superbrightleds.com

Dual Bend Neon LED Strip Lights

Color Changing Neon Strip Specifications

Project _____

Date _____ Type _____

Voltage 24 VDC | RGB+W Addressable | High CRI 90+ | PWM Dimming | IP67 | 7 yr WARRANTY

Available Models[1]

- ☐ NFDB-B-PD27K90-20B5M-24V
- ☐ NFDB-B-PD40K90-20B5M-24V
- ☐ NFDB-B-PD65K90-20B5M-24V

SAMPLE PART NUMBER BREAKDOWN **NFDB-B-PD27K90-20B5M-24V**

Series	Type	CCT	CRI	Strip Width	Density	Length	Voltage
NFDB-B	PD	27K	90	20	B	5M	24V
Neon Flexible Dual Bend	RGBW Addressable	27K: RGB+2700K 40K: RGB+4000K 65K: RGB+6500K	90+ CRI	20mm	60 LEDs/m	5 meters	24 VDC

Overview

Addressable neon LED strip lights provide the look of traditional neon lighting while being safer and more efficient than traditional neon glass tubes. The dual bend strips can be flexed and cut into segments to follow unique shapes for custom installations. The strips offer addressable RGB LEDs that can produce warm, natural, or cool white CCTs, that form a continuous and uninterrupted line of light. Use an SPI controller (sold separately) compatible with UCS7604 IC chips to select from thousands of solid colors and hundreds of preset color-chasing modes. The addressable neon strips can be cut at every 1.96" segment to customize the length. IP67 waterproof for use outdoors or in wet locations.

See last page for minimum bending diameter.

Features

- Flexible neon strip replaces traditional fragile glass tubes
- Create individual light effects with the Addressable LEDs
- Dual bend flexible design - bends to fit custom shapes
- IP67 waterproof - fully encased in silicone
- Custom mounting, wiring, and more with available accessories

Product Details

- SPI Compatible - integrated UCS7604 IC chips
- Continuous dotless line of light
- Dimmable with PWM signal
- Segment length: 1.62 in. (41.15 mm)
- Class 2 Max Run: 16.4 ft (5 m)
- Lifetime up to 50,000 hours
- 24 VDC input

Certifications and Compliances

- UL Listed - UL 2108 (IFDR)
- CE Compliant

UL LISTED CE

Applications

- Accent Lighting
- Backlighting
- Commercial Lighting
- Cove Lighting
- Patios
- Retail Shops
- Sign Lighting
- Under-Cabinets

Warranty

- 7-year Warranty

T 866.811.5550 | **F** 314.972.6202
https://www.superbrightleds.com
email: commercial-sales@superbrightleds.com

[1] Contact customer service if interested in other options.

Rev V1.1 Date: 05/04/2026
Specifications are subject to change without notice

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SPECIFICATIONS			
Model	**NFDB-B-PD27K90-20B5M-24V**	**NFDB-B-PD40K90-20B5M-24V**	**NFDB-B-PD65K90-20B5M-24V**
PHOTOMETRIC			
LED Color	RGB+2700K	RGB+4000K	RGB+6500K
Lumens per Foot	99 lm/ft	110 lm/ft	104 lm/ft
Efficacy	18 lm/W	20 lm/W	19 lm/W
CRI	90+		

PHOTOMETRIC	
Beam Angle	120°
ELECTRICAL	
Operating Voltage	24 VDC
Current Draw	3.8A
Current Draw per Foot	232 mA/ft
Wattage	90 Watts
Wattage per Foot	5.5 W/ft
Dimmer Type	PWM
MECHANICAL	
LEDs per Segment	3
Cut Segment Length	41.15 mm (1.62 in.)
Class 2 Max Run	16.4 ft (5 m)
LED Density	18 LEDS/ft
Strip Width	20 mm (0.78 in.)
Length	16.4 ft (5 m)
Input Connection	Pigtail, Locking 4-Pin (Male)
Output Connection	Locking 4-Pin (Female)
LED Type	5050 SMD
LED Lifetime	50000 hours
ENVIRONMENTAL	
IP Rating	IP67
Environmental Rating	Suitable for Wet Locations, Waterproof
Ambient Operating Temperature	-20 to 60°C (-4 to 140°F)

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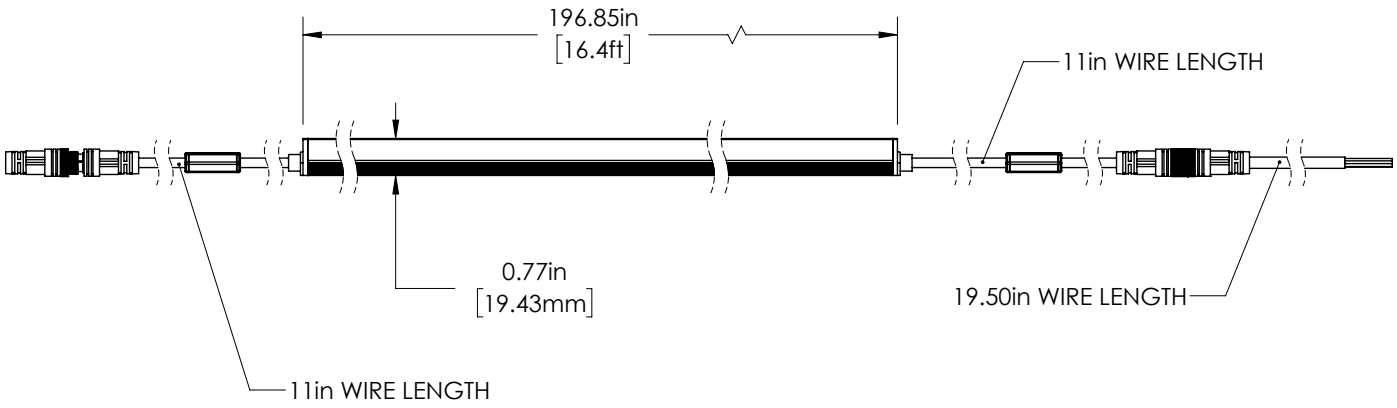
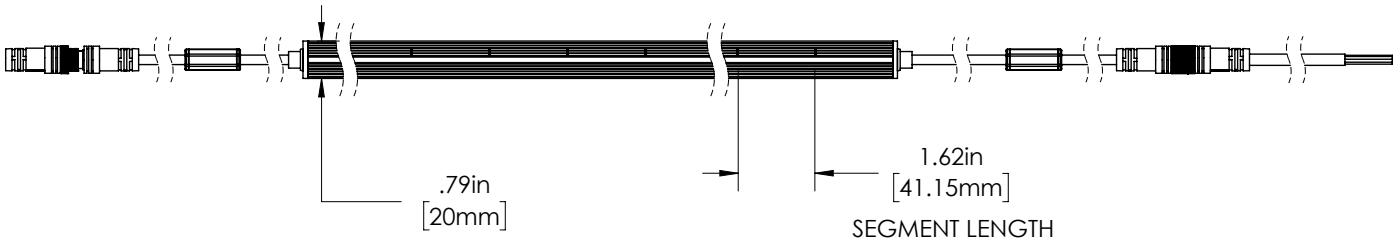
Dimensional Drawings

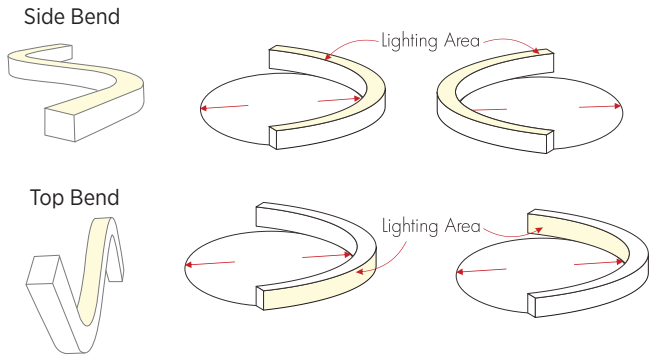
NFDB-B-x-20B5M-24V





Minimum Bending Diameter

Dual Bend Neon	Top Bend	Side Bend
NFDB-B-PDxK90-20B5M-24V	11.8 in. (300 mm)	31.4 in. (800 mm)



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