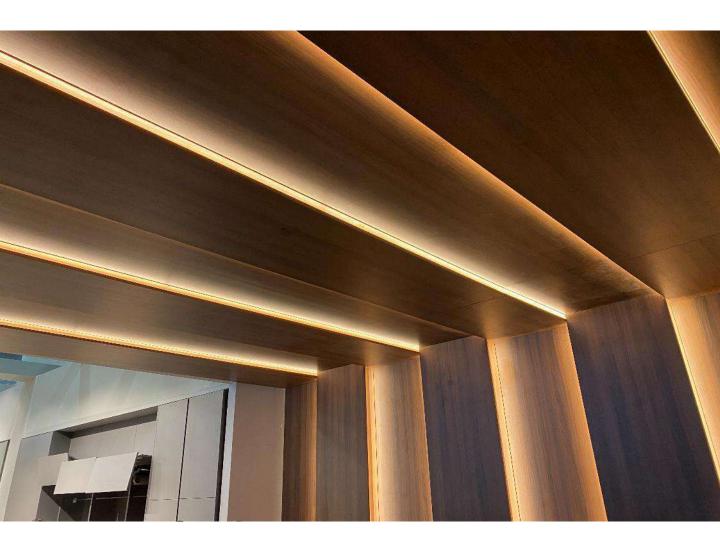
# Side Bend Neon – RX21C0TA-A

0817-12V Flexible Side Bend Planar Neon Strip For IP66 Application



## **Technical Application Guide**



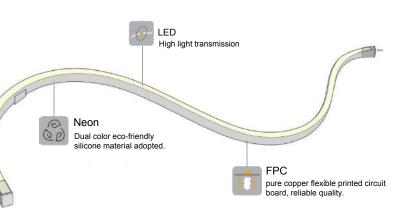
Version: 7.0 Issued on: September 4<sup>th</sup> , 2023

### 0817-12V Flexible Side Bend Planar Neon Strip of IP66

0817-12V Flexible Side Bend Planar, 7.2W/m constant voltage Neon Strip. Neon is featured in IP66 protection and great UV resistance, so it can be exposed to intense sunlight without yellowing and aging for a long time. The high light transmission further empowers it to be suitable for sign lighting, indoor and outdoor decorative lighting, and building outline lighting,

- Dual color eco-friendly silicone material adopted.
- Linear light and dot-free.
- · Large side bending angle, flexible cutting.
- Pure copper FPC, reliable quality.
- IP66 protection and good UV resistance.
- Resistance against Acid and alkali corrosion.

### Reliability



Category	ltem	Reference Standards	Test Conditions	Result	
IP grade test	Waterproof test	GB/T 4208IEC 60529	25±2°C @≤65%RH	IP66	
ir grade test	Dustproof test	GB/T 4208IEC 60529	25±2°C @≤65%RH	IFUU	
Safety test	Flame retardant test	GB7000.1IEC 6059801	25±2°C @≤65%RH	Pass	
	Hi-Low temperature cycle test	GB/T 2423.22IEC 60068-2-14	-40°C@30mins →25°C@5mins →85°C@30mins →25°C@5mins →-40°C@30mins; 168 hours	Pass	
	Thermal shock	GB/T 2423.22IEC 60068-2-14	-40°C <b>→</b> 70°C 100 circles	Pass	
Environmental	Hi-temperature storage test	GB/T 2423.3IEC 60068-2-78	Ta=80°C	Pass	
test	Low-temperature storage test	GB/T 2423.1IEC 60068-2-1	Ta=-40°C	Pass	
	Hi-temperature & Hi- Humidity Life	GB/T 2423.2IEC 60068-2-2	Ta=70°C @ RH=90%	Pass	
	GB/T UV test 16422.3ISO 4892-3		50±3°C,10±5%RH,Exposed at radiation 5 hours, spaying water 1 hour in 20±3°C,4 circles	Pass	

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### 0817-12V Planar Neon Strip

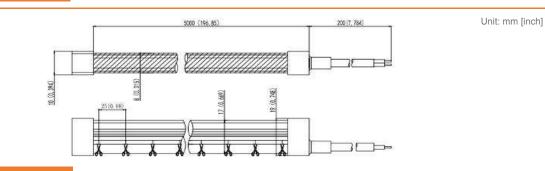


P/N Dimensions			s (L x W x H)				Cutting unit			Number of LEDs				
RX21C0TA-	A	5000*8*17	'mm	196	6.85*0	).32*0.67inch	25n	nm	0.98inch	1	120/m	ı	36/ft	
Side Bend			R≥25mm Bending Diameter		5mm	Sectional View								
Basic Param	eters :								Worki	ng current	(mA)	Power	(W/m)	
P/N LED	LED Color	CCT (K) CRI WL (nm) CRI	CRI	Beam Angle(°)		Luminous Flux (Lm/m)	5	Working voltage (V DC)	1m[39. n]		[196.8 5in]	1m[39.37i n]	5m[196.1 5in]	
RX21C0TA -A	White	2700	90		120	188		12	600	2	330	7.2	28	
RX21C0TA -A	White	3000	90		120	200		12	600	2	330	7.2	28	
RX21C0TA -A	White	4000	90		120	216		12	600	2	330	7.2	28	
RX21C0TA -A	White	6000	90		120	216		12	600	2	330	7.2	28	
	Qty (m/reel)		Qty (m/carton)	Total Qty (m)	I	Total weight		lengt	Outer carto gth width			n height		
	(m/reel)	(m/				(Kg) (Ib	) (	(mm)	(inch)	(mm)	(inch)	(mm)	(incl	
RX21C0TA-A	5		50	50		11.8 2	6	335	13.19	335	13.19	425	16.7	
P/N G	IP	Operating Temperature		Storage Temperature		Standard	Standard length		Max. cascading length		LED Qty		Weight	
	Grade	(°°)	( <b>°F</b> )	(°C)	(ፑ )	(m)	(inch)	(m)	(inch)	(pcs	)	(g/m)	(lb/m	
RX21C0TA-A	IP66	-25 ~ +60	13 ~ +140	-25 ~ +70	13 ~ +158	5	196.85	5	196.85	120		180	0.397	

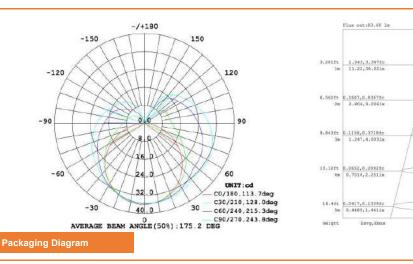
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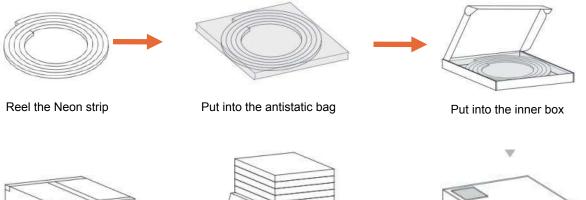
## 0817-12V Flexible Side Bend Planar Neon Strip of IP66

#### **Profile Drawings**



**Light Distribution** 







Pack into the outer carton

Put into the outer carton

10.05ft 305,38cm

20.1ft 612.77cm

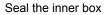
30.16ft 919.15cm

40.21ft 1225.54cm

50.267t

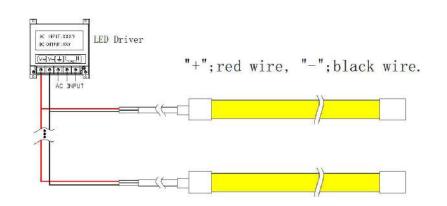
Dispeter

Angler111,73deg

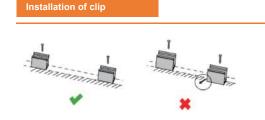


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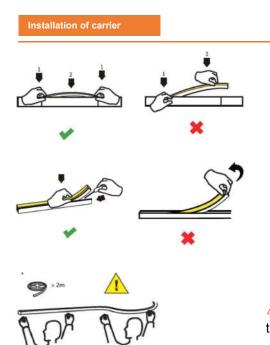
**Connection Instruction** 



Note: Please make sure the poles of the product are correctly connected to those of the power supply.



Use screws to fix the clips or carriers on the mounting position.  $\triangle$ Notes: 3 clips can be used for 1m.

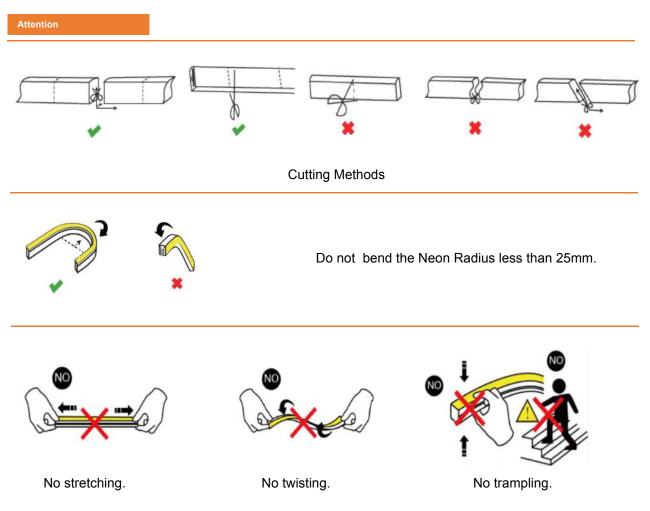


1. When install the Neon, install it from both ends at the same time, install from one direction is prohibited.

2. Use tool to disassemble carefully, and do not pull the Neon directly.

△Notes: If the length of Neon is over 2m, it is recommended to install by two persons.

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#### Troubleshooting

Malfunctions	Possible Causes	Solutions			
	The power supply did not connect to power grid.	Power on.			
All LEDs Stopped Working	Broken-circuit or Short-circuit.	Troubleshoot the problems and power on again.			
	The wires of strips connect to the power supply terminal reversely.	Check the connection and ensure the polarity of the wires is connected correctly.			
Part of LEDs Stopped	Part of power supplies have output failure.	Check the power supply system.			
Working	Part of wires of strips have breakdown.				
	Reverse connection of polarity.	Correct connection.			
	Overloaded power supply.	Replace it with a powerful one.			
LEDs Too Weak or Uneven	Excessive power loss of the circuit or the power loss of each circuit differs a lot.	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 larger diameter. 2. Ensure the cascading qty of each circuit does not exceed the allowed range and is well distributed.			
	Excessive cascading qty in series.	Adjust the cascading qty for strip to ensure the qty for each electrical circuit is within the maximum cascading qty.			
LEDs Flickering	Exposed or loose joints of wires.	Find out and tackle malfunction immediately.			
	Failures in power supply.	Replace it with a new one.			

#### Declaration

- If the external flexible cable is damaged, please replace it from its manufacturer, service agent, or qualified person to avoid a hazard.
- For 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 exist slight differences compared with actual products.
- All Illustrations in this specification are for reference only.
- This product is subject to change or modification without prior notice.
- RISHANG OPTOELECTRONICS CO., LTD. Reserves the right of a final explanation for this specification.

Revision History			
Version	Revised by	Revised item	Release date
V7.0	Wei Fan Song	first release	June.04.2023