connector.



12. For 600 LED Light Tape (PL-LT1-PW2-N-3301), slide end of the tape until it is flush with the back of the connector as shown. Make sure the top pins are aligned with the second pair of connector dots. Close the connector top and snap in place.



13. Test light the material prior to final adhesion to surface to ensure integrity of all connections. Reseat connections if needed.



14. Remove release liner from VHB adhesive and adhere by pressing firmly to the surface of the sign.



15. For outdoor rated (-P) material it is critical to adequately silicone all joints and cut points to prevent water damage. It is recommended to run silicone down the edge of the tape to provide further adhesion.



16. Perform final test light to ensure adequate and evenness of illumination prior to installation.

