





Technical Data LED Flexible Strip Light 3838 RGB | 14.4W Issue: V1.0





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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	14.4 W		
Current per metre	0.6 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 redering index Ra 🏾 🌓	N/A		
Luminous flux per metre	112 lm Red		
+/- 10%	296 Im Green		
	64 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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Testing environment temperature = $25^{\circ}C \pm 2.0^{\circ}$

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Figure 1.

Cutting Increments

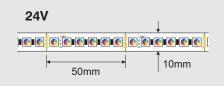


Figure 2. Colour Temperatures



Figure 3.

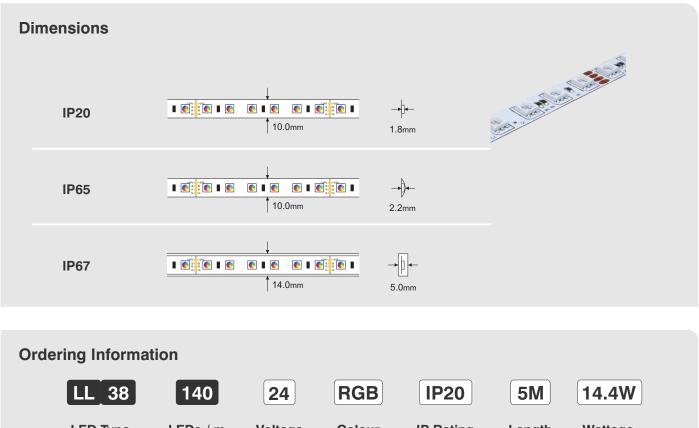
IP Protection Ratings IP20 IP65 IP67 FPCB Silicone Gel Double-sided tape 3M 9080 (indoor) Double-sided tape 3M 300LSE (outdoor)

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LED Type	LEDs / m	Voltage	Colour	IP Rating	Length	Wattage
5050	84	24	RGB	20 65 67	5m 20m	14.4W 24W

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 <u>not recommended</u> 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