

Specification

Prepared	Checked	Approved	Accepted	Confirmed	Approved

UL

CE

RoHS

COB
600

LED
Strip

DC
24V

IP
20

3
Years

Model: ○ RM0829EC-A-L

White COB LED strips, adopting precision dot-on-board production technology, Roll to Roll production, 600 LEDs/meter, IP20, DC24V (white light 10W/m, chip 6*20mil)

Picture:



Features:

- High density COB LED 1cm cut;
- Linear lighting, without light spot, soft and uniform luminance ;
- High color rendering index, Ra ≥ 90
- High temperature resistance , long life;
- UL ,CE , RoHS compliant.

Application:

- This product is suitable for hotels, shopping malls, homes, cabinets, display racks, etc., for main lighting, indirect lighting, dark trough lighting, outline, decorative lighting and other purposes.

Warranty:

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

Optical and Electrical Parameters:

P/N	LED	CCT	CRI	SDCM	Beam	Luminous	Luminous	Voltage	Working		Power	
									current(mA)		(w)	
									1m[3	5m[1	1m[3	5m[1
	Color	(K)			Angle(°)	Flux	Efficacy	(VDC)	9.37	96.8	9.37	96.8
						(lm/m)	(lm/w)		in]	5in]	in]	5in]
RM0829EC-A-L	white	3000	≥90	≤3	≥135	900	90	24	416	1750	10	42
RM0829EC-A-L	white	4000	≥90	≤3	≥135	950	95	24	416	1750	10	42
RM0829EC-A-L	white	5000	≥90	≤3	≥135	950	95	24	416	1750	10	42

Others:

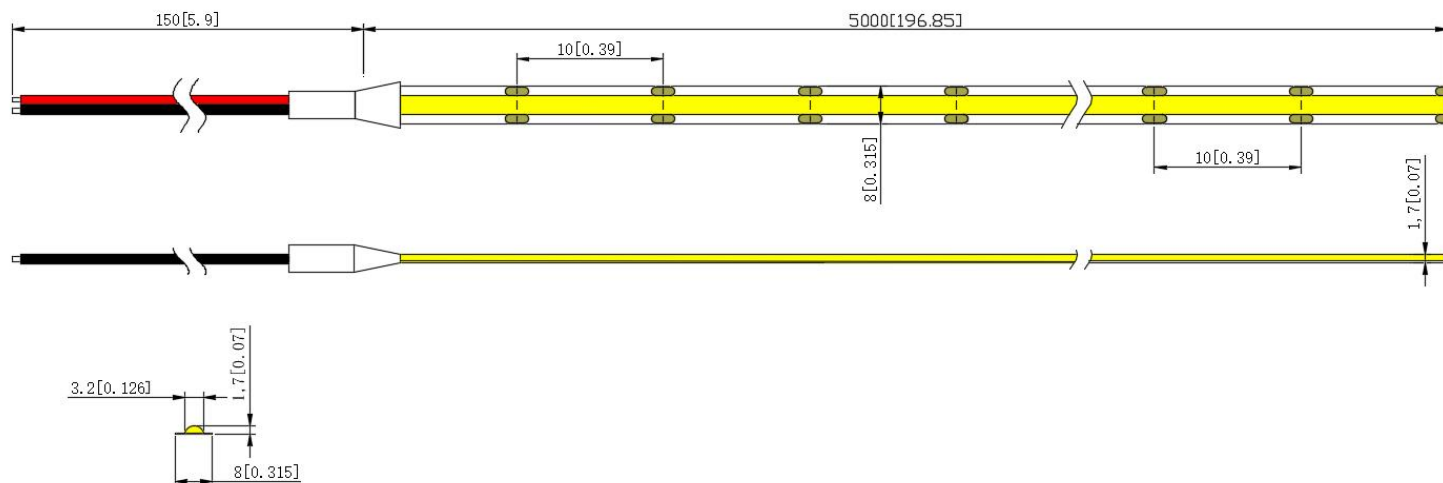
P/N	IP Grade	OperatingTemp		Storage Temp		Standard package length		One-end Power Supply Max. cascading length		COB Qty (pcs/m)	Weight (g/m)
		(°C)	(°F)	(°C)	(°F)	(m)	(inch)	(m)	(inch)		
RM0829EC-A-L	IP20	-25~ +60	-13~ +140	-25~ +70	-13~ +158	5	196.8	5	196.8	600	12

Notes:

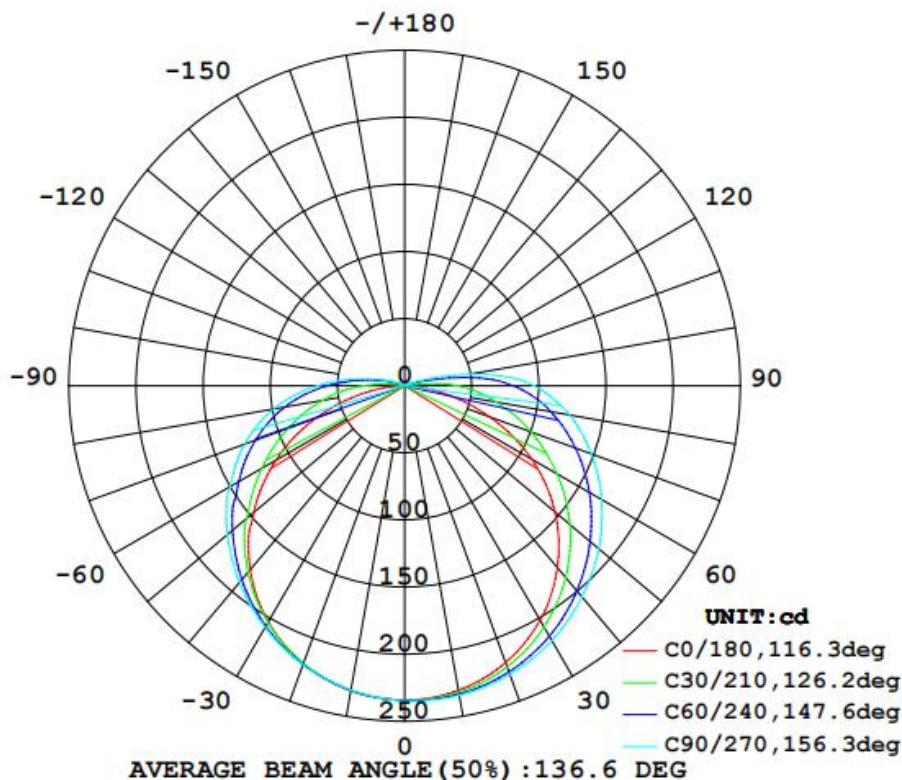
- (1) Testing environment temperature: $25\pm 2^{\circ}\text{C}$ [$77\pm 3.6^{\circ}\text{F}$];
- (2) The actual data of each single product may differ from above typical data which are subject to change without prior notice;
- (3) Bending diameter $\geq 50\text{mm}$, not suitable for channel letter.
- (4) The above “--” means the parameters are not required temporarily.

Profile Drawings:

Unit: mm[inch]



Light Distribution/Iso-illuminance Diagram:

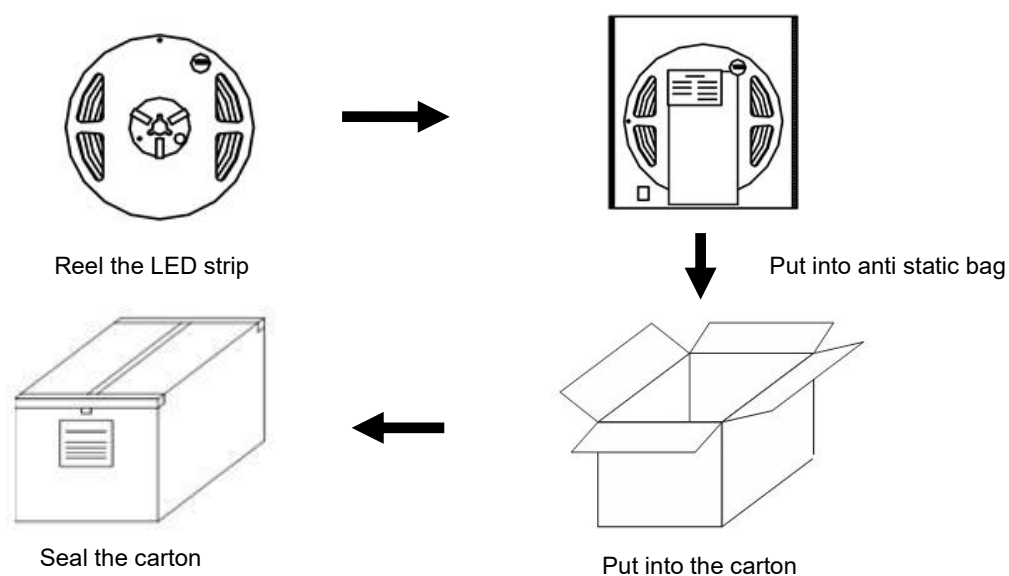


Packaging Information:

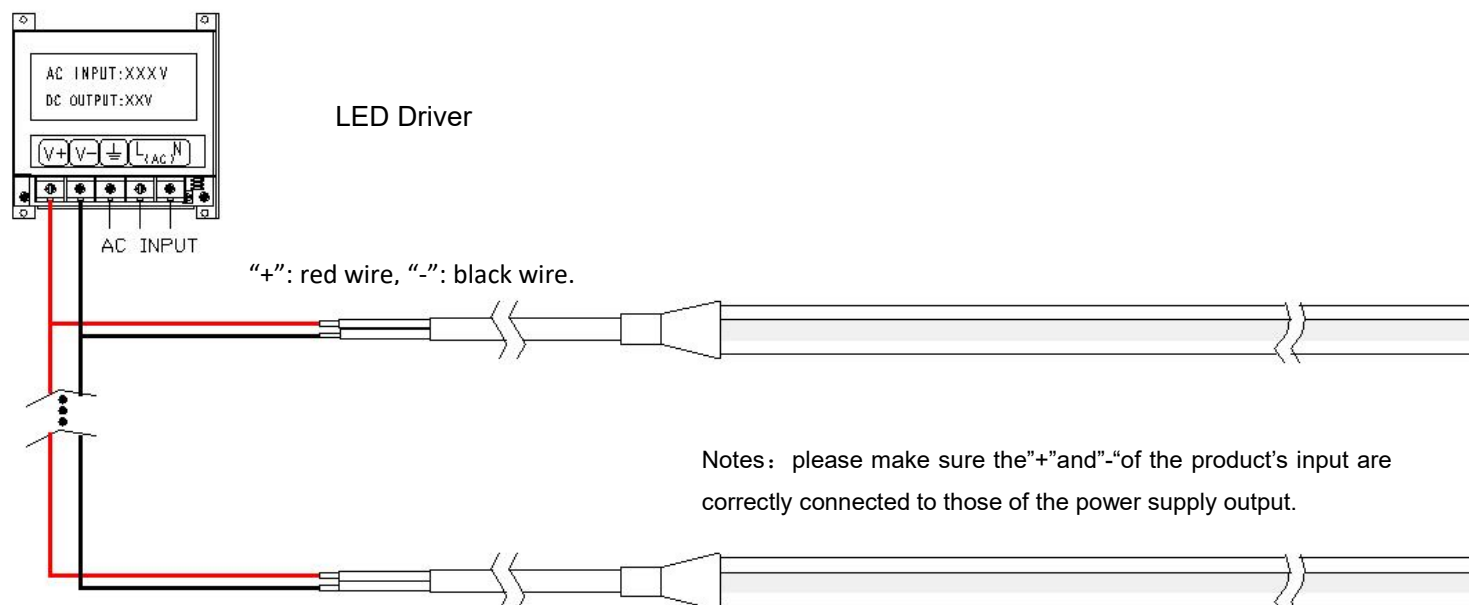
P/N	Qty (m/reel)	Qty (m/carton)	Total Qty (m)	Total weight (kg)	Outer carton size		
					length (mm)	width (mm)	height (mm)
RM0829EC-A-L	5	500	500	9.5	425	325	325

Notes: Above qty and weight of packing is only for the packing shown in the picture, which might be different from other packing modes, thus for actual qty and weight please refer to actual samples.

Packaging Diagram:



Connection Instruction:



Parts & Tools:

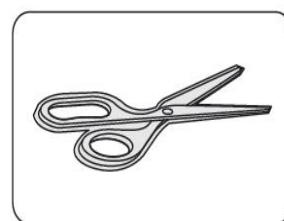
ProductParts Self-provided Tools



LED Strip

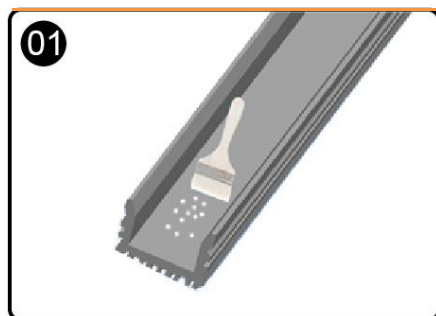


Electrical Drill & Drilling bit

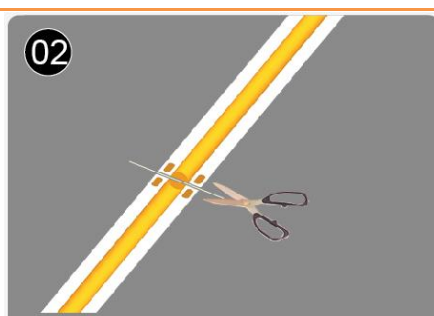


Scissors

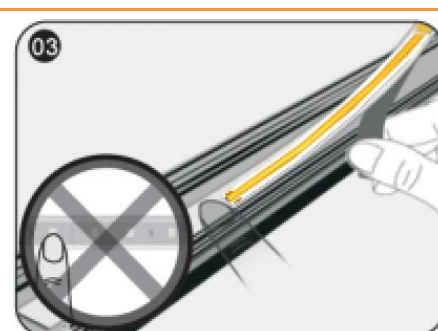
Installation Steps& Cautions:



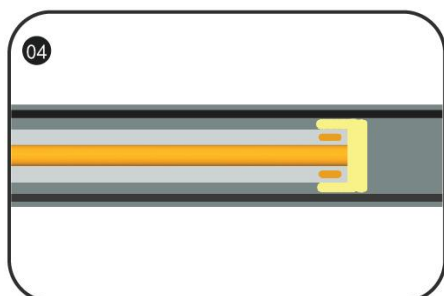
- Clean the mounting surface



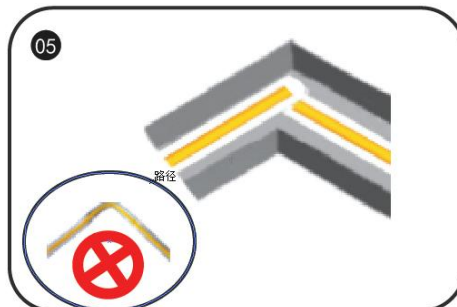
- Calculate the needed length and cut off the extra length along cutting mark if necessary; if need to add wires, please weld them at the next location with printed mark.



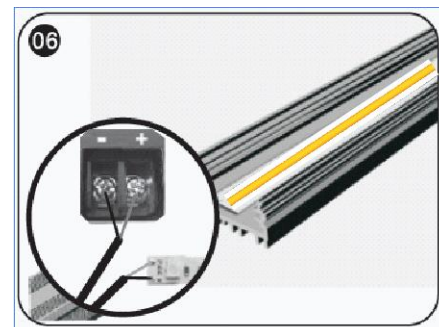
- While sticking strips, peel off the release paper of the tape step by step. Don't peel off all release paper at one time to avoid getting your strip in a mess.
- △Notes: No pressing the LED bead!



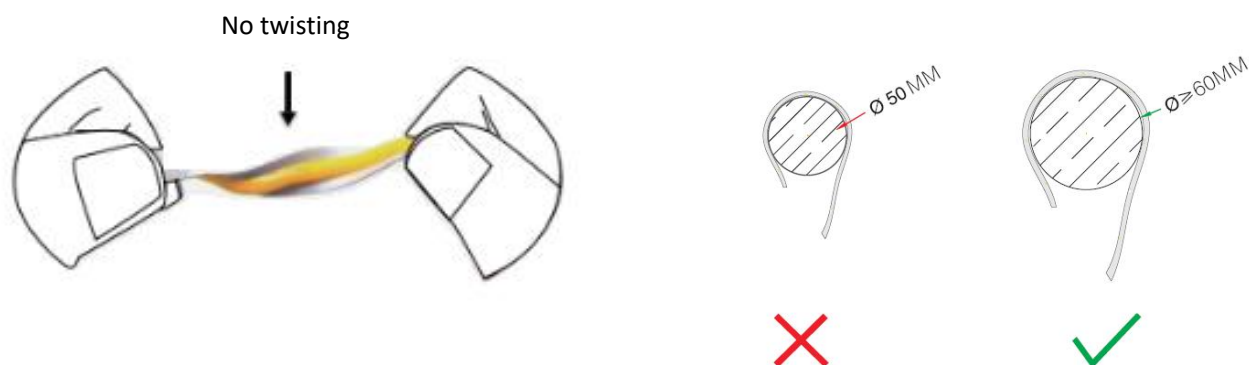
- Stick Mylar tape to isolate the cutting position from the bottom of profile inner slot to avoid short-circuit;



- 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 output terminal of power supply, and dispose with waterproof, insulation, short-circuit and anti-corrosion protection at both the wire joints and the cut section of your strip (if any)



⦿ 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:

- ⊙ 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.

<End>

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Official Account

