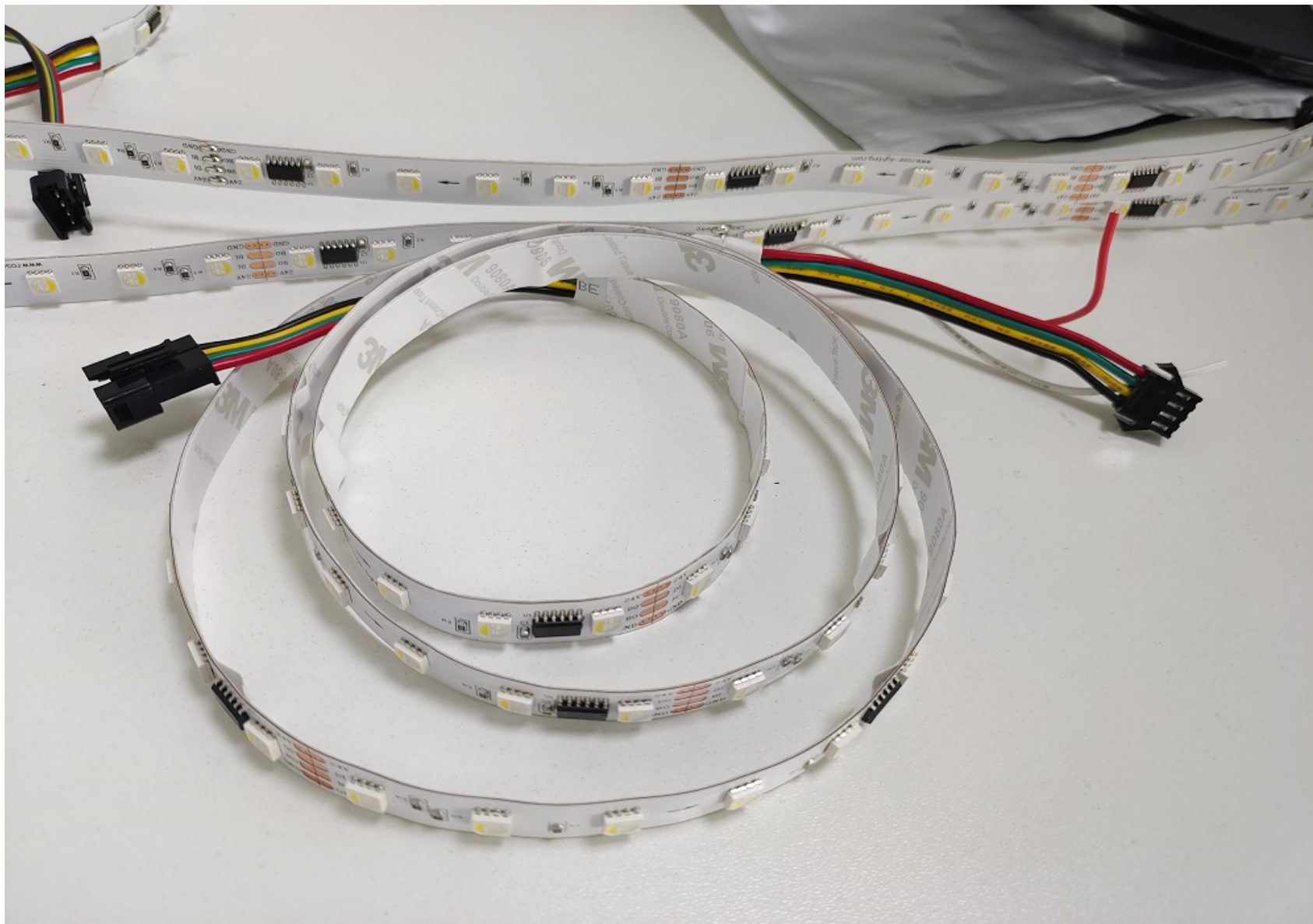




Rose Lighting

Model: RL-STR-WS2814-5050RGBW-60-24V



<https://www.rose-lighting.com> TEL:0755-23763467 Phone:008618675649004 Email:info@rose-lighting.com

Add: No.53 Yuexing Rd, Guanlan Street ,Longhua District,Shenzhen, China 518110

**Advantages:**

1. **No voltage drop**. 15meters with two side connect to the power . bec we use 12mm width with 2OZ pure copper PCB Board.
2. Super easy to install , save much wires cost, labor costs and time .
3. **Dual signal,one pixel broken ,no affect next one working!**
4. epistar 5050 RGB led ,60pcs per meter ,each led has Pure copper bracket and pure gold wire inside ,each led has High brightness>2100mcd **CCT for white :3000K 4000k 6000K optional**
5. Double membrane covering the FPCB board,good proection
6. SPI control : ws2814 IC chipset (same work as ws2811,ect)
7. 3 led (5cm ) as one cutting part ,ect.... 6led (10cm)as one cutting part with 24v
8. **Strong signal Signal transmission,can make 10meter long distance.**



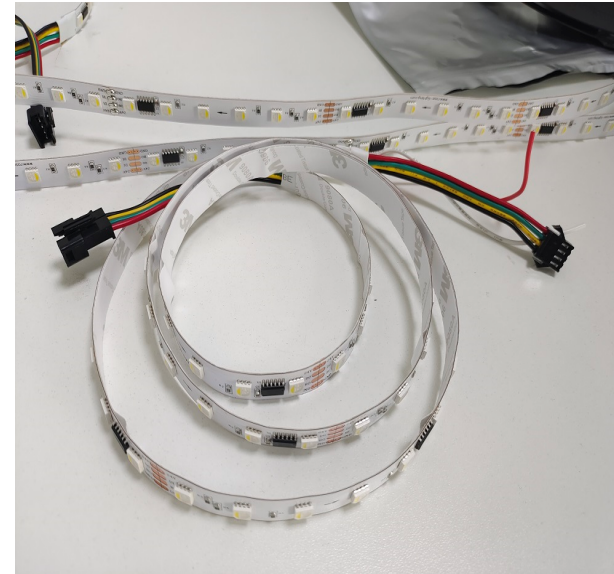
1. PWM refresh rate: 1.2kHz, transfer speed 800k bps
2. It comes in 1 meters per reel with 4Pin female/male JST SM connector on both end and separated Power / Ground Wires . Customized length is workable .
3. 24V ( 6leds one IC with 24V)
4. 2unce PCB boardwith double cooper layer(hongqi brand 3535 copper )
5. double sides membrane cover the pcb board. make sure the copper no drop from the pcb board
6. Flexible PCB material .
7. 60 leds per meter . 24V low voltage inputted , don't over 25V , otherwise you will destroy the entire strip .
8. Controller System :SD controller , DMX controller , Artnet and so on .(SPI protocel)
9. Installing : screw+silicon clip and 3M adhesive on back side for sticky



# Model: RL-STR-WS2814-5050RGBW-60-24V

There is 4 Pin JST SM female/male connector on both end for signal input/output

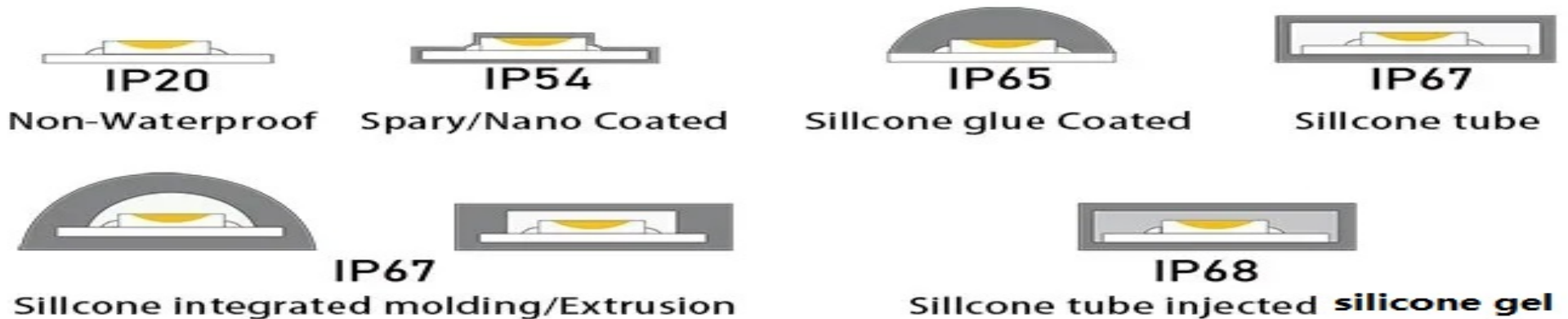
Input: Female Connector output : male Connector



+Dc12V: Red  
Data1: Green  
Data2: Yellow  
GND: Black

Part NO	RL-STR-ws2814-5050RGBW-60-24V
Lighting Source	Sanan 5050RGB +W LED
Beam Angel	120 degree
Operate Voltage	DC12V 24V
Consumption Watt/M	19.2 Watt per meter
PCB quality	Double layer 35um Copper
LED quantity /M	60 leds per meter
Luminance (mcd)	2100MCD for one RGB 5050 led +white >7lm
IC chip	Ws2814
Cable	AWG20
Plug	4pin female and male connector
Waterproof Grade	IP20/65/67/68
Control	SPI /TTL control
warranty	2years

## IP rating



## Certifications

**Intertek AUTHORIZATION TO MARK**

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple later models identified on the correlation page of the Listing Report. This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

**Applicant:** Shenzhen Shinesky Optoelectronics Co., LTD  
**Address:** 2F, H1 Building, Hongfa Hi-tech Park, Tangtou, Shiyao Town, Baoan District, Shenzhen, Guangdong  
**Country:** China  
**Contact:** Bin Wu  
**Phone:** +86-755-29116235  
**FAX:** +86-755-29116235  
**Email:** hmg@shinesky.com

**Manufacturer:** Shenzhen Shinesky Optoelectronics Co., LTD  
**Address:** 2F, H1 Building, Hongfa Hi-tech Park, Tangtou, Shiyao Town, Baoan District, Shenzhen, Guangdong  
**Country:** China  
**Contact:** Bin Wu  
**Phone:** +86-755-29116235  
**FAX:** +86-755-29116235  
**Email:** man@shinesky.com

**Party Authorized To Apply Mark:** Same as Manufacturer  
**Intertek Testing Services Shanghai**

**Control Number:** 5000956 **Authorized by:** Thomas A. Johnson, Certification Manager

**Intertek**

This document supersedes all previous Authorizations to Mark for the noted Report Number.

**Intertek Testing Services NA Inc.**  
 645 East Argonne Road, Aliso Viejo, CA 92656  
 Telephone: 949.361.8500 or 949.434.5667 Fax: 949.286.9722

**Standards:** Low Voltage Lighting System - UL 2108 (Issued: 2004/02/27 Ed. 1 Rev: 2014/02/24)  
 General Requirements for Luminaires - CSA C22.2 No 9.8 (Issued: 1999/06/01 Ed. 1 (R2011), with Cor: Issue 1, 1997, Cor: Issue 2, 2000)

**Product:** Low Voltage Strips LED Strip  
**Model:** SK-CT-2814-28 2 color "X", "Y" and "Z" is a letter in the combination of a letter and a number

ATM for Report 1530064950A-001 Page 1 of 1 ATM issued: 21 May 2015

**CERTIFICATE of Conformity**  
 EC Council Directive 2004/108/EC  
 Electromagnetic Compatibility

**Registration No.:** AE 50329836 0001  
**Report No.:** 17055806 001

**Holder:** Shenzhen Shinesky Optoelectronics Co., LTD  
 2F, H1 Building, Hongfa Hi-tech Park, Tangtou, Shiyao Town, Baoan District, Shenzhen, City 518108, P.R. China

**Product:** LED Strip  
**Identification:** Type designation: SK-2814V1 ("X", "Y", "Z" are variables, refer to report for details)  
 Serial No.: n/a  
 Remark: Refer to test report 17055806 001 for details.

**Tested acc. to:** EN 60528:2013  
 EN 61347:2009

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the License Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex 1 of Council Directive 2004/108/EC. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of this certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.

**Date:** 15.01.2018  
**Dipl.-Ing. Ulf S. C. Steinhilber**  
 TÜV Rheinland LGA Products GmbH · Tillystraße 2 · 90431 Nürnberg

CE The CE marking may only be used if all relevant and effective EC Directives are complied with. CE

**SGS Test Report** No. NTA4101706171041 Date: FEB 18, 2016 Page 1 of 6

**SHENZHEN SHINESKY OPTOELECTRONICS CO., LTD**  
 2F, H1 BLDG, HONGFA HI-TECH PARK, TANGTOU, SHIYAO TOWN, BAOAN DISTRICT, SHENZHEN, GUANGDONG, P.R. CHINA

This report supersedes all the previous documents bearing the test report number NTA4101706171041.

The following sample were submitted and identified by test: 10 units of the item: SK-CT-2814-28 LED STRIP

**Send Reference Information:** SEE ATTACHMENT  
**Sample Receipt Date:** JAN 07, 2016  
**Further Information Date:** FEB 18, 2016  
**Testing Period:** JAN 07, 2016 TO JAN 18, 2016

Test Requested	Conclusion
1. European North Directive 2011/65/EU Annex II (RoHS 2002/95/EC) (Lab-test specimens) were tested as specified by the applicant. (Refer to test report # 1530064950 for details)	PASS

FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S):

Signed for and on behalf of SGS SCS Shenzhen Technical Services Co., Ltd. Shenzhen Branch-TÜV Laboratory

**Party Signatory, please Print: Technical Manager**

**SGS**

**SGS CERTIFICATE** Certificate: CH703036

SHENZHEN SHINESKY OPTOELECTRONICS CO., LTD.  
 2F, H1 Building, Tangtou Hi-tech Park, Tangtou, Shiyao Town, Baoan District, Shenzhen, Guangdong, P.R. China  
 United States Credit Code: 514030301981324

ISO 9001:2015

Design and manufacture of LED strip products

For further information, please refer to the following page(s):

Refer to the application for test and/or details on the application of ISO 9001:2015 certification to the above mentioned organization.

This certificate is valid from 2 March 2017 until 1 March 2020 and remains valid only if subject to surveillance audits.

Recertification audit on 15 March 2018. No non-conformities identified. Issue 1 Certified since 2 March 2017

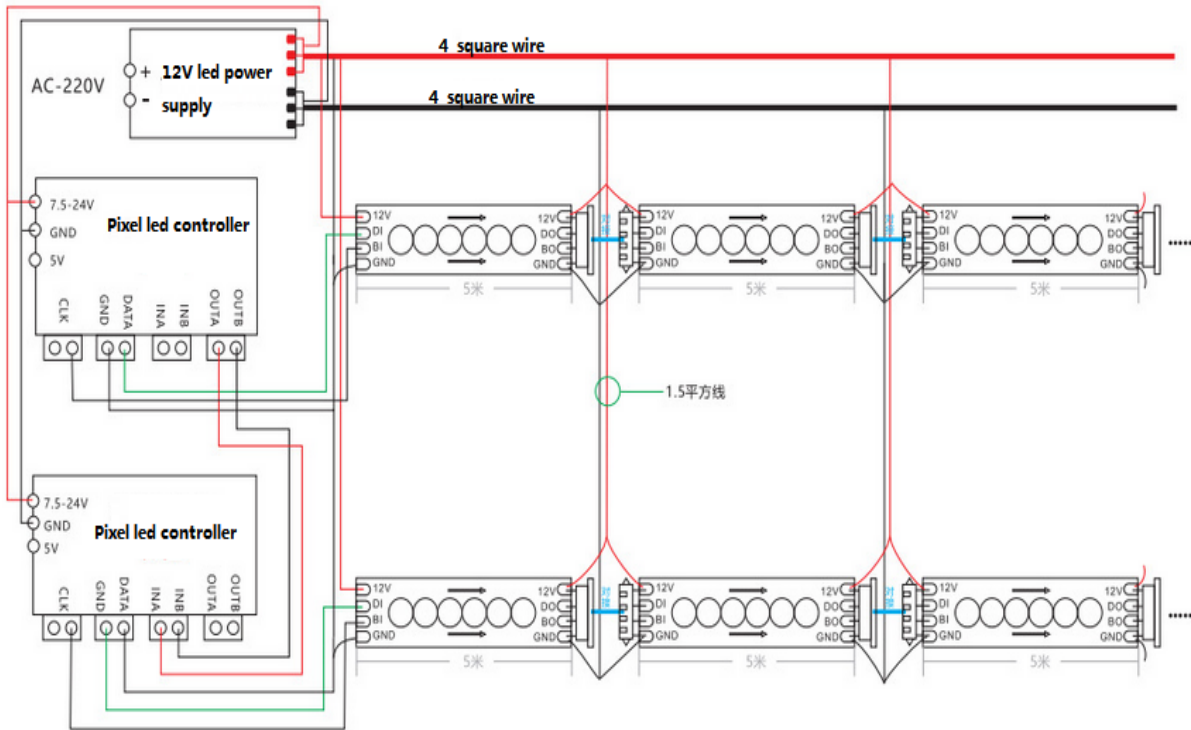
**UKAS**

SGS

## Electrical / Optical Characteristics at Ts=25°C 电性与光学特性

Item 项目	Symbol 符号	Test Condition 测试条件	Value			Unit 单位	
			Min.	Max.	Typ.		
Forward Voltage	VF	IF=20mA	R	2.00	2.20	—	V
			G	2.20	2.40	—	V
			B	2.95	3.20	—	V
	W1(2400K)		3.20	3.45	—	V	
			3.00	3.20	—	V	
			3.20	3.40	—	V	
	W2(6500K)	IF=20mA	2.70	2.95	—	V	
Luminous Intensity/flux	IV	IF=20mA	R	800	1200	—	mcđ
			G	1400	2200	—	mcđ
			B	350	560	—	mcđ
			W1(2400K)	5.5	8.0	—	lm
			W2(6500K)	7.0	9.5	—	lm
Dominant Wavelength	WLD	IF=20mA	R	618.0	623.0	—	nm
			G	518.0	523.0	—	nm
			B	465.0	470.0	—	nm
Reverse Current	R	IR	VR=5V	—	10.0	—	uA
	G	IR	VR=5V	—	10.0	—	uA
	B	IR	VR=5V	—	10.0	—	uA
	W1(2400K)	IR	VR=5V	—	10.0	—	uA
	W2(6500K)	IR	VR=5V	—	10.0	—	uA
	Viewing Angle	2θ1/2	IF=10mA	R	—	—	121
G				—	—	123	Deg
B				—	—	120	Deg
W1(2400K)				—	—	114	Deg
W2(6500K)				—	—	117	Deg
Color Rendering Index	W1(2400K)	Ra	IF=20mA	80.0	—	—	
	W2(6500K)	Ra	IF=20mA	80.0	—	—	

# Wiring Chart

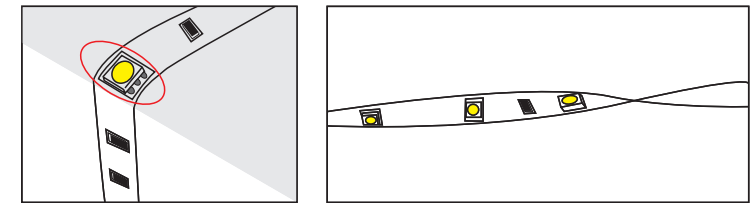
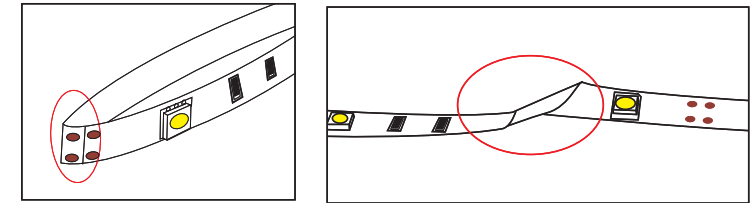


## Note:

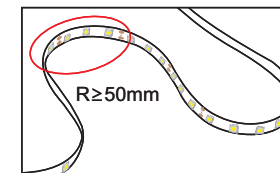
1. One Aluminum Foil Bag for one roll of LED strip, 5M/roll.
2. All the packaging materials are RoHS standard.
3. Heavy stuff are not allow to be loaded above the packaging box.

## ⚠ Cautions:

- When install the led strip , please note the installation technique. The led strip can be bent, but not distorted, as shown below:



Distortion(Wrong)



Bend(Right)

- LED strips are low voltage products, you must use the power supply(transformer). Please don't connect the led strip directly to the AC110 or AC220V, otherwise it will burn out the LED strips.
- Clean up the installation surface, it will ensure the reliability of the adhesive.
- The electrical connection process must be operated by a professional person.

## Package

