

## NEON APEX

Neon Apex is a flexible LED neon designed for unique applications that require a top-bending light surface. Featuring a pliable silicone lens, Neon Apex is a great solution for lighting above or below an arch or wrapping around other unique molded shapes. With Static White, Variable White, color changing RGBW and even Addressable RGBW options, Neon Apex marries the classic gleam of neon with all the benefits of modern LEDs.

- Top-bending design, just like our RibbonLyte
- RGBW, Static White, Variable White at 4.5 W/ft (14.76 W/m)
- Addressable RGBW at 5.3 W/ft (17.4 W/m)
- Static White, Variable White cut lengths at 1.97 in. (50 mm)
- RGBW cut lengths at 3.28 in. (83.33 mm)
- Addressable RGBW cut lengths at 3.94 in. (100 mm)
- Waterproof and UV resistant
- Salt water resistant
- Compact square design creates signature style

### Applications:

Commercial

Entertainment

Healthcare

Hospitality

Museums

Public Spaces

Residential

Retail / Signage



## ORDERING GUIDE

Category	Wattage & Color		Power Feed Direction
NLA			
NLA - Neon Apex	<b>4.524</b> - 4.5 W/ft 2400K  <b>4.527</b> - 4.5 W/ft 2700K  <b>4.530</b> - 4.5 W/ft 3000K  <b>4.535</b> - 4.5 W/ft 3500K  <b>4.540</b> - 4.5 W/ft 4000K	<b>4.5VW</b> - 4.5 W/ft Variable White (2400K-6000K)  <b>4.5RGB27</b> - 4.5 W/ft RGB+White (2700K)  <b>4.5RGB30</b> - 4.5 W/ft RGB+White (3000K)  <b>4.5RGB40</b> - 4.5 W/ft RGB+White (4000K)  <b>5.3RGB30ADD</b> - 5.3 W/ft RGBW (3000K) Addressable	<b>E</b> - End Feed  <b>B</b> - Bottom Feed
Mounting			

- Mounting Clips  
Recommended for curved applications with 6 in. (150 mm) on center spacing  
(Part #: NLAMOUNTCLIPV2)
- Mounting Channel  
Recommended for all straight run applications  
Sold by the foot, up to 6 ft 6 in. / 2 m  
(Part #: NLACHV2)

### AVAILABLE COLORS AND COLOR TEMPERATURES



## USAGE GUIDELINES

- Neon Apex 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 warrantied.
- 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.

POWER FEED OPTIONS / SPECIFICATIONS / USAGE GUIDELINES

SPECIFICATIONS	NEON APEX
Operating Voltage	24 VDC
Power Consumption	Static White, Variable White, RGBW: 4.5 W/ft (14.76 W/m) / RGBW Addressable: 5.3 W/ft (17.4 W/m)
Protection Rating	IP67
Beam Angle	110°
Dimming	ELV / MLV / 0-10 Volt / DMX
Operating Temperature	-4 — 140 °F (-20 — 60 °C)
Color Temperatures / Colors	2400K, 2700K, 3000K, 3500K, 4000K, Variable White (2400K-6000K), RGBW (2700K, 3000K, 4000K), RGBW (3000K) Addressable
Lamp Life	50,000 hours
Max Length	Static White: 39 ft 4.4 in. (12 m) / Variable White, RGBW, RGBW Addressable: 16 ft 4.85 in. (5 m)
Cuttable Length	Static White, Variable White: 1.97 in. (50 mm) / RGBW: 3.28 in. (83.33 mm) / RGBW Addressable: 3.94 in. (100 mm) <b>NOT FIELD CUTTABLE</b>
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
Minimum Bend Radius	4.72 in. (120 mm)
CRI (white)	90+ for all Color Temperatures
Lumens	<b>4.5 Static White</b> 4000K: 351 lm/ft (1151.3 lm/m), 78 lm/W
	<b>4.5 Variable White</b> 293 lm/ft (961 lm/m), 69 lm/W
	<b>4.5 RGBW</b> Red: 15.85 lm/ft (52 lm/m), 16.14 lm/W / Green: 55.49 lm/ft (182 lm/m), 52.95 lm/W / Blue: 12.8 lm/ft (42 lm/m), 12.53 lm/W White: 90.85 lm/ft (298 lm/m), 50.77 lm/W / All LEDs at 100%: 173.78 lm/ft (570 lm/m), 36.42 lm/W
	<b>5.3 RGBW Addressable</b> Red: 14 lm/ft (45.9 lm/m), 12 lm/W / Green: 40 lm/ft (131.2 lm/m), 36 lm/W / Blue: 9 lm/ft (29.5 lm/m), 9 lm/W White: 43 lm/ft (141 lm/m), 65 lm/W / All LEDs at 100%: 106 lm/ft (347.6 lm/m), 20 lm/W

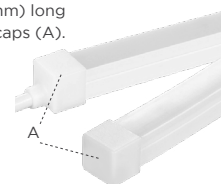
MOLDED END CAPS



Molded End Cap

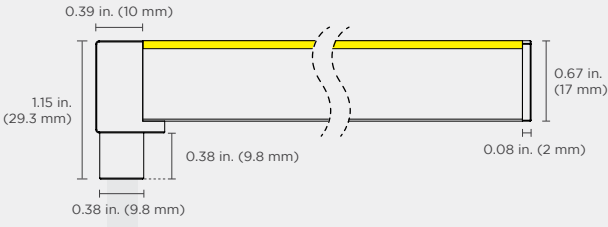
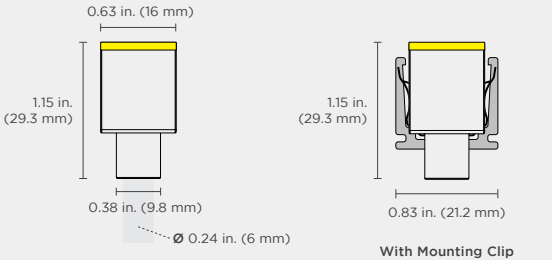
Molded Power Feed End Cap

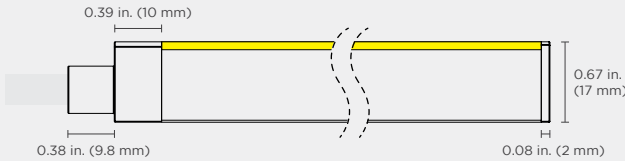

**Note:** Fixtures less than 8 in. (203 mm) long will come with silicone end caps (A).

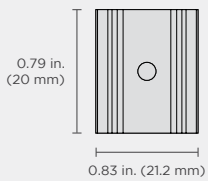
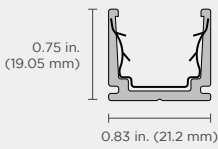


2-pin Male Connector		2-pin Female Connector	
Side View	End View	End View	Side View
3-pin Male Connector		3-pin Female Connector	
Side View	End View	End View	Side View
5-pin Male Connector		5-pin Female Connector	
Side View	End View	End View	Side View

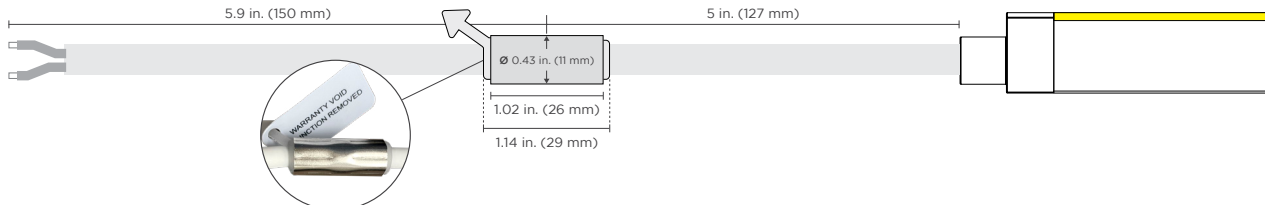
DIMENSIONS / DIAGRAMS

WITH BOTTOM FEED MOLDED END CAP	
Side View	End View
 <p><b>Max Lengths:</b> Static White: 39 ft 4.4 in. (12 m) Variable White, RGBW, RGBW Addressable: 16 ft 4.85 in. (5 m)</p>	 <p><b>Width:</b> 0.63 in. (16 mm) <b>Height:</b> 1.15 in. (29.3 mm) <b>Cable Diameter:</b> 0.24 in. (6 mm)</p> <p><b>With Mounting Clip</b> <b>Width:</b> 0.83 in. (21.2 mm) <b>Height:</b> 1.15 in. (29.3 mm)</p>

WITH END FEED MOLDED END CAP	
Side View	End View
 <p><b>Max Lengths:</b> Static White: 39 ft 4.4 in. (12 m) Variable White, RGBW, RGBW Addressable: 16 ft 4.85 in. (5 m)</p>	 <p><b>Width:</b> 0.63 in. (16 mm) <b>Height:</b> 0.67 in. (17 mm) <b>Cable Diameter:</b> 0.24 in. (6 mm)</p> <p><b>With Mounting Clip</b> <b>Width:</b> 0.83 in. (21.2 mm) <b>Height:</b> 0.87 in. (22.05 mm)</p>

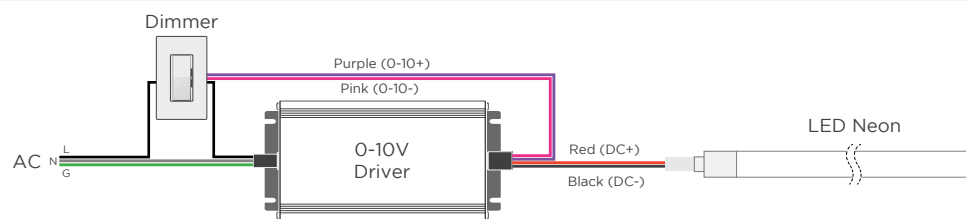
MOUNTING CLIP	
Recommended for curved applications with 6 in. (150 mm) on center spacing.	
Top View	End View
 <p><b>Width:</b> 0.83 in. (21.2 mm) <b>Depth:</b> 0.79 in. (20 mm)</p>	 <p><b>Width:</b> 0.83 in. (21.2 mm) <b>Height:</b> 0.75 in. (19.05 mm)</p>

MOUNTING CHANNEL	
Recommended for all straight run applications. Sold by the foot, up to 6 ft 6 in. / 2 m (same width & height as mounting clip) (Part #: NLACHV2)	

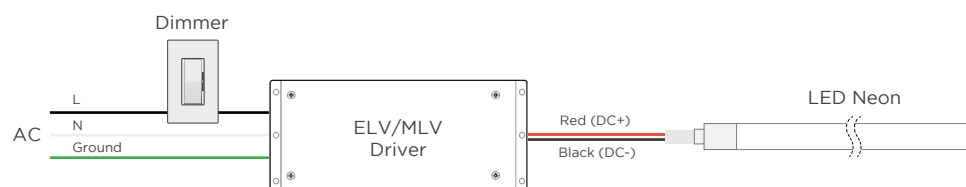
HYDRO SEAL	
The Hydro Seal clinches tightly around the conductors to prevent any water flow from the end of the wire to the circuit board through capillary effect.	
	

## WIRING DIAGRAMS - STATIC WHITE / RGBW

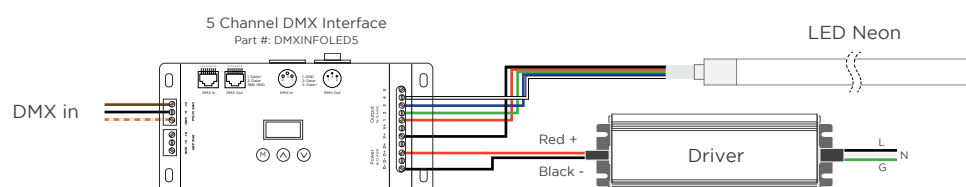
### 0-10V



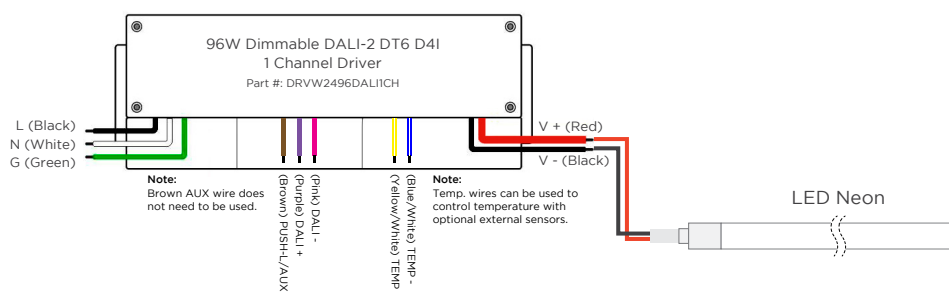
### MLV / ELV



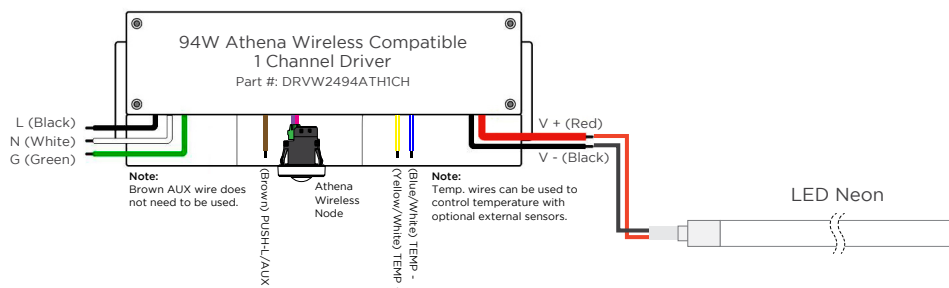
### DMX



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



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



### WIRE COLORS PER RIBBONLYTE COLOR

#### STATIC WHITE

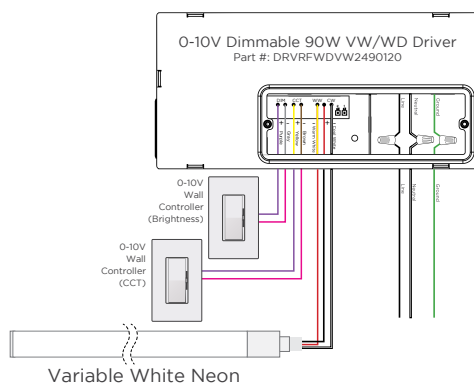
Red Wire (+) Positive  
Black Wire (-) Negative

#### RGBW

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

## WIRING DIAGRAMS - VARIABLE WHITE

### 2-CHANNEL VARIABLE WHITE DIMMING

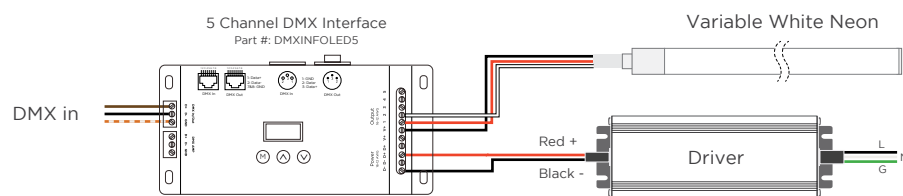


### WIRE COLORS PER RIBBONLYTE COLOR

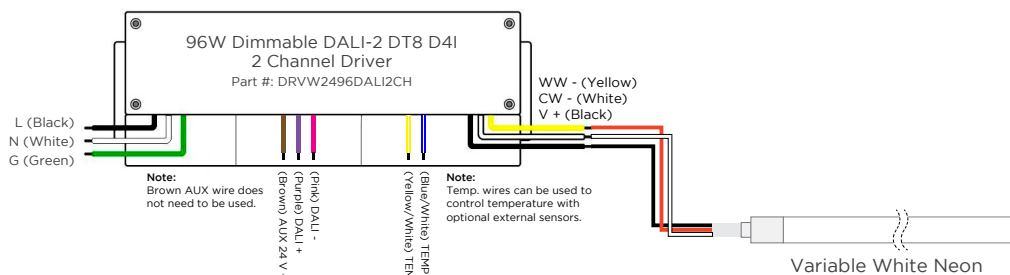
#### VARIABLE WHITE

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

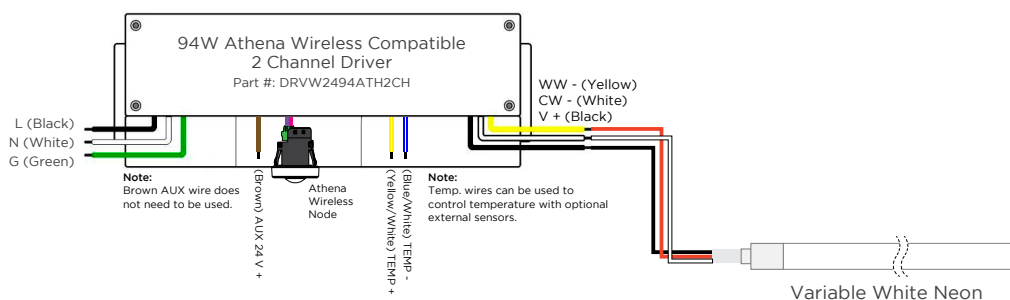
### DMX WIRING DIAGRAM - COMPATIBLE WITH ALL MODELS OF VARIABLE WHITE RIBBONLYTE



### DALI-2 WIRING WITH VARIABLE WHITE NEON



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

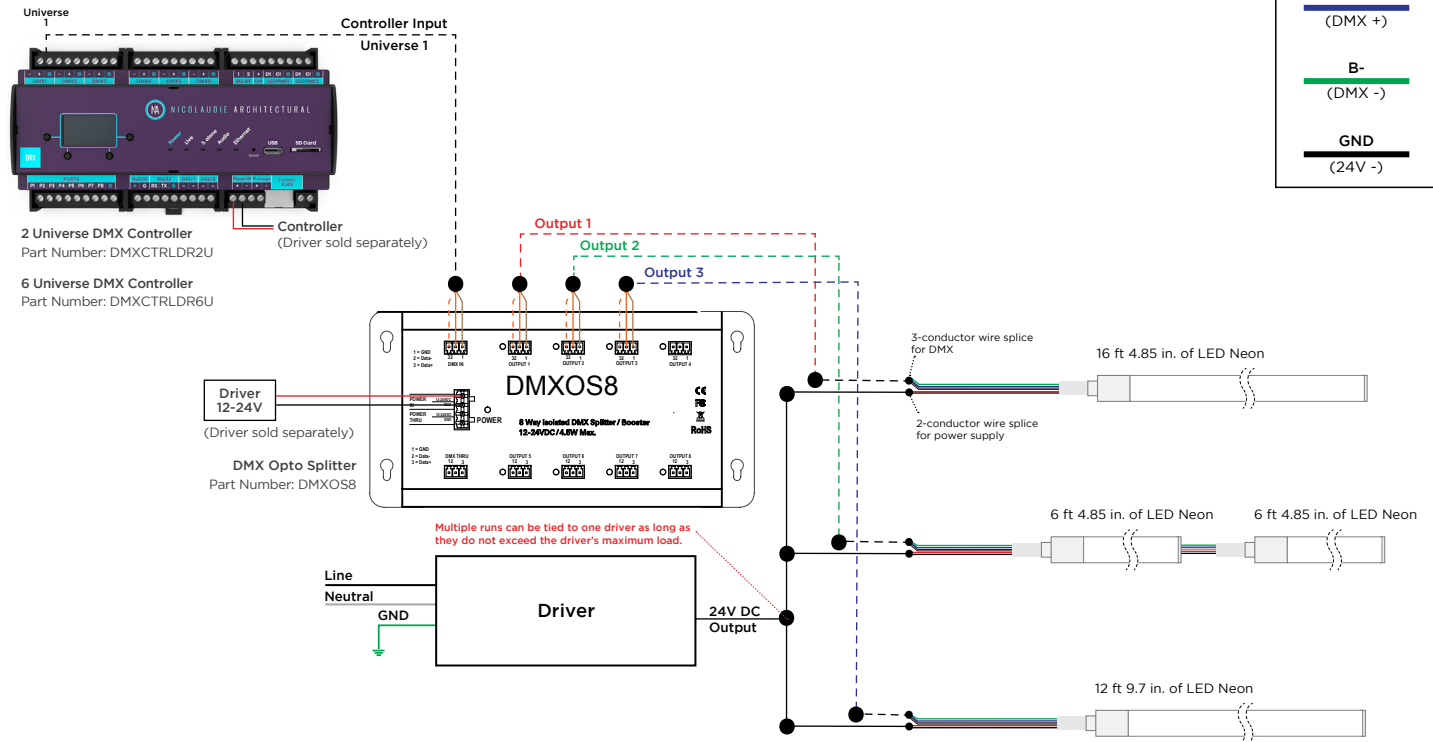


## WIRING DIAGRAMS - RGBW ADDRESSABLE

**One DMX Universe consists of 128 addresses and 512 channels (42 ft 8 in. of Neon Apex).**

Any single run of Neon Apex that is less than 16 ft 4.85 in. (5 m) can be wired directly to the controller.

For additional runs, Opto Splitter must be used. Each individual run will need its own Opto Splitter output.



REV.07MAY2025

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