

## INSTALLATION INSTRUCTIONS

PLX-HTL-TWR-16



### ⚠ WARNING

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 these instructions, current electrical codes, and/or the current National Electric Code (NEC).

### ⚠ WARNING

Use only with 24V DC drivers with a wattage capacity that can handle the total load; see page 2 for more details. Factory warranty will be void if used with a non-recommended power supply, transformer or driver.

### ⚠ WARNING

To reduce the risk of fire, electric shock or injury to persons, make sure that the electrical power to the system is disconnected at the source prior to installation or any servicing.

### ⚠ WARNING

Never fold Trulux® or bend past the minimum bending radius of 1" whether lighted or unlighted.

## SAFETY INFORMATION

- Read all installation instructions before beginning; if not qualified, do not attempt installation. Contact a qualified electrician.
- To reduce the risk of fire, electric shock, or injury to persons, pay close attention to this manual and stay within its guidelines when using this product. Save these instructions for future use.
- Do not cover this product with paper surface coverings, fabrics, streamers, or other similar combustible materials.
- Do not operate Trulux on the reel, nor while it is coiled.
- This IP54 rated tape light is suitable for indoor use in dry and damp locations, but not for direct contact with water or moisture. Do not submerge flexible light in liquids, or use the product in the vicinity of standing water or other liquids, or where water can accumulate.
- Do not route the cord or tape light through walls, ceilings, doors, windows, or any similar part of the building structure.
- Secure tape light using only the adhesive provided with the tape and/or factory recommended mounting clips, mounting track, and aluminum channel (sold separately).
- Do not secure this product or its cord with staples, nails, or like means that may damage the outer jacket or cord insulation.
- Do not use if there is any damage to the tape light, diodes or power cord insulation; inspect periodically.
- Do not install on gates or doors, or where subject to continuous flexing.
- Do not install in airtight tanks or enclosures of any kinds.
- Size your 24V DC driver appropriately for your run distance. Be sure not to load a driver to 100% as this will reduce its efficiency; a 90% maximum load is recommended.

## LAYOUT CONSIDERATIONS

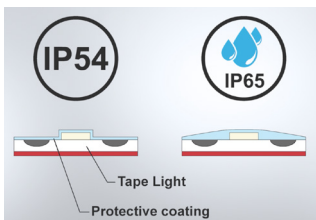
Pay close attention to the following maximum run lengths:

Series	Wattage	Cut Increments	Maximum run	Reel Length
PLX-HTL-TWR Series	5.9W/ft	2.46" (62.5mm)	16.4 feet (48.05 watts)	16.4 feet

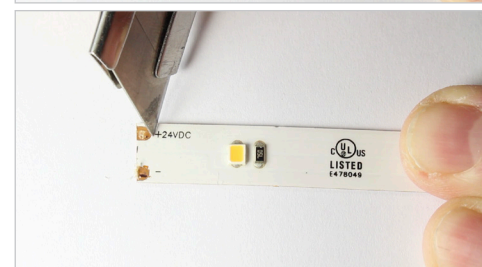
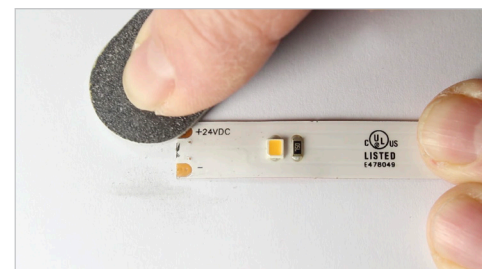
## PRODUCT INFORMATION

IP54 reels include attached 3ft lead wires and (3) TL-4PWR-HD heavy duty snap connectors with wires attached. Mount tape light using the 3M® adhesive on back of tape. Once the protective backing is removed, the tape should be placed on the prepared mounting surface and not be repositioned, removed, or re-used. For best results, let adhesive cure 24 hours prior to first use.

Trulux Wide Range Tunable tape light requires the use of a dimmable driver (with PWM capability) and a DMX controller for color changing operation (not included).



Trulux® tape light utilizes a nano-coating for ingress protection. It is recommended to scrape off the coating from each conductor to ensure a proper connection.



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### CUTTING TRULUX® TAPE LIGHT (See Figure 2):

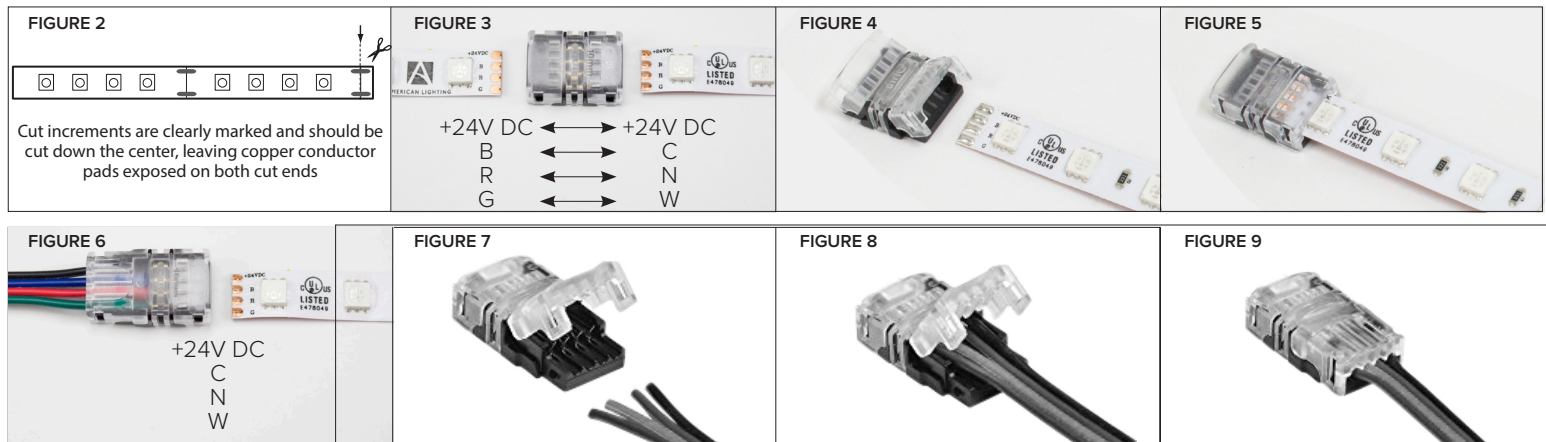
Do not exceed the maximum tape light run length in any single run. Cut increments are clearly marked on the tape light (see Layout Considerations on Page 1). Ensure an even cut along the center of the copper conductors to ensure enough surface area is exposed for snap connector pins to pierce through.

### MAKING A TAPE-TO-TAPE CONNECTION (SEE FIGURES 3-5):

1. Ensure the polarity of the conductors on the two pieces of tape light to be connected are aligned. See Figure 3.
2. Using a 4pin tape-to-tape snap connector, open both sides of the connector so the metal teeth inside are exposed. See Figure 4.
3. Peel a small portion of the protective backing from the tape light on the end to be connected, then insert cut tape light end so the copper pad conductors are aligned with the metal teeth inside.
4. Close snap connector and use pliers to ensure the connector “snaps” through the tape light. See Figure 5.

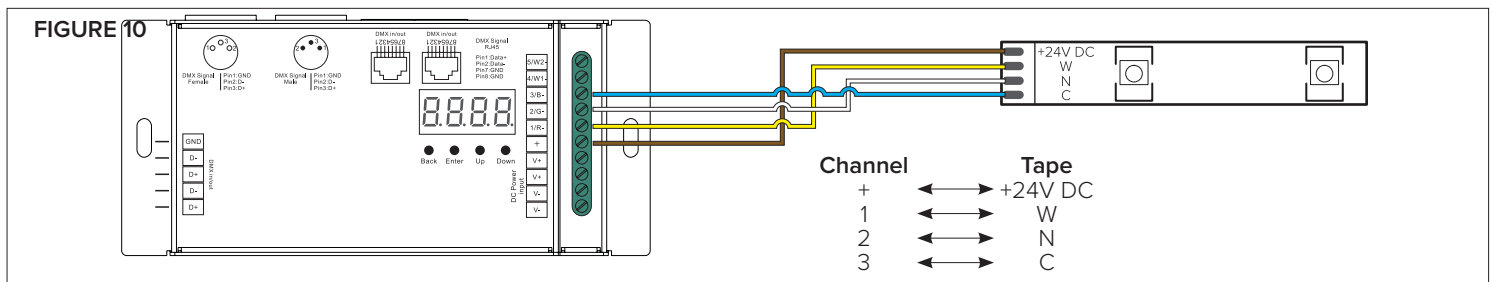
### TO MAKE A TAPE-TO-WIRE CONNECTION (SEE FIGURES 6-9):

1. Using a 4pin tape-to-wire snap connector, follow steps 1-4 from “Making a Tape-to-Tape Connection” above to connect tape light.
2. Ensure polarity of the conductors on the connected piece of tape light and the polarity of the wires align. See Figure 6.
3. Cut desired length of wire being sure to leave approximately 1/2’ on each end to be connected (wire not included).
3. Separate wires slightly so they fit in the grooves of the snap connector. There is no need to strip the wire. See Figure 7.
4. Insert the cut wire into the slots of the snap connector so the wire is aligned with the metal teeth inside. See Figure 8.
5. Close snap connector and use pliers to ensure the connector “snaps” through the wire. See Figure 9.



### CONNECTING TRULUX TO A RECEIVER

1. Determine which receiver and controller you need for the application. Trulux Wide Range Tunable tape is compatible with 3 channel DMX controls and 4pin connectors.
2. Attach power adapter wires to terminals of DMX RECEIVER/DECODER, following polarity markings. See Figure 10 for single receiver connection with one length of tape light attached. Note that the brown lead wire is positive (+), green lead wire is C- and should go to CHANNEL 1-, red lead wire is N- and should go to CHANNEL 2-, and blue lead wire is W- and should go to CHANNEL 3-.



**Important Note:** The National Electrical Code (NEC) does not permit cords to be concealed where damage to insulation may go unnoticed. To prevent fire danger, do not run cord behind walls, ceilings, soffits, or cabinets where it may be inaccessible for examination. Cords should be visually examined periodically and immediately replaced when and damage is noted.