SPI - RGB series

COB

COB | 11W/m | 10mm

p/n: VFL-PXCOB-RGB-630-10-24V11

VALS LIGHTING®

Features

- Addressable RGB version
- 12V and 24V input
- **Hotspot-free appearance**
- 10pixels per meter, IC W2811F
- RGB controlled by SPI controller
- Durable, flexible and low profile
- Double sided 3M tape mounting

CE RoHS COMPLIANT LM80

Electrical Data

Voltage	12V/24V DC
Wattage per meter	**11W**
Current per meter	0.9A/12V, 0.4A/24V

LED Data

LED type	**COB**
Manufacturer	SAN'AN
Chips per meter	630

Photometric Data

Color temperature	RGB
Color redering index Ra	-
Luminous flux per meter	R: 75 lm G: 375 lm B: 46 lm RGB: 442 lm
Luminous efficacy	40 lm/W RGB
Beam angle	135°
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

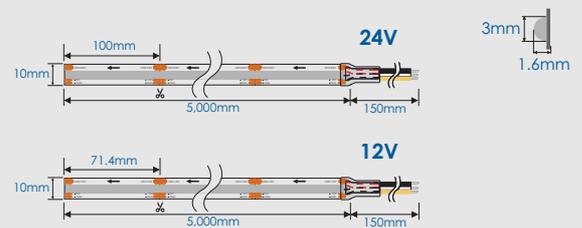| Cutting increments	71.4 mm/12V, 100 mm/24V See figure 1.
Length	5,000 mm
Width	10 mm
Height	1.6 mm

Lifetime

Lifespan (L70)	>54,000 hours

Testing environment temperature = 25 C°

Figure 1.
Dimensions & Cutting increments

Figure 2.
Suitable Accessories

Connector

Code: MN-FC-3P-10
Feeding connector with
3-wire cable 150mm

Code: MN-JC-3P-10
Joint connector with
3-wire cable 150mm

Code: MN-MC-3P-10
Middle connector

Code: MN-SC-3P-10-T/L
Multi-function, T/L-type
connector 3P

Profile

Surface-Mount
Code: VL-SF1507

Recessed-Mount
Code: VL-RC2207

Corner-Mount
Code: VL-TR1616
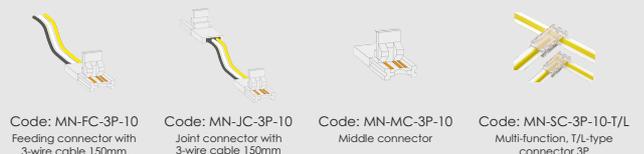
Figure 3.
IP Protection Ratings

IP20 (Dry)	IP54 (Damp)	IP65 (Damp)	IP67 (Wet)	IP68 (Outdoor)

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