CONTECH LIGHTING | a LEVITON company

# INSTALLATION INSTRUCTIONS

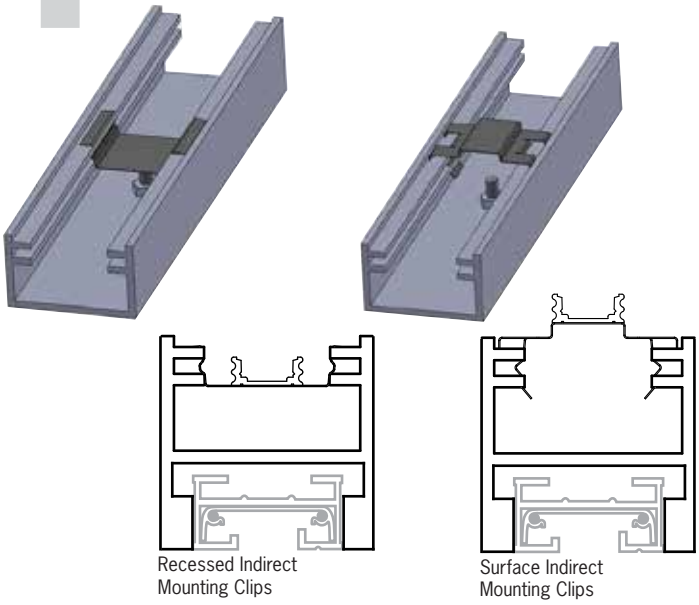
For ConTech Lighting Lux Beam Indirect Uplighting/Tapelight Series

## INSTALLATION PROCEDURES

- Please read all instructions prior to installation.
- Product should be installed by a qualified electrician.
- Prior to installation, pleast test all tapelight components to ensure no damage has occurred during shipment and layout materials to check bill of material.
- In hardwire applications, ensure power is off at fuse box to prevent electrical shock.

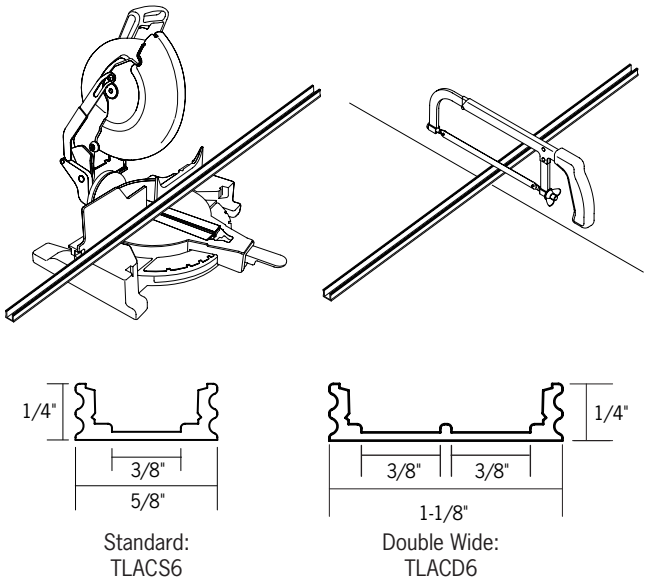
## 1

Add mounting brackets to the the top of the Lux Beam extrusions. Evenly space them about 20" - 24" apart.



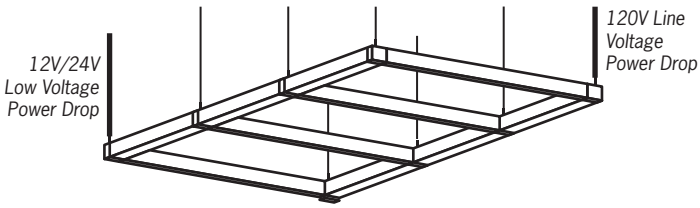

## 2

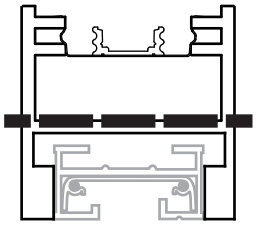
Cut mounting channel to length with hacksaw or miter saw with the appropriate blade for cutting aluminum. Mount channel to mounting brackets using double sided tape.




## 3

Lay out tape light components and plan power drop. Low voltage and line voltage need to be separated.



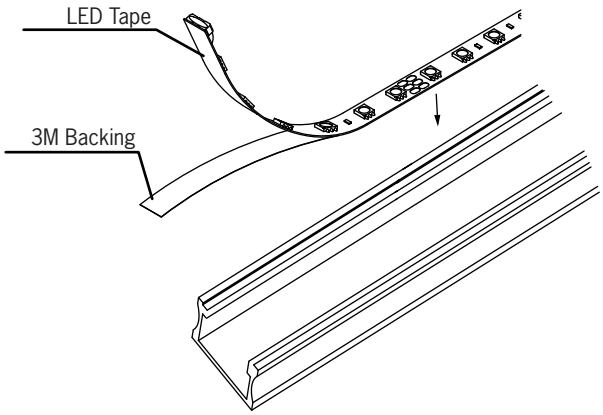



The low voltage wiring only runs on the top portion of the Lux Beam structure

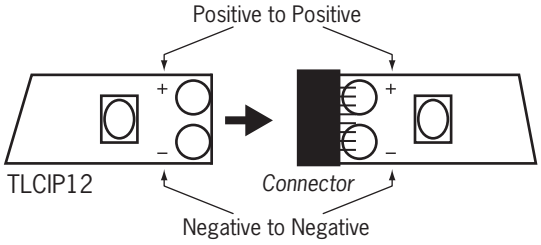
The line voltage wiring needs to be on lower portion of the 2" x 2" connectors

## 4

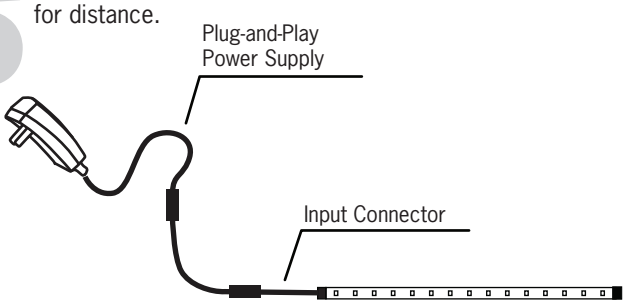
Place tape light in extrusion using the 3M double sided tape on the back of the tape light



## 5 Make all necessary connections, including input connectors




## 6 Install remote power supply. Use appropriate wire guage for distance.




| **Power Supply Wiring Chart** (Copper Wire) | | | | | |
|---|---|---|---|---|---|
| **Wire Gauge** | 20 | 18 | 16 | 14 | 12 |
| **Distance*** | 6 ft. | 10 ft. | 15 ft. | 23 ft. | 40 ft. |

**From driver output to the input connector of the tapelight. 12 Gauge wire recommended.*

## 7 Finally, add any lens and/or endcap cover to finish installation.

## 12V Optimized Light Output Chart

| ConTech POWER SUPPLY INPUT VOLTAGE: 12V DC | | STANDARD OUTPUT 0.7W/FT | | HIGH OUTPUT 1.45W/FT | | SUPER HIGH OUTPUT 3.24W/F | | RGB[1] 3.9W/FT | |
|---|---|---|---|---|---|---|---|---|---|
| **MODEL NO.** | **WATTAGE** | **MAX RUN** | **MAX SPLIT** | **MAX RUN** | **MAX SPLIT** | **MAX RUN** | **MAX SPLIT** | **MAX RUN** | **MAX SPLIT** |
| TPL12VHW20 | 20W | 14FT | 14FT | 10FT | 10FT | 5FT | 5FT | 5FT | 5FT |
| TLP12VP24 | 24W | 17FT | 17FT | 12FT | 12FT | 6FT | 6FT | 5.5FT | 5.5FT |
| TLP12VP36 | 36W | 22FT | 26FT | 17FT | 17FT | 10FT | 10FT | 7FT | 9FT |
| TLP12VP60 | 60W | 22FT | 36FT | 17FT | 28FT | 12FT | 16FT | 7FT | 10FT |
| TLP12VHW60 | 60W | 22FT | 36FT | 17FT | 28FT | 12FT | 16FT | 7FT | 10FT |
| TLP12VHW60 277 | 60W | 22FT | 36FT | 17FT | 28FT | 12FT | 16FT | 7FT | 10FT |

*1. RGB Is at full power (all three LEDs are illuminated). Power consumption may vary based on color changing program.*
***Max split can be split more than once, without exceeding the max single run in each leg.*

## 24V Optimized Light Output Chart

| ConTech POWER SUPPLY INPUT VOLTAGE: 24V DC | | STANDARD OUTPUT 2.1W/FT | | HIGH OUTPUT 3.8W/FT | | RBGW[1] 4.8W/FT | | TUNABLE WHITE[2] 4.3W/FT | |
|---|---|---|---|---|---|---|---|---|---|
| **MODEL NO.** | **WATTAGE** | **MAX RUN** | **MAX SPLIT** | **MAX RUN** | **MAX SPLIT** | **MAX RUN** | **MAX SPLIT** | **MAX RUN** | **MAX SPLIT** |
| TLP24HW20 | 20W | 7 FT | 9 FT | 5 FT | 6 FT | 4 FT | 4 FT | 4FT | 4FT |
| TLP24VP36 | 36W | 11 FT | 16 FT | 7 FT | 9 FT | 7 FT | 7 FT | 8FT | 8FT |
| TLP24VP60 | 60W | 18 FT | 26 FT | 12 FT | 15 FT | 12 FT | 12 FT | 14FT | 14FT |
| TLP24VHW60 | 60W | 18 FT | 26 FT | 12 FT | 15 FT | 12 FT | 12 FT | 14FT | 14FT |
| TLP24VP90 | 90W | 28 FT | 40 FT | 18 FT | 22 FT | 14 FT | 16 FT | 25FT | 40FT |
| TLP24VHW96 | 96W | 32 FT | 45 FT | 20 FT | 25 FT | 16 FT | 20 FT | 27FT | 45FT |

*1. RGBW is at full power (all four LEDs are illuminated). Power consumption may vary based on color changing program.*
*2. Tunable White is at full power (both LEDs are illuminated). Power consumption may vary based on color temperature combinations.*
**Max split can be split more than once, without exceeding the max single run in each leg.*

- *Max Run refers to the total single run of tapelight that can go on a power supply. Max Split refers to the total amount of tapelight that can go on a driver if it were separated into two runs.*
- *Max Run lengths are calculated with 12V DC at the start of the tape run. Voltage drop may occur if not using proper wire gauge. Please refer to the Power Supply Wiring Chart on page one of these instructions.*
- *Max Run lengths above are calculated with no more than 30% light loss from the start of the tape run to the end of the tape run for optimal light consistency. If run lengths are extended beyond the recommended lengths noted above, there will be inconsistent light output and voltage drop.*

### IMPORTANT SAFETY INSTRUCTIONS:

- Read all the instructions before installation. Save instructions for later use.
- Turn off power at fuse or circuit breaker box before installation or before doing any maintenance work.
- Product must be grounded to avoid potential electric shock and any other potential hazards.
- Product must be mounted in locations and at heights and in a manner consistent with its intended use, and in compliance with National Electrical Code and local codes. Use of accessory equipment is not recommended.
- Installing contrary to instructions may cause unsafe conditions.
- Do not block light from the trim aperture, in whole or in part, as this may cause unsafe conditions.
- **Warning:** Risk of fire. Most dwellings built before 1985 have supply wire rated at 60°C. Consult a qualified electrician before installation.
- To avoid hazards to children, account for all parts and properly dispose of all packing materials.
- Call the Technical Support department at ConTech Lighting with any installation questions: 847.559.5500.