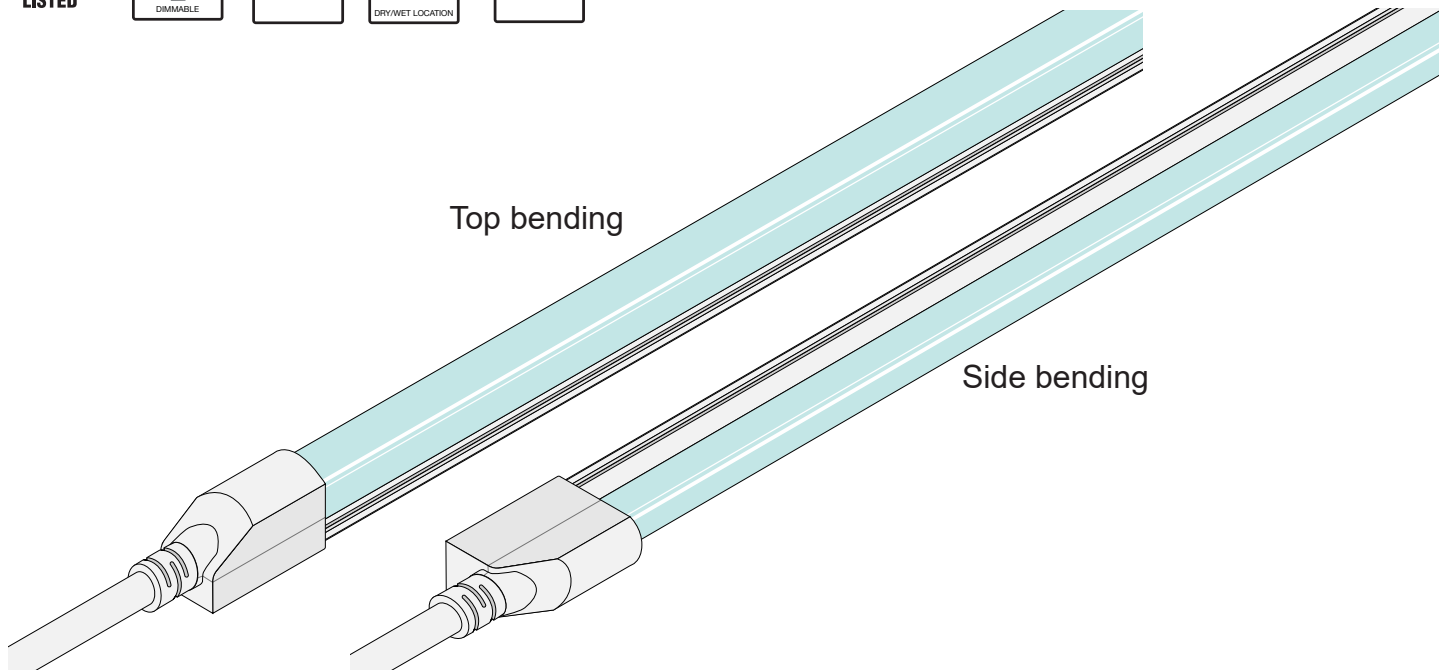




SAFETY & WARNINGS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. Install in accordance with national and local electrical code regulations.
2. This product is intended to be installed and serviced by a qualified, licensed electrician.
3. Do not modify or disassemble this product beyond instructions or the warranty will be void.
4. Do not use if there is any damage to the fixture or wiring. Inspect periodically.
5. Do not submerge Strip Light in liquids or use the product in the vicinity of standing water or other liquids.
6. Do not install near areas with exposure to chlorinated water. (Salt water environments are approved)
7. Do not attempt to fix this product in the field.
8. Failure to follow safety warnings, and installation instructions will void the warranty for this product.



QUICK SPECS / MODELS

Input	24VDC Constant Voltage
Power	1.2w/ft. / 2.7w/ft. / 4.4w/ft.
Ambient Temp †	-4° - 122°F (-20° - 50°C)
Environment	Indoor/Outdoor/IP65

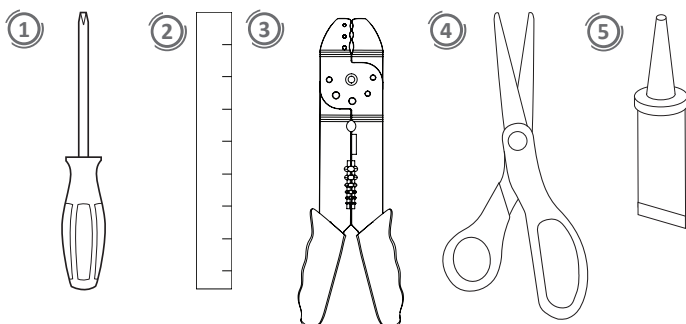
† Do not install product in environment outside listed temperature.

***NOT FOR USE IN SUBMERSIBLE APPLICATIONS, OR WITHIN 5 FEET OF A SWIMMING POOL.**

NEON BLAZE™ 24V LED Strip Light

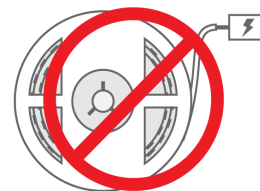
INSTALLATION GUIDE

REQUIRED TOOLS

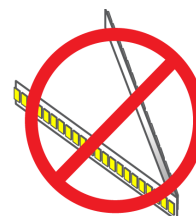


1. Phillips-head Screwdriver
2. Ruler (Recommended)
3. Wire Stripper (Recommended)
4. Cutting tool if cutting tape light to a specific length.
5. Sealant if cutting tape light to a specific length and installing in a wet location. Recommended sealant is the DI-WPSL, or equivalent.

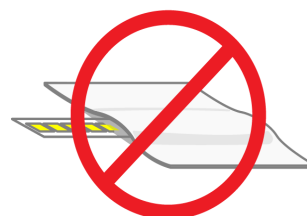
HANDLE PRODUCT WITH CARE!



DO NOT POWER TAPE LIGHT WHILE ATTACHED TO SPOOL OR TIGHTLY COILED.

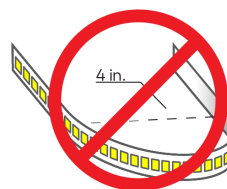


DO NOT FOLD, CREASE, OR TWIST LED TAPE LIGHT.

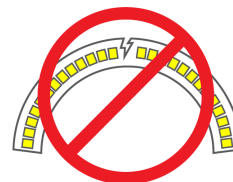


DO NOT COVER TAPE LIGHT WITH ANY MATERIALS.

TOP BENDING NEON BLAZE™ LED Strip Light

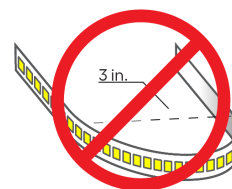


DO NOT BEND LED TAPE LIGHT TO A DIAMETER LESS THAN 4 INCHES.

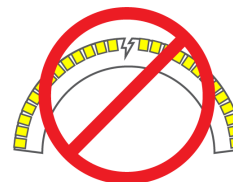


DO NOT BEND LED TAPE LIGHT ON A HORIZONTAL PLANE.

SIDE BENDING NEON BLAZE™ LED Strip Light



DO NOT BEND LED TAPE LIGHT TO A DIAMETER LESS THAN 3 INCHES.



DO NOT BEND LED TAPE LIGHT ON A VERTICAL PLANE.

NEON BLAZE™ 24V LED Strip Light

INSTALLATION GUIDE

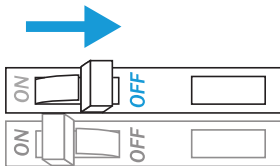
INSTALLATION

Note: Failure to follow installation instructions may void warranty.

① TURN POWER OFF AT CIRCUIT BREAKER

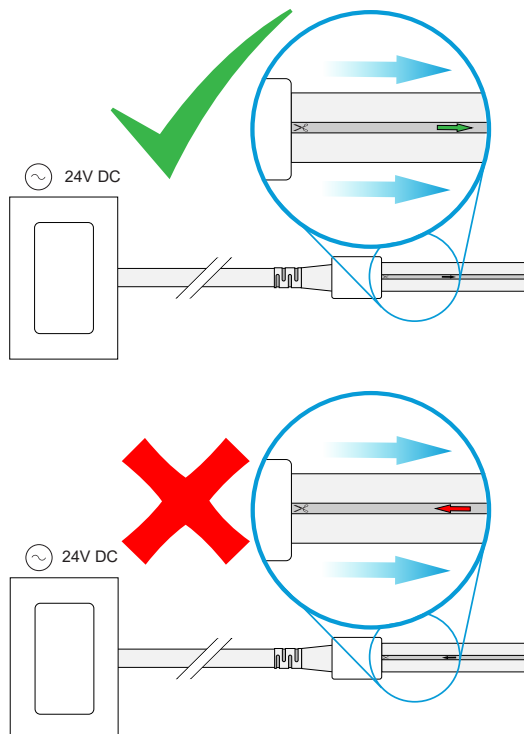


SHOCK HAZARD! May result in serious injury or death.
Turn power OFF at circuit breaker prior to installation.



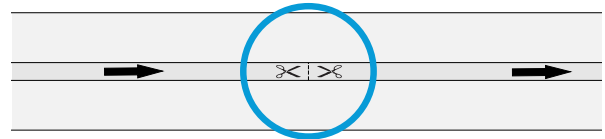
② PREPARE NEON BLAZE™ LED STRIP FOR INSTALLATION

2.1 Before cutting or attaching connectors, ensure that the arrows on the underside of the Strip Light point away from initial connection.



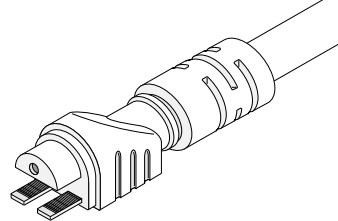
2.2 Skip to 3.3 if not cutting to specific length.

If cutting to length, ensure to cut the Strip Light at the designated cut points only. Cutting anywhere else will cause damage to the Strip Light.

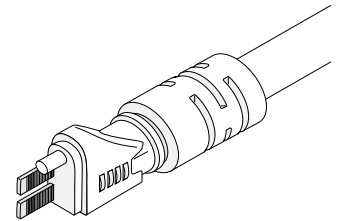


③ CREATE CONNECTION

TOP BENDING CONNECTOR

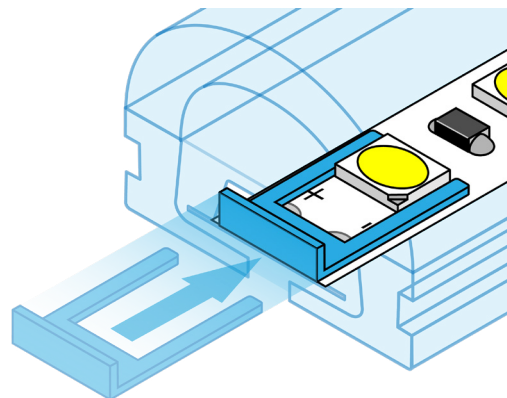


SIDE BENDING CONNECTOR



3.1 INSERT SPACER

Insert spacer directly OVER LED Strip Light allowing each arm of spacer to slide next to first LED. Spacer must be used to maintain warranty.



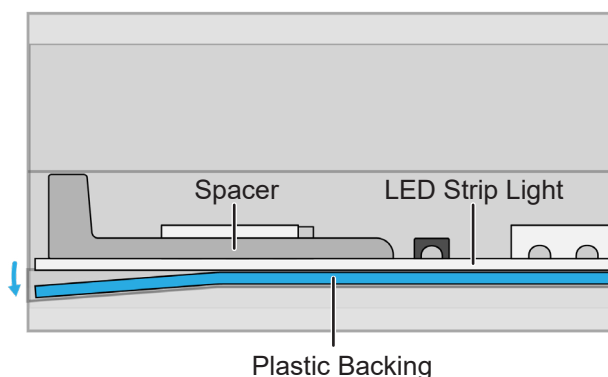
NEON BLAZE™ 24V LED Strip Light

INSTALLATION GUIDE

INSTALLATION (CONT.)

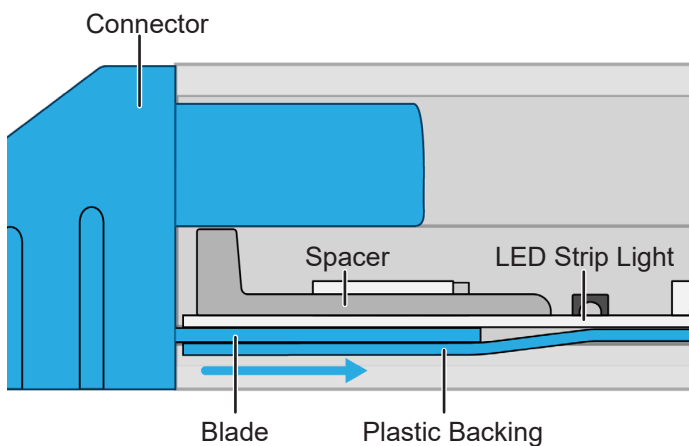
3.2 OPEN SPACE FOR CONNECTOR

Locate Plastic Backing underneath LED Strip Light. Using fingernail or small object, separate Backing from LED Strip Light.



3.3 INSERT CONNECTOR

Slide blades of connector directly **UNDER** LED Strip Light, and **ABOVE** Plastic Backing, then press firmly.

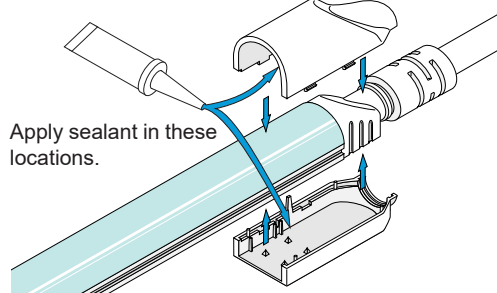


3.4 COVER CONNECTOR

Connect top and bottom halves of connector cover together completely surrounding connection point.

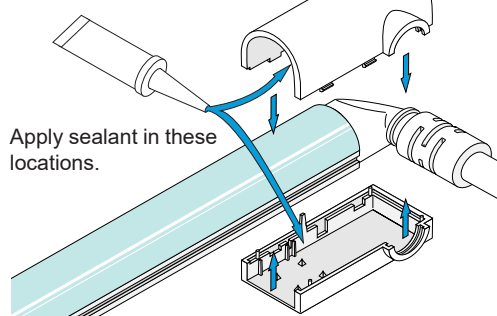
STRAIGHT WIRE ENTRY

**Top bending NEON BLAZE™ LED Strip Light shown.*



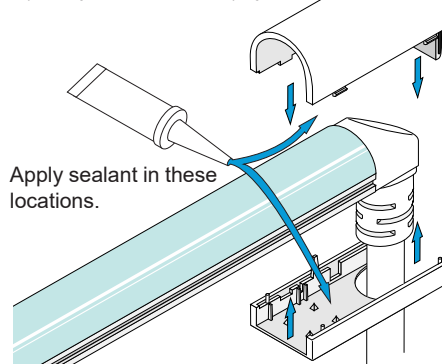
SIDE WIRE ENTRY

**Top bending NEON BLAZE™ LED Strip Light shown.*

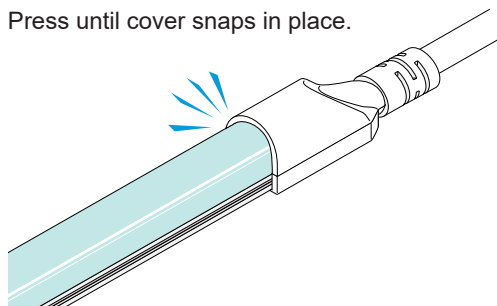


BOTTOM WIRE ENTRY

**Top bending NEON BLAZE™ LED Strip Light shown.*



Press until cover snaps in place.



NEON BLAZE™ 24V LED Strip Light

INSTALLATION GUIDE

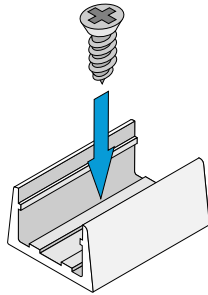
INSTALLATION (CONT.)

4 MOUNT NEON BLAZE™ LED STRIP LIGHT

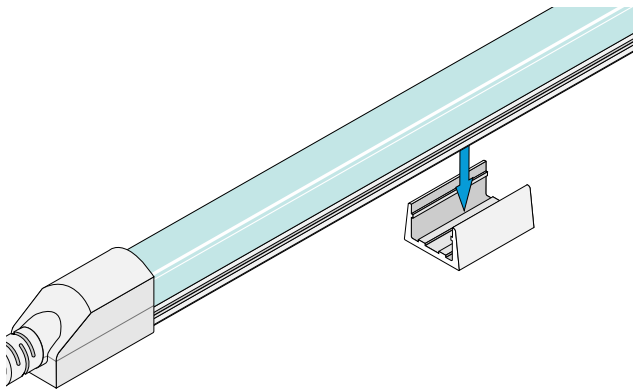
Option A: Bottom U-Clips

- a Screw bottom u-clips to surface.

Note: It is recommended to use two bottom u-clips for every foot of NEON BLAZE™ LED Strip Light.



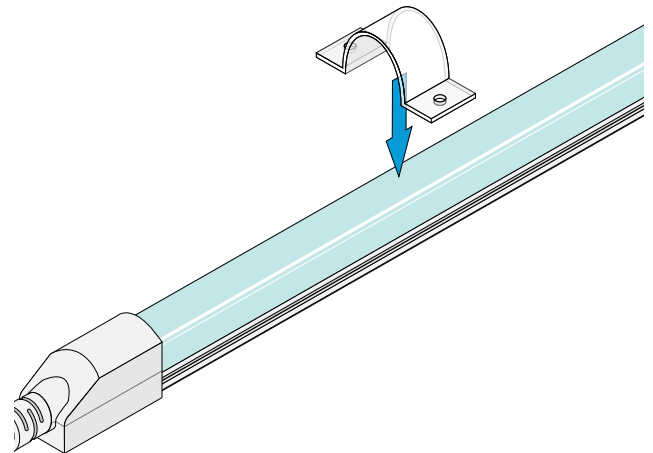
Insert NEON BLAZE™ LED Strip Light into bottom u-clip.



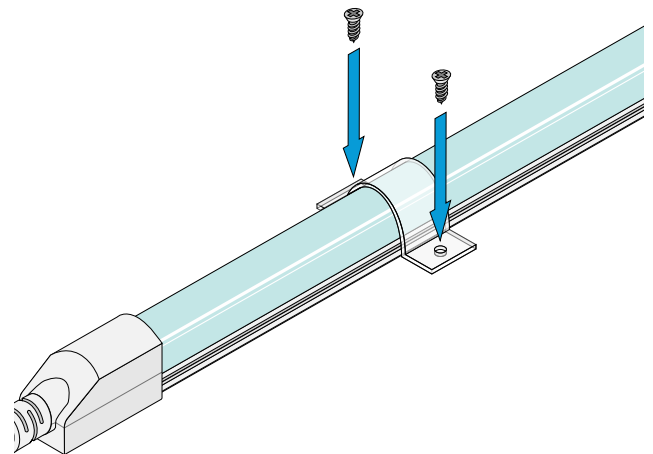
Option B: Top U-Clips

- b Place NEON BLAZE LED Strip Light on surface, then place clear top u-clip over Strip Light.

Note: It is recommended to use two clear top u-clips for every foot of NEON BLAZE™ LED Strip Light.



Screw top u-clip to surface.



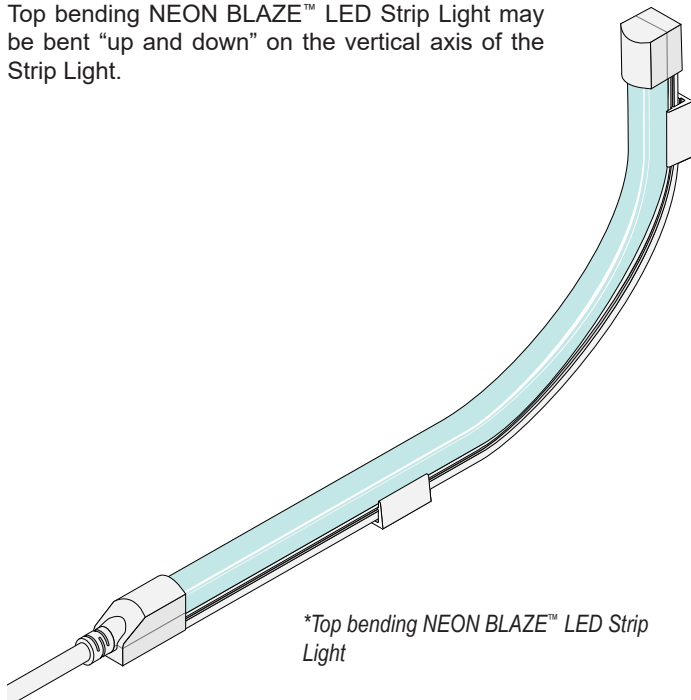
NEON BLAZE™ 24V LED Strip Light

INSTALLATION GUIDE

INSTALLATION (CONT.)

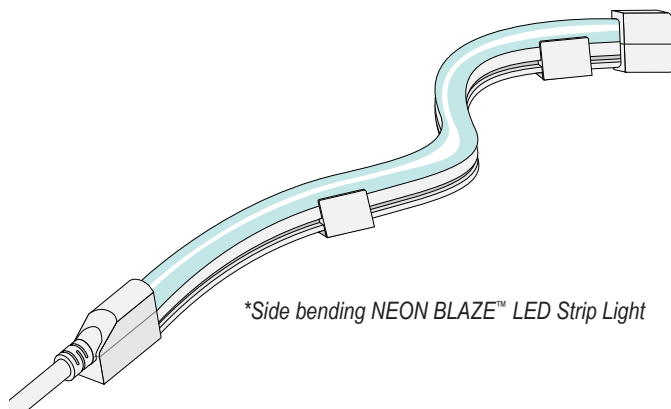
NEON BLAZE™ LED Strip Light may be bent to resemble neon lighting. Examples below:

Top bending NEON BLAZE™ LED Strip Light may be bent “up and down” on the vertical axis of the Strip Light.



**Top bending NEON BLAZE™ LED Strip Light*

Side bending NEON BLAZE™ LED Strip Light may be bent “Left and Right” on the horizontal axis of the Strip Light.

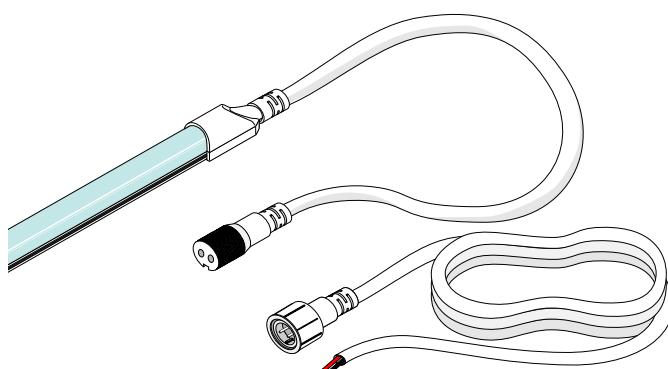


**Side bending NEON BLAZE™ LED Strip Light*

5 CONNECT TO 96” EXTENSION CABLE

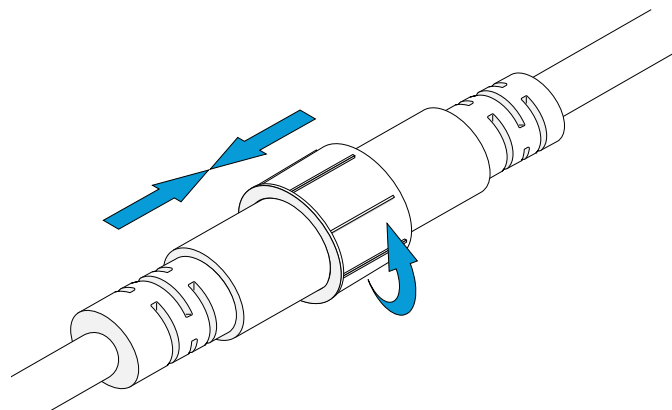
Top bending and side bending connector will have wet location rated plug connector (female) on opposite end.

96” NEON BLAZE™ Extension cable will have wet location rated plug connector (male) on opposite end of splice connection.



NEON BLAZE™ Extension Cable.

Screw connector cap onto extension cable securely.



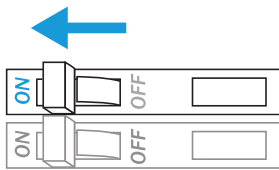
NEON BLAZE™ 24V LED Strip Light

INSTALLATION GUIDE

6 ATTACH DRIVER AND LIGHTING CONTROL.

Verify a compatible driver is installed. Utilize applicable wiring when installing outdoors. (Use of wet location-rated junction box recommended)

7 TURN POWER ON AT CIRCUIT BREAKER



TROUBLESHOOTING

Shift in brightness and/or kelvin	Ensure an appropriate gauge of wire is installed between strip light and LED driver. See VOLTAGE DROP CHARTS.
Some LEDs are not functional	- Ensure strip light has not been bent excessively, which could damage circuitry. - Ensure strip light has not been submerged in any liquid for any amount of time.
Lights are flickering	Ensure a compatible driver and/or dimming control is installed. Check for loose connections.
Lights are turning on/off repeatedly	Ensure driver is not overloaded. An overloaded driver will trip the internal auto-reset (of driver) repeatedly, turning the system on/off.

TOOLS & RESOURCES

NEON BLAZE™ SPECIFICATION SHEET

For full specifications.

VOLTAGE DROP CHART

For best performance and lumen output, ensure proper wire gauge is installed to compensate for voltage drop of low voltage circuits.

24V Voltage Drop & Wire Length Distance Chart

Wire Gauge	10 W .42 A	20 W .83 A	30 W 1.3 A	40 W 1.7 A	50 W 2.1 A	60 W 2.5 A	70 W 2.9 A	80 W 3.3 A	100 W 4.2 A
18 AWG	134 ft.	68 ft.	45 ft.	33 ft.	27 ft.	22 ft.	19 ft.	17 ft.	14 ft.
16 AWG	215 ft.	109 ft.	72 ft.	54 ft.	43 ft.	36 ft.	31 ft.	27 ft.	22 ft.
14 AWG	345 ft.	174 ft.	115 ft.	86 ft.	69 ft.	57 ft.	49 ft.	43 ft.	36 ft.
12 AWG	539 ft.	272 ft.	181 ft.	135 ft.	108 ft.	90 ft.	77 ft.	68 ft.	56 ft.
10 AWG	784 ft.	397 ft.	263 ft.	197 ft.	158 ft.	131 ft.	112 ft.	98 ft.	82 ft.

Example: 24V Voltage Drop & Wire Length Distance Chart

- 1 Determine load size. Let's assume load is 55 W. Round up to nearest load.
- 2 Determine distance from driver to load. Let's assume the distance is 90 ft.
- 3 It is recommended to install 12 AWG to eliminate excess voltage drop.

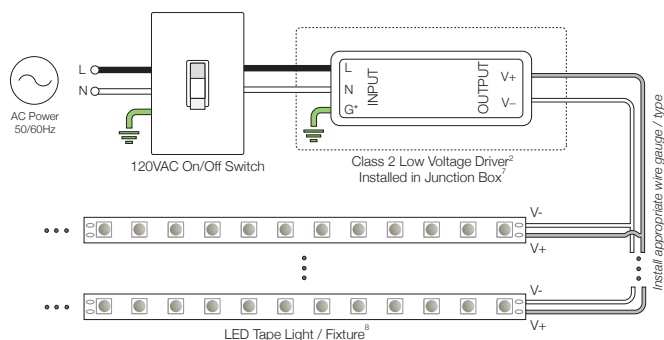
NEON BLAZE™ 24V LED Strip Light

INSTALLATION GUIDE

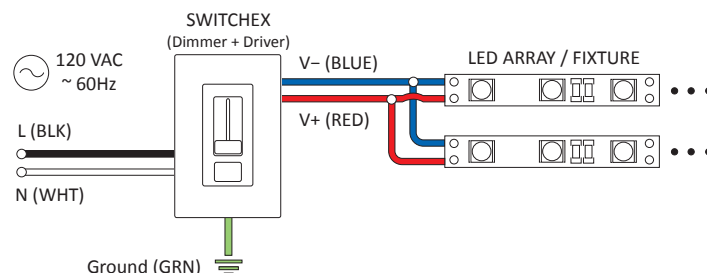
SYSTEM DIAGRAMS

The following diagrams are provided as example system designs. For information regarding larger systems or systems not pictured below, please see our web page or contact technical support. Always review each component installation guide for detailed and up-to-date wiring instructions. Install in accordance with national and local electrical codes.

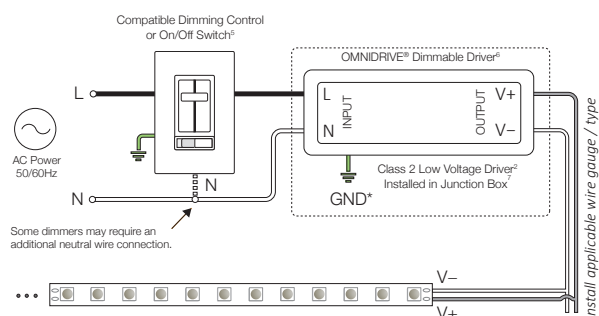
Traditional ON/OFF Switch System



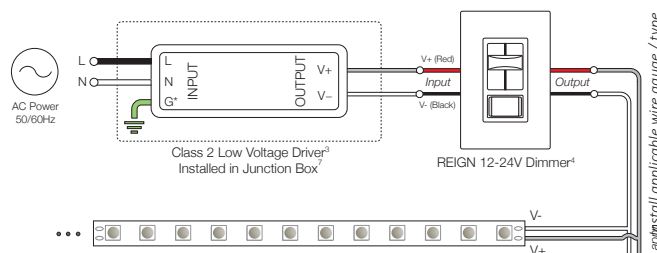
SWITCHEX® Dimmer/Driver System



OMNIDRIVE® Electronic Dimmable Driver System



REIGN® 24V Dimmer System



1. Driver may not require a fault ground connection. Refer to driver specifications for additional information.
2. Install a compatible Class 2 constant voltage driver. Refer to each driver specification sheet for full power ratings & load deratings.
3. Install a Class 2 constant voltage driver compatible with a low voltage PWM controller/dimmer switch. Refer to each driver specification sheet for full power ratings & load deratings.
4. Determine the number of low voltage outputs of the driver when installing multiple PWM controllers/dimmer switches. No more than one PWM controller/dimmer switch can be attached to a single output of the driver.
5. Install a compatible dimming control or switch. See the 'Electronic Dimmable Driver / Dimmer Compatibility List' for compatible dimming controls. See the dimming control manufacturer installation guide for complete wiring instructions.
6. Ensure to load the driver at least 60% of the labeled load for proper dimming performance (required for dimmable installations only).
7. Refer to driver or controller specifications for a compatible junction box.
8. See fixture specifications for maximum series run limits.



Toll Free: 877.817.6028 | Fax: 415.592.1596 | www.DiodeLED.com | info@DiodeLED.com
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