

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



IMPORTANT

The maximum operating temperature for this product is **140 °F (60 °C)**. In high-heat environments (like building façades) where the temperature of the mounting surface could reach or exceed this threshold, we strongly recommend using the standoff mounting accessories listed on this spec sheet.

ORDERING GUIDE

Category	Wattage & Color		Power Feed Direction
NLA			
NLA - Neon Apex	4.522 - 4.5 W/ft (14.8 W/m) 2200K 4.524 - 4.5 W/ft (14.8 W/m) 2400K 4.527 - 4.5 W/ft (14.8 W/m) 2700K 4.530 - 4.5 W/ft (14.8 W/m) 3000K 4.535 - 4.5 W/ft (14.8 W/m) 3500K 4.540 - 4.5 W/ft (14.8 W/m) 4000K	4.5RGB27 - 4.5 W/ft (14.8 W/m) RGB+White (2700K) 4.5RGB30 - 4.5 W/ft (14.8 W/m) RGB+W (3000K) 4.5RGB40 - 4.5 W/ft (14.8 W/m) RGB+W (4000K) 4.5VW - 4.5 W/ft (14.8 W/m) Variable White (2400K-6000K) 4.5WD - 4.5 W/ft (14.8 W/m) Warm Dim (1800K-3000K) 5.3RGB30ADD - 5.3 W/ft (17.4 W/m) Pixel RGBW (3000K)	E - End Feed B - Bottom Feed S - Side Feed

Mounting Options

Mounting Clips

Recommended for curved applications with 6 in. (150 mm) on center spacing (Part #: NLAMOUNTCLIPV2)

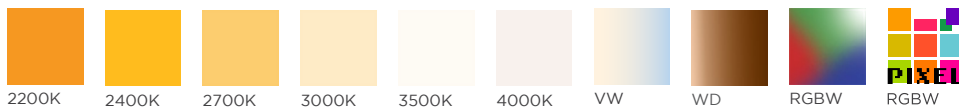
Mounting Channel

Recommended for all straight run applications Sold by the foot, up to 6 ft 6 in. / 2 m (Part #: NLACHV2)

Standoff

Recommended for all exterior applications (Part #: LB-FRN-STDOFF)

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) NOT FIELD CUTTABLE
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
DMX Type (Addressable / Pixel)	DMX IC UCS512H4LB.
Lumens	Static White 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
	Variable White All LEDs at 100%: 305.2 lm/ft (1001.3 lm/m), 70 lm/W
	Warm Dim All LEDs at 100%: 264.2 lm/ft (866.9 lm/m), 60 lm/W
	RGBW 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
	Pixel RGBW 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

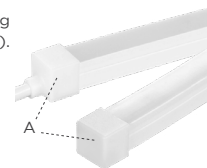
MOLDED END CAPS



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 	
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
Max Lengths: Static White: 39 ft 4.4 in. (12 m) Variable White, RGBW, RGBW Addressable: 16 ft 4.85 in. (5 m)	Width: 0.63 in. (16 mm) Height: 1.15 in. (29.3 mm) Cable Diameter: 0.24 in. (6 mm) With Mounting Clip Width: 0.83 in. (21.2 mm) Height: 1.15 in. (29.3 mm)

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

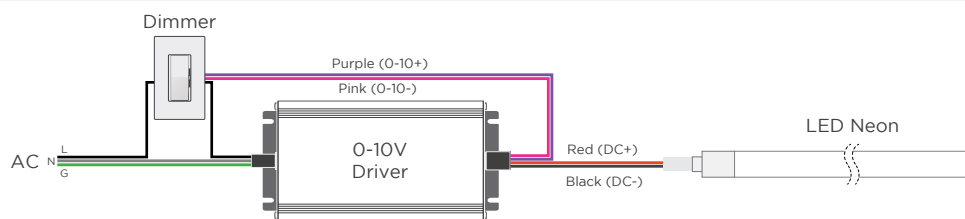
MOUNTING CLIP			STANDOFF		
Recommended for curved applications with 6 in. (150 mm) on center spacing.			Recommended for all exterior applications (Part #: LB-FRN-STDOFF)		
Top View	Side View	End View	Side View	Top View	Assembled View
Width: 0.83 in. (21.2 mm) Depth: 1.38 in. (35 mm)	Height: 0.75 in. (19 mm) Depth: 1.38 in. (35 mm)	Width: 0.83 in. (21.2 mm) Height: 0.75 in. (19 mm)	Width: 0.43 in. (10.87 mm) Height: 0.47 in. (11.91 mm)	Assembled Height: 1.34 in. (33.96 mm) Screw Hole Diameter: 0.22 in. (5.5 mm)	

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)	

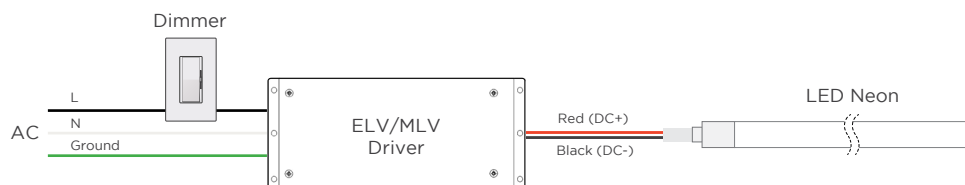
HYDRO SEAL
The Hydro Seal clinches tightly around the conductors to prevent any water flow from the end of the wire to the circuit board through capillary effect.

WIRING DIAGRAMS - STATIC WHITE / RGBW

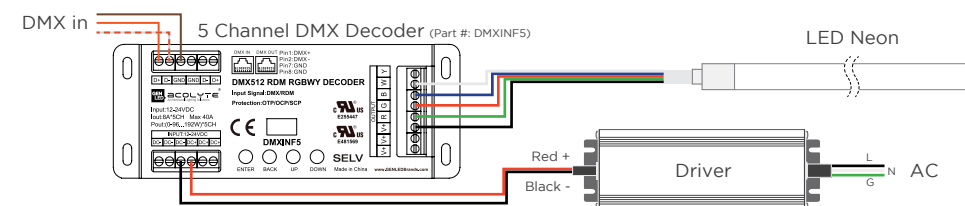
0-10V



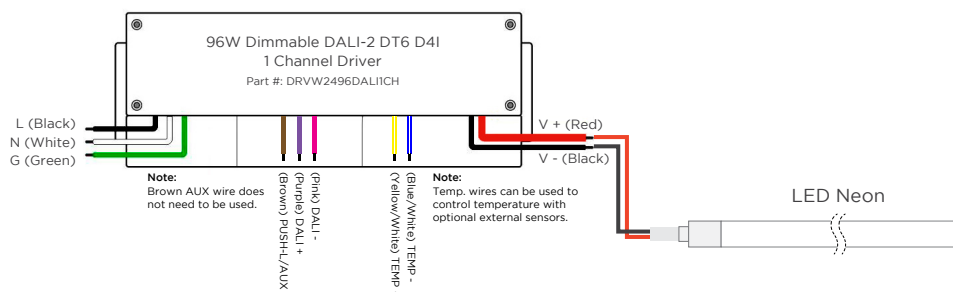
MLV / ELV



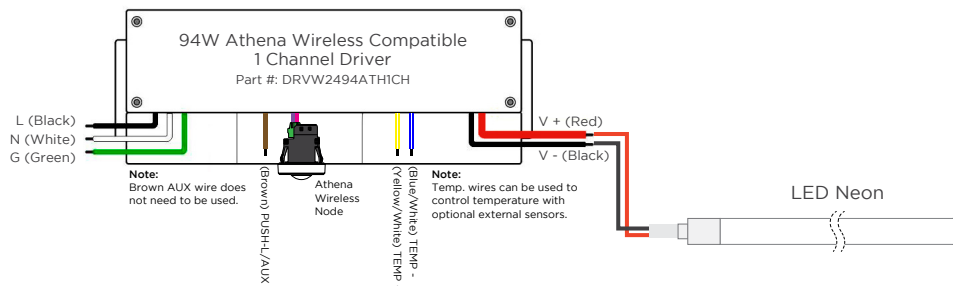
DMX



DALI-2 WIRING WITH STATIC WHITE NEON APEX



STATIC WHITE NEON APEX WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



WIRE COLORS

STATIC WHITE

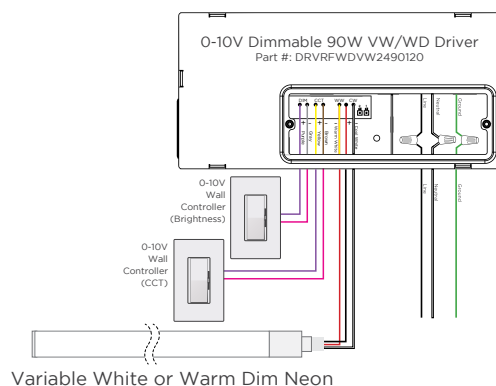
Red Wire (+) Positive
Black Wire (-) Negative

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 / WARM DIM

2-CHANNEL VARIABLE WHITE & WARM DIM DIMMING



WIRE COLORS

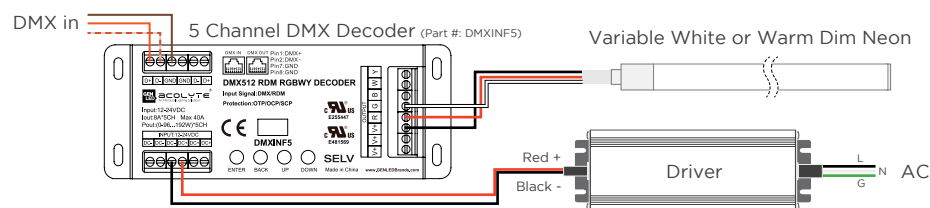
VARIABLE WHITE

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

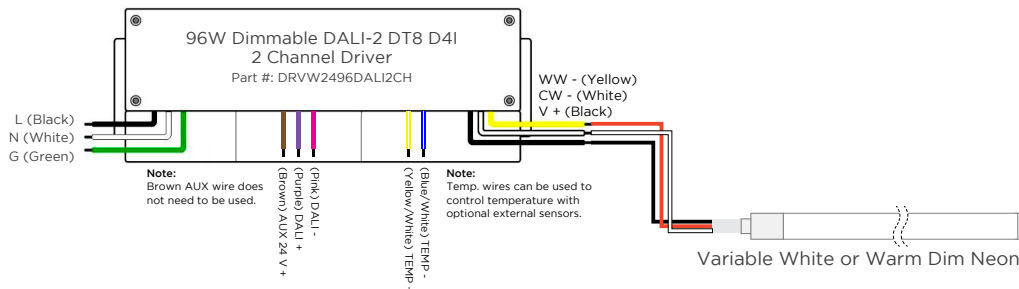
WARM DIM

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

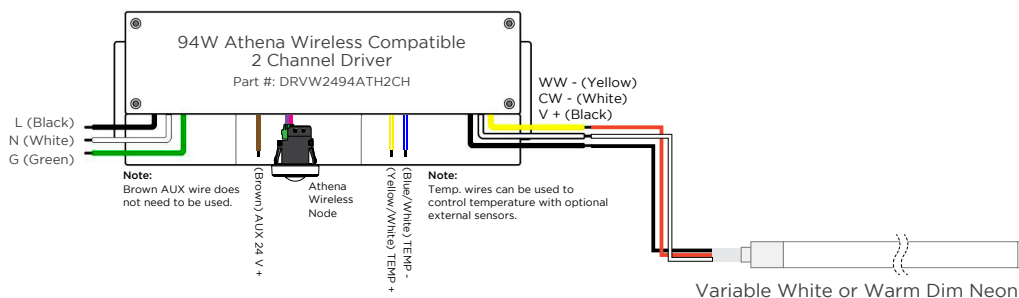
DMX WIRING DIAGRAM - COMPATIBLE WITH VARIABLE WHITE & WARM DIM NEON



DALI-2 WIRING WITH VARIABLE WHITE & WARM DIM NEON



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

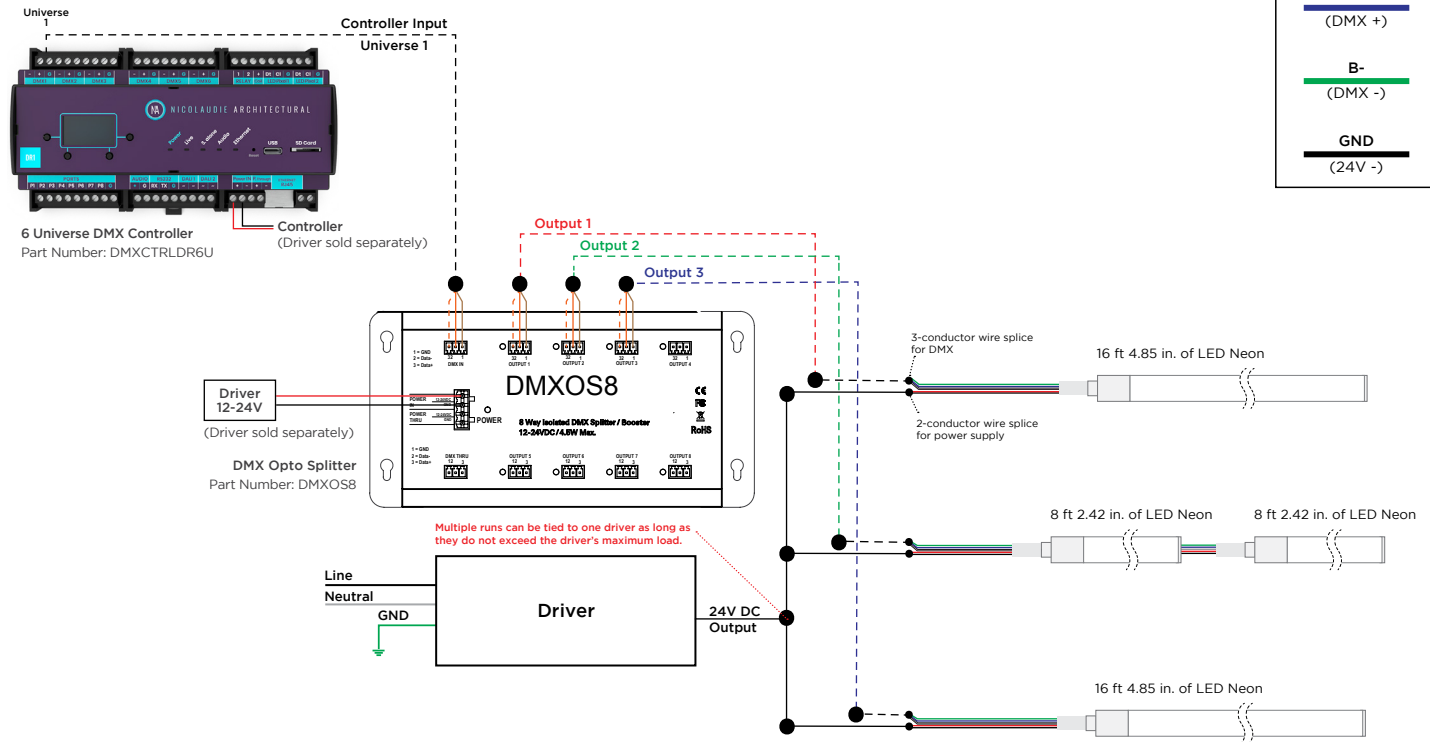


WIRING DIAGRAMS - RGBW ADDRESSABLE

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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GLOBAL HQ

320 Murray Hill Pkwy
East Rutherford, NJ 07073
U.S.
T: (+1) 212 629 6830
E: Sales-US@GENLEDBrands.com

EUROPEAN HQ

Hogeweyselaan 119
1382 JK Weesp
Netherlands
T: (+31) 346 235 000
E: SalesEurope@GENLEDBrands.com

MEINA HQ

PO Box 371378, #823, Building 4EA
Dubai Airport Free Zone
Dubai, UAE
T: (+971) 4 701 7901
E: SalesMEINA@genledbrands.com

ASIA-PACIFIC HQ

Room 402, Building D
Shenshi Tongchuang Science and Technology Park
No. 16 Hongyin Road
Xingqiang Community, Xinhua Street
Guangming District, Shenzhen, China 518107
T: (+86) 755 8529 0710
E: Sales-Pacific@GENLEDBrands.com