

## 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, RGBW and even Pixel RGBW options, Neon Apex marries the classic gleam of neon with all the benefits of modern LEDs.

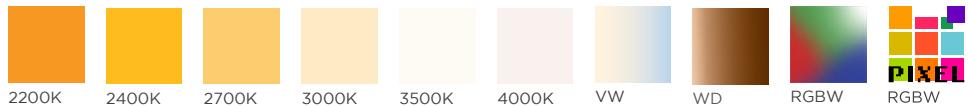
- Top-bending design, just like our RibbonLyte
- RGBW, Static White, Variable White, Warm Dim at 4.5 W/ft (14.8 W/m)
- Pixel RGBW at 5.3 W/ft (17.4 W/m)
- Waterproof and UV resistant
- Salt water resistant
- Compact square design creates signature style



## ORDERING GUIDE

Category	Wattage & Color	Power Feed Direction
<b>NLA</b>		
NLA - Neon Apex	<b>4.522</b> - 4.5 W/ft (14.8 W/m) 2200K <b>4.5RGB27</b> - 4.5 W/ft (14.8 W/m) RGB+White (2700K)	<b>E</b> - End Feed
	<b>4.524</b> - 4.5 W/ft (14.8 W/m) 2400K <b>4.5RGB30</b> - 4.5 W/ft (14.8 W/m) RGB+W (3000K)	<b>B</b> - Bottom Feed
	<b>4.527</b> - 4.5 W/ft (14.8 W/m) 2700K <b>4.5RGB40</b> - 4.5 W/ft (14.8 W/m) RGB+W (4000K)	<b>S</b> - Side Feed
	<b>4.530</b> - 4.5 W/ft (14.8 W/m) 3000K <b>4.5VW</b> - 4.5 W/ft (14.8 W/m) Variable White (2400K-6000K)	
<b>Mounting</b>	<b>4.535</b> - 4.5 W/ft (14.8 W/m) 3500K <b>4.5WD</b> - 4.5 W/ft (14.8 W/m) Warm Dim (1800K-3000K)	
1. Mounting Clips	<b>4.540</b> - 4.5 W/ft (14.8 W/m) 4000K <b>5.3RGB30ADD</b> - 5.3 W/ft (17.4 W/m) Pixel RGBW (3000K)	
Recommended for curved applications with 6 in. (150 mm) on center spacing (Part #: NLAMOUNTCLIPV2)		
2. 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.

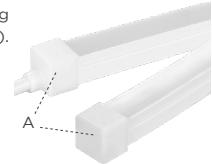
## POWER FEED OPTIONS / SPECIFICATIONS / USAGE GUIDELINES

SPECIFICATIONS		NEON APEX
Operating Voltage		24 VDC
Power Consumption		Static White, Variable White, Warm Dim, RGBW: 4.5 W/ft (14.8 W/m) / Pixel RGBW: 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		2200K, 2400K, 2700K, 3000K, 3500K, 4000K, Variable White (2400K-6000K), Warm Dim (1800K-3000K), RGBW (2700K, 3000K, 4000K), Pixel RGBW (3000K)
Lifetime		50,000 hours
Max Length		Static White: 39 ft 4.4 in. (12 m) / Variable White, Warm Dim, RGBW, Pixel RGBW: 16 ft 4.85 in. (5 m)
Incremental Length		Static White, Variable White, Warm Dim: 1.97 in. (50 mm) / RGBW: 3.28 in. (83.33 mm) / Pixel RGBW: 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
<b>Static White</b>		2200K: 360.9 lm/ft (1184 lm/m), 77 lm/W / 2400K: 404.8 lm/ft (1328 lm/m), 86 lm/W 2700K: 415.7 lm/ft (1364 lm/m), 89 lm/W / 3000K: 430.4 lm/ft (1412 lm/m), 92 lm/W 3500K: 442 lm/ft (1450 lm/m), 94 lm/W / 4000K: 453.5 lm/ft (1488 lm/m), 97 lm/W
<b>Variable White</b>		All LEDs at 100%: 305.2 lm/ft (1001.3 lm/m), 70 lm/W
<b>Warm Dim</b>		All LEDs at 100%: 264.2 lm/ft (866.9 lm/m), 60 lm/W
<b>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>Pixel RGBW</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
Lumens		

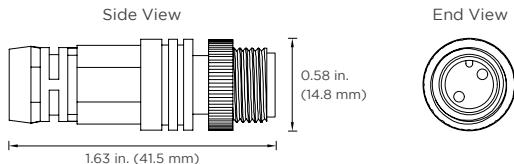
## MOLDED END CAPS



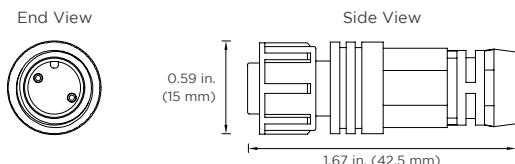
Note: Fixtures less than 8 in. (203 mm) long will come with silicone end caps (A).



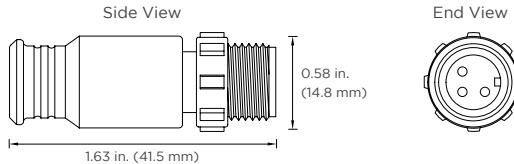
## 2-pin Male Connector



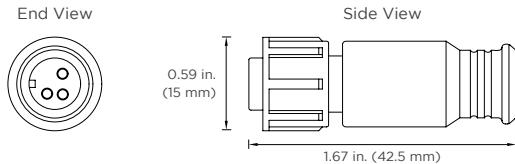
## 2-pin Female Connector



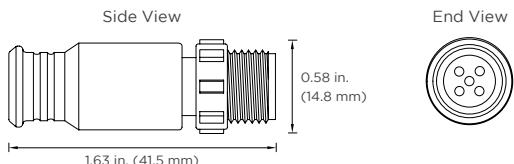
## 3-pin Male Connector



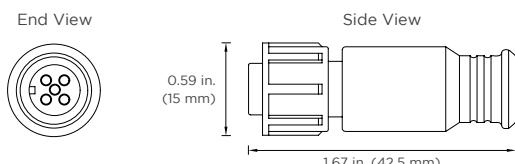
## 3-pin Female Connector



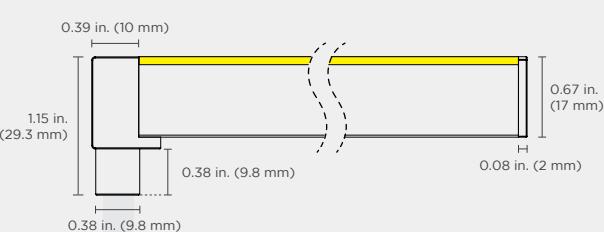
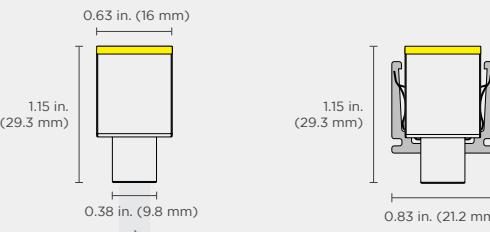
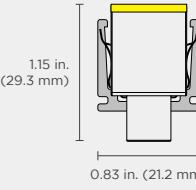
## 5-pin Male Connector

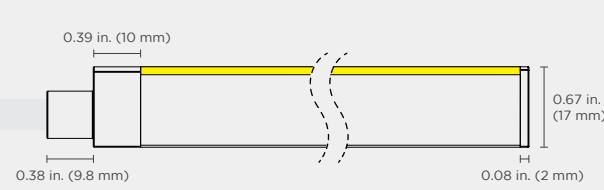
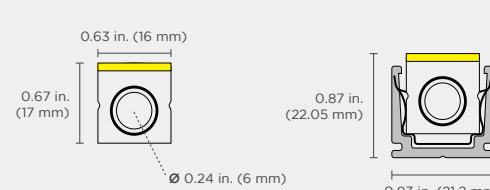
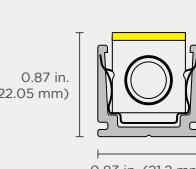


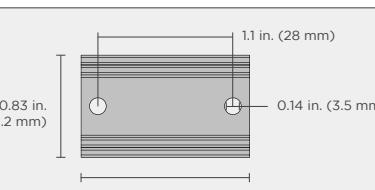
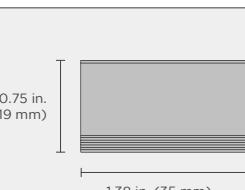
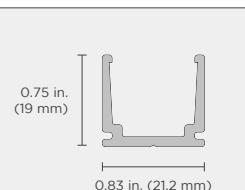
## 5-pin Female Connector

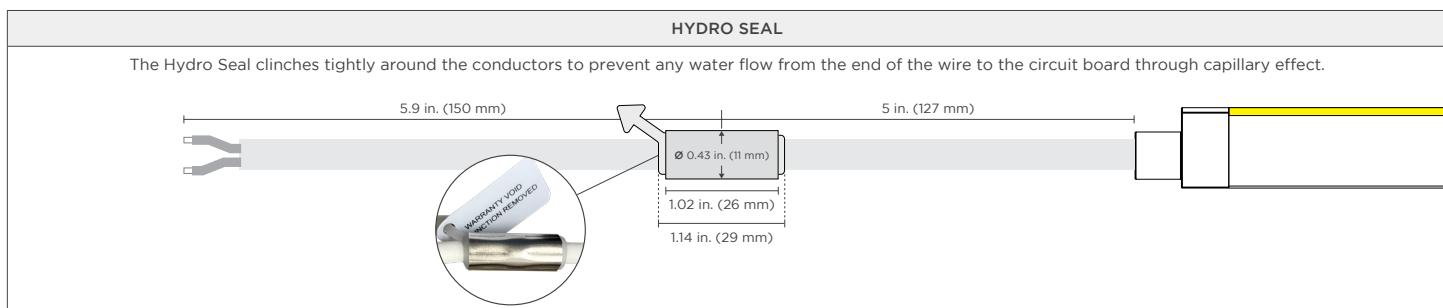


## DIMENSIONS / DIAGRAMS

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> Ø 0.24 in. (6 mm)</p>
	 <p><b>Width:</b> 0.83 in. (21.2 mm) <b>Height:</b> 1.15 in. (29.3 mm)</p>

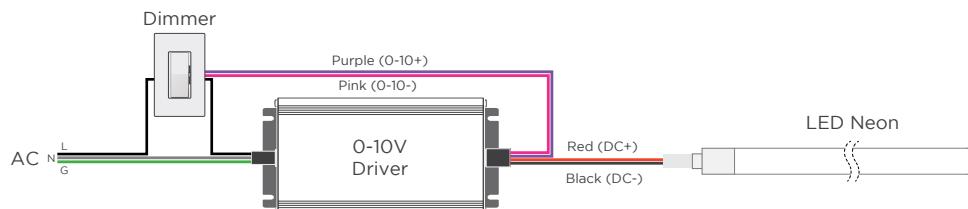
WITH END FEED MOLDED END CAP	
Side View	End View
 <p><b>Max Lengths:</b> Static White: 39 ft 4.4 in. (12 m) Variable White, RGBW, RGBW Addressable: 16 ft 4.85 in. (5 m)</p>	 <p><b>Width:</b> 0.63 in. (16 mm) <b>Height:</b> 0.67 in. (17 mm) <b>Cable Diameter:</b> Ø 0.24 in. (6 mm)</p>
	 <p><b>Width:</b> 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	Side View	End View
 <p><b>Width:</b> 0.83 in. (21.2 mm) <b>Depth:</b> 1.38 in. (35 mm)</p>	 <p><b>Height:</b> 0.75 in. (19 mm) <b>Depth:</b> 1.38 in. (35 mm)</p>	 <p><b>Width:</b> 0.83 in. (21.2 mm) <b>Height:</b> 0.75 in. (19 mm)</p>
MOUNTING CHANNEL		
<p>Recommended for all straight run applications. Sold by the foot, up to 6 ft 6 in. / 2 m (same width &amp; height as mounting clip) (Part #: NLACHV2)</p>		



## WIRING DIAGRAMS - STATIC WHITE / RGBW

## 0-10V



## WIRE COLORS

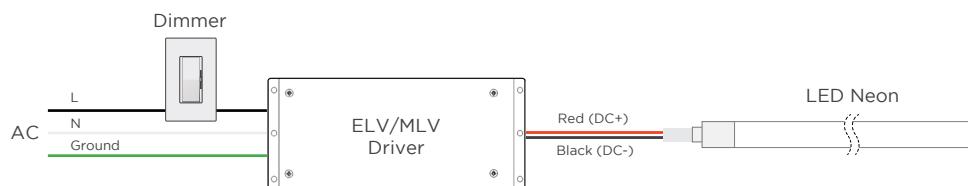
## STATIC WHITE

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

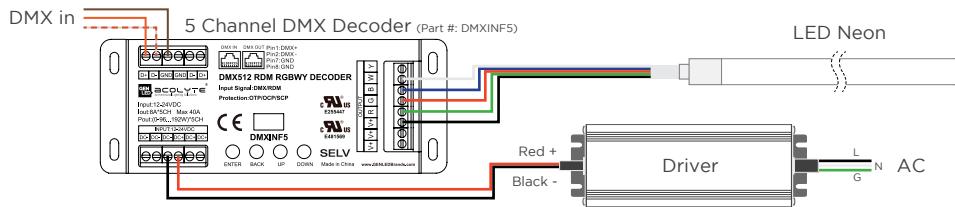
## RGBW

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

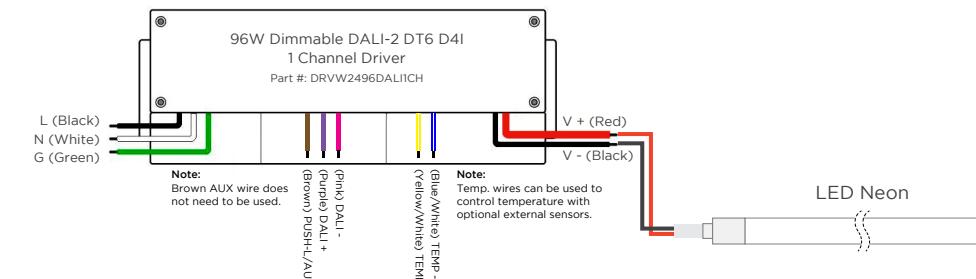
## MLV / ELV



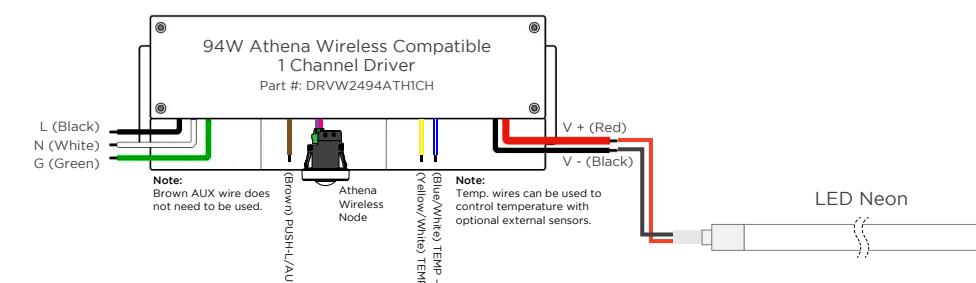
## DMX



## DALI-2 WIRING WITH STATIC WHITE NEON APEX

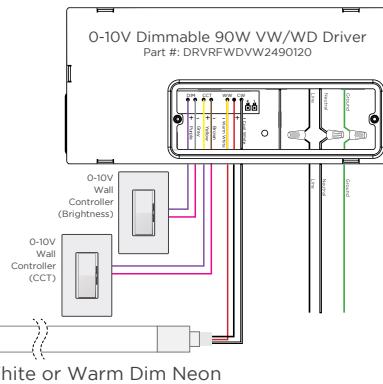


## STATIC WHITE NEON APEX WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



## WIRING DIAGRAMS - VARIABLE WHITE / WARM DIM

## 2-CHANNEL VARIABLE WHITE &amp; WARM DIM DIMMING



## WIRE COLORS

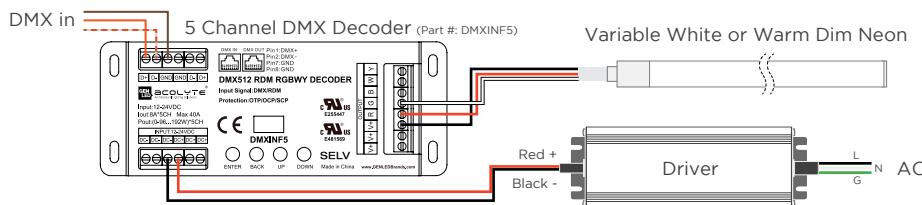
## VARIABLE WHITE

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

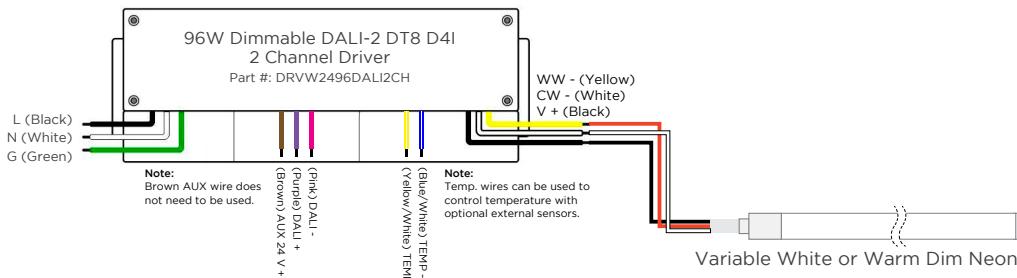
## WARM DIM

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

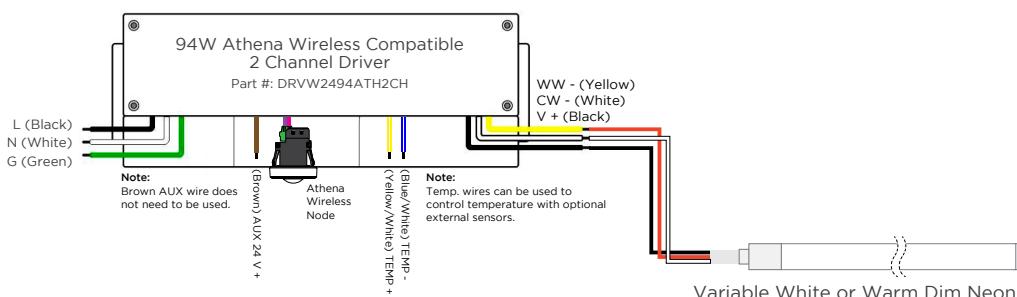
## DMX WIRING DIAGRAM - COMPATIBLE WITH VARIABLE WHITE &amp; WARM DIM NEON



## DALI-2 WIRING WITH VARIABLE WHITE &amp; WARM DIM NEON



## ATHENA WIRELESS COMPATIBLE DRIVER WIRING WITH VARIABLE WHITE &amp; WARM DIM NEON

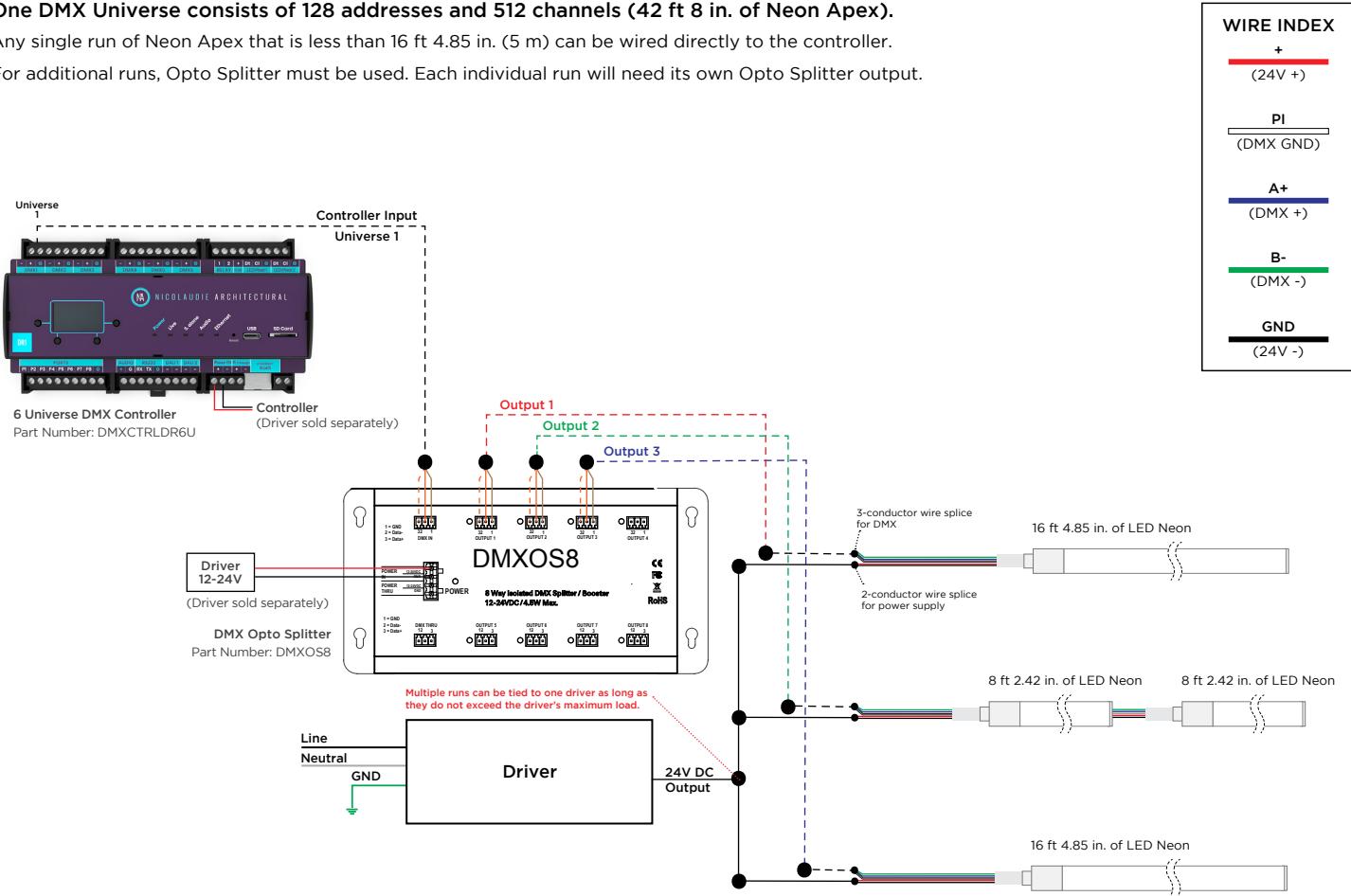


## WIRING DIAGRAMS - RGBW ADDRESSABLE

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.



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