

SERIES
3838 | 140 | 24
Colour Changing
RGB



Technical Data
LED Flexible Strip Light
3838 RGB | 24W
Issue: V1.1



Features

- Very high performance 3838 RGB LEDs
- Low visible dot design (140 LEDs per metre)
- Efficient heat design, requires no heat-sink
- Ultra flexible substrate
- Safe low voltage
- Pre-wired at both ends
- Double sided tape mounting

Electrical Data

Voltage	24.0 VDC
Wattage per metre	24 W
Current per metre	1.0 A / 24 V

LED Data

LED type	3838 RGB
Manufacturer	Sanan
Quantity of chips per LED	3
Quantity of LEDs per metre	140
LED pitch	8.33 mm

Photometric Data

Colour temperature	See figure 2
Colour rendering index Ra	N/A
Luminous flux per metre	186 lm Red
+/- 10%	493 lm Green
	106 lm Blue
Beam angle	120°
Dimmable	1 ~ 100%

Construction / Protection Data

Substrate	Double layer FPCB
Thickness of FPCB	3 oz
Mounting	Double sided tape 3M
IP rating	See figure 3
Operating temperature	-20 ~ +70 C°
Storage temperature	-20 ~ +50 C°

Dimensions

Cutting increments	6 LEDs / 50mm (24V)
	See figure 1
Length	5000mm
Width	10.0mm
Height	1.8mm

Lifetime

Lifespan (L70)	> 70,000 hours
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Figure 1.

Cutting Increments

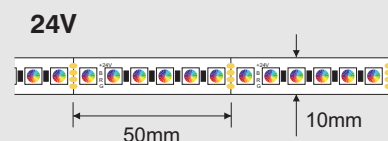


Figure 2.

Colour Temperatures



Figure 3.

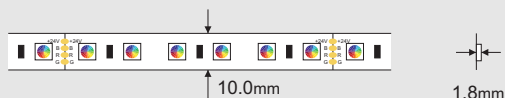
IP Protection Ratings



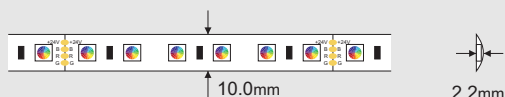
Testing environment temperature = 25°C ±2.0°

Dimensions

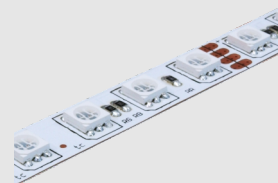
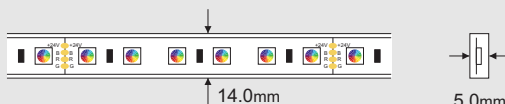
IP20



IP65



IP67



Ordering Information

LL 38	140	24	RGB	IP20	5M
LED Type	LEDs / m	Voltage	Colour	IP Rating	Length
5050	84	24	RGB	20 54 67	5m 20m

Installation

- The mounting surface must be clean, dry and free from dust or grease.
- Carefully unroll the LED strip from the reel.
- Measure and cut the LED strip to the required length (only cut at the predefined cut interval).
- Remove the 3M self-adhesive backing tape from the LED strip carefully. **Do not remove all the backing at once otherwise the LED strip may become entangled.**
- Stick down the LED strip to the mounting surface by pressing down gently on the LED strip. **Do not apply excessive force to the LED strip, otherwise the LEDs and components may become damaged.**
- Once the LED strip has been mounted, it is then ready to be wired and powered.

For more detailed instruction on installation & wiring please see the product page on our website.

Notes

- It is not recommended to power a continuous length longer than [5m for 12V] or [10m for 24V] LED strip due to voltage drop.
- **Do not exceed the rated input voltage**, always ensure a regulated power supply is used.

Further information

[Photometric Data](#)

[Installation and Wiring Instructions](#)

[LED Binning](#)

[IES File](#)

[LED Strip Light Selection Guide](#)