

# Specification

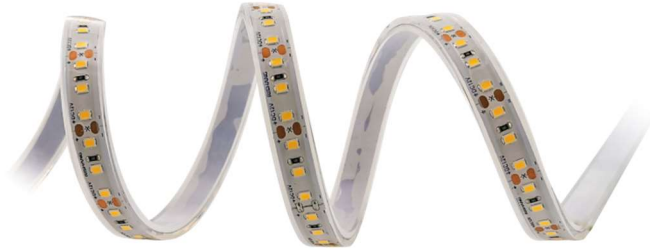
Prepared	Checked	Approved	Accepted	Confirmed	Approved

<b>CE</b>	<b>RoHS</b>	<b>2835</b> SMD	<b>120</b> LEDs/m	<b>LED</b> <b>Strip</b>	<b>DC</b> <b>12V</b>	<b>IP</b> <b>67</b>	<b>3</b> years
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**Model:** ☉ RN32C0TA-B

5000\*12mm 600pcs 2835 SMD LEDs, half surrounding tube with silica gel series, 12Vdc constant voltage, waterproof flexible LED strip, LED B

**Picture:**



**Features:**

- ☉ Adopt 2835 SMD LED, high reliability ;
- ☉ Can be cut at the position of cutting mark;
- ☉ CE, RoHS compliant.

**Applications:**

- ☉ Suitable for indoor use as decorative lighting, such as KTV, shopping mall, cabinet, etc. as corner decoration or contour lighting.

**Warranty:**

- ☉ 3 years or 13,000 hours, whichever comes first.

**Optical and Electrical Parameters:**

P/N	LED Color	CCT (K)	CRI	SDCM	Beam Angle (°)	Luminous Flux (lm/m)	Luminous Efficacy (lm/w)	Working voltage (VDC)	Working current(mA)		Power (w)	
									1m[3 9.37 in]	5m[1 96.8 5in]	1m[3 9.37 in]	5m[1 96.8 5in]
RN32C0TA-B	white	2700K	≥80	--	115	822	95.6	12	666	2666	8.6	32
	white	3000K	≥80	--	115	846	98.4	12	666	2666	8.6	32
	white	4000K	≥80	--	115	804	93.5	12	666	2666	8.6	32
	white	6500K	≥80	--	115	760	88.4	12	666	2666	8.6	32
	red	620-625	--	--	115	190	22	12	716	3020	8.6	36
	green	523-527	--	--	115	690	81	12	716	2916	8.6	35
	blue	470-475	--	--	115	215	25	12	716	2916	8.6	35
	Yellow	588-592	--	--	115	68	7.9	12	716	3020	8.6	36

**Others:**

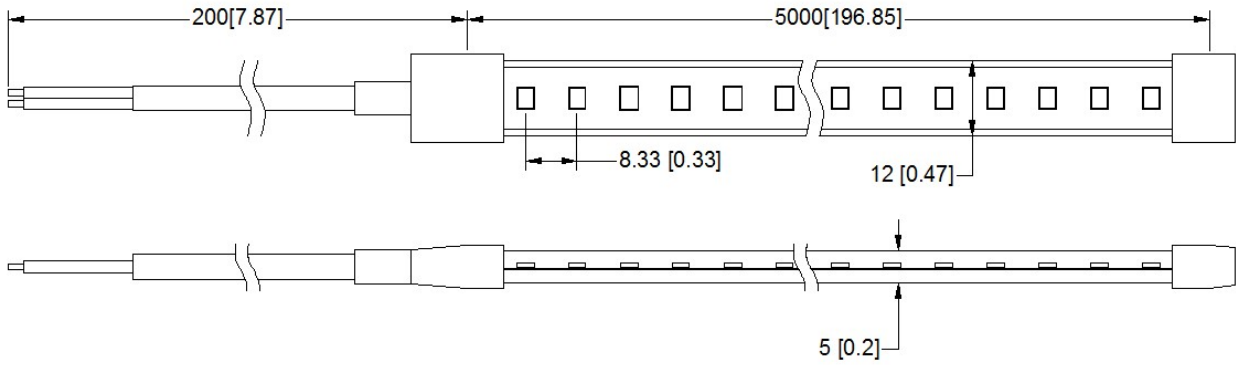
P/N	IP Grade	Operating Temp		Storage Temp		Standard length		Max. cascading length		LED Qty (pcs)	Weight	
		(°C)	(°F)	(°C)	(°F)	(m)	(inch)	(m)	(inch)		(g/piece)	(lb/piece)
RN32C0TA-B	IP67	-25~ +60	-13~ +140	-25~ +70	-13~ +158	5	196.8	5	196.8	120	/	/

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 silica gel tube, thus for final CCT please refer to actual samples;
- (4) The above "--" means the parameters are not required temporarily.

Profile Drawings:

Unit: mm[inch]

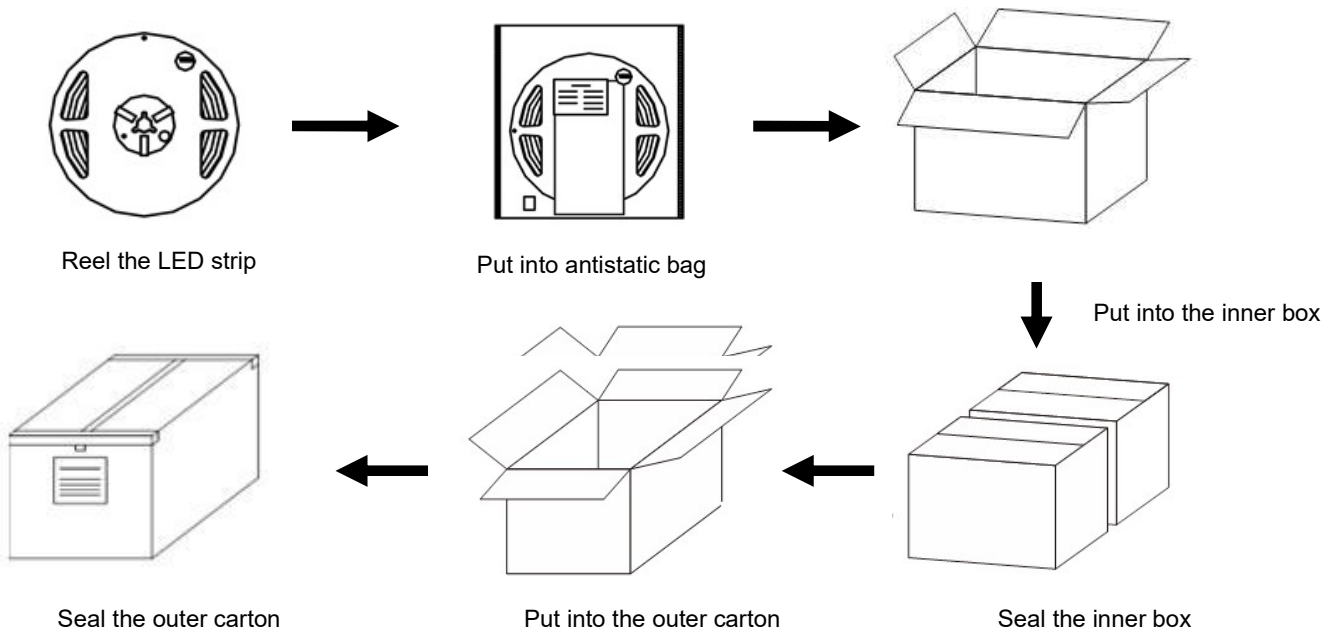


Packaging Information:

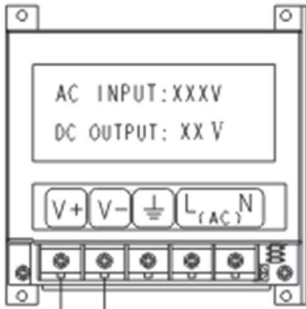
P/N	Qty (m/reel)	Qty (m/carton)	Total Qty (m)	Total weight		Outer carton size					
						length		width		height	
				(Kg)	(lb)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)
RN32C0TA-B	5	60	120	11.5	25.4	458	18.03	256	10.07	268	10.55

Notes: Above CCT is derived from bare LED, which might be changed slightly due to refraction of sealing glue, thus for final CCT please refer to actual samples.

Packaging Diagram:



Connection Instruction:



Note: Please connect the '+' and '-' of wires to those of controller output correctly.

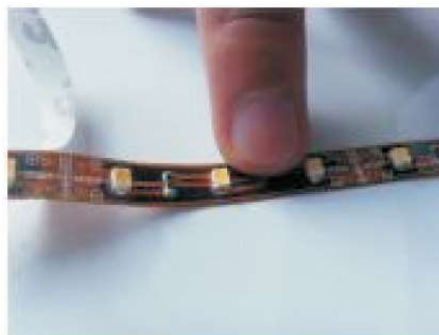
+:red wire, "-": black wire



InstallationSteps&Cautions:



○ Peel off the release paper of the tape;



○ Paste on the mounting surface;



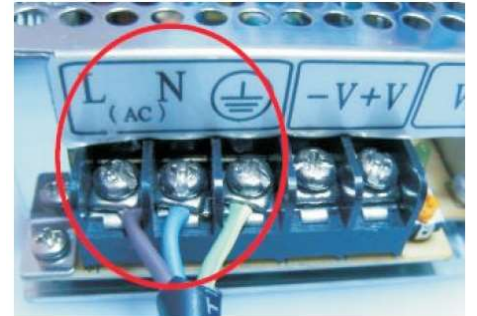
○ Install the snap spring;



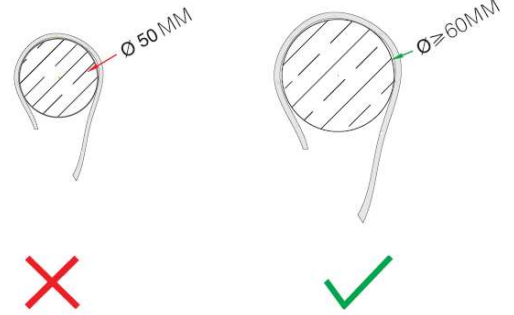
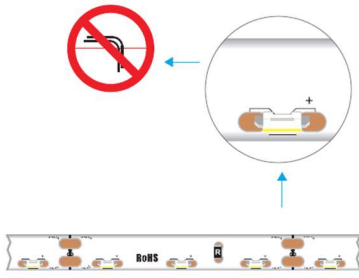
○ Installation is finished;



○ Connect the wires of the product;



○ Connect the wires of the power adapter.



⊙ No bending the strip at the position of LED.

⊙ No twisting the strip

⊙ No winding an object with a diameter <5cm

**Troubleshooting:**

Malfunctions	Possible Causes	Solutions
All LEDs don't work	1. The power supply did not connect to power grid.	Power on
	2. No electricity due to short-circuit of external power supply.	Remove the malfunction caused by short-circuit, power on again.
	3. The wires of strips connect to power supply output reversely.	Check the connecting and ensure the wires 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 strips have malfunction.	
	3. Particular modules connected reversely.	Correct connection
Brightness of LEDs is weak or uneven	1. Overloaded power supply;	Replace it with higher power supply
	2. The power loss of power circuit is huge or the power loss of each circuit existing big difference.	Ensure working voltage of strips is within $\pm 5\%V$ of 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. Exceed in qty of strips in series	Lessen the cascading qty for strip and ensure the qty for each electrical circuit is within the maximum cascading qty.
LEDs are blinking	1. Poor contacted in the joints.	Find out and tackle malfunction immediately.
	2. Failures in power supply.	Replace power supply.

**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.
- ⊙ RISHANG OPTOELECTRONICS CO., LTD reserves the right of final explanation for this specification.

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