

# Bendable series Backlite

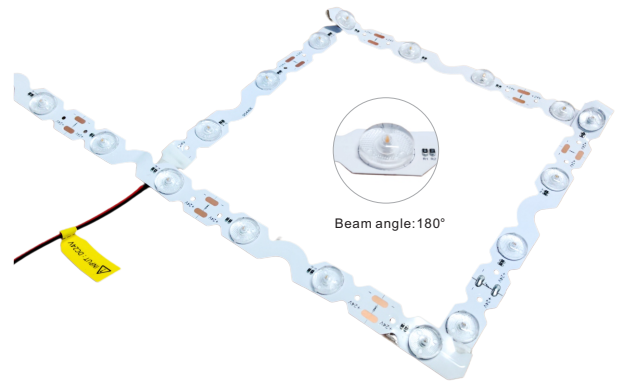
SMD 2835 | 16mm ( 0.63in)

p/n: VFL-BD2835-940K-20-16-24V9



## Features

- 20x SMD LED per meter ( 6xSMD LEDs per foot )
- **Bendable** in both the horizontal and vertical planes
- Up to 1,030Lm/m ( 314Lm/ft )
- CRI>80(90+ option)
- Integral 180° optic distribution ensures even illumination
- Ideal for signage, channel lettering and backlight applications
- Double sided 3M tape mounting



## Electrical Data

Voltage	24V DC
Wattage	9.6W/m ( 2.93W/ft )
Current	0.4A/m ( 0.12A/ft )/24V

## LED Data

LED type	SMD 2835+Optical lens
Manufacturer	Lumileds
Chips	20 Led/m ( 6 Led/ft )

## Photometric Data

Color temperature	2700K / 3000K / 3500K 4000K / 6500K
Color rendering index Ra	>80 / >90
Luminous flux@CRI80	1,030 Lm/m ( 314 Lm/ft ) @ 4000K
Luminous flux@CRI90	870 Lm/m ( 265 Lm/ft ) @ 4000K
Luminous efficacy	107 Lm/W @ >80 / 91 Lm/W @ >90
Beam angle	180°
Dimmable	0~100%

## Construction / Protection

Substrate	Double layer FPCB
Thickness of FPCB	2 oz
Mounting	Double sided tape 3M
IP rating	See figure 3.
Operating temperature	-20 ~ +50 °C ( -4 ~ 122 °F )
Storage temperature	-20 ~ +70 °C ( -4 ~ 158 °F )

## Dimensions

Cutting increments	100 mm ( 3.94 in ) See figure 1.
Length	5 m ( 16.4 ft )
Width	16 mm ( 0.63 in )
Height	5.7 mm ( 0.22 in )

## Lifetime

Lifespan (L70)	>54,000 hours
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Testing environment temperature = 25 °C ( 77°F )

Figure 1.

Dimensions & Cutting increments

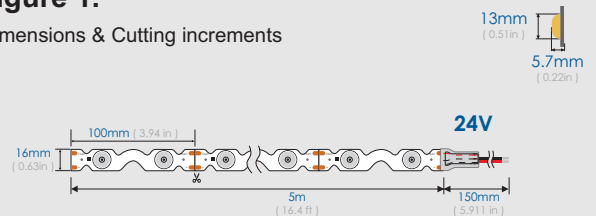


Figure 2.

Connection Layout

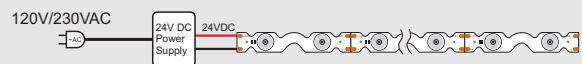


Figure 3.

IP Protection Ratings

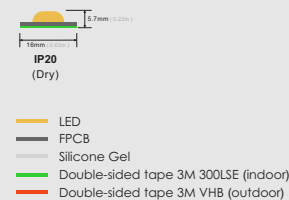


Figure 4.

Ordering Code

Series	LED type	CRI	CCT	LED Qty	PCB Width	IP Rating	Voltage	Power/m
VFL	BD	2835	9 9+ 90+ 8-80+	xxK 27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 65K - 6500K	20	16	WPyY 24V	9
							Blank - IP20	