## ⚠ WARNING

**DO NOT CONNECT DIRECTLY TO HIGH VOLTAGE POWER!**
Read all warnings and installation instructions thoroughly.

## SAFETY & WARNINGS

- Install in accordance with national and local electrical code regulations.

- This product is intended to be installed and serviced by a qualified, licensed electrician.

- This product must be powered with a compatible Class 2 DC Constant Voltage LED driver (power supply).

- DO NOT power tape light while attached to plastic spool or tightly coiled. Excess heat may melt the spool and/or cause damage to the fixture.

- DO NOT install in location where LED chips are exposed to direct sunlight or damage to the phosphor will occur.

- Ensure applicable wire is installed between driver, fixture, and any controls in between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause a fire.

- Tape light, attached wire leads, and additional extension cables, connectors, etc., are not rated for in-wall installation unless otherwise noted. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.

- Connectors have a Class 2 amp limit unless otherwise noted.

- Each tape light has a different power consumption rating and maximum run length that must be individually wired to a compatible low voltage (PWM) control or DMX decoder. Refer to tape light package label or spec sheet for more information.

- Only wet location tape light models are rated for outdoor / wet locations. See package label for environment ratings.

- Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
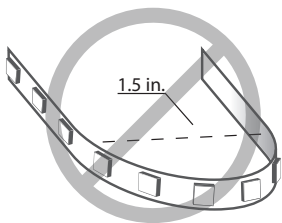


## QUICK SPECS

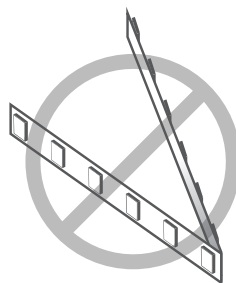| | | | |
|---|---|---|---|
| **Input Voltage** | 24VDC constant voltage | **Included Models** | DI-24V-RGBW4-** |
| **Power Consumption** | 6.4W per ft. | **Ambient Temperature †** | -4° ~ 122°F (-20° ~ 50°C) |
| **Maximum Run** | 16.4 ft. | **Environment** | Dry location |

** Indicates spool length.
† Do not install product in an environment outside the listed ambient temperature.
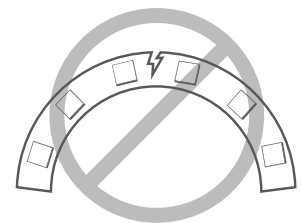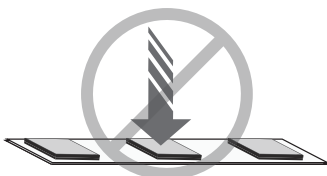
## TAPE LIGHT HANDLING



Do not bend LED strip light to a diameter less than 1.5 inches.



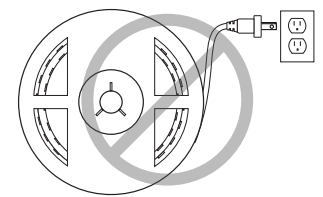Do not fold or crease LED strip light.



Do not bend LED strip light on a horizontal plane.



Do not put excessive pressure on surface of strip light (e.g. glass/acrylic panes etc.).



Do not cover strip light with any materials.



Do not power strip light while attached to spool or tightly coiled.
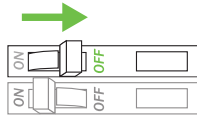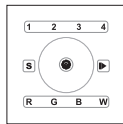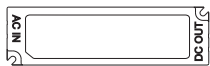
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## INSTALLATION

*Prior to installation, verify all components are a compatible system. Configure and pre-test your LED system prior to permanent installation to ensure all components are operating correctly. Install in accordance with national and local electrical regulations.*

**1**    **Turn OFF High Voltage AC Power** at the main breaker.

⚠ **WARNING**   **Shock Hazard. May result in serious injury or death.** Turn off power at circuit breaker before installing this product.

**2**    **Determine Locations to Install 3 Main Components.** Refer to the 'System Diagrams.'
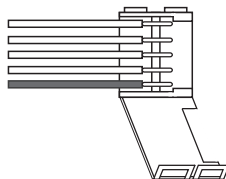
1) Driver      2) RGBW Color Controller      3) Fixture
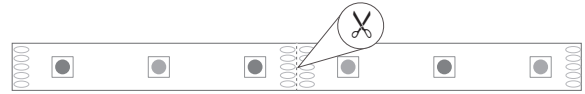
### WIRE GAUGE & VOLTAGE DROP
Ensure applicable wire is installed between driver, fixture, and any controls in between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.).

**3**    **Prior to cutting tape light,** refer to 'RGBW CLICKTIGHT™ Connectors' on page 3 for connection information.

**4**    **Mount tape to desired surface.**

A. Cut the tape at the line indicated with the scissors icon.
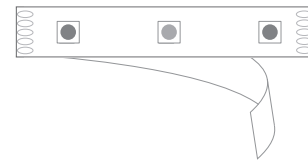
*Cut points not drawn to scale.*

B. Determine a finished, smooth surface, away from direct sunlight for mounting. Clean surface and let dry.

C. Remove adhesive paper from the tape light to expose 3M™ adhesive. ***Ensure ambient temp is minimum 50°F (10°C) or tape will not adhere properly.***
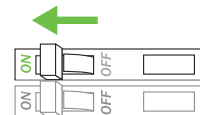
D. Adhere tape to surface, working one end to the other to prevent air pockets and raised sections. Utilize a clean rag between skin and tape to resist oil transfer from skin to LEDs. Continue following the remaining installation instructions.

**5**    **Attach Color Controller and Driver.** *Only use copper wiring.* Reference 'Wiring Connections' located further in guide for visual. Verify a compatible constant voltage driver is installed.

**6**    **Review the full system.** Ensure all polarities are correct and connections are secured.

**7**    **Install Additional Components, Verify Connections, and Turn Main Power ON at Breaker.**

### SYSTEM WORKING IMPROPERLY?
Turn OFF main power at breaker and verify all connections. Review the 'Wiring Connections', 'System Diagrams', and dimming control installation guides.
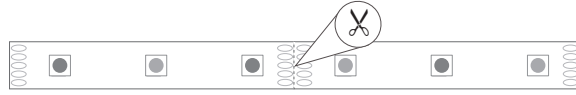
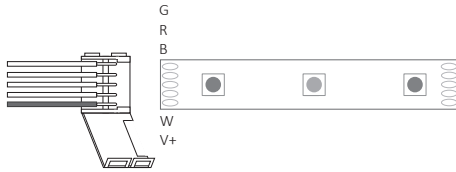*IG030615-1.5*

## DAZZLE RGBW CLICKTIGHT™ CONNECTORS

*These instructions apply only to DAZZLE RGBW CLICKTIGHT™ Connectors (does not apply to solid color CLICKTIGHT™ Connectors). Never cut tape attached to a live circuit.*

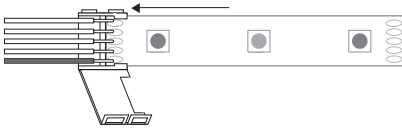**1** **Cut the tape at the line indicated with the scissors icon.**

*Cut points not drawn to scale.*

**2** **Open the CLICKTIGHT™ latch and note the +/- polarity markings.**
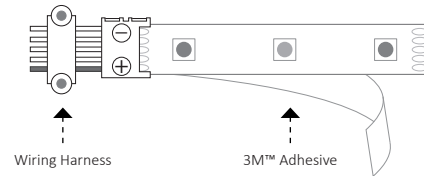
G
R
B
W
V+

**3** **Firmly insert the tape light into the connector tray with the 3M™ adhesive backing still intact to the tape.** Ensure the contact/solder points of the tape are directly underneath the metal placement tabs of the connector.

**4** **Close the CLICKTIGHT™ latch to ensure connection.**

**5** **When ready for mounting, peel off the 3M™ adhesive backing of the tape and tear off along the connector tray edge.** Mount tape light and utilize a wiring harness to secure lead wires.

Wiring Harness        3M™ Adhesive

**NOTE: CLASS 2**
All CLICKTIGHT® accessories have a Class 2 amperage limit: 60W/5A @ 12VDC; 96W/4A @ 24VDC. CLICKTIGHT connectors are not compatible with wet location tape light. See 'Troubleshooting' for tape light connector issues.

**CLICKTIGHT® CONNECTIVITY TIP**
If connection is not secure, pull tape out from the CLICKTIGHT® connector and trim any excess tape so the outer edges of contact/solder points are flush with the end of the tape. Insert trimmed end back into CLICKTIGHT® connector with the 3M™ adhesive backing still in tact to tape.

## TROUBLESHOOTING

*Prior to troubleshooting, ensure all items are a compatible system and main power is turned ON.*

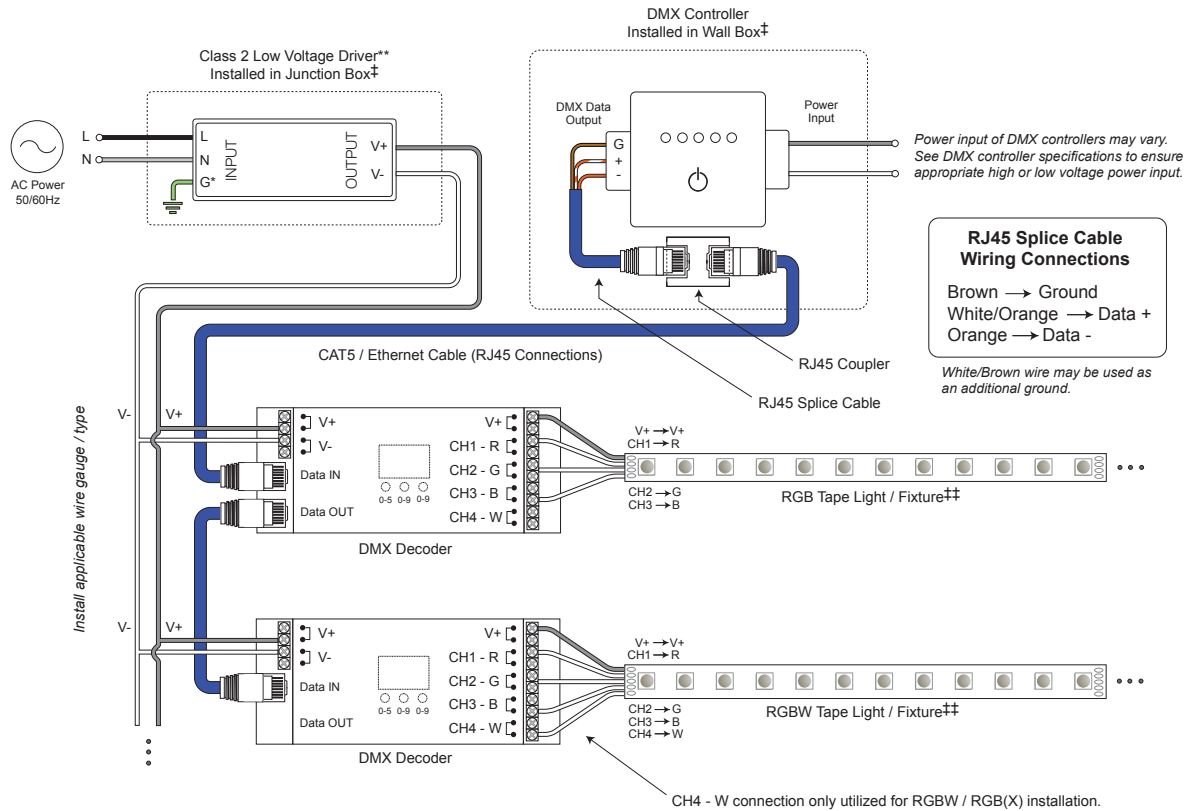| | |
|---|---|
| **Shift in brightness and/or kelvin** | • Review maximum series run limits. Exceeding these limits will cause excess voltage drop, decreasing brightness and/or kelvin as the run is extended. |
| **Some LEDs are not functional** | • Ensure all connections have been properly attached. Ensure fixture has not been bent excessively, which may cause components and solder to detach from the circuit board. |
| **Lights are flickering** | • Ensure a compatible driver is installed. Ensure the pre-set mode of the controller is not on a dynamic mode. Ensure Data +/- connections of DMX systems are not reversed. If lights continue to flicker, check for loose connections. Ensure tape light connectors are properly attached. |
| **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. |
| **CLICKTIGHT™ Connector Troubleshooting** | • Ensure compatible CLICKTIGHT™ models are attached. Tape lights vary in width and require specific connectors. Contact your supplier for additional information.<br>• Tape light is polarity sensitive. Ensure the +/- markings of the CLICKTIGHT™ connector is aligned with the +/- markings of the tape. If polarity is backwards, reverse the lead wire connection or detach tape from CLICKTIGHT™ connector and reattach opposing end of tape to connector. |

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## SYSTEM DIAGRAM

*The following diagram is provided as an example system design. Contact technical support or see the product web page for additional system examples including systems utilizing standard (PWM) and/or zone controllers (does not utilize DMX controllers). Always review each component installation guide for detailed and up-to-date wiring instructions.*

### DMX SYSTEM
*For small or large-scale RGBW installations*



\* Driver may not require a fault ground connection. Refer to driver specifications for additional information.

‡ Refer to driver specifications for a compatible junction box.

‡‡ See fixture specifications for maximum series run limits.

§ See in-line accessories specifications for maximum amperage ratings.

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## ADDITIONAL RESOURCES

Visit the online product page at www.DiodeLED.com for additional product specifications & warranty information.

- **DAZZLE 24™ 24V RGBW TAPE LIGHT SPECIFICATION SHEET**

- **VOLTAGE DROP CHARTS**
   Use to specify appropriate wire gauge for installation. Available at the 'Tools & Resources' page at www.DiodeLED.com.

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# QUESTIONS?
Visit www.DiodeLED.com or contact Customer Support at info@diodeled.com
or 1.877.817.6028 Monday through Friday, 7:00am- 5:00pm PST.

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