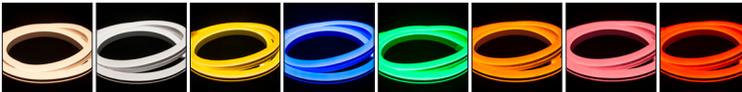


120V  
24V

# POLAR 2 NEON Reels

PROJECT:  TYPE:

LOCATION:  CAT:



Warm White    Bright White    Yellow    Blue    Green    Orange    Pink    Red

### Description

Continuous line of light for indoor or outdoor use.

### Features

- 24V or 120V options in 8 color choices
- Parallel wiring to each LED ensures that if one section goes out, the rest of the run stays lit
- Flexible rubber housing with frosted or colored PVC lens is protected with UV inhibitor
- Various mounting, linking, and power accessories available (sold separately)

### Mounting

Mounting clips or mounting track

### Applications

Accent Lighting, Coves, Ledges, Shelves

### Warranty

1 year Standard Linear (see Page 3)

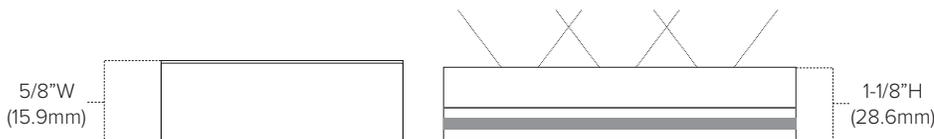
## Technical Information



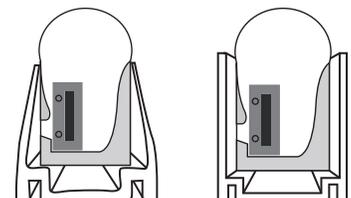
| Polar 2 Neon Reels |  |              |               |             |              |              |              |            |                                       |              |
|--------------------|--|--------------|---------------|-------------|--------------|--------------|--------------|------------|---------------------------------------|--------------|
| Voltage            | 120V AC, 60Hz  |              |               |             |              |              |              |            | 24V DC                                |              |
| LED Color          | Warm White   | Bright White | Amber         | Blue        | Green        | Orange       | Pink         | Red        | Warm White                            | Bright White |
| Jacket Color       | Opaque White   | Opaque White | Opaque Yellow | Opaque Blue | Opaque Green | Opaque Amber | Opaque White | Opaque Red | Opaque White                          | Opaque White |
| Length             | 150 feet   |              |               |             |              |              |              |            | 150 feet                              |              |
| Wattage            | 2.4W/ft  |              |               |             |              |              |              |            | 2.8W/ft                               |              |
| CCT/nm             | 2700K  | 5000K        | 590nm         | 469nm       | 520nm        | 606nm        | 610nm        | 619nm      | 2700K                                 | 5000K        |
| Lumens             | 63Lm/ft  | 63Lm/ft      | 21Lm/ft       | 5Lm/ft      | 25Lm/ft      | 12Lm/ft      | 17Lm/ft      | 5Lm/ft     | 90Lm/ft                               | 90Lm/ft      |
| CRI                | 79+ CRI  | 78+ CRI      | N/A           | N/A         | N/A          | N/A          | N/A          | N/A        | 79+ CRI                               | 78+ CRI      |
| Cuttability        | 18"†   |              |               |             |              |              |              |            | 12"†                                  |              |
| Max Run            | 150 feet (Not recommended to exceed 75 feet in any single run; potential breakage of FPC due to overflexing may occur) |              |               |             |              |              |              |            | 65 feet                               |              |
| Dimming            | 10-100% with most incandescent, low-voltage magnetic, and low-voltage electronic dimmers*                              |              |               |             |              |              |              |            |                                       |              |
| Operating Temp     | -30°C (-22°F) to 45°C (113°F)**  |              |               |             |              |              |              |            |                                       |              |
| Storage Temp       | -10°C (14°F) to 30°C (86°F)**  |              |               |             |              |              |              |            |                                       |              |
| LED Type           | 3528 SMD LEDs (spaced every 1/3")  |              |               |             |              |              |              |            |                                       |              |
| Rating             | cETLus Listed† ; Indoor/Outdoor; IP65  |              |               |             |              |              |              |            | cETLus Listed† ; Indoor/Outdoor; IP65 |              |
| Rated Life         | 30,000 Hours   |              |               |             |              |              |              |            |                                       |              |

\*Minimum loads may apply. Per the NEC, switched wall outlets cannot be used with wall dimmers.  
 \*\*Do not install in inclement weather or extreme temperature conditions (i.e. -25°C (-13°F) and below)  
 † cETLus Listing for 120V is void if product is cut; cETLus Listing for 24V is valid for lengths cut to 65ft or less

### Product Dimensions

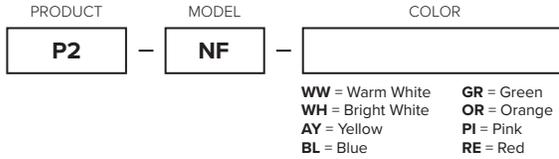


Cut-view when used with  
P2-NF-TRACK-3 or P2-NF-CHAN-3  
(sold separately)

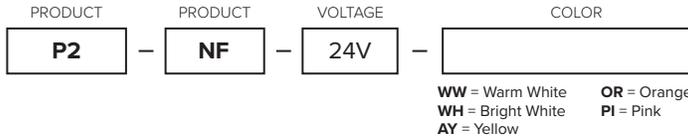


## Ordering Information

### 120V Reels



### 24V Reels



### 120V Polar 2 Neon Reels Include:

- (1) 150ft reel of Polar 2 Neon
- (1) Factory-molded 5ft power cord
- (4) P2-NF-CONKIT-8A
- End cap on dead end

### 24V Polar 2 Neon Reels Include:

- (1) 150ft reel of Polar 2 Neon
- (1) Factory-molded 5ft power cord
- (4) P2-NF-CONKIT-NP
- End cap on dead end

Example Part # **P2-NF-WW**



## Power Accessories

| Image  | Part Number     | Description   |
|--|-----------------|---|
|  | P2-NF-CONKIT-8A | 120V power connection kit includes: (1) 120V AC 5ft power cord with 8A inverter, (1) power pin, (1) end cap, and (2) 4" sections of shrink tube (120V Polar 2 Neon Reels only)                    |
|  | P2-NF-CONKIT-NP | 24V power connection kit includes: (1) 5ft power cord without plug or inverter, (1) power pin, (1) end cap, and (2) 4" sections of shrink tube (24V Polar 2 Neon Reels only; requires 24V driver) |

## Recommended Power Supplies (24V Reels only)

| Part Number  | Description                      | Application       | Primary / Secondary  | Total Wattage | Listing | Dimensions              |
|--------------|----------------------------------|-------------------|----------------------|---------------|---------|-------------------------|
| LED-DR30-24  | Constant voltage hardwire driver | Dry location      | 100-240V AC / 24V DC | 30W           | cURus   | 6-1/2"x1-3/4"x1-3/16"   |
| LED-DR60-24  | Constant voltage hardwire driver | Dry/Damp location | 100-240V AC / 24V DC | 60W           | cURus   | 7-13/16"x1-3/4"x1-5/8"  |
| LED-DR100-24 | Constant voltage hardwire driver | Dry/Wet location  | 100-240V AC / 24V DC | 100W          | cURus   | 7-5/8"x2-1/8"x1-1/2"    |
| LED-DR150-24 | Constant voltage hardwire driver | Dry/Wet location  | 100-240V AC / 24V DC | 150W          | cURus   | 9"x2-5/8"x1-1/2"        |
| ELV-30-24    | Constant voltage hardwire driver | Dry location      | 100-130V AC / 24V DC | 30W           | cETLus  | 7-1/16"x2-3/8"x1-3/8"   |
| ELV-45-24    | Constant voltage hardwire driver | Dry location      | 100-130V AC / 24V DC | 45W           | cETLus  | 7-1/16"x2-3/8"x1-3/8"   |
| ELV-60J-24   | Constant voltage hardwire driver | Wet location      | 100-130V AC / 24V DC | 60W           | cETLus  | 13-3/4"x3-1/16"x2-5/16" |
| ELV-80J-24   | Constant voltage hardwire driver | Wet location      | 100-130V AC / 24V DC | 80W           | cETLus  | 13-3/4"x3-1/16"x2-5/16" |

## Additional Accessories\*

| Image  | Part Number   | Description  |
|--|---------------|--|
|  | P2-NF-SPLS    | Splice Kit includes (1) connection sleeve assembly, (2) power pins, and (2) 3" sections of shrink tube (Bag of 10) |
|  | P2-NF-INVS    | Invisible Splice Kit include (1) splice pin and (1) 3" section of shrink tube (Bag of 10)                          |
|  | P2-NF-JUMP5   | 6" jumper/linking cable for Polar 2 Neon Reels includes (2) pin connectors and (2) 4" sections of shrink tube      |
|  | P2-NF-JUMP3   | 3ft jumper/linking cable for Polar 2 Neon Reels includes (2) pin connectors and (2) 4" sections of shrink tube     |
|  | P2-NF-JUMP10  | 10ft jumper/linking cable for Polar 2 Neon Reels includes (2) pin connectors and (2) 4" sections of shrink tube    |
|  | P2-NF-TRACK-3 | 3ft grey plastic mounting track (23/32"W x 13/32"H) / Plastic track is recommended for indoor use only             |
|  | P2-NF-TRACK-6 | 6ft clear plastic mounting track (23/32"W x 13/32"H) / Plastic track is recommended for indoor use only            |
|  | P2-NF-CHAN-3  | 3ft aluminum mounting channel (23/32"W x 25/32"H)  |
|  | P2-NF-ENDS    | Clear plastic end caps for Polar 2 Neon (Bag of 10)  |
|  | P2-NF-CLIPS   | 2" Aluminum mounting clips with mounting screws for Polar 2 Neon (bag of 10)                                       |

\*24V Polar 2 Neon can also be controlled via American Lighting Trulux controllers (sold separately).

**STANDARD LINEAR WARRANTY**

Linear lighting products in all their various types and shapes, whether LED or incandescent, are wired in series parallel. This means that several individual lamps or LEDs are wired together in series to equal 12V, 24V or 120V. Then these sections are wired together (in parallel) to light up in unison. If one solder joint, lamp or resistor fails, a whole section will not light. Due to the number of elements involved, and the numerous extenuating circumstances beyond our control, American Lighting Inc offers a Standard Linear Warranty on most linear lighting products. The limited liability warranty is listed above, however the Standard Linear Warranty offers replacement product by section due to defective material and/or workmanship for one year beginning from the date of shipment from American Lighting Inc's warehouse to the original purchaser.

**USE OF LINEAR LIGHTING IN OUTDOOR APPLICATIONS**

Polar 2 Neon 150ft reels and 'by the foot' cuts have factory assembled power connections and end caps that seal the neon from moisture. Due to strict quality control standards, American Lighting is able to offer a limited warranty on these items rather than the standard linear lighting warranty that replaces product by defective section only. For outdoor applications, best practices include using 'by the foot' cuts ordered direct from American Lighting that do not exceed 75 feet.

For all linear lighting categories, any non-rated field connection made in an outdoor application should be properly sealed with dielectric grease covering all conductive materials; and properly installed power connections and end caps, sealed with silicone and heat shrink tube. However, since non-rated (field executed) power connections of linear lighting products cannot be quality controlled, and outdoor use of non-rated product is not recommended, American Lighting cannot warrant the product to any purchaser.

**PRODUCT SPECIFICATIONS**

For the latest product information, updates, instructions and details concerning specifications, colors, finishes, performance, installation and design, visit [www.americanlighting.com](http://www.americanlighting.com). Color may vary from the color printed herein due to limitations in photographic and printing processes. American Lighting Inc. reserves the right to change product specifications without notice. Other product specifications such as color temperature, wavelength characteristics and lumen output are subject to production limitations and may vary.

LED technology is changing rapidly, and not all color temperatures and performance levels can be duplicated at a later time. Best practices include purchasing 10-15% more for a particular project on the same initial order where white LED color temperatures must be maintained over project and product life. Eventual product replacement should be considered at layout and design stages. Best practices also include testing connections and product performance prior to mounting and/or installing.