

Fixed Color Outdoor 49.2 ft (15 m), RGBW Outdoor 36 ft (11 m) Linear Light

Supported models

- C4-LAO-F30-50, Fixed Color Outdoor Linear Light
- C4-LAO-RGBW-36, RGBW Outdoor Linear Light

Introduction

Vibrant Fixed Color and RGBW Outdoor tape light provides seamless lines of direct view lighting. This durable tape light is UV, flame, and saltwater resistant and easy to install. The fixed color model simply requires a 24V dimmable power supply and compatible dimmer switch. The RGBW model requires a 24V power supply and a DMX decoder or Zigbee controller.

Box contents

For Fixed Color models only:

- End cap (3)
- Left entry, 2-pin connector (1)
- Right entry, 2-pin connector (1)
- For RGBW models only:
- End cap (3)
- Left entry, 5-pin connector (1)
- Right entry, 5-pin connector (1)

Accessories (not included)

For Fixed Color models only:

- C4-LCO1-2WL-S, 2-pin jumper, 6" (152.4 mm)
- C4-LCO1-2WL-L, 2-pin jumper, 24" (609.6 mm)

• C4-LEE5-UO-3F, Universal Outdoor Extrusion 3.25 ft (1 m) For RGBW models only:

- C4-LCO1-5WL-S, 5-pin jumper, 6" (152.4 mm)
- C4-LCO1-5WL-L, 5-pin jumper, 24" (609.6 mm)
- C4-LEE5-UO-3F, Universal Outdoor Extrusion 3.25 ft (1 m)

Specifications and supported load types

The specifications are described below.

Model	Fixed Color	RGBW
Model numbers	C4-LAO-F30-50	C4-LAO-RGBW-36
Color temperature	2700K, 3000K, 4000K	RGBW (3000K)
Voltage	24V DC	24V DC
Wattage	3.05W/ft (10W/m)	4.57W/ft (15W/m)
Lumens	Up to 167 Lm/ft (548 Lm/m)	Up to 134 Lm/ft (440 Lm/m)
IP rating	IP67 – Jacketed	IP67 – Jacketed
Operating temperature	-13 to 113°F (-25 to 45°C)	-13 to 113°F (-25 to 45°C)
Maximum run	55.7 ft (17 m)	16.4 ft (5 m)
Tape size	0.63 × 0.59" (16 × 15 mm)	0.63 × 0.59" (16 × 15 mm)
Cutting increment	1.96" (50 mm)	2.46" (62.5 mm)
Reel length	16.4ft (5 m)	16.4 ft (5 m)
Dimming	5-100% (ELV TRIAC)	5-100% (DMX controls)
Control method	24V DC power supply, dimmer switch	24V DC power supply, DMX decoder

Warnings and considerations

IMPORTANT! Read all installation instructions before beginning; if not qualified, do not attempt installation. Contact a aualified electrician

IMPORTANT! 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.

IMPORTANT! Do not cover this product with paper surface coverings, fabrics, streamers, or other similar combustible materials.

IMPORTANT! Do not operate Vibrant on the reel, nor while it is coiled. IMPORTANT! Do not route the cord or tape light through walls, ceilings, doors, windows, or any similar part of the building structure.

IMPORTANT! Secure tape light using only the adhesive provided with the tape and/or factory recommended mounting clips, mounting track, and aluminum channel (sold separately).

IMPORTANT! Do not secure this product or its cord with staples, nails, or like means that may damage the outer jacket or cord insulation. IMPORTANT! Do not use if there is any damage to the tape light, diodes

or power cord insulation; inspect periodically. IMPORTANT! Do not install on gates or doors, or where subject to

continuous flexing

IMPORTANT! Do not install in airtight tanks or enclosures of any kinds. IMPORTANT! 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; an 80% maximum load is recommended.

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.

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 Vibrant® or bend past the minimum bending radius of 9.4" (24 cm) whether lighted or unlighted.

WARNING! This device must be protected by a circuit breaker (20A max).



MPORTANT! Using this product in a manner other than outlined in this document voids your warranty. Further, Snap One is not liable for any damage incurred with the misuse of this product.

IMPORTANT! Snap One does not guarantee the performance of any bulb or lamp/fixture in your environment. Customer assumes all risks, including any damage to control4 products, associated with (i) the type, load rating and quality of the bulb and lamp/fixture, or (ii) any use or installation not in accordance with the documentation furnished by Snap One, either with the Snap One product or at www.snapone.com.

Installing the tape light

Ensure that the location and intended use meet the following criteria:

- Your tape light does not exceed the maximum run length.
- Your power supply is rated for the total wattage of the run.
- The voltage drop from the tape light length and the length of connecting wires does not go below 21.6V.
- Your tape light does not exceed the minimum bending radius of 9.4" (24 cm) and does not twist, hang, or sag.

WARNING! If bending this tape light, bend it only as shown below to prevent product damage.



To install the tape light, perform the following steps:

- 1 Before you install the tape light, connect all connectors with lead wires and jumpers.
- 2 Align the end of the tape so that it is centered in the extrusion and parallel with its sides.
- **3** Using firm pressure, work your way along the tape, pressing it into the extrusion.
- 4 If installing the tape light to a curved surface, you may cut the extrusion into smaller segments. However, they must be spaced closely enough that the tape light does not hang or sag.

Cutting the tape light

Do not exceed the maximum tape light run length in any single run.

Cut the tape light only at a designated cut increment found on the back of the tape light. Using an appropriate utility blade (not scissors or side cutters), align the blade with the cut increment line and gently cut straight down through the body of the tape light.



WARNING! Ensure the cut angle is 90°. Cutting diagonally or horizontally through the tape light body may damage the tape light. All cuts must be sealed using a connector, jumper, or end cap.

Installing connectors or jumpers onto the tape light

- 1 On the back of the tape light, each cut increment is labeled with an L (left) or an R (right). If connecting to an end labeled with an L, use a Left Entry connector and for an end labeled with an R, use a Right Entry connector.
- 2 Slide the square, metal retainer onto the lead wire.
- **3** Insert the small, plastic U-shaped plug into the tape light end. The prongs go on top of the inner LED tape. Ensure that the plug is flush with the end of the tape light.



IMPORTANT Inserting the plug may be difficult, but it is important for waterproofing and ensuring proper fit of the rest of the connector.



4 Orient the plastic shell so that the screw holes are facing out toward the end of the tape light and the open spaces are on the sides and bottom of the tape light. Slide the plastic shell over the tape light end and push until seated.



- 5 Turn the tape light upside down. Lock the clip into the shell tightly. Avoid using tools for this as they may damage the components.



6 Place the silicone pad onto the toothed end of the connector or jumper.





7 Insert the cable with the silicone pad into the shell on the tape light. Ensure the teeth are placed between the inner LED tape and the bottom of the tape light. The contacts are underneath the inner LED tape.



8 Slide the metal retainer against the shell and install the four screws



Installing end caps onto the tape light

1 Orient the plastic shell so that the screw holes are facing out toward the end of the tape light and the open spaces are on the sides and bottom of the tape light. Slide the plastic shell over the tape light end and push until seated.



2 Turn the tape light upside down. Lock the clip into the shell tightly. Avoid using tools for this as they may damage the components.



3 Insert the silicone pad and the plastic bushing into the shell. Then secure the metal retainer to the shell using four screws.





Connecting power to Fixed Color Outdoor Tape Light

Two-wire tape lights may be controlled by many methods such as a dimmer or switch, a wired multi-channel system, or a wireless Zigbee controller.

The diagram below illustrates a dimmer control scheme. For other control methods, refer to their respective install guides.



NOTE: A dimmer or switch control scheme cannot be used in conjunction with a multi-channel control system.

- 1 Ensure the power source is disconnected.
- Connect the tape light to the 24V power supply as shown below. 2
- Connect the power supply to the line voltage source (e.g. dimmer). 3

Warranty and legal information

Find details of the product's Limited Warranty at snapone.com/legal or request a paper copy from Customer Service at 866.424.4489.

Find other legal resources, such as regulatory notices and patent information, at snapone.com/legal.



Connecting the DMX decoder to RGBW Outdoor Tape Light

Five-wire tape lights may be controlled by a wired multi-channel system (e.g. DMX decoder), or a wireless Zigbee controller. The diagram below illustrates a DMX control scheme. For other control methods, refer to their respective install guides.

- Ensure the power source is disconnected from the DMX decoder. 1
- Connect the tape light to the DMX decoder as shown below. 2
- 3 Refer to the DMX decoder documentation for additional communication and power connections.



