GEN LED acolyte® Architectural Lighting Solutions

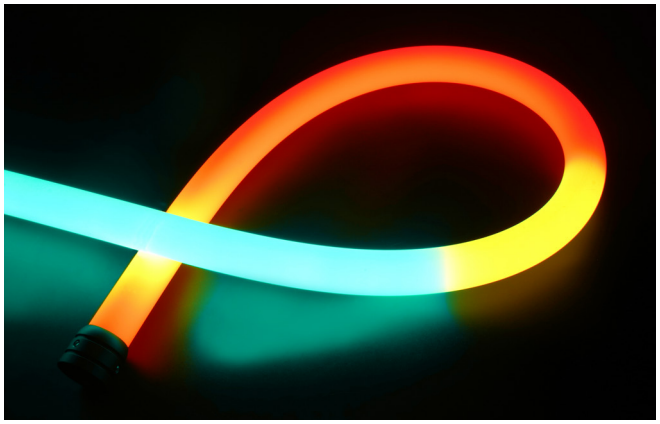
Date | Project

Notes

NEON360

Neon360 is a bendable LED neon tube with a round profile that provides uniform light distribution around its entire face. With a 1 in. (0.98 in./25 mm) diameter, this diode-free 24V Neon360 tube offers several unique mounting options for creative displays. Neon360 is now available in Static White, Variable White, color changing RGBW and Pixel programmable RGBW options.

- Fully illuminated flexible round LED neon
- 0.98 in. (25 mm) diameter
- IP67
- 16 ft 4.85 in. (5 m) max length (single feed)
- 32 ft 9.7 in. (10 m) max length (double feed)
- Static White (2700K, 3000K, 4000K, 5000K, 6000K):
  4.3 W/ft (14 W/m)
  305 lm/ft (1000 lm/m), 71 lm/W at 4000K
- Variable White (2700K-6000K):
  5.5 W/ft (18 W/m)
  381 lm/ft (1250 lm/m), 69 lm/W all on
- RGBW (2700K, 3000K, 4000K, 5000K, 6000K):
  5.5 W/ft (18 W/m)
  192 lm/ft (630 lm/m), 35 lm/W all on @ RGBW (4000K)
- Pixel RGBW (2700K, 3000K, 4000K, 5000K, 6000K):
  5.5 W/ft (18 W/m)
  171 lm/ft (560 lm/m), 31 lm/W all on



RoHS IK08 IP67 LM80 TM66 ASSESSED

AVAILABLE COLOR TEMPERATURES

2700K 3000K 4000K 5000K 6000K VW RGBW RGBW

ACCESSORY FINISHES

Black Silver White Custom RAL*

*Additional fees and lead time apply

ORDERING GUIDE

Category	Wattage & Color		Power Feed Direction	Control
NL360				
NL360 - Neon360	**4.327** - 4.3 W/ft (14 W/m) 2700K	**5.5RGB27** - 5.5 W/ft (18 W/m) RGB+2700K	**E** - End Feed	**S** - SPI
	4.330 - 4.3 W/ft (14 W/m) 3000K	**5.5RGB30** - 5.5 W/ft (18 W/m) RGB+3000K	**S** - Side Feed**	**(only when selecting pixel models)**
	4.340 - 4.3 W/ft (14 W/m) 4000K	**5.5RGB40** - 5.5 W/ft (18 W/m) RGB+4000K	**Not available with accessories 1, 2, 3, 4 listed on the right	
	4.350 - 4.3 W/ft (14 W/m) 5000K	**5.5RGB50** - 5.5 W/ft (18 W/m) RGB+5000K		
	4.360 - 4.3 W/ft (14 W/m) 6000K	**5.5RGB60** - 5.5 W/ft (18 W/m) RGB+6000K		
	5.5VW - 5.5 W/ft (18 W/m) Variable White 2700K-6000K			

ACCESSORIES (see page 3 for details)

1. Vertical Ceiling Mount Kit with Clear Tube
Part # (black finish): NL360VCMNTCTBK
Part # (silver finish): NL360VCMNTCTSV
Part # (white finish): NL360VCMNTCTWH

2. Vertical Suspended Mounting Kit with Clear Tube
STATIC WHITE:
Part # (black finish): NL360VMNTCTBK
Part # (silver finish): NL360VMNTCTSV
Part # (white finish): NL360VMNTCTWH
VARIABLE WHITE:
Part # (black finish): NL360VWVMNTCTBK
Part # (silver finish): NL360VWVMNTCTSV
Part # (white finish): NL360VWVMNTCTWH
RGBW:
Part # (black finish): NL360RGBWVMNTCTBK
Part # (silver finish): NL360RGBWVMNTCTSV
Part # (white finish): NL360RGBWVMNTCTWH
PIXEL RGBW:
Part # (black finish): NL360SPIVMNTCTBK
Part # (silver finish): NL360SPIVMNTCTSV
Part # (white finish): NL360SPIVMNTCTWH

3. Draped Ceiling Mounting Kit
Part # (black finish): NL360DCMNTBK
Part # (silver finish): NL360DCMNTSV
Part # (white finish): NL360DCMNTWH

4. Horizontal Suspended Mounting Kit with Clear Tube
STATIC WHITE:
Part # (black finish): NL360HSUSCTBK
Part # (silver finish): NL360HSUSCTSV
Part # (white finish): NL360HSUSCTWH
VARIABLE WHITE:
Part # (black finish): NL360VWHSUSCTBK
Part # (silver finish): NL360VWHSUSCTSV
Part # (white finish): NL360VWHSUSCTWH
RGBW:
Part # (black finish): NL360RGBWHSUSCTBK
Part # (silver finish): NL360RGBWHSUSCTSV
Part # (white finish): NL360RGBWHSUSCTWH
PIXEL RGBW:
Part # (black finish): NL360SPIHSUSCTBK
Part # (silver finish): NL360SPIHSUSCTSV
Part # (white finish): NL360SPIHSUSCTWH

5. Mounting Buckle (indoor applications only)
Part #: NL360MB

6. Mounting Bracket (indoor applications only)
Part #: NL360MBKT

7. Suspended Mounting Kit with Mounting Bracket (indoor applications only)
Part #: NL360HSUSMBKT

8. Wall Mounting Clip (indoor applications only)
Part #: NL360WMC

NOTE: To avoid sagging, horizontal (straight-run) mounting requires suspension every 2 ft (610 mm).

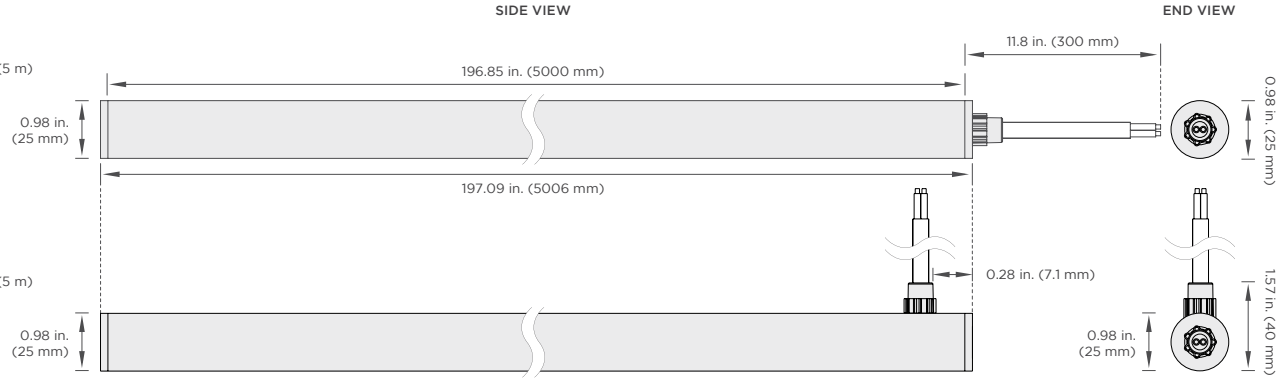
SPECIFICATIONS / DIMENSIONS

SPECIFICATIONS	NEON360			
Operating Voltage	24 VDC			
Beam Angle	360°			
Protection Rating	IP67			
Color Temperature & Colors	2700K, 3000K, 4000K, 5000K, 6000K	Variable White (2700K-6000K)	RGBW (2700K, 3000K, 4000K, 5000K, 6000K)	Pixel RGBW (2700K, 3000K, 4000K, 5000K, 6000K)
Power Consumption	4.3 W/ft (14 W/m)	5.5 W/ft (18 W/m)	5.5 W/ft (18 W/m)	5.5 W/ft (18 W/m)
Lumens	305 lm/ft (1000 lm/m) at 4000K	381 lm/ft (1250 lm/m) all on	192 lm/ft (630 lm/m) all on	171 lm/ft (560 lm/m) all on
Efficacy	71 lm/W at 4000K	69 lm/W all LEDs on	35 lm/W all on	31 lm/W all on
LED Pitch	98 LEDs/ft (320 LEDs/m)	188 LEDs/ft (616 LEDs/m)	73 LEDs/ft (240 LEDs/m)	68 LEDs/ft (224 LEDs/m)
Incremental Length (NOT FIELD CUTTABLE)	0.2 in. (5 mm)	1.79 in. (45.5 mm)	1.97 in. (50 mm)	4.92 in. (125 mm)
Minimum Bending Radius	1.95 in. (50 mm)	3.15 in. (80 mm)	3.15 in. (80 mm)	3.15 in. (80 mm)
Dimming	PWM			
CRI	90+ CRI (for white LEDs only)			
IC Code	UCS2904 (for Pixel RGBW only)			
Lifetime (L70 reported)	50,000 hours			
Max Run Length	Single feed: 16 ft 4.85 in. (5 m) / double feed: 32 ft 9.7 in. (10 m)			
Operating Temperature	-4 — 113 °F (-20 — 45 °C)			
Suspension Cable Length	Standard suspension cables are 39.37 in. (1 m) long. Order custom suspension cables up to 16 ft 4.85 in. (5 m) or longer.			
Warranty	5 years			

DIMENSIONS

END FEED
Width: 0.98 in. (25 mm)
Height: 0.98 in. (25 mm)
Length: Up to 16 ft 4 in. (5 m)

SIDE FEED
Width: 0.98 in. (25 mm)
Height: 1.57 in. (40 mm)
Length: Up to 16 ft 4 in. (5 m)



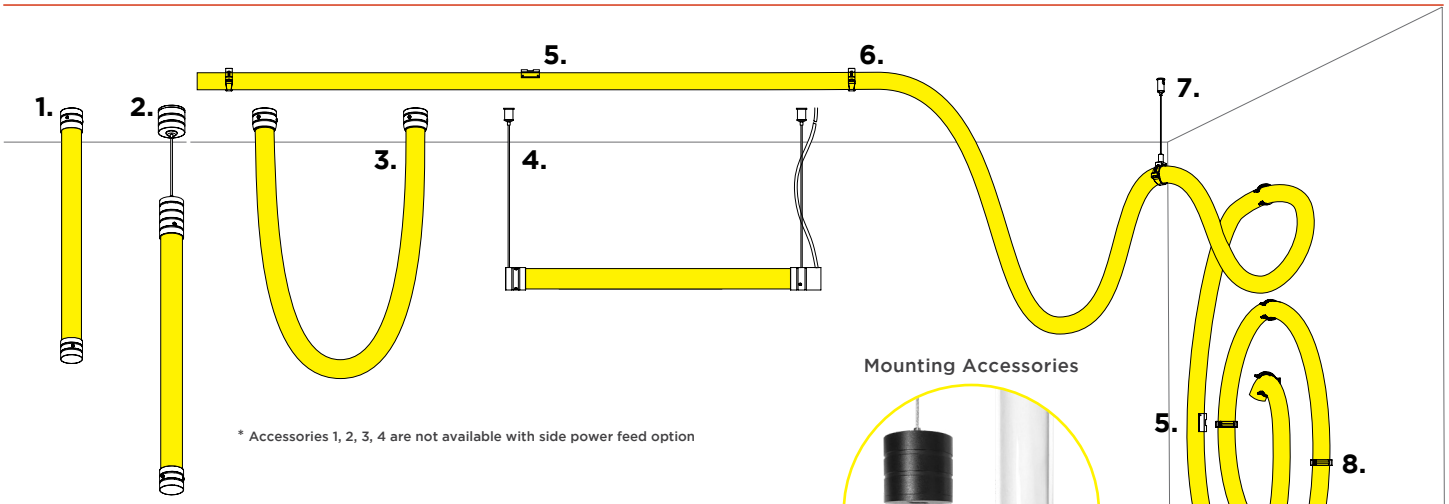
NOTE: To avoid sagging, horizontal (straight-run) mounting requires suspension every 2 ft (610 mm).

USAGE GUIDELINES

- Neon360 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 113 °F (45 °C) maximum for which this product is rated. High-risk locations like this should be avoided.
- To avoid sagging, horizontal (straight-run) mounting requires suspension every 2 ft (610 mm).
- 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 and controllers.
- Use with non-Acolyte 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.
- We reserve the right to make changes to product lineup, specifications, design and finishes at any time without notice.

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.

ACCESSORIES

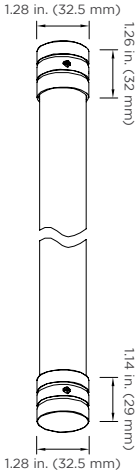


* Accessories 1, 2, 3, 4 are not available with side power feed option

Mounting Accessories

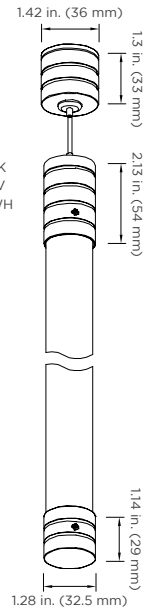
1. Vertical Ceiling Mount Kit with Clear Tube*

Part # (black finish): NL360VCMNTCTBK
Part # (silver finish): NL360VCMNTCTSV
Part # (white finish): NL360VCMNTCTWH



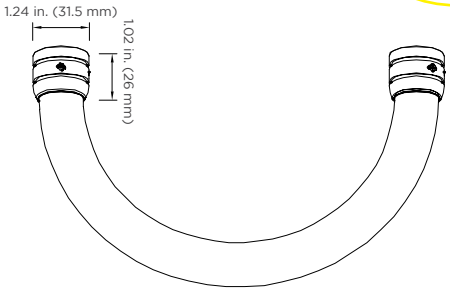
2. Vertical Suspended Mounting Kit with Clear Tube*

STATIC WHITE:
Part # (black finish): NL360VMNTCTBK
Part # (silver finish): NL360VMNTCTSV
Part # (white finish): NL360VMNTCTWH
VARIABLE WHITE:
Part # (black finish): NL360VWVMNTCTBK
Part # (silver finish): NL360VWVMNTCTSV
Part # (white finish): NL360VWVMNTCTWH
RGBW:
Part # (black finish): NL360RGBWVMNTCTBK
Part # (silver finish): NL360RGBWVMNTCTSV
Part # (white finish): NL360RGBWVMNTCTWH
PIXEL RGBW:
Part # (black finish): NL360SPIVMNTCTBK
Part # (silver finish): NL360SPIVMNTCTSV
Part # (white finish): NL360SPIVMNTCTWH



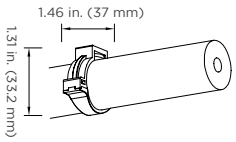
3. Draped Ceiling Mounting Kit*

Part # (black finish): NL360DCMNTBK
Part # (silver finish): NL360DCMNTSV
Part # (white finish): NL360DCMNTWH



6. Mounting Bracket
(indoor applications only)

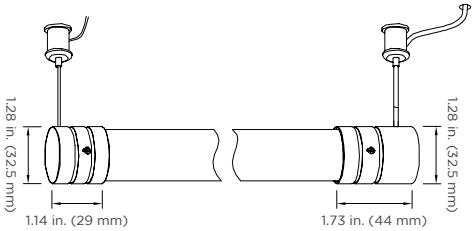
Part #: NL360MBKT



NOTE: To avoid sagging, horizontal (straight-run) mounting requires suspension every 2 ft (610 mm).

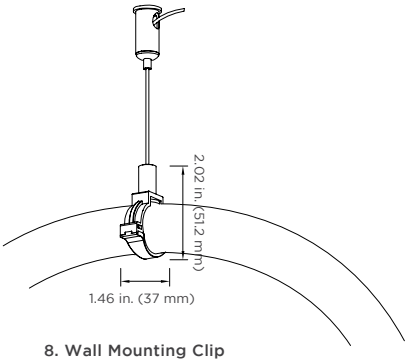
4. Horizontal Suspended Mounting Kit with Clear Tube*

Part # (black finish): NL360HSUSCTBK
Part # (silver finish): NL360HSUSCTSV
Part # (white finish): NL360HSUSCTWH



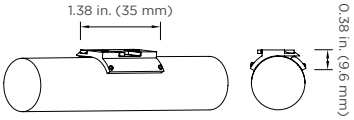
7. Suspended Mounting Kit with Mounting Bracket
(indoor applications only)

Part #: NL360HSUSMBKT



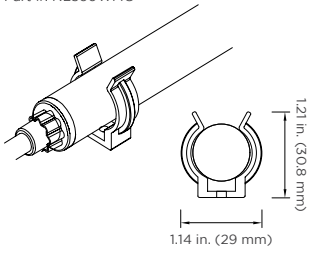
5. Mounting Buckle (indoor applications only)

Part #: NL360MB



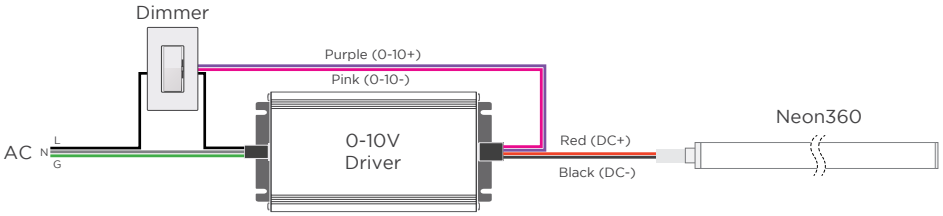
8. Wall Mounting Clip
(indoor applications only)

Part #: NL360WMC

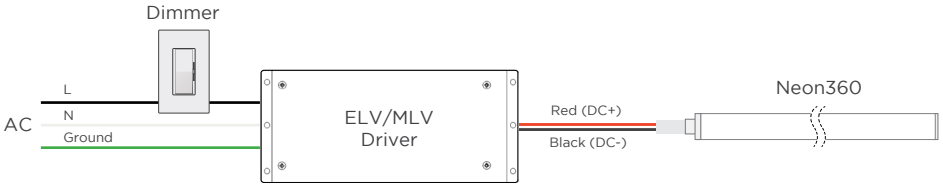


WIRING DIAGRAMS - STATIC WHITE

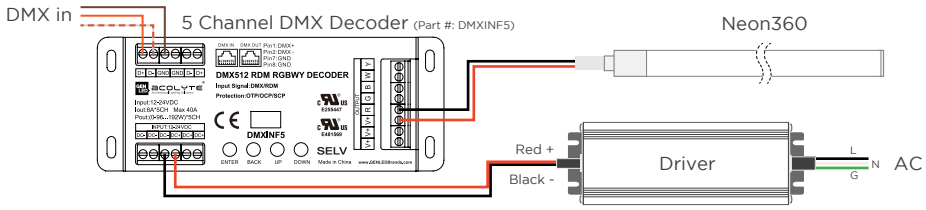
0-10V



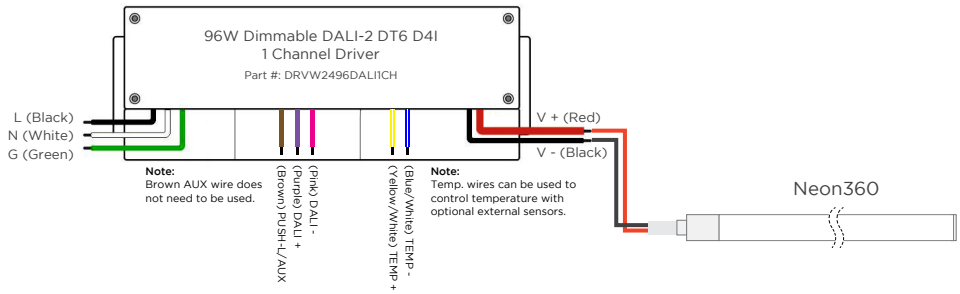
MLV / ELV



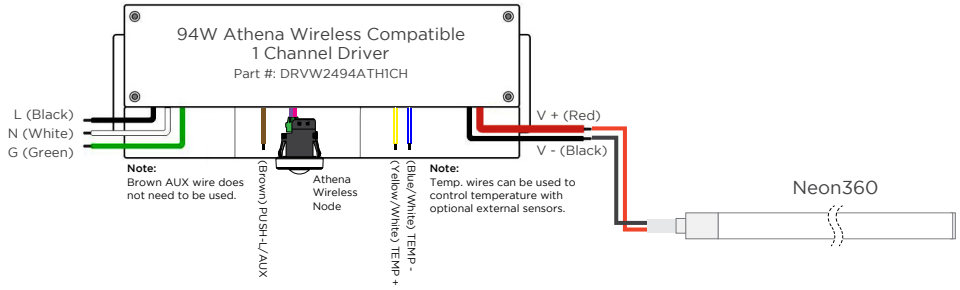
DMX



DALI-2 WIRING WITH STATIC WHITE NEON360



STATIC WHITE NEON360 WIRING WITH ATHENA WIRELESS COMPATIBLE DRIVER

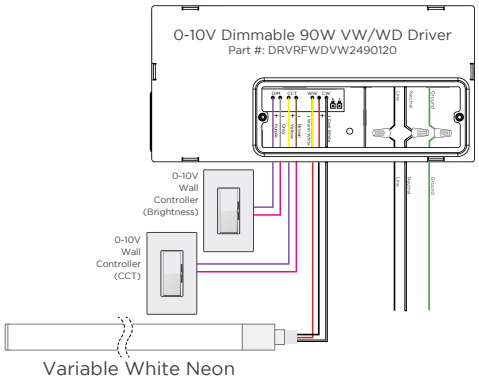


WIRE COLORS

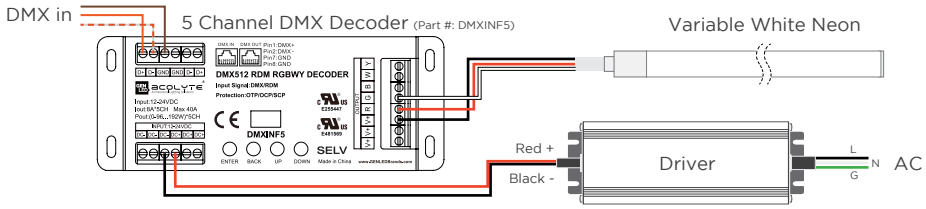
STATIC WHITE
Red Wire (+) Positive
Black Wire (-) Negative

WIRING DIAGRAMS - VARIABLE WHITE

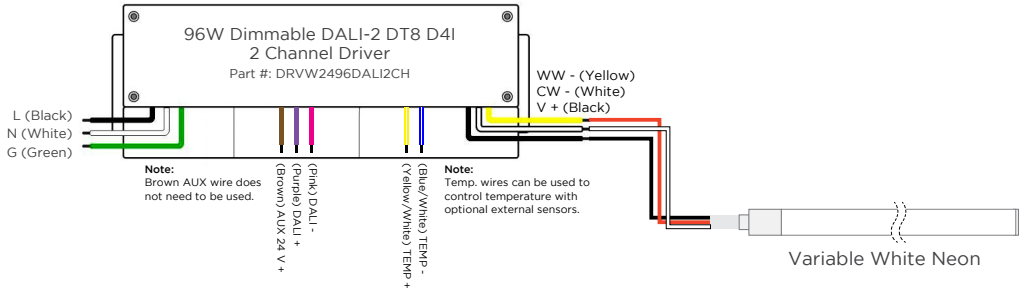
2-CHANNEL VARIABLE WHITE DIMMING



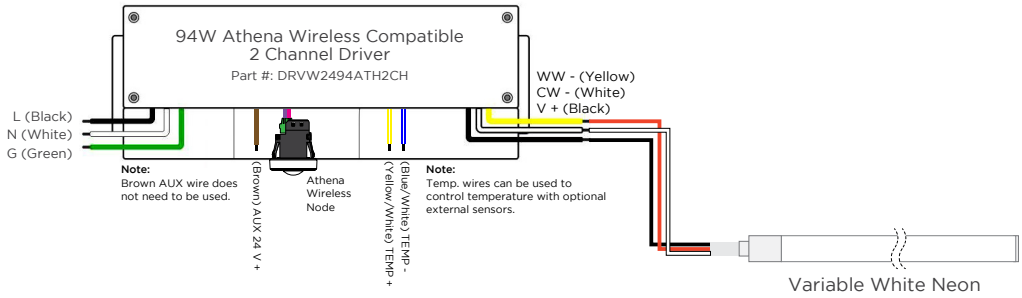
DMX WIRING DIAGRAM - COMPATIBLE WITH ALL MODELS OF VARIABLE WHITE RIBBONLYTE



DALI-2 WIRING WITH VARIABLE WHITE NEON



ATHENA WIRELESS COMPATIBLE DRIVER WIRING WITH VARIABLE WHITE NEON

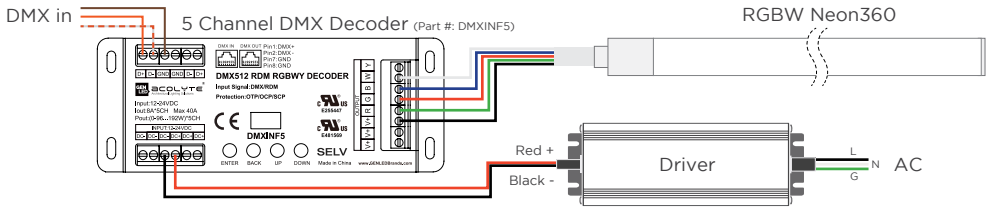


WIRE COLORS PER RIBBONLYTE COLOR

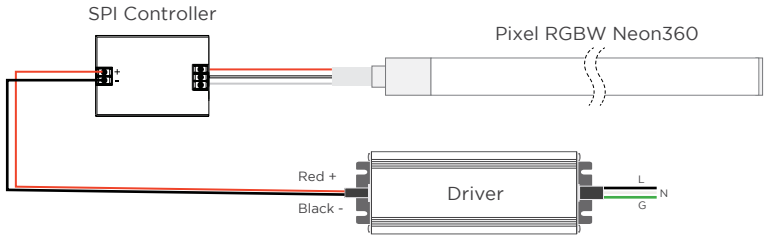
VARIABLE WHITE
Black Wire (+) Positive
Red Wire (-) goes to Warm White Channel
White Wire (-) goes to Cool White Channel

WIRING DIAGRAMS - RGBW / PIXEL RGBW

DMX - RGBW



SPI - PIXEL RGBW



WIRE COLOR

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

RGBW PIXEL
Red Wire: 24V (+)
Black Wire: Gound (GND)
White Wire: Data (DI)

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