Advantages of Shenzhen Suntech LED strip

1. **LED strip PCB thickness:** The thickness of led strip below 60leds is about **0.25mm**, (for example:30leds/m, 60leds/m); The thickness of the led strip above 60leds is about **0.35mm** (for example: 90leds/m, 120leds/m, 144leds/m). The thickness of the general PCB on the market is 0.2mm. The thickness of the copper used in the PCB board --- the thicker the copper the more current can flow and the more efficient the strip is.

Suntech company's 12v is connected to 5m led strip, 24v is connected to 10m led strip, the voltage drop is very small, almost no voltage drop.

60leds/m thickness	120leds/m thickness

2. **Resistor** : Authentic Guarantee, Antioxidant.
Resistor SMD1.2mm*0.6mm,Heat dissipation is good, high temperature resistance and very stable.

3. **Capacitor**: Double Capacitor Design,one is filter capacitor, one is current limiter. Dual capacitor design can protect the IC, and the signal transmission is stable.If you touch the capacitor with your hands, it will not burn out, and it will not burn out if the positive and negative poles are reversed in a short period of time.

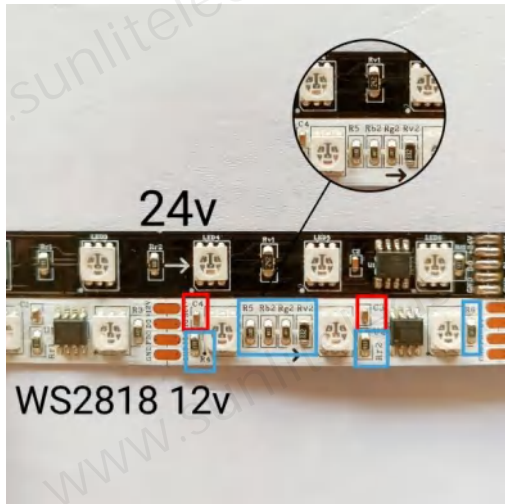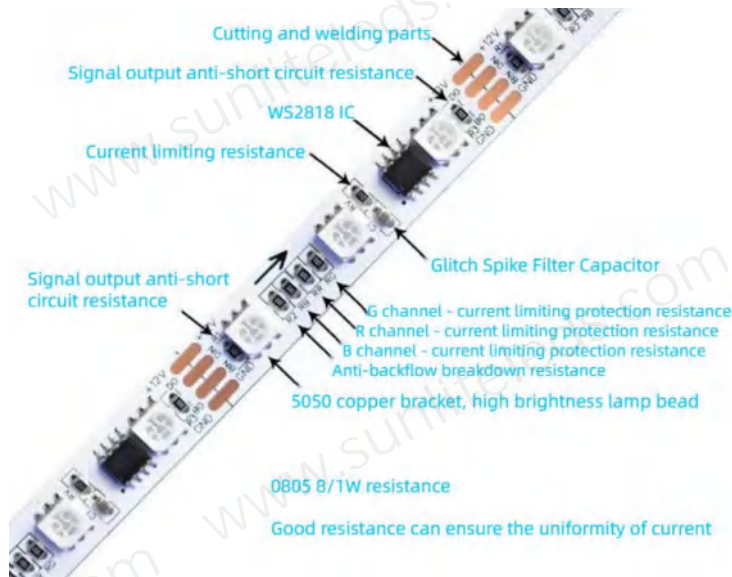Our capacitors and resistors come from the following two companies:
http://www.china-fenghua.com/index.html
https://www.lizgroup.com/

Please see the picture below, the difference between the 12v WS2818 produced by Suntech company and other companies.

Suntech company	other company

WS2818 12V

Please see the picture below, this is the function of each component:

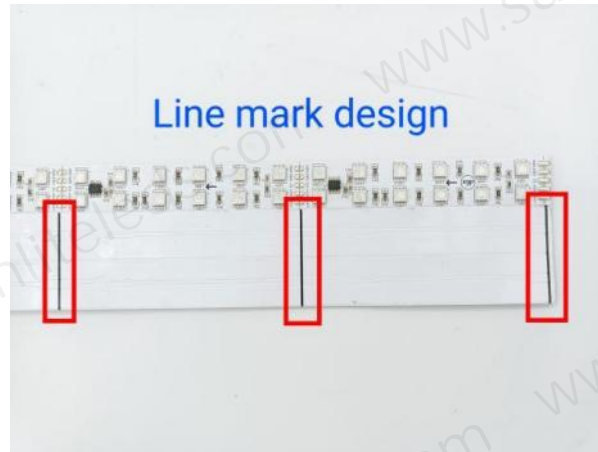
4. **Led strip connection:**Tin is added to the connection of the light strip, which is convenient for welding after cutting. The solder joints are full, and there will be no false welding.
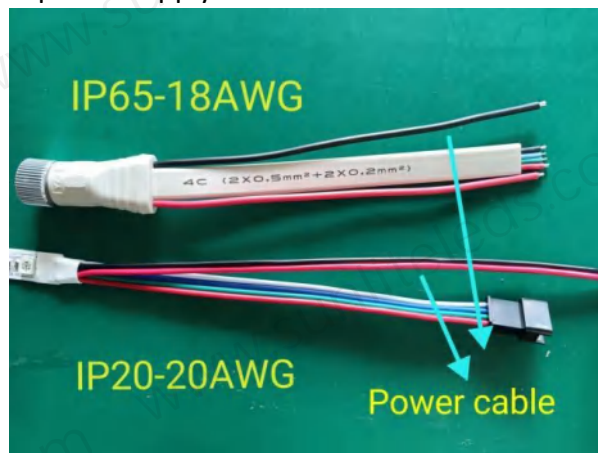
5. **LED brand:** Epistar, RGB lamp bead brightness up to about 2700mcd.
The approximate brightness achieved on the market is 2000mcd.

6. **Back side of PCB board:**There is a line mark design on the back of the PCB board, and the light strip is inserted into the neon tube for easy cutting.

7. **Wire**: Cold resistance, high temperature resistance (below 105 degrees), flame retardant, Anti-uv. All products of Suntech Company will have two more wires, which are specially used for power supply.

For IP67 waterproof LED Strip, Suntech will make the wire longer (about 1cm) at the connector, This prevents water from seeping in, and even if water seeps into the edge of the LED strip, it is not easily damaged.

8. **Adhesive**: Genuine 3M LSE, will not fall off

As can be seen from the picture below, the genuine 3M LSE is transparent under the light, It is enough to prove that the stickiness is very strong. On the contrary, use inferior 3M LSE, the led strip will not be very sticky.

9. **Connector**: The cores of Suntech connectors are all solid core pins, and some companies may use hollow pins. Please see the comparison chart below: