Specification

Prepared	Checked	Approved

Accepted	Confirmed	Approved

CE | RoHS | 2835 SMD | 120 LEDs/m | **LED Strip** | DC 12/24V | IP 20 | 3 Years

Model: ◎RN08C0TA/RN08C0TC

5000*8, 600pcs, 2835 SMD LEDs, bare board series, constant voltage, 12Vdc, LED flex strip

5000*8, 600pcs, 2835 SMD LEDs, bare board series, constant voltage, 24Vdc, LED flex strip

Features:

◎High-strength 2835 SMD LEDs, high reliability;

◎Can be cut at the position of cutting marks;

◎CE, RoHS, compliant.

Picture:

Applications:

◎Suitable for indoor use, such as in KTV, shopping mall, cabinet, etc. as edge decorative lighting or contour lighting.

Warranty:

◎3 years or 13,000 hours, whichever comes first.

Optical and Electrical Parameters:

P/N	LED Color	CCT (K) WL (nm)	CRI	SDCM	Beam Angle (°)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Working voltage (VDC)	Working current(mA)		Power(w)	
									1m[39.37in]	5m[196.85in]	1m[39.37in]	5m[196.85in]
RN08C0TA-B	white	1800	⩾80	⩽5	⩾115	510	59	12	717	2667	8.6	32
RN08C0TA-B	white	2200	⩾80	⩽5	⩾115	665	77	12	717	2667	8.6	32
RN08C0TA-B	white	2400	⩾80	⩽5	⩾115	710	83	12	717	2667	8.6	32
RN08C0TA-B	white	2700	⩾80	⩽5	⩾115	730	85	12	717	2667	8.6	32
RN08C0TA-B	white	3000	⩾80	⩽5	⩾115	745	87	12	717	2667	8.6	32
RN08C0TA-B	white	4000	⩾80	⩽5	⩾115	810	94	12	717	2667	8.6	32
RN08C0TA-B	white	5000	⩾80	⩽5	⩾115	810	94	12	717	2667	8.6	32
RN08C0TA-B	white	6500	⩾80	⩽5	⩾115	785	91	12	717	2917	8.6	35
RN08C0TA-B	Red	620-625	--	--	115	97	11	12	717	2667	8.6	32
RN08C0TA-B	Green	525-530	--	--	115	419	49	12	717	2667	8.6	32
RN08C0TA-B	Blue	465-470	--	--	115	122	14	12	717	2917	8.6	35
RN08C0TA-B	Yellow	585-590	--	--	115	56	7	12	358	1500	8.6	36
RD08C0TC-B	white	1800	⩾80	⩽5	⩾115	510	59	24	358	1500	8.6	36
RD08C0TC-B	white	2200	⩾80	⩽5	⩾115	665	77	24	358	1500	8.6	36

RD08C0TC-B	white	2400	⩾80	⩽5	⩾115	710	83	24	358	1500	8.6	36
RD08C0TC-B	white	2700	⩾80	⩽5	⩾115	730	85	24	358	1500	8.6	36
RD08C0TC-B	white	3000	⩾80	⩽5	⩾115	745	87	24	358	1500	8.6	36
RD08C0TC-B	white	4000	⩾80	⩽5	⩾115	810	94	24	358	1500	8.6	36
RD08C0TC-B	white	5000	⩾80	⩽5	⩾115	810	94	24	358	1500	8.6	36
RD08C0TC-B	white	6500	⩾80	⩽5	⩾115	785	91	24	358	1625	8.6	39
RN08C0TC-B	Red	620-625	--	--	115	97	11	24	358	1500	8.6	36
RN08C0TC-B	Green	525-530	--	--	115	419	49	24	358	1500	8.6	36
RN08C0TC-B	Blue	465-470	--	--	115	122	14	24	358	1500	8.6	36

Others:

P/N	IP Grade	OperatingTemp		Storage Temp		Standard length		Max. cascading length		LED Qty (pcs/m)	Weight	
		(℃)	(℉)	(℃)	(℉)	(m)	(inch)	(m)	(inch)		(g/m)	(lb/inch)
RN08C0TA-B	IP20	-25~+60	-13~+140	-25~+70	-13~+158	5	196.85	5	196.85	120	/	/
RN08C0TC-B	IP20	-25~+60	-13~+140	-25~+70	-13~+158	5	196.85	5	196.85	120	/	/

Notes:

(1) Testing environment temperature: 25±2℃[77±3.6℉];

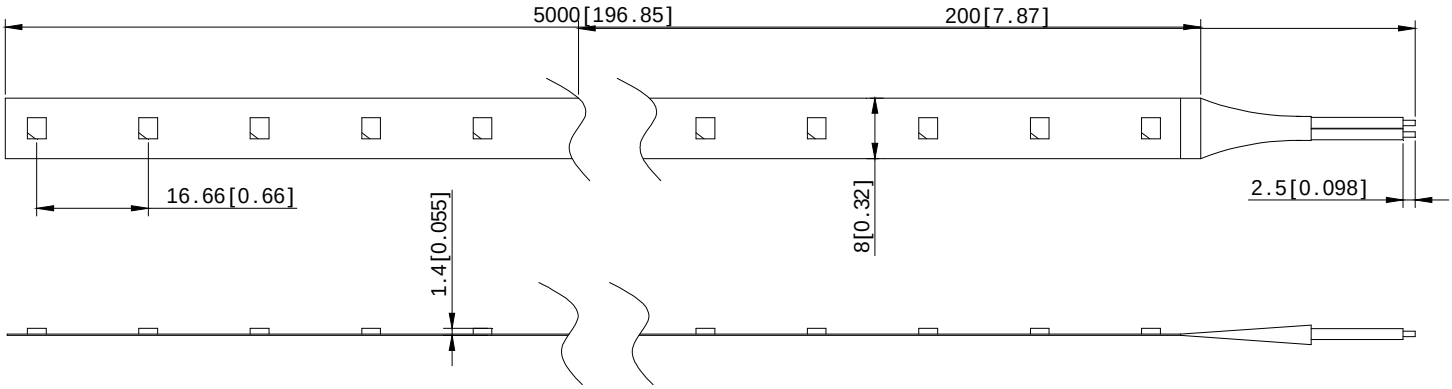
(2) The actual data of each single product may differ from above typical data which are subject to change without prior notice;

(3)Bending radius ⩾5cm, not suitable for channel letter application;

(5) The above "--" means the parameters are not required temporarily.

Profile Drawings:

Unit: mm[inch]



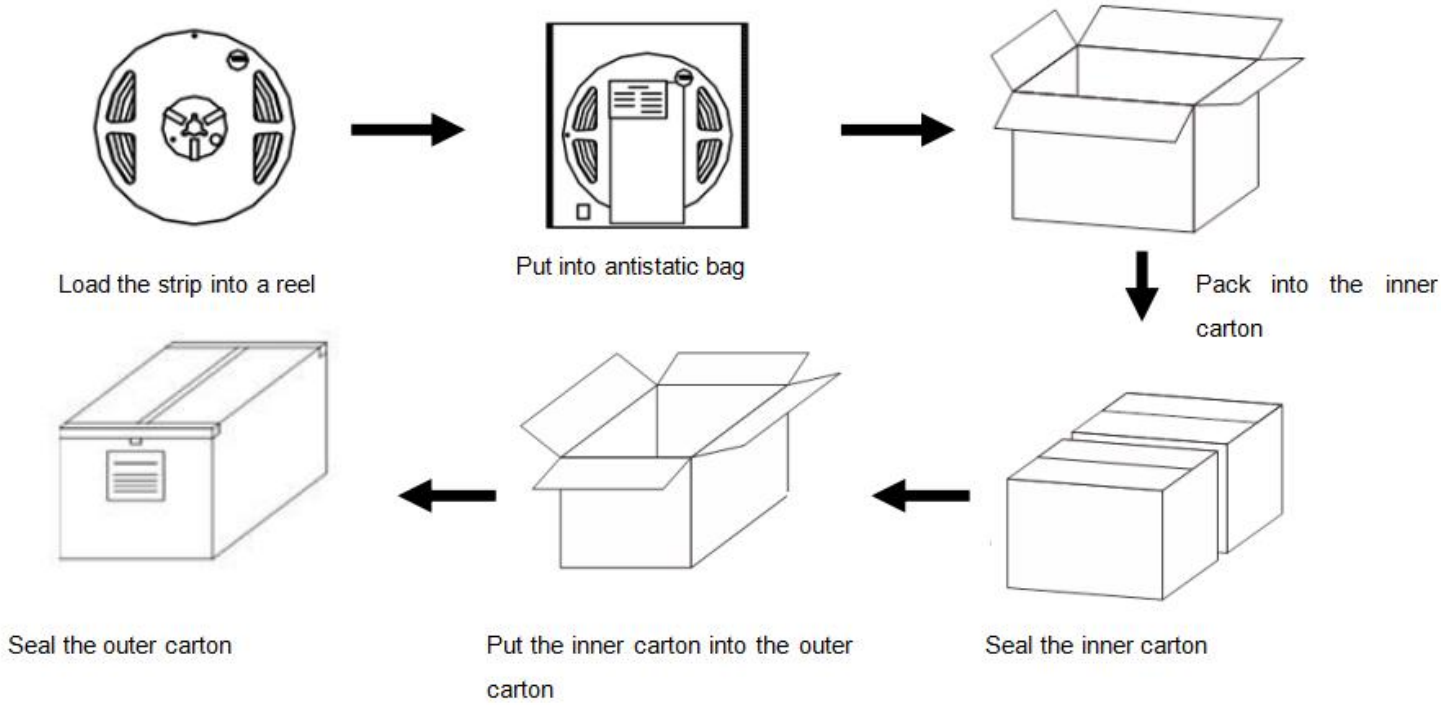
RN08C0TA/RN08C0TC

Packaging Information:

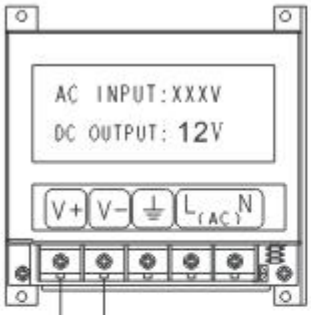
P/N	Qty (m/reel)	Qty (m/carton)	Total Qty (m)	Total weight		Outer carton size					
						length		width		height	
				(Kg)	(lb)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)
RN08C0TA-B	5	200	200	4.32	9.52	390	15.35	250	9.84	226	8.89
RN08C0TC-B	5	200	200	4.32	9.52	390	15.35	250	9.84	226	8.89

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

Packaging Diagram:



Connection Instruction:



Notes：please make sure the"+"and"-"of the product's input are correctly connected to those of the power supply output.

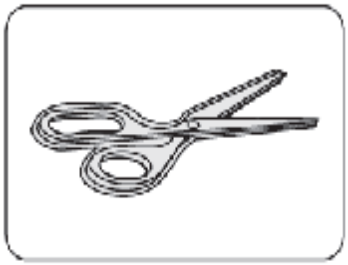
"+" red wire "-" black wire

Parts & Tools:

◎**Product Spare Parts**◎**Self-provided Tools**

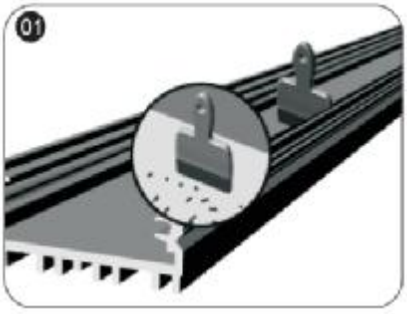
LED Strip

Electronic drill & Drilling bit

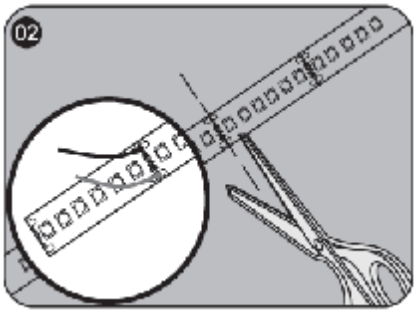


Scissors

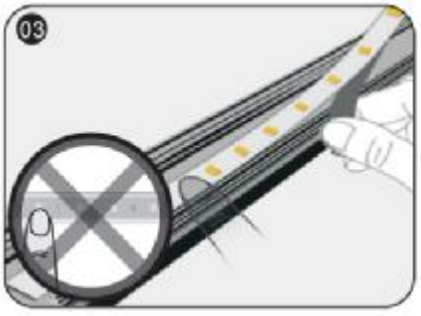
Installation Steps & Cautions:



◎Make sure the mounting surface is clean before installation;

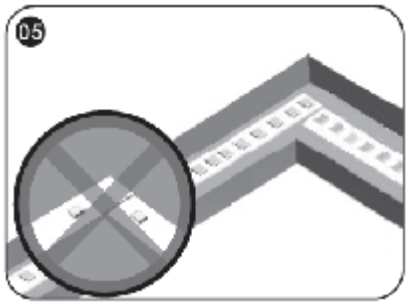


◎ Calculate the needed length and cut off the extra length along cutting mark if necessary; if need to add wires, please weld them at the next location with printed mark.



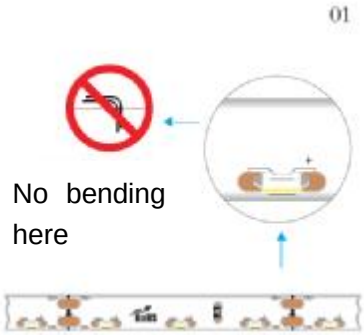
◎while sticking strips, peel off the release paper of the tape step by step. Don't peel off all release paper at a time to avoid getting your strip in a mess.

◎ Stick Mylar tape to isolate the cutting position from the bottom of profile inner slot to avoid short-circuit;



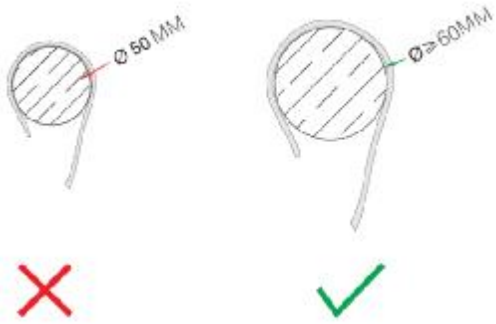
◎ The installation at the corner is shown as the above figure.
△ Notes: No bending it into right angle; No twisting it to stick on the mounting surface.

◎ Connect strip wires to the outpu terminal of power supply, an dispose with waterproof, insulatior short-circuit and anti-corrosio protection at both the wire joints an the cut section of your strip (if any).



◎ No bend 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 strip light 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 strip light have malfunction.	
	3. Particular strip light 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±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 strip light 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:

◎If the external flexible cable of light box is damaged, please replace it by its manufacturer or its service agent or qualifie 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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