



PRODUCT DATA SHEET

Bright Single Color Series
SMD5050 300LEDs LED Strip



CE RoHS FCC





Bright Single Color Series Flexible LED Strip Light

Description

Bright Single Color Series LED Strip Lights are created with high lumen LED chips mounted on a flexible printed circuit board with a strong 3M adhesive backing. Sometimes referred to as "LED tape lights", the flexible design of LED strips allows for the addition of beautiful white, warm white, red, green, blue light in almost any space you can imagine. The bright single color LED strips are a great way to provide professional grade, bright and comfortable accent lighting that will last for many years.

Product Features

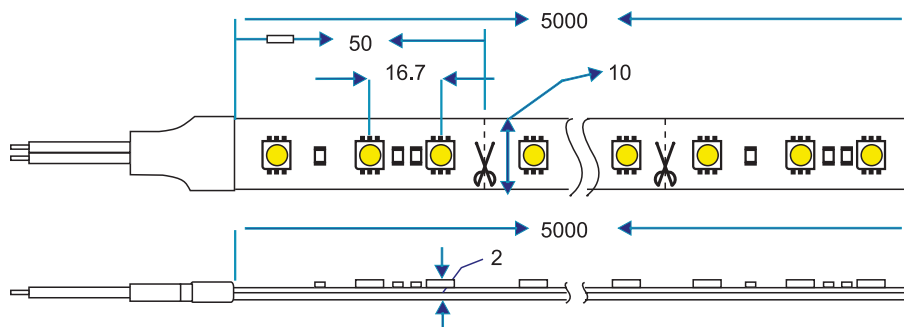
- High quality components and premium packaged 5050 LEDs
- Thick double layer 2oz copper pcb for excellent thermal management
- Single BIN LED selection to ensure color consistency (3-Step MacAdam)
- 3M 300LSE adhesive tape at the backing for long lasting bond
- Operating Temperature -4°F to +104°F (-20°C to 40°C)
- Maximum Length in Series 32ft 10in (10 Meters)
- Fully dimmable
- 120° beam angle
- High CRI 80+, optional CRI 90+
- 12V or 24V input voltage options
- 60LEDs/m on 10mm width pcb
- 12V cut every 5cm, 24V cut every 10cm

Product Specification

Model No.	Color	Power	CRI	Lumen/meter	Luminous efficiency	Warranty
SL-5050-60PW	6000K	12W/m	80+	1150LM/m	95LM/W	3 Years
SL-5050-60NW	4000K	12W/m	80+	1100LM/m	92LM/W	3 Years
SL-5050-60WW	3000K	12W/m	80+	1050LM/m	90LM/W	3 Years
SL-5050-60R	Red	12W/m	NA	300LM/m	25LM/W	3 Years
SL-5050-60G	Green	12W/m	NA	540LM/m	45LM/W	3 Years
SL-5050-60B	Blue	12W/m	NA	210LM/m	18LM/W	3 Years

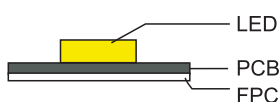
*CCT may be +/-100K but always ordered from same bin and will present no noticeable differences perceived by the human eye.

Product Dimension

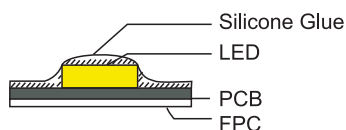


DC12V
Unit:mm

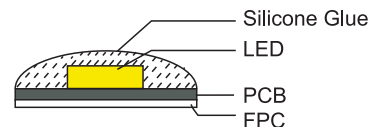
IP Rating Options



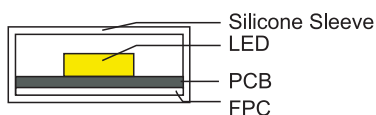
IP 20 Non-waterproof



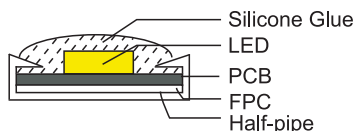
IP 65 Spray Silicone Coating



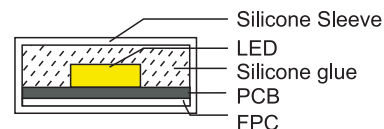
IP 65 Gel Coating



IP 66 Silicone Tube



IP 67 Half Tube+Glue Coating

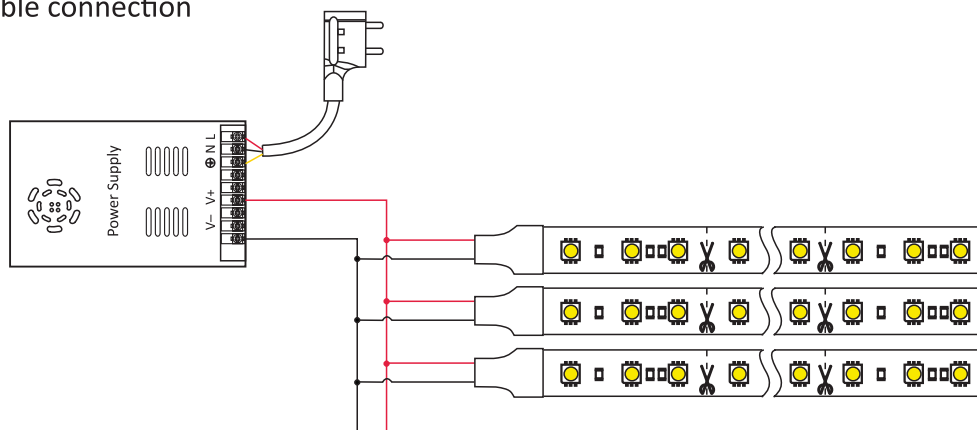


IP 68 Glue Filling

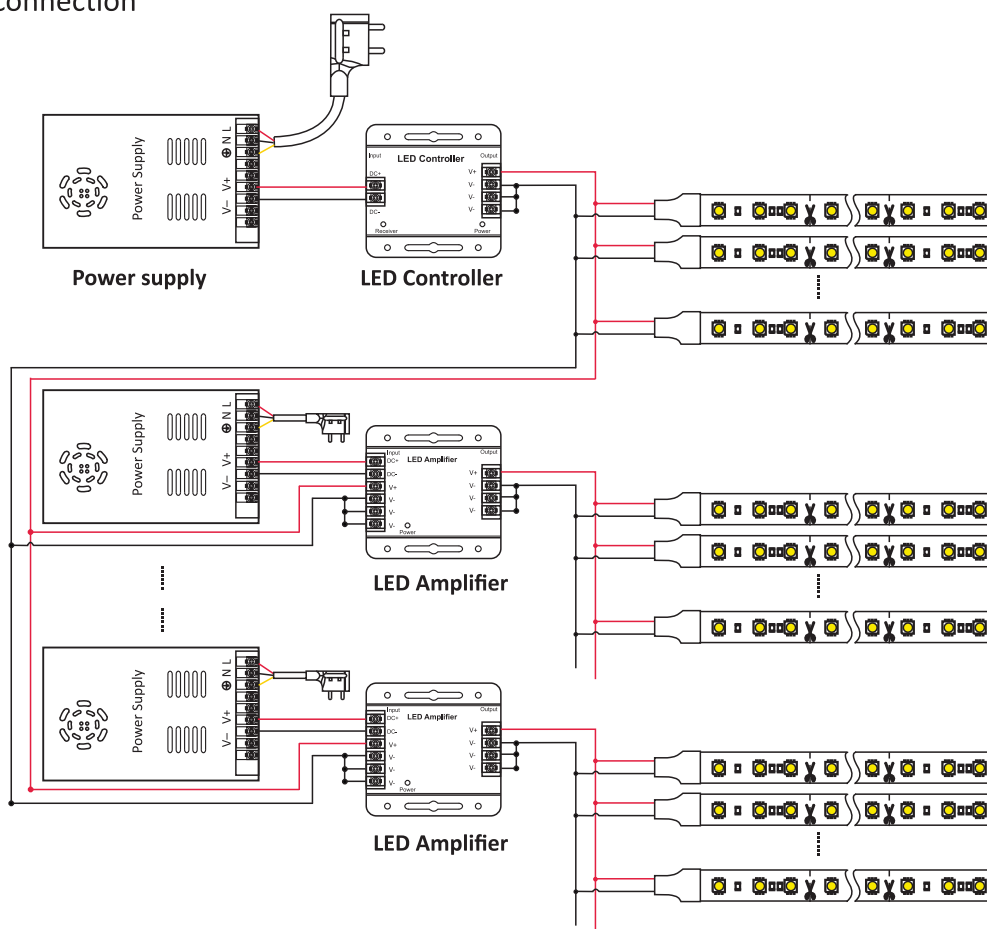
Waterproof Material	Size	Mode of Fixation	Accessories	IP Rate
Non-Waterproof	W10*H2.3mm	3M adhesive tape	/	IP20
Silicone Coating	W10*H2.5mm	3M adhesive tape	/	IP65
Spray Silicone	W10*H2.7mm	3M adhesive tape	/	IP65
Silicone Tube	W12*H4mm	Clips+Screw	End cap+Clips+Screw	IP66
Half Tube+Glue Coating	W12*H4mm	Clips+Screw	End cap+Clips+Screw	IP67
Silicone Tube+ Silicone Gel	W12*H4mm	Clips+Screw	End cap+Clips+Screw	IP68

Product Connection

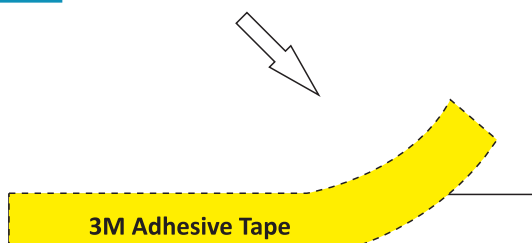
1) Non-dimmable connection



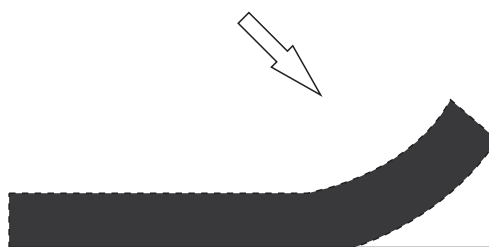
2) Dimmable connection



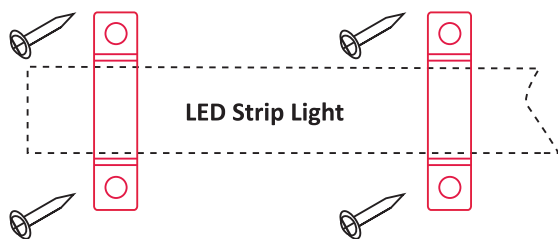
Product Installation



Peel off 3M tape



Stick the 3M Tape

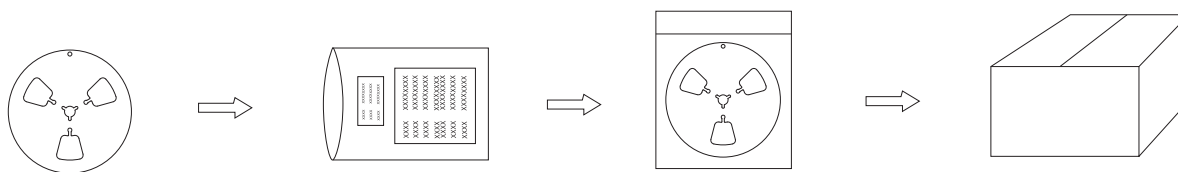


Install with Clips



Fix with Screw

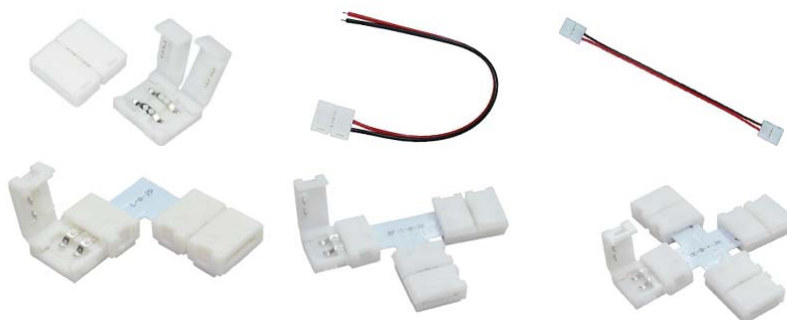
Product Package



IP Rating	Length	Quantity/Carton	Carton Size	Carton Weight
IP20	5m/Roll	100Rolls	360*360*380mm	14KG/CTN
IP65	5m/Roll	100Rolls	360*360*380mm	24KG/CTN
IP66	5m/Roll	50Rolls	680*280*280mm	24KG/CTN
IP68	5m/Roll	40Rolls	680*280*280mm	21KG/CTN

Product Accessories

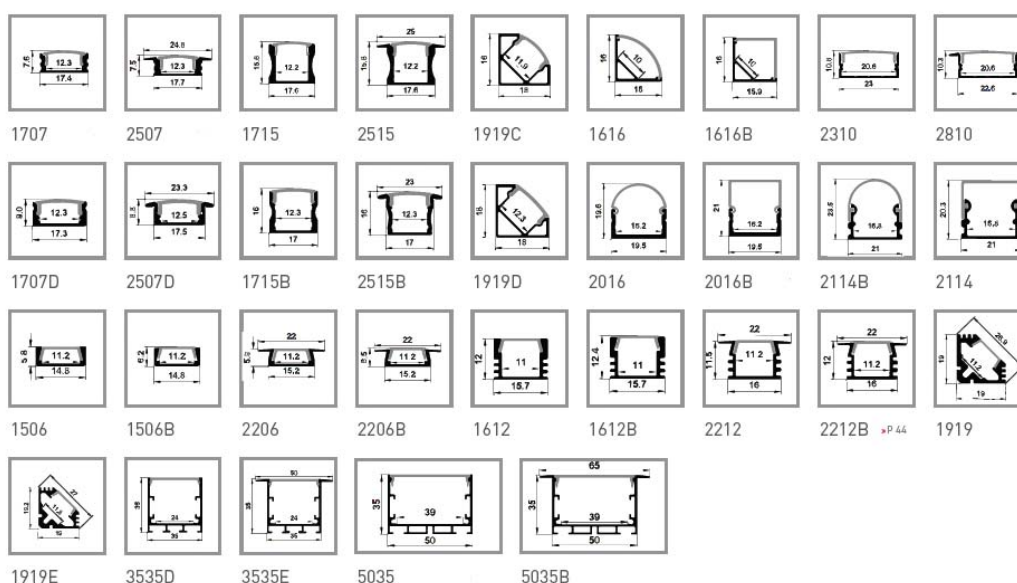
Connector



Power Supply



Alumnum Profile





Bright Single Color Series Flexible LED Strip Light

Product Notes

- Please choose the product with proper IP ratings according to different environments;
- Don't damage the circuit board line during the installation process;
- Choose the matched power supply and ensure proper margin for wattage;
- Turn off the power during the installation process and make sure wiring is correct before power on;
- Don't stare at the light for a long time as it may cause injury to your eyes;
- The work like dismantlement and maintenance can only be done by professionals;

Malfunction & Solution

Symptom	Possible Causes	Solutions
Non LED works	1. No primary power for the power supply	Possible Causes
	2. The power supply is connected to primary power reversely	Connect the wires correctly
	3. No output voltage from the power supply	Remove the malfunctions of the power supply or replace the power supply
	4. Overvoltage damages the LEDs	The working voltage should be within $\pm 5\%$ of rated voltage. Overvoltage may damage the product. If the product is damaged, please replace the product
Some LEDs don't work	1. These products are not connected to power supply	Check the power supply and connect the wires correctly
	2. These products are reversely connected to the power supply	
	3. Some LEDs are damaged.	Replace LEDs.
Brightness of the LED is dim or not even	1. The power load exceeds the rated power of the power supply	Use the power supply with higher power or adopt the double-ended power up mode
	2. The wire loss of power supply is too much	1. Use thicker supply wires or more supply wires
		2. Adjust the position of power supply; make sure the input voltage of each LED strip within the 90%-110% of the rated voltage
	3. Too much LED strips are connected	Adjust LED strip length for each chain to meet the maximum connectable length with single-ended power mode. The length is no longer than 5 meters
All LEDs are blinking	Intermittent connections occur at the power supply	Find the intermittent connections and remove any malfunctions
Some LEDs are blinking	Intermittent connections occur in the branch	Find the intermittent connections and remove any malfunctions