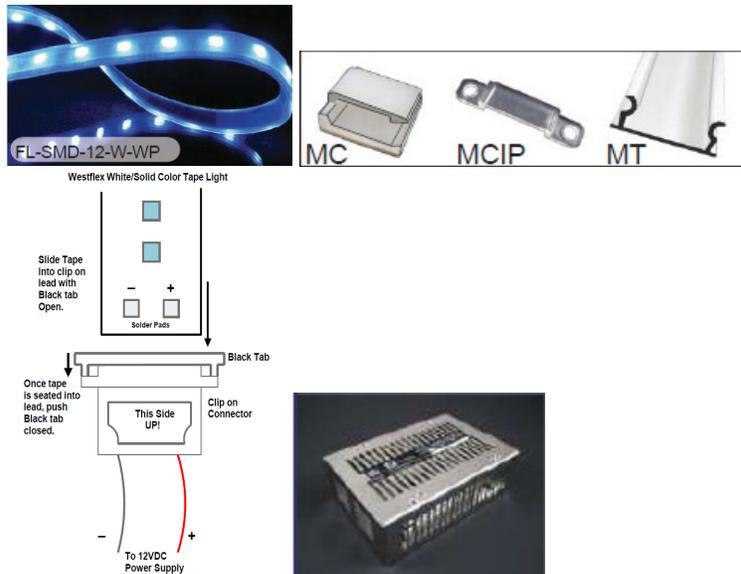


# Westflex Family of Tape Lights, Installation Instructions



This set of instructions applies to the Westflex family Solid Colors and White Lights only, to include Covemax X, Covemax, Westflex SMD and Value Series.

This family of tape lights is designed to be a modular product in that it can be cut to length in the field, and all the accessories can be clipped together to make a complete working system. A typical system includes 4 components:

1) **Tape Light.** The Covemax X, Covemax and Westflex SMD come on 20' spools and the Value Series comes on a 16.4' (5m) spool. These tape lights can be cut every 2" (as shown on the tape with a dashed line and scissor marker). Solder pads are at each cut joint for connection to the 12VDC power supply. Note that it is imperative to run the 12V+ and 12V- to their respective outputs on the power supply.

2) **Mounting Track or Mounting Clips.** The Mounting Track (TPR-FL-SMD-MT) is a low profile aluminum channel into which the tape light press fits. This keeps the tape rigid for straight runs. It mounts to the substrate via the track clips provided- these clips mount via a #6 screw and the track simply clips down. If you don't wish to use the Track Clips you can use a double stick VHB tape on the back of the track. The Mounting Track comes in 6' lengths and can be cut with a mitre box or hack saw. The Mounting Clips come in 2 versions- adhesive mount (TPR-FL-SMD-MC) and screw mount (TPR-FL-SMD-MCIP).

3) **Wiring Leads.** Wiring leads can be done one of two ways- either we can cut fixtures to specific lengths at the factory, in which case we solder on leads of specific lengths (TPR-FL-SMD-T(length in feet)), or we can supply clip on leads (TPR-FL-SMD-2PIN-C) that simply clip to the end of the tape light solder pads. Note that the clip on leads must be put in the UP position (UP points towards the light output from the LEDs). The wires in both wiring cases will be marked + and -.

4) **Power Supplies.** We have a range of power supplies to choose from, to include Plug In, Indoor Enclosed, Dimmable and Outdoor Rated. The most popular is the Enclosed version. A typical ordering code for the Enclosed 100W is (TPR-PS100-EC). The power supply takes in 120VAC and spits out 12VDC. Note that this is DC and polarity must be maintained with the tape light.

## **Installation-**

- 1) The first thing to do is measure your run. Let's say we have a cove that is 36'6" long. We would use one 20' spool and would cut another 20' spool at 16'6". Note that if this was 36'7" we would still cut it at 16'6" because the tape lights cut every 2".
- 2) We would now take our 6' long mounting tracks and put down the Track Clips every 2-4' using a #6 screw. The mounting tracks are 6' long so we would need 6 of them and one 6" piece (I would recommend simply spacing them out an inch to make up for the 6" piece).
- 3) The Tape Light then press fits into the Track. Once you have the tape light mounted into the track you can clip on your leads. The leads have a small black push button tab that must be in the out position when it slides over the end of the tape. You must have the UP pointed the same way as the LED's to maintain polarity. Once the clip is over the end of the tape you push in the tab in to lock it down on the solder pads. Wires can then be added to this initial lead to wire back to the power supply. Important! You must run the 12VDC+ and 12VDC- to their correct posts on the power supply. We put a resistor on the board which will blow if polarity is reversed- and typically a 2" section of the tape will go out permanently. When we get the "defective" tape light back we will know if it was hooked up with reverse polarity and it will not be covered under warranty.
- 4) Mount and wire the Power Supply. Power Supplies get 120VAC (or 240V, 277V according to your project) and spit out 12VDC to the tape lights. Note that all the Solid color and White Light Tape lights use roughly 2W/ft, so you can total up the number of feet being run to a specific power supply and rate it accordingly. For our 36'6" run above we would have a draw of 73W so we would probably choose a 100W power supply to cover the load. Note that multiple runs of tape light can be run to one power supply, you just have to add up the total number of feet and multiply by 2W/ft to get the total load. These multiple run leads are simply stacked up on the 12VDC + and - outputs on the power supply. Remember- Polarity!!
- 5) Notes on the Various tape lights and their wiring. This family of tape lights is designed to be fed power from one end in shorter runs and from both ends in longer runs. This keeps the LEDs evenly lit along the run.

**Westflex SMD and Value Series Tape Lights.** You can run up to 10' of tape on one wiring lead. 11' to 20' runs must be fed with leads from both ends.

**Covemax-** You can run up to 15' from one wiring lead. 16' to 20' must be fed with leads from both ends.

**Covemax X-** You can run up to 12'6" from one wiring lead. 13' to 20' must be fed with leads from both ends.

You can run wiring leads up to 35' back to the power supply with 18AWG wire. Anything over 35' you must consult the wiring gauge calculator chart on the TPR website under Support. [www.tprlights.com](http://www.tprlights.com)