

# Specification

Prepared	Checked	Approved	Accepted	Confirmed	Approved

**2835**  
SMD

**120**  
LEDs/m

**3D**  
Strip

**DC**  
**12V**

**IP**  
**54**

**Model:** ☉ RQPWC0TA

50000\*6.5mm, 120 pills per meter 2835 SMD, equipped with silicone casing, constant voltage 12Vdc flexible strip (3D)/RK Series with A LED(White, 7.2W/m)

**Picture:**



**Features:**

- ☉ Patented product, rectangular appearance;
- ☉ New process, adhesive tape shares the same shape as FPC, beautiful and easier to bend;
- ☉ Long board without splicing FPC, strong tensile and strength performance;
- ☉ Various color temperature available, with good color consistency;
- ☉ High viscosity thermally conductive adhesive backing, with good heat dissipation, strong adhesion, and high reliability.

**Applications:**

- ☉ Suitable for mini channel letters, stainless steel channel letters, infinity channel letters, super channel letters, metal back luminous channel letters and etc.

**Warranty:**

- ☉ 2 years or 9,000 hours, whichever comes first

### Optical and Electrical Parameters :

P/N	LED Color	CCT(K) WL(nm)	CRI	SDCM	Beam Angle (°)	Luminou Flux (lm/m)	Luminous Efficacy (lm/W)	Voltage (V DC)	Current	Power
									(mA)	(W)
RQPWC0TA	White	3000K	80	≤5	≥115	700	100	12	600	7.2
RQPWC0TA	White	4000K	80	≤5	≥115	750	104	12	600	7.2
RQPWC0TA	White	6500K	80	≤5	≥115	730	102	12	600	7.2
RQPWC0TA	White	12000K	70	--	≥115	730	102	12	600	7.2
RQPWC0TA	Red	620-630nm	--	--	≥115	238	33	12	600	7.2

**Others:**

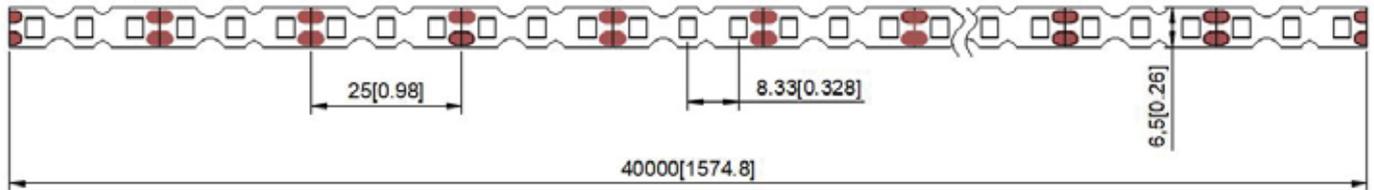
P/N	IP Grade	Operating Temp (°C)	Storage Temp (°C)	Standard length (m)	Max.cascading Length (m)	LED Qty (pcs/m)	Weight (g/m)
RQPWC0TA	IP54	-25~+45	-25~+70	40	2	120	8.8

Notes:

- (1) Testing environment temperature: 25±2°C [77±3.6°F]
- (2) The actual data of each single product may differ from above typical data which are subject to change without prior notice
- (3) Above CCT is derived from bare LED, which might be changed slightly due to refraction of silicone casing, thus for final CCT please refer to actual samples
- (4) S-shaped LED strips are used in light-emitting characters, and the maximum cascade is 2 meters. If using more than 2m, please connect the main line every 2m to make up the electricity.

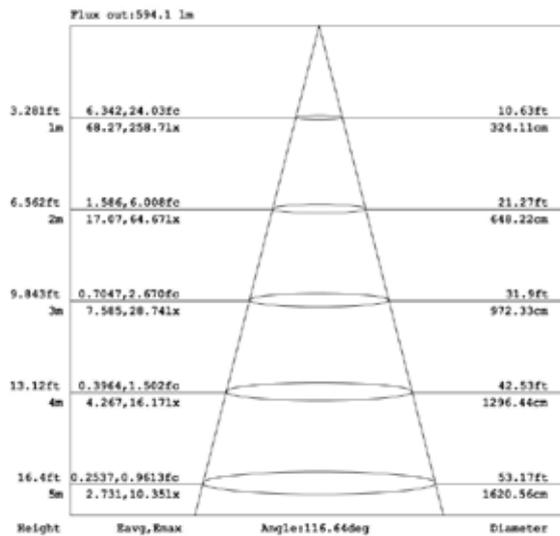
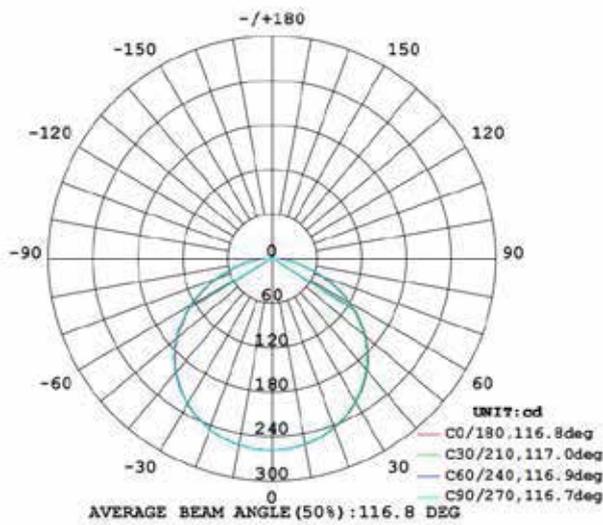
## Profile Drawings:

Unit: mm[inch]



RQPWC0TA

## Light distribution curve chart/iso illuminance chart:

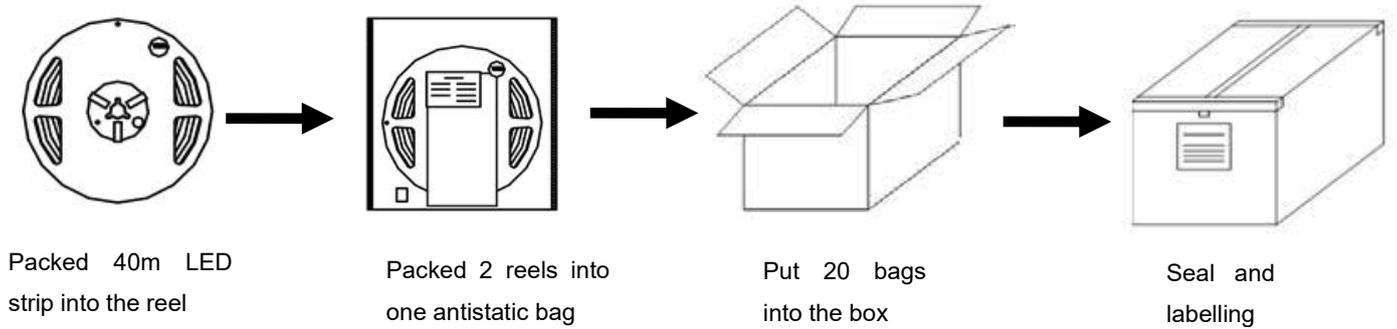


## Packaging Information:

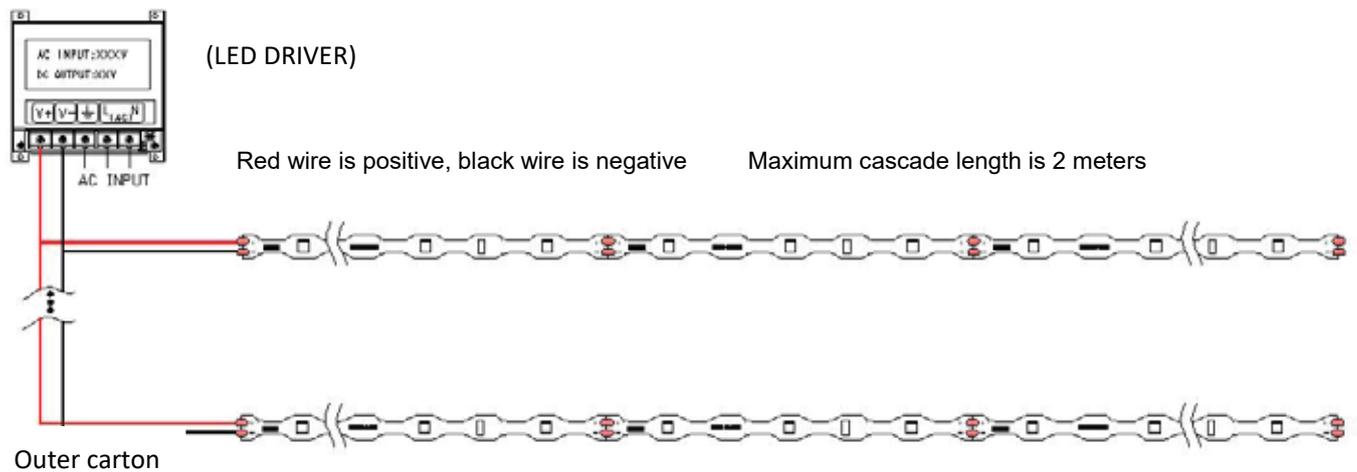
P/N	Qty (m/reel)	Qty (m/carton)	Total Qty (m)	Total weight (KG)	Outer carton size (mm)		
					Length	Width	Height
RQPWC0TA	40	1600	1600	17	595	295	225

Notes: the actual packed and weight may subject to without prior notice.

## Packaging Diagram:

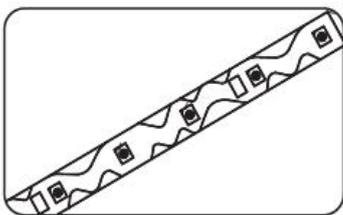


## Connection Instruction:



## Parts and Tools:

### Product Spare Parts



LED strip

### Accessory

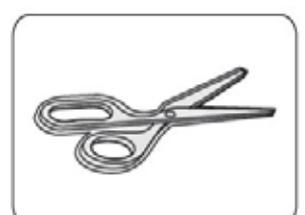


Wire

### Self-provided Tools



Welding Tools



Scissor

## Installation Steps & Cautions :

- ⦿ Detailed operating instructions in the product manual

## Troubleshooting:

Malfunctions	Possible Causes	Solutions
All LEDs don't work	1、 There's no power from the utility	Power on
	2、 Power supply starts automatic protection when switching power supply outputs open circuit or short circuit	Remove the malfunction caused by short-circuit, power on again
	3、 The polarity of the power supply end of the LED strip is reversed	Check the wire connection status to ensure that the positive and negative terminals are connected correctly
Part of LEDs don't work	1、 Part of power supplies do not have output	Check the power supply system
	2、 Part of wires of strip light have malfunction	
	3、 Particular strip light connected reversely	Correct wiring
LED brightness is inconsistent or not bright enough	1、 Power supply is overloaded.	Replace the more powerful power supply according to the load
	2、 The circuit loss of the switching power supply is too large or the circuit loss difference is large	Ensure that the working voltage of the LED strip is within $\pm 5\%$ of the rated voltage 1. Shorten the length of wires between the first strip and power supply or replaced with wires with bigger diameter; 2. Ensure the cascading qty of string is less than or equal to the allowed maximum cascading qty, and each strip cascading qty is well-balanced.
	3、 The number of serial connections of LED strip is excessive	Lessen the cascading qty for strip and ensure the qty for each electrical circuit is within the maximum cascading qty.
LEDs are blinking	1、 The connection point is in poor contact	Find out and tackle malfunction immediately.
	2、 Failures in power supply	Replace power supply.



Soluții pentru publicitate și decor

## Declaration:

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- ⊙ If the external flexible cable of light box is damaged, please replace it by its manufacturer or its service agent or qualified person to avoid a hazard.
- ⊙ The specific installation and cautions please refer to the user manual.
- ⊙ The given data in this specification is based on our standard product. There may be existed slight difference compared with actual products.
- ⊙ All Illustrations in this specification are for reference only.
- ⊙ This product is subject to change or modify without prior notice.
- ⊙ Shenzhen Rishang Opto Electronics Co.,Ltd reserves the right of final explanation for this specification.

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