

## High-Efficacy series

2835 | 12W/m | 8mm

p/n: VFL-HE2835-940K-120-8-12V12

# SMD



### Features

- 120x SMD LED per meter
- Cost effective
- Up to 1,600Lm per meter
- High efficacy of 136Lm/W
- CRI>90
- Durable, flexible and low profile
- Double sided 3M tape mounting



### Electrical Data

|                   |          |
|-------------------|----------|
| Voltage           | 12V DC   |
| Wattage per meter | 12W      |
| Current per meter | 1.0A/12V |

### LED Data

|                 |          |
|-----------------|----------|
| LED type        | SMD 2835 |
| Manufacturer    | Lumileds |
| Chips per meter | 120      |

### Photometric Data

|                          |                                      |
|--------------------------|--------------------------------------|
| Color temperature        | 2700K / 3000K<br>4000K / 6500K       |
| Color rendering index Ra | >90                                  |
| Luminous flux per meter  | 1,600 lm >4,000K<br>1,520 lm <3,000K |
| Luminous efficacy        | 136 lm/W >4,000K                     |
| 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 ~ +45 C°         |
| Storage temperature   | -20 ~ +70 C°         |

### Dimensions

|                    |                          |
|--------------------|--------------------------|
| Cutting increments | 33.3 mm<br>See figure 1. |
| Length             | 5,000 mm                 |
| Width              | 8 mm                     |
| Height             | 1.6 mm                   |

### Lifetime

|                |               |
|----------------|---------------|
| Lifespan (L70) | >54,000 hours |
|----------------|---------------|

Testing environment temperature = 25 C°



**Figure 1.**

Dimensions & Cutting increments

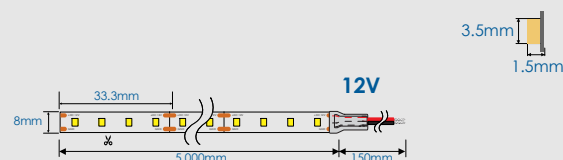
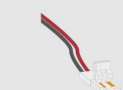


**Figure 2.**

Suitable Accessories

#### Connector-IP20



Code: MN-FC-2P-8  
Feeding connector with  
2-wire cable 150mm



Code: MN-JC-2P-8  
Joint connector with  
2-wire cable 150mm



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

#### Profile



Surface-Mount  
Code: VL-SF1507



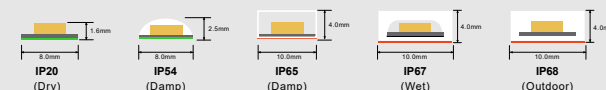
Recessed-Mount  
Code: VL-RC2207



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)