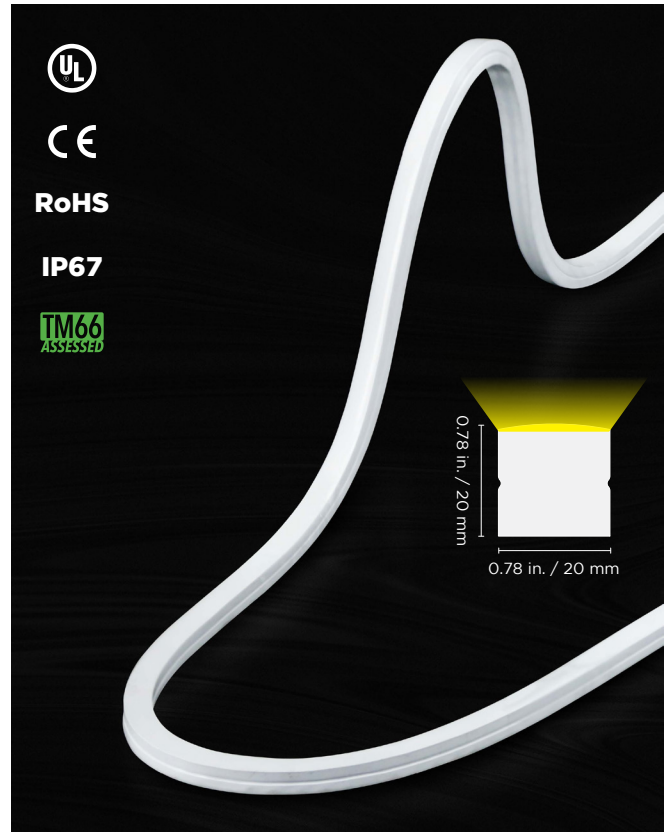


## NEON APEX DUAL

The Neon Apex Dual is a unique flexible LED neon fixture that offers both top-bending and side-bending capabilities. Create stunning neon lines that curve around difficult shapes! Available in four brilliant Static White CCTs, Variable White, Warm Dim, color changing RGBW and Pixel programmable RGBW.

- Top-bending AND side-bending LED neon
- Rated IP67 for dry, damp and wet locations
- 120° beam angle
- Max length: 32 ft 9.7 in. (10 m)
- Static White (2700K, 3000K, 3500K, 4000K):  
5.3 W/ft (17.28 W/m)  
363.4 lm/ft (1192 lm/m), 69 lm/W at 4000K
- Variable White (2700K-6000K):  
4.4 W/ft (14.4 W/m)  
219.5 lm/ft (720 lm/m), 50 lm/W all on
- Warm Dim (1800K-3500K):  
4.4 W/ft (14.4 W/m)  
Up to 106.7 lm/ft (350 lm/m), 24.3 lm/W all on
- RGBW (2700K, 3000K, 3500K, 4000K):  
6.0 W/ft (19.58 W/m)  
179 lm/ft (587 lm/m), 30 lm/W all on with RGBW (4000K)
- Pixel RGBW (2700K, 3000K, 3500K, 4000K):  
5.5 W/ft (18 W/m)  
109.8 lm/ft (360 lm/m), 20 lm/W all on with RGBW (4000K)  
Pixel length: 1.97 in. (50 mm)  
IC type: UCS7604



## ORDERING GUIDE

| Category              | Wattage & Color                                   |  | Power Feed Direction |
|-----------------------|---|--|----------------------|
| NLAD                  |   |  |                      |
| NLAD - Neon Apex Dual | 5.327 - 5.3 W/ft (17.28 W/m) 2700K                | 4.4WD - 4.4 W/ft (14.4 W/m) Warm Dim (1800K-3500K)       | E - End Feed         |
|                       | 5.330 - 5.3 W/ft (17.28 W/m) 3000K                | 4.4VW - 4.4 W/ft (14.4 W/m) Variable White (2700K-6000K) | B - Bottom Feed      |
|                       | 5.335 - 5.3 W/ft (17.28 W/m) 3500K                | 5.5RGB27ADD - 5.5 W/ft (18 W/m) Pixel RGB+White (2700K)  | S - Side Feed        |
|                       | 5.340 - 5.3 W/ft (17.28 W/m) 4000K                | 5.5RGB30ADD - 5.5 W/ft (18 W/m) Pixel RGB+White (3000K)  |                      |
|                       | 6.0RGB27 - 6.0 W/ft (19.58 W/m) RGB+White (2700K) | 5.5RGB35ADD - 5.5 W/ft (18 W/m) Pixel RGB+White (3500K)  |                      |
|                       | 6.0RGB30 - 6.0 W/ft (19.58 W/m) RGB+White (3000K) | 5.5RGB40ADD - 5.5 W/ft (18 W/m) Pixel RGB+White (4000K)  |                      |
|                       | 6.0RGB35 - 6.0 W/ft (19.58 W/m) RGB+White (3500K) |  |                      |
|                       | 6.0RGB40 - 6.0 W/ft (19.58 W/m) RGB+White (4000K) |  |                      |

## MOUNTING OPTIONS

**Stainless Steel Mounting Clip**  
Recommended for curved applications with 6 in. (150 mm) center-to-center spacing (Part #: NLADCLIPSS)

**Aluminum Mounting Clip**  
Recommended for curved applications with 6 in. (150 mm) center-to-center spacing (Part #: NLADCLIP)

**Aluminum Mounting Channel**  
Recommended for all straight run applications Sold by the foot, up to 39.37 in. / 1000 mm (Part #: NLADCHANNEL)

**Recessed Aluminum Mounting Clip**  
Recommended for recessed, curved applications with 6 in. (150 mm) center-to-center spacing (Part #: NLADCLIPR)

**Recessed Aluminum Mounting Channel**  
Recommended for recessed, straight applications Sold by the foot, up to 39.37 in. / 1000 mm (Part #: NLADCHANNELR)

**S-type Track**  
Recommended for curved applications Sold by the foot, up to 19.69 in. / 500 mm (Part #: NLADCHANNELS)


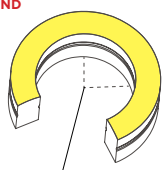

## AVAILABLE COLOR TEMPERATURES



## SPECIFICATIONS

| SPECIFICATIONS                          | NEON APEX DUAL   |                               |                              |  |  |
|---|--|-------------------------------|------------------------------|--|--|
| Operating Voltage                       | 24 VDC   |                               |                              |  |  |
| Protection Rating                       | IP67   |                               |                              |  |  |
| Beam Angle                              | 120°   |                               |                              |  |  |
| Color Temperatures / Colors             | 2700K, 3000K, 3500K, 4000K   | Variable White (2700K-6000K)  | Warm Dim (1800K-3500K)       | RGBW (2700K, 3000K, 3500K, 4000K)          | Pixel RGBW (2700K, 3000K, 3500K, 4000K)      |
| Power Consumption                       | 5.3 W/ft (17.28 W/m)   | 4.4 W/ft (14.4 W/m)           | 4.4 W/ft (14.4 W/m)          | 6.0 W/ft (19.58 W/m)                       | 5.5 W/ft (18 W/m)                            |
| Lumens                                  | 363.4 lm/ft (1192 lm/m) @ 4000K  | 219.5 lm/ft (720 lm/m) all on | Up to 106.7 lm/ft (350 lm/m) | 179 lm/ft (587 lm/m) all on @ RGBW (4000K) | 109.8 lm/ft (360 lm/m) all on @ RGBW (4000K) |
| Efficacy                                | 69 lm/W  | 50 lm/W                       | 24.3 lm/W                    | 30 lm/W                                    | 20 lm/W                                      |
| LED Pitch                               | 36 LEDs/ft (120 LEDs/m)  | 20 LEDs/ ft (168 LEDs/m)      | 20 LEDs/ ft (168 LEDs/m)     | 21 LEDs/ft (72 LEDs/m)                     | 18 LEDs/ft (60 LEDs/m)                       |
| IC Type                                 | --   | --                            | --                           | --   | UCS7604                                      |
| Incremental Length (NOT FIELD CUTTABLE) | 0.66 in. (16.67 mm)  | 0.94 in. (23.81 mm)           | 0.94 in. (23.81 mm)          | 1.64 in. (41.67 mm)                        | 1.97 in. (50 mm)                             |
| Min. Top Bending Radius                 | 3.94 in. (100 mm)  | 3.94 in. (100 mm)             | 3.94 in. (100 mm)            | 5.91 in. (150 mm)                          | 5.91 in. (150 mm)                            |
| Min. Side Bending Radius                | 5.91 in. (150 mm)  | 9.84 in. (250 mm)             | 9.84 in. (250 mm)            | 15.75 in. (400 mm)                         | 15.75 in. (400 mm)                           |
| Max Length                              | 32 ft 9.7 in. (10 m)   |                               |                              |  |  |
| Dimming                                 | ELV / MLV / 0-10 Volt / DMX / SPI  |                               |                              |  |  |
| Operating Temperature                   | -4 – 140 °F (-20 – 60 °C)  |                               |                              |  |  |
| Storage Temperature                     | -4 – 158 °F (-20 – 70 °C)  |                               |                              |  |  |
| Lifetime (L70 reported)                 | 50,000 hours   |                               |                              |  |  |
| Power Cable Length                      | Standard: 12 in (304.8 mm) / Custom: up to 20 ft (6 m)   |                               |                              |  |  |
| UV Resistant                            | UV tested in accordance with ISO 4892-3 with no visible change on the appearance of the sample |                               |                              |  |  |
| Warranty                                | 5 years  |                               |                              |  |  |

## WARNINGS

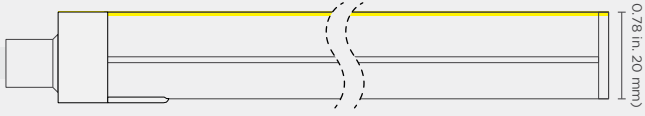
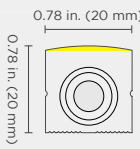
- DO NOT OVER BEND**  
  
**Min. top bending radius**  
 Static White: 3.94 in. (100 mm)  
 Variable White: 3.94 in. (100 mm)  
 Warm Dim: 3.94 in. (100 mm)  
 RGBW: 5.91 in. (150 mm)  
 Pixel RGBW: 5.91 in. (150 mm)
- DO NOT TWIST OR DISTORT**  
  
**Min. side bending radius**  
 Static White: 5.91 in. (150 mm)  
 Variable White: 9.84 in. (250 mm)  
 Warm Dim: 9.84 in. (250 mm)  
 RGBW: 15.75 in. (400 mm)  
 Pixel RGBW: 15.75 in. (400 mm)
- DO NOT THROW OR PULL**  


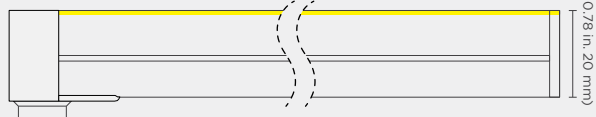
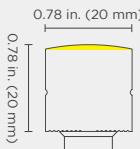
## USAGE GUIDELINES

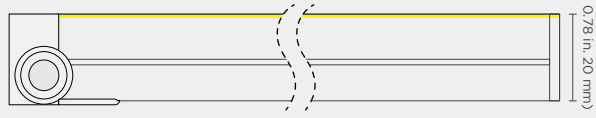
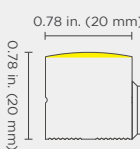
- Neon Apex Dual cannot be cut in the field. All custom cuts and connections for these models must be performed at the factory to ensure waterproofing standards are met. Any modification of the waterproofing will result in a void warranty.
- When installing this product, consider the surface temperature of the material where it will be mounted. Many building surfaces which are exposed to direct sunlight exceed the 140 °F (60 °C) maximum for which this product is rated. High-risk locations like this should be avoided.
- This product can be used in wet, outdoor locations, but is not intended to be submerged in pools and fountains and does not carry UL 676 certification for submersion.
- Compatible with a wide variety of controls.
- For use with Acolyte drivers, Triac dimming modules, and 0-10 V modules.
- Use with non-Acolyte Triac, MLV or ELV drivers is not supported or warranted.
- Due to the cuttable points inside, this product's cuttable lengths are generally longer or shorter than the customer requested length. Unless specified, this product is factory cut at the shorter cuttable point.

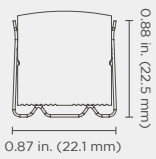
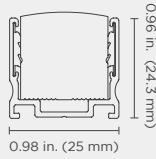
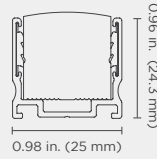
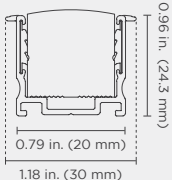
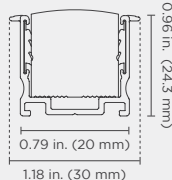
Acolyte does not warrant or represent that this information is free from errors or omission. We reserve the right to make changes to our product lineup, specifications, design and finishes at any time without notice. Acolyte is not in any way liable for the accuracy of any information printed and stored or in any way interpreted or used.

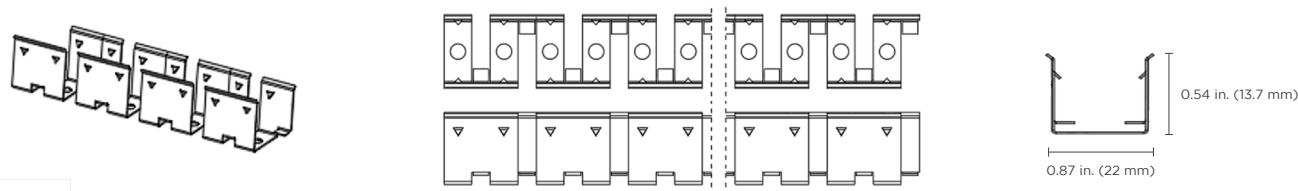
DIMENSIONS / DIAGRAMS

| NEON APEX DUAL   |  |
|--|--|
| <b>End Feed - Side View</b><br> <p>0.78 in. (20 mm)</p> <p><b>Max Lengths: 32 ft 9.7 in. (10 m)</b></p> | <b>End Feed - End View</b><br> <p>0.78 in. (20 mm)</p> <p>0.78 in. (20 mm)</p> <p><b>Width: 0.78 in. (20 mm)</b><br/><b>Height: 0.78 in. (20 mm)</b></p> |

|   |   |
|---|---|
| <b>Bottom Feed - Side View</b><br> <p>0.78 in. (20 mm)</p> <p><b>Max Lengths: 32 ft 9.7 in. (10 m)</b></p> | <b>Bottom Feed - End View</b><br> <p>0.78 in. (20 mm)</p> <p>0.78 in. (20 mm)</p> <p><b>Width: 0.78 in. (20 mm)</b><br/><b>Height: 0.78 in. (20 mm)</b></p> |
|---|---|

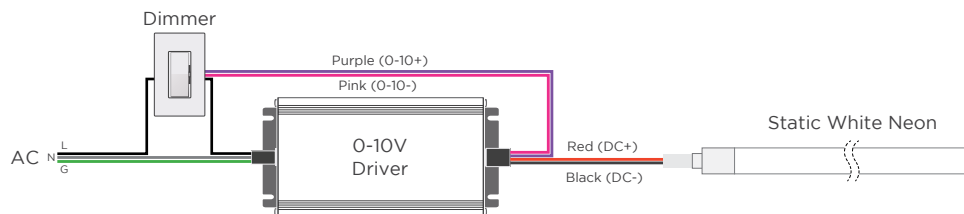
|  |  |
|--|--|
| <b>Side Feed - Side View</b><br> <p>0.78 in. (20 mm)</p> <p><b>Max Lengths: 32 ft 9.7 in. (10 m)</b></p> | <b>Side Feed - End View</b><br> <p>0.78 in. (20 mm)</p> <p>0.78 in. (20 mm)</p> <p><b>Width: 0.78 in. (20 mm)</b><br/><b>Height: 0.78 in. (20 mm)</b></p> |
|--|--|

| Stainless Steel Mounting Clip  | Aluminum Mounting Clip   | Aluminum Mounting Channel   | Recessed Aluminum Mounting Clip  | Recessed Aluminum Mounting Channel  |
|--|--|---|--|---|
| Recommended for curved applications with 6 in. (150 mm) on center spacing.   | Recommended for curved applications with 6 in. (150 mm) on center spacing.   | Recommended for all straight run applications.  | Recommended for recessed, curved applications with 6 in. (150 mm) on center spacing.   | Recommended for recessed, straight run applications.  |
| Part #: NLADCLIPSS   | Part #: NLADCLIP   | Part #: NLADCHANNEL   | Part #: NLADCLIPR  | Part #: NLADCHANNELR  |
|  <p>0.88 in. (22.5 mm)</p> <p>0.87 in. (22.1 mm)</p> <p><b>Length: 0.98 in. (35 mm)</b></p> |  <p>0.96 in. (24.3 mm)</p> <p>0.98 in. (25 mm)</p> <p><b>Length: 0.98 in. (35 mm)</b></p> |  <p>0.96 in. (24.3 mm)</p> <p>0.98 in. (25 mm)</p> <p><b>Length: 39.37 in. (1 m)</b></p> |  <p>0.96 in. (24.3 mm)</p> <p>0.79 in. (20 mm)</p> <p>1.18 in. (30 mm)</p> <p><b>Length: 0.98 in. (35 mm)</b></p> |  <p>0.96 in. (24.3 mm)</p> <p>0.79 in. (20 mm)</p> <p>1.18 in. (30 mm)</p> <p><b>Length: up to 39.37 in. (1 m)</b></p> |

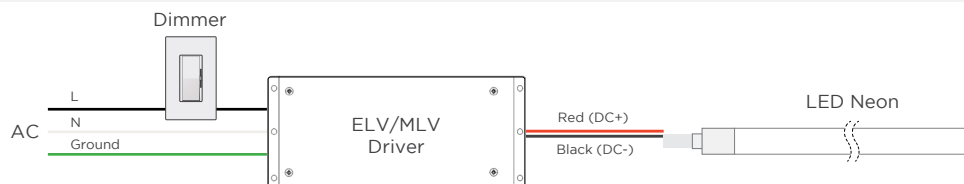
| S-TYPE TRACK  |  |
|---|--|
| <p>Recommended for curved applications<br/>Sold by the foot, up to 39.7 in. (1 m)<br/>(Part #: NLADCHANNELS)</p>  <p>0.54 in. (13.7 mm)</p> <p>0.87 in. (22 mm)</p> |  |

## WIRING DIAGRAMS - STATIC WHITE, WARM DIM & RGBW / USAGE GUIDELINES

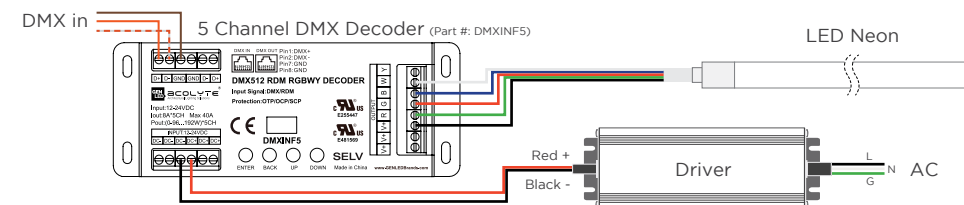
### 0-10V



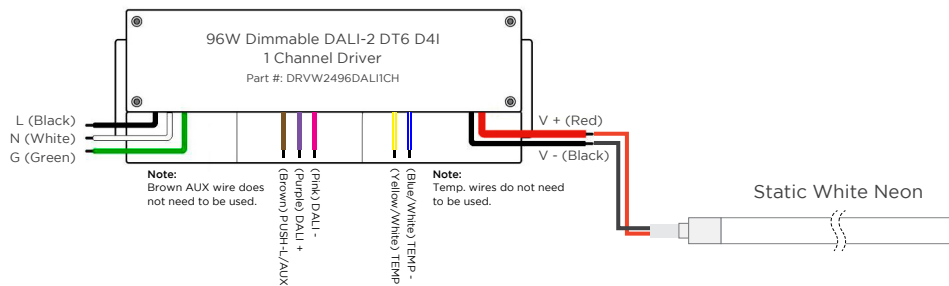
### MLV / ELV



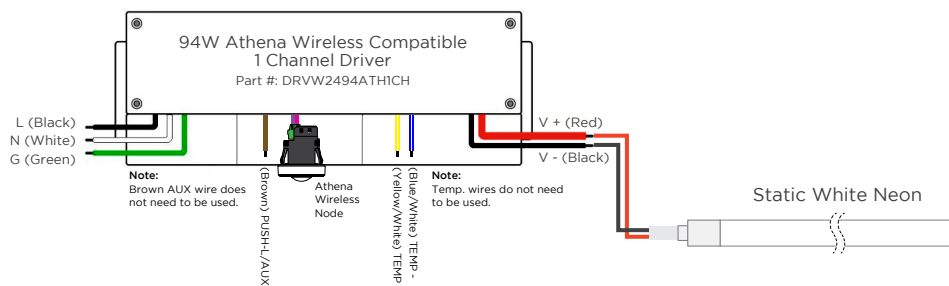
### DMX



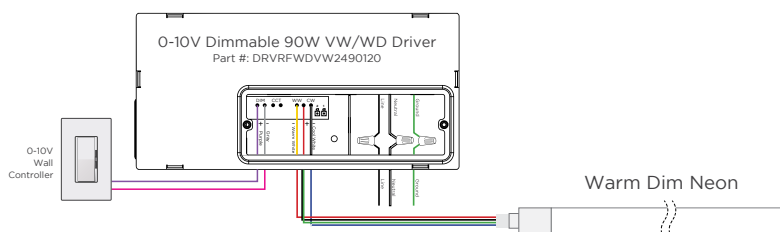
### DALI-2 WIRING WITH STATIC WHITE NEON APEX



### STATIC WHITE NEON APEX WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



### WARM DIM



### WIRE COLORS PER RIBBONLYTE COLOR

#### STATIC WHITE

Red Wire (+) Positive  
Black Wire (-) Negative

#### RGBW

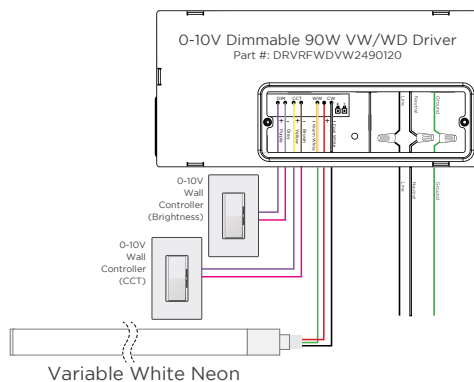
White Wire (+) Positive  
Red Wire (-) goes to Red Channel  
Green Wire (-) goes to Green Channel  
Blue Wire (-) goes to Blue Channel  
Grey Wire (-) goes to White Channel

#### WARM DIM

Red Wire (-) goes to Warm White Channel  
Blue Wire (-) goes to Cool White Channel  
Black Wire (+) goes to Warm White Channel  
Green Wire (+) goes to Cool White Channel

## WIRING DIAGRAMS - VARIABLE WHITE

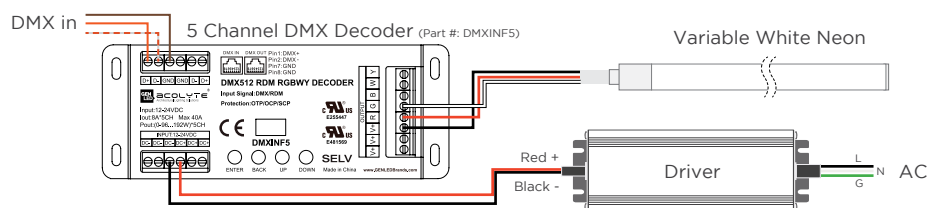
### 2-CHANNEL VARIABLE WHITE DIMMING



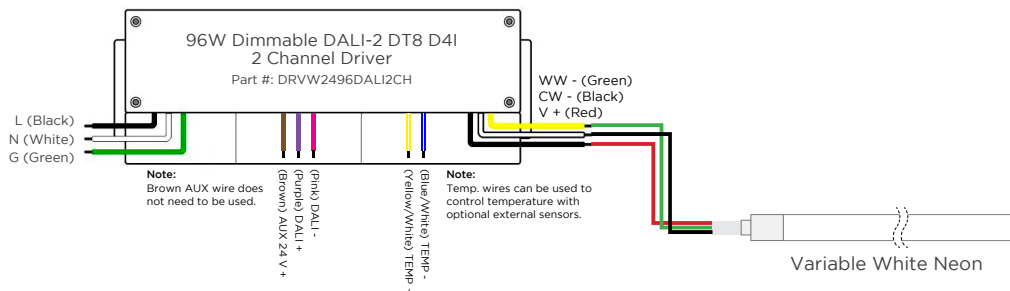
### WIRE COLORS PER RIBBONLYTE COLOR

**VARIABLE WHITE**  
Red Wire (+) Positive  
Green Wire (-) goes to Warm White Channel  
Black Wire (-) goes to Cool White Channel

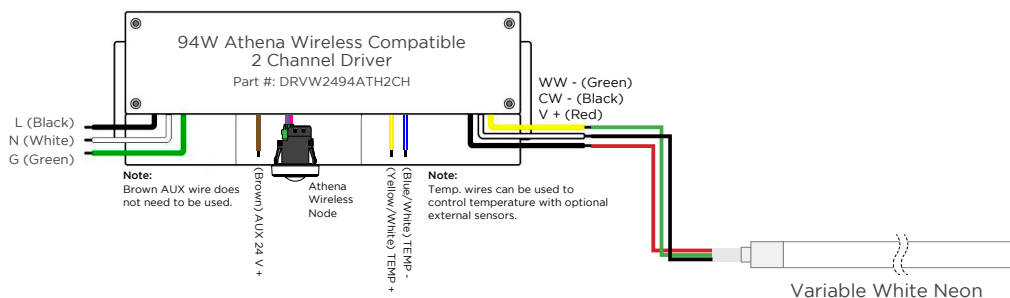
### DMX WIRING DIAGRAM - COMPATIBLE WITH ALL MODELS OF VARIABLE WHITE NEON



### DALI-2 WIRING WITH VARIABLE WHITE NEON



### ATHENA WIRELESS COMPATIBLE DRIVER WIRING WITH VARIABLE WHITE NEON



REV.02DEC2025

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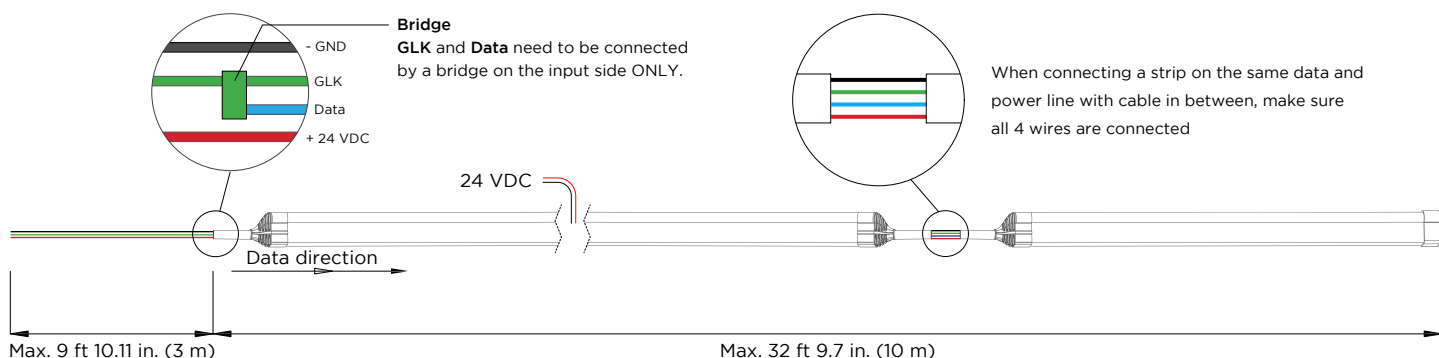
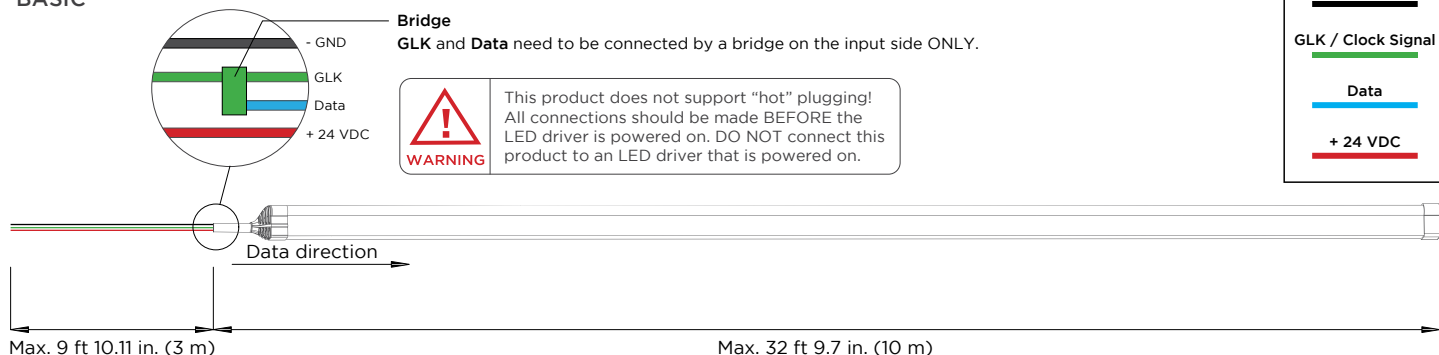
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WIRING DIAGRAMS - VARIABLE WHITE

SPI

BASIC



ADVANCED

