

# Kichler Design Pro LED String Linear Installation Instructions

P/N: 12320BK, 12320WH

Dev. No: CP300303(##)

(##) May be suffixed with two letters including BK or WH optionally followed by a number including 50, 45, 40, 25 or 20.

## BEFORE INSTALLING:

All installations should comply with national and local electrical codes. If you have any doubts concerning installation contact a qualified licensed electrician. For use only with Kichler LED 24VDC Class 2, 5A MAX power supplies. Suitable for dry location only.

**NOTE:** Read all instructions thoroughly before starting installation.

## PLEASE SAVE THESE INSTRUCTIONS

1. Turn off power before modifying the system.
2. This fixture can be used with Kichler® Design Pro LED Lighting fixtures and accessories.
3. This fixture must be connected to a Kichler Class 2 - 24VDC power supply.  
**NOTE:** Power connection cables (P/N: 12344BK, 12344WH 12346BK, 12346WH) are UL rated CL2. Installers should check with local building codes to determine if CL2 wire can be run through floors, walls, and ceilings
4. Maximum number of fixtures per run should not exceed power supply wattage rating.  
**NOTE:** After determining the layout of the system, add the wattage of each system component together to calculate the total system consumption. The component wattages are marked on the products themselves. The calculated total system consumption should be equal or less than the 24VDC Class 2 power supply rating that is being used.

## Installing the LED Linear

1. Plan the layout of your LED Linear system. Determine the need and location of splits, connections, and jumper wires before beginning the install.
2. Kichler LED Linear can be installed using a track (for simple straight line applications) OR by itself (for complex or curved applications)

### WITH TRACK

- A. Determine the desired location for mounting the LED Linear product. The mounting surface should be a minimum of 1/2" thick and approximately 2" clearance for connectors, converters, or interconnect cable should be allowed at both ends of the track.
- B. Position the track against the mounting surface. The track can be mounted flush against wall or cabinet lip if desired.
- C. Drive pre-installed screws into mounting surface until track is secure. **NOTE:** DO NOT OVER TIGHTEN SCREWS.
- D. Snap LED Linear string into track. (See Figure 1)

### LED LINEAR STRING ALONE

- A. Determine the desired location for mounting the LED Linear product.
- B. Start threading the screw into the center hole of the pod until threads are secure and screw is retained in place. **NOTE:** It is not necessary to install a screw in every pod. Screws are suggested every 6" or every other pod.
- C. Position the LED Linear string against the mounting surface.  
**NOTE:** For complex installations Kichler double-sided tape (10298 WH - sold separately) can be used to hold the string in place while configuring the layout.
- D. Drive screws into mounting surface until fixture is secure. (See Figure 2)  
**NOTE:** DO NOT OVER TIGHTEN SCREWS.

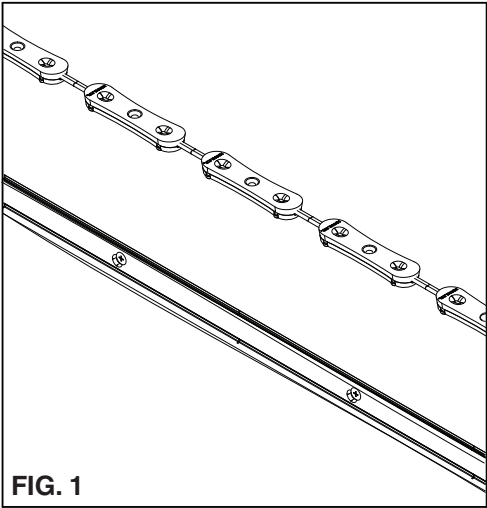


FIG. 1

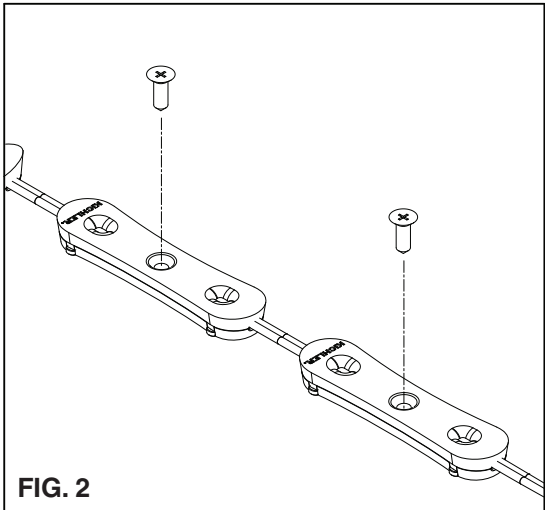


FIG. 2

## Adding 12332BK or CP12333BK (available separately)

1. Cut the wire precisely halfway between two pods of the LED Linear. The LED Linear connectors require 3/8" of wire to make a secure connection; an exact cut in the center of the wire is critical. (See Figure 3)
2. **Do not split or strip the wire.** Note the 1 – 2 – 3 labeled on the top side of the connector just above the transparent gray button. Insert the dashed side of the wire into the #1 hole. The non-dashed side will be along side in the #2 hole. (See Figure 4) Ensure that the wire is fully seated into the connector (approximately 3/8" of engagement.) **NOTE:** THIS SYSTEM IS POLARIZED. THE LEDs WILL NOT LIGHT IF THE POLARITY OF THE WIRES IS REVERSED.
3. By hand or using standard pliers, snap the button down until the gray face is flush with the rest of the connector. **NOTE:** THIS IS A ONE-TIME SNAP CONNECTOR. CHECK THE POLARITY AND THE SEAT OF THE WIRE BEFORE SNAPPING DOWN.
4. **To correct an unsuccessful connection:** The installed connector can not be recovered and will need to be replaced.

**ON EMPTY WIRE:** If the unsuccessful connector is on a run of empty wire (12323BK or 12323WH) cut the wire close to the connector. Install a new connector onto the wire that was just cut, ensuring the dashed wire is inserted into the #1 hole and the wire is fully seated (3/8" engagement) in the hole.

**BETWEEN OR NEXT TO A POD:** If the unsuccessful connection is next to a pod, both the connector and the adjacent pod must be discarded. Locate the unsuccessful connection and the adjacent pod. On the opposite end of the located pod, cut the wire precisely along the cut line. Install a new connector onto the wire that was just cut, ensuring the dashed wire is inserted into the #1 hole and the wire is fully seated (3/8" engagement) in the hole. The discarded pod can be replaced by installing connectors (12332BK and/or 12333BK) on each end of a single pod

## Connecting Fixture to Power Supply:

1. Insert installed LED Linear Male Connectors into System Converter Plug (12338BK, 12338WH, 12339BK, 12339WH - available separately). **NOTE:** These are polarized connections, if the connector does not fit easily, flip it over and try again.
2. Plug the System Converter Plug directly into the power supply (available separately) or power supply cable (available separately). **NOTE:** These are polarized connections, if the connector does not fit easily, flip it over and try again.

## Connecting Other Design Pro Fixtures or Accessories:

Kichler LED Linear can be connected to Design Pro undercabinet units by using one of the Kichler System Converter Plugs (12338BK, 12338WH, 12339BK, 12339WH - available separately). **NOTE:** THE LED LINEAR CAN BE INSTALLED IN LINE WITH THE DESIGN PRO UNDERCABINET UNITS. HOWEVER, IN INSTALLATIONS THAT PLACE LED LINEAR IN BETWEEN TWO DESIGN PRO UNITS, THE POWER SWITCH SIGNAL WILL BE INTERRUPTED. AN ADDITIONAL DESIGN PRO POWER SWITCH WILL NEED TO BE INSTALLED ON THE SECOND HALF OF THE DESIGN PRO SYSTEM TO CONTROL THE INTENSITY AND POWER OFF.

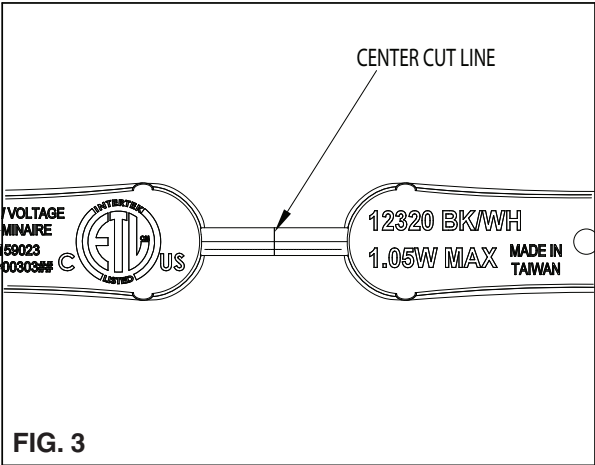


FIG. 3

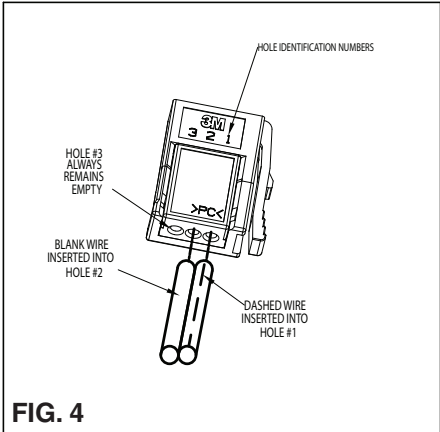


FIG. 4

