GEN LED acolyte® Architectural Lighting Solutions

Date | Project

Notes

NEON CONTOUR PLUS

This bendable, waterproof silicone fixture features all the benefits of modern LEDs while creating the classic look of neon tubes. Available in Static White, Variable White, Warm Dim and color changing RGBW, Neon Contour Plus is designed with a larger profile to brave the elements in façade lighting and lettering. It's like neon, but better – and bigger!

- Side-bending flexible silicone creates larger vivid tubes of light
- Available in RGBW, Static White, Variable White and Warm Dim
- 4.5 W/ft (14.8 W/m)
- Waterproof and UV resistant
- Salt water resistant
- Unique rounded design helps create signature styles

UL CE RoHS REACH IP67 TM66 ASSESSED

ORDERING GUIDE

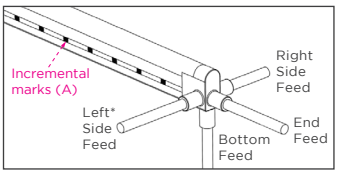
Category	Wattage & Color		Power Feed Direction
NLCP			
NLCP - Neon Contour Plus	**4.524** - 4.5 W/ft (14.8 W/m) 2400K	**4.5RGB27** - 4.5 W/ft (14.8 W/m) RGB+White (2700K)	**E** - End Feed
	4.527 - 4.5 W/ft (14.8 W/m) 2700K	**4.5RGB30** - 4.5 W/ft (14.8 W/m) RGB+White (3000K)	**B** - Bottom Feed
	4.530 - 4.5 W/ft (14.8 W/m) 3000K	**4.5RGB40** - 4.5 W/ft (14.8 W/m) RGB+White (4000K)	**LS** - Left Side Feed*
	4.535 - 4.5 W/ft (14.8 W/m) 3500K	**4.5VW** - 4.5 W/ft (14.8 W/m) Variable White (2400K-6000K)	**RS** - Right Side Feed
Mounting	**4.540** - 4.5 W/ft (14.8 W/m) 4000K	**4.5WD** - 4.5 W/ft (14.8 W/m) Warm Dim (1800K-3000K)	

* Recommended

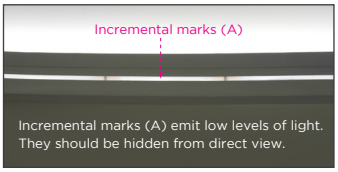
1. Aluminum Mounting Clip
Recommended for curved applications with 6 in. (150 mm) on center spacing
Part #: NLCPMOUNTCLIPV2

2. Neon Contour Plus Mounting Channel
Recommended for all straight run applications
Sold by the foot, up to 6 ft 6 in. / 2 m
Part #: NLCPCHV2

POWER FEED OPTIONS



INCREMENTAL MARKS



AVAILABLE COLORS AND COLOR TEMPERATURES

2400K | 2700K | 3000K | 3500K | 4000K | VW | WD | RGBW

USAGE GUIDELINES

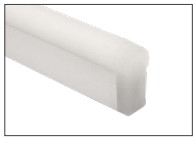
- Neon Contour cannot be cut in the field. All custom cuts and connections for these models must be performed at the factory to ensure waterproofing standards are met. Any modification of the waterproofing will result in a void warranty.
- When installing this product, consider the surface temperature 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 around swimming pools and spa tubs, 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, 0-10 V modules and DMX interfaces when applicable.
- 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.

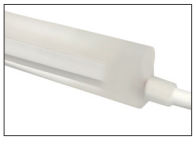
POWER FEED OPTIONS / SPECIFICATIONS / USAGE GUIDELINES

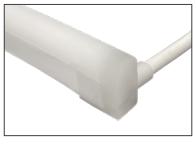
SPECIFICATIONS	NEON CONTOUR PLUS
Operating Voltage	24 VDC
Power Consumption	4.5 W/ft (14.8 W/m)
Protection Rating	IP67
Beam Angle	110°
Dimming	ELV / MLV / 0-10 Volt / DMX
Operating Temperature	-4 — 140 °F (-20 — 60 °C)
Color Temperatures / Colors	2400K, 2700K, 3000K, 3500K, 4000K, Variable White (2400K-6000K), Warm Dim (1800K-3000K), RGBW (2700K, 3000K, 4000K)
Lifetime (L70 reported)	50,000 hours
Max Length	Static White: 39 ft 4.4 in. (12 m) Variable White, Warm Dim, 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) **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	5.9 in. (150 mm)
CRI (white)	90+ for all Color Temperatures
Lumens	**Static White** 2400K: 293.8 lm/ft (964 lm/m), 63 lm/W / 2700K: 300.5 lm/ft (986 lm/m), 65 lm/W 3000K: 311.5 lm/ft (1022 lm/m), 66 lm/W / 3500K: 321.9 lm/ft (1056 lm/m), 69 lm/W 4000K: 326.7 lm/ft (1072 lm/m), 70 lm/W
	Variable White All LEDs at 100%: 238.3 lm/ft (781.7 lm/m), 54 lm/W
	Warm Dim All LEDs at 100%: 214.9 lm/ft (705.2 lm/m), 49 lm/W
	RGBW Red: 10.37 lm/ft (34 lm/m), 10 lm/W / Green: 34.15 lm/ft (112 lm/m), 35.5 lm/W / Blue: 8.54 lm/ft (28 lm/m), 8.7 lm/W White: 57.32 lm/ft (188 lm/m), 31.4 lm/W / All LEDs at 100%: 108.54 lm/ft (356 lm/m), 22.9 lm/W

MOLDED END CAPS

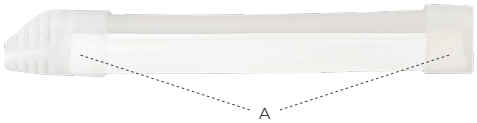

Molded End Cap

Molded Power Feed End Cap Bottom Feed

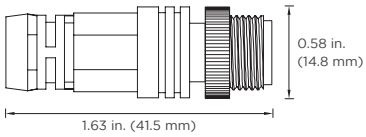

Molded Power Feed End Cap End Feed


Molded Power Feed End Cap Side Feed

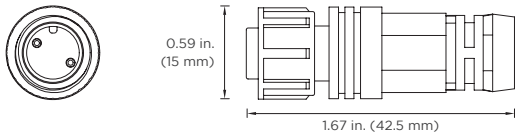
Note: Fixtures less than 8 in. (203 mm) long will come with silicone end caps (A).



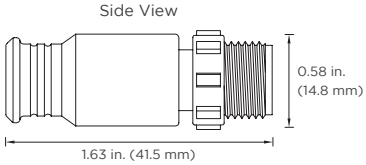
2-pin Male Connector



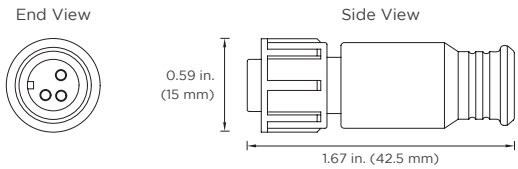
2-pin Female Connector



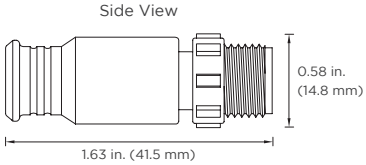
3-pin Male Connector



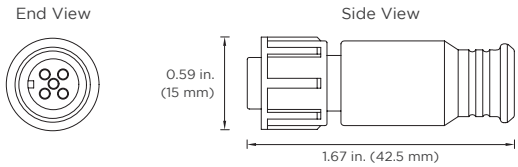
3-pin Female Connector



5-pin Male Connector



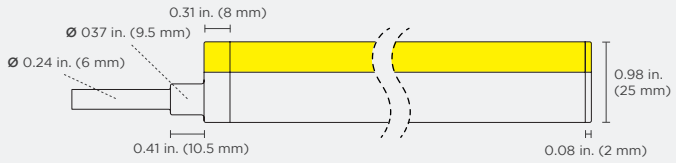
5-pin Female Connector



DIMENSIONS & DIAGRAMS

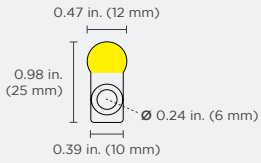
END FEED

Side View



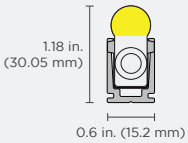
Max Lengths:
Static White: 39 ft 4.4 in. (12 m)
Variable White, RGBW: 16 ft 4.85 in. (5 m)

End View



Width: 0.47 in. (12 mm)
Height: 0.98 in. (25 mm)
Cable Diameter: 0.24 in. (6 mm)

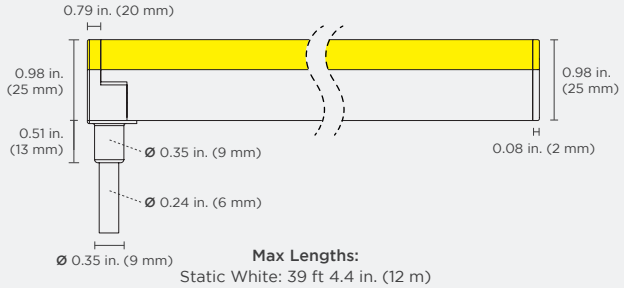
With Mounting Clip



Width: 0.6 in. (15.2 mm)
Height: 1.18 in. (30.05 mm)

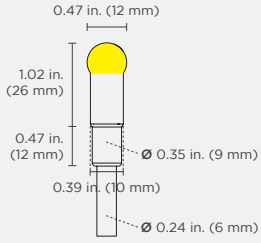
BOTTOM FEED

Side View



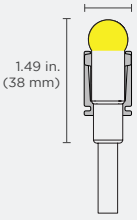
Max Lengths:
Static White: 39 ft 4.4 in. (12 m)
Variable White, RGBW: 16 ft 4.85 in. (5 m)

End View



Width: 0.47 in. (12 mm)
Height: 1.49 in. (38 mm)
Cable Diameter: 0.24 in. (6 mm)

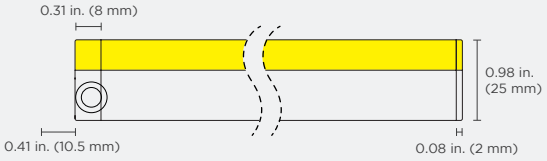
With Mounting Clip



Width: 0.6 in. (15.2 mm)
Height: 1.49 in. (38 mm)

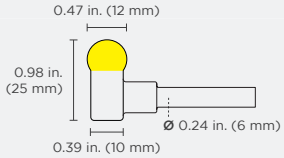
SIDE FEED

Side View



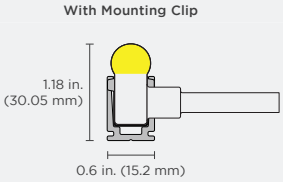
Max Lengths:
Static White: 39 ft 4.4 in. (12 m)
Variable White, RGBW: 16 ft 4.85 in. (5 m)

End View



Width: 0.47 in. (12 mm)
Height: 0.98 in. (25 mm)
Cable Diameter: 0.24 in. (6 mm)

With Mounting Clip

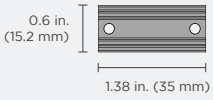


Width: 0.6 in. (15.2 mm)
Height: 1.18 in. (30.05 mm)

MOUNTING CLIP

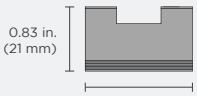
Recommended for curved applications with 6 in. (150 mm) on center spacing.

Top View



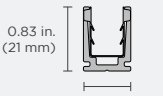
Width: 0.6 in. (15.2 mm)
Depth: 1.38 in. (35 mm)

Side View



Depth: 1.38 in. (35 mm)
Height: 0.83 in. (21 mm)

End View



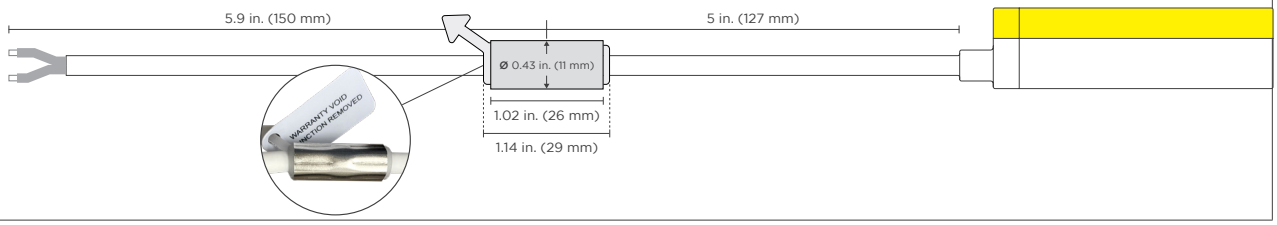
Width: 0.6 in. (15.2 mm)
Height: 0.83 in. (21 mm)

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 #: NLCPCHV2)

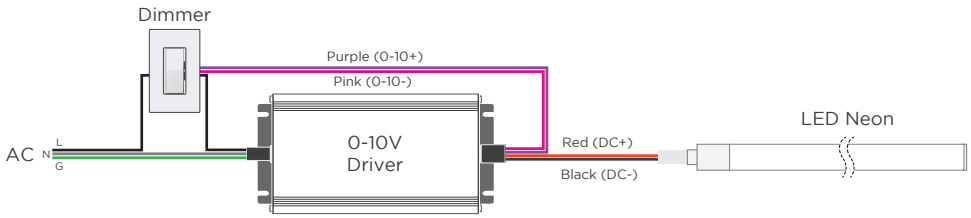
HYDRO SEAL

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.

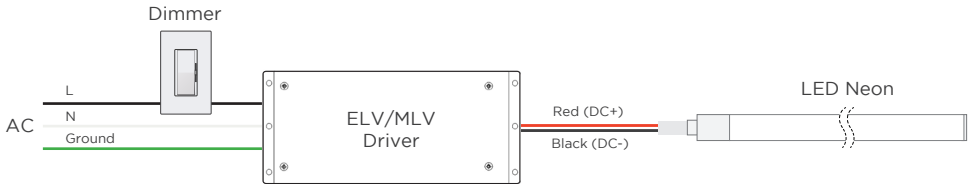


WIRING DIAGRAMS - STATIC WHITE / RGBW

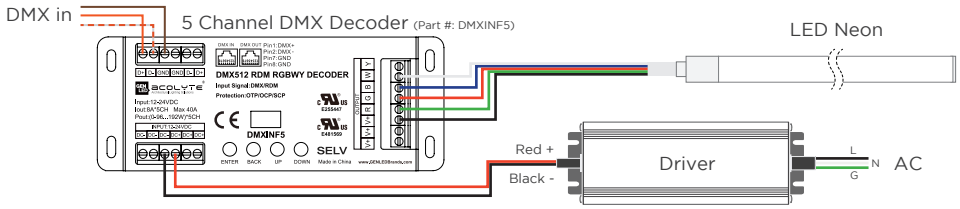
0-10V



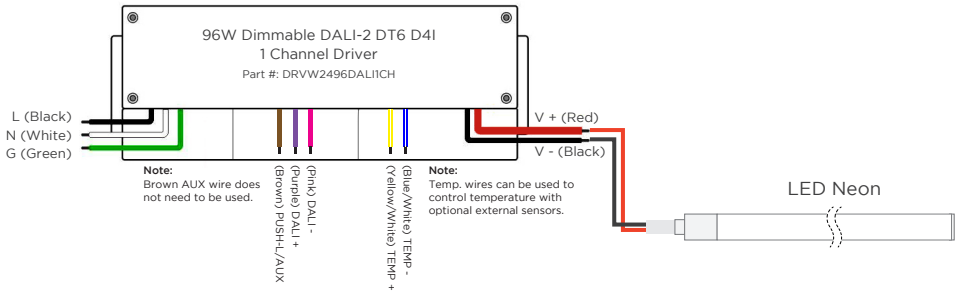
MLV / ELV



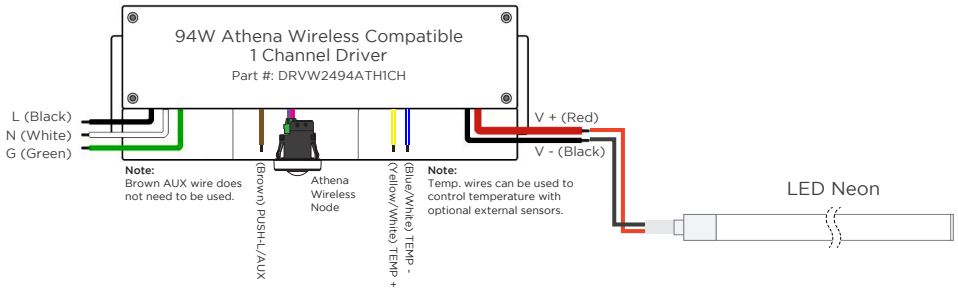
DMX



DALI-2 WIRING WITH STATIC WHITE NEON



STATIC WHITE NEON WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER



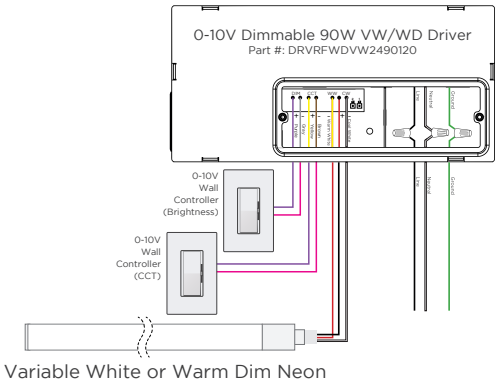
WIRE COLORS

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

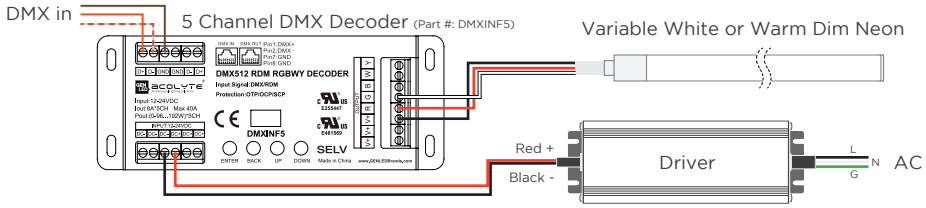
RGBW
Black Wire (+) Positive
Red Wire (-) goes to Red Channel
Green Wire (-) goes to Green Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel

WIRING DIAGRAMS - VARIABLE WHITE / WARM DIM

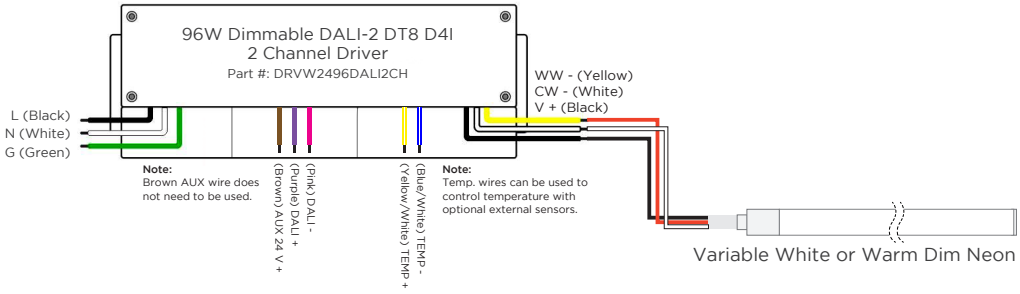
2-CHANNEL VARIABLE WHITE & WARM DIM DIMMING



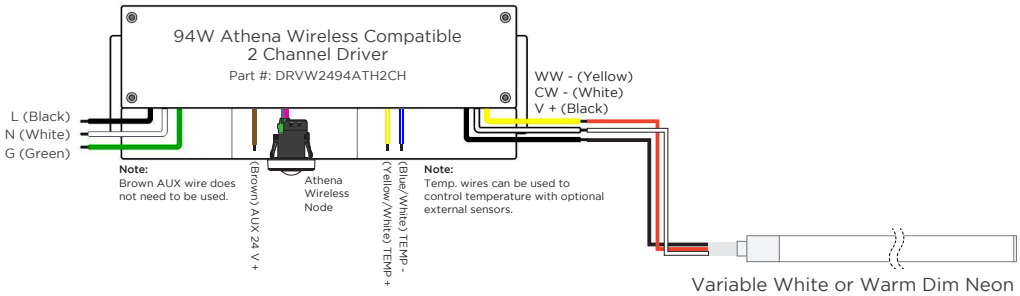
DMX WIRING DIAGRAM - COMPATIBLE WITH VARIABLE WHITE & WARM DIM NEON



DALI-2 WIRING WITH VARIABLE WHITE & WARM DIM NEON



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



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

REV.12FEB2026

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