High-Efficacy series

SMD 2835 | 8mm (0.32in)

SMD

p/n: VFL-FCHE2835-930K-160-8-24V09

Features

- 160x SMD LED per meter (48xSMD LEDs per foot)
- Free-cut, can be any length on your requires
- Up to 1,248Lm/m (380Lm/ft)
- High efficacy of 130Lm/W
- CRI>90
- Durable, flexible and low profile
- 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**
Manufacturer	Lumileds
Chips	160 Led/m (48 Led/ft)

Photometric Data

Color temperature	2700K / 3000K / 3500K 4000K / 6500K
Color redering index Ra	>90
Luminous flux	1,313 Lm/m (400 Lm/ft) @ 4000K 1,248 Lm/m (380 Lm/ft) @ 3000K
Luminous efficacy	130 Lm/W @ 3000K
Beam angle	120°
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	Free-cut See figure 1.
Length	5 m (16.4 ft)
Width	8 mm (0.32 in)
Height	1.6 mm (0.06 in)

Lifetime

Lifespan (L70)	>54,000 hours

Testing environment temperature = 25 °C (77°F)

Figure 1.

Dimensions & Cutting increments

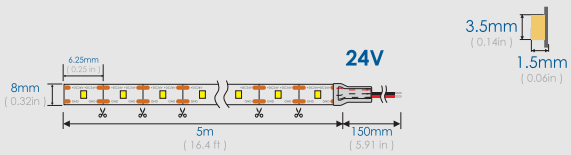


Figure 2.

Suitable Accessories

Connector-IP20/IP54

Code: MX-FC-2P-8
Feeding connector with 2-wire cable 150mm (5.91in)

Code: MX-JC-2P-8
Joint connector with 2-wire cable 150mm (5.91in)

Code: MX-TC-2P-8
T-shaped connector

Code: MX-MC-2P-8
Middle connector

Profile

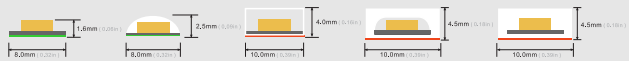
Surface-Mount
Code: VL-SF1507

Recessed-Mount
Code: VL-RC2207

Corner-Mount
Code: VL-TR1616

Figure 3.

IP Protection Ratings



- LED
- FPCB
- Silicone Gel
- Double-sided tape 3M 300LSE (indoor)
- Double-sided tape 3M VHB (outdoor)

Figure 4.

Ordering Code

	Series	LED type		CRI	CCT		LED Qty		PCB Width		IP Rating		Voltage	Power/m
VFL	- FCHE	2835	-	9	xxK	-	160	-	8	-	WPyy	-	24V	09
				9 - 90+ 8 - 80+	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 65K - 6500K						Blank - IP20 54 - IP54 65 - IP65 67 - Ip67 68 - IP68			