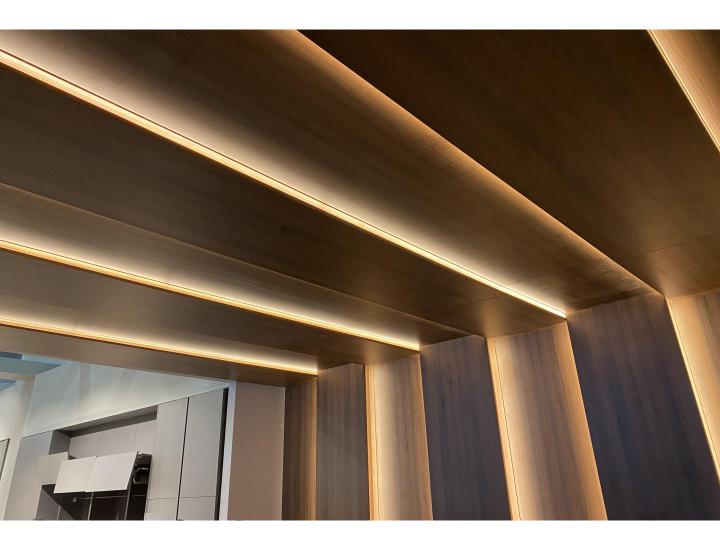
Linear Lighting – RL08C0TC-4

120 LEDs/m-24V-8mm Flexible Strip for10 Meters Driven by Single-End Power Supply

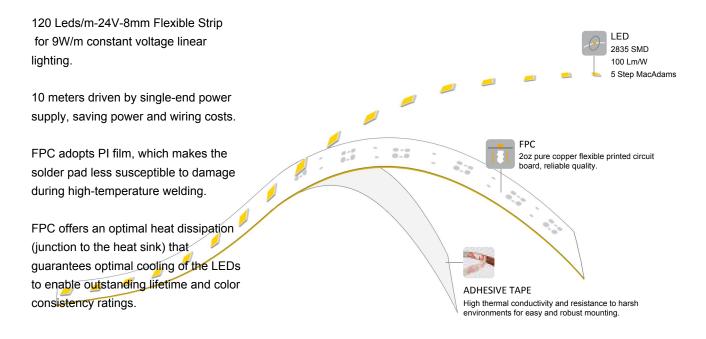


Technical Application Guide



Version: 7.0 Issued on: August 16th , 2023

120 LEDs/m-24V-8mm Flexible Strip for 10 Meters Driven by Single-End Power Supply



Reliability

Category	Item	Reference Standards	Test Conditions	Result
ID grade test	Waterproof test	GB/T 4208IEC 60529	25±2°C @≤65%RH	IP20 IP54 IP65
IP grade test	Dustproof test	GB/T 4208IEC 60529	25±2°C @≤65%RH	IP65 IP67 IP68
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 → 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 60068-2-2		Ta=70°C @ RH=90%	Pass
	UV test	GB/T 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

120 LEDs/m-24V-8mm Flexible Strip for 10 Meters Driven by Single-End Power Supply





Image: Second second



P/N	Dimensions	(L x W x H)	Cuttir	ıg unit (L2)	Number of LEDs		
RL08C0TC-4	10000*8*1.4mm	393.7*0.31*0.06inch	50mm	1.97inch	120 /m	36/ft	
						A: 8 [0.31] .1: 8.33 [0.33] .2: 50 [1.97]	

Protection Level:		UP 54	IP 54	IP 65	IP 65	IP 67	IP 68
Available	Non-	Silicone	Gel	Silicone	Silicone	Silicone	Silicone
	protective	Spray	Coating	Spray	Tube	Filling	Extrusion

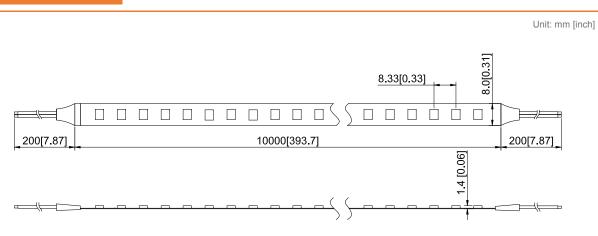
Basic Parameters :

	LED	сст (к)	сст (К)			Beam	Luminous			Working	_	Working current (mA)	Power (W/m)	
D/N	D/N	Color	WL (nm)		SDCN		Angle(°)	Flux (Lm/n		Efficacy (Lm/W)	voltage (V DC)		1m[39.37i n]	1m[39.37 n]
RL08C0TC-4	White	3000	≥90	≤5		≥115	765		85	24		375	9	
RL08C0TC-4	White	4000	≥90	≤5		≥115	810		90	24		375	9	
RL08C0TC-4	White	6500	≥90	≤5		≥115	792		88	24		375	9	
				Total		Total weight			Outer carton					
P/N	Qty (m/reel)	Qty (m/reel)	(n	Qty n/carton)	Qty		TOTATW	eigint	len	gth	width	ı	h	eight
	(,	(m)	(K	g)	(lb)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch	
RL08C0TC-4	10		50	500	10	.5	23.15	460	18.11	370	14.57	255	10.04	
P/N	IP Te		ating rature	Storage Temperatu	re	Standa	ard length	Max	c. cascading length	LED Qty		Weig	jht	
	Grade	(°C)	(ፑ)	(°C)	(۴)	(m)	(inch)	(m)	(inch)	(pcs)		(g/m)	(lb/m)	
RL08C0TC-4	IP20	-25~	-13~	-25~ -1	3~	10	393.7	10	393.7	120		19	0.042	
120000101	11 20	+60	+140	+70 +1	158	10 000	200.1			120		10 0.042		

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120 LEDs/m-24V-8mm Flexible Strip for 10 Meters Driven by Single-End Power Supply

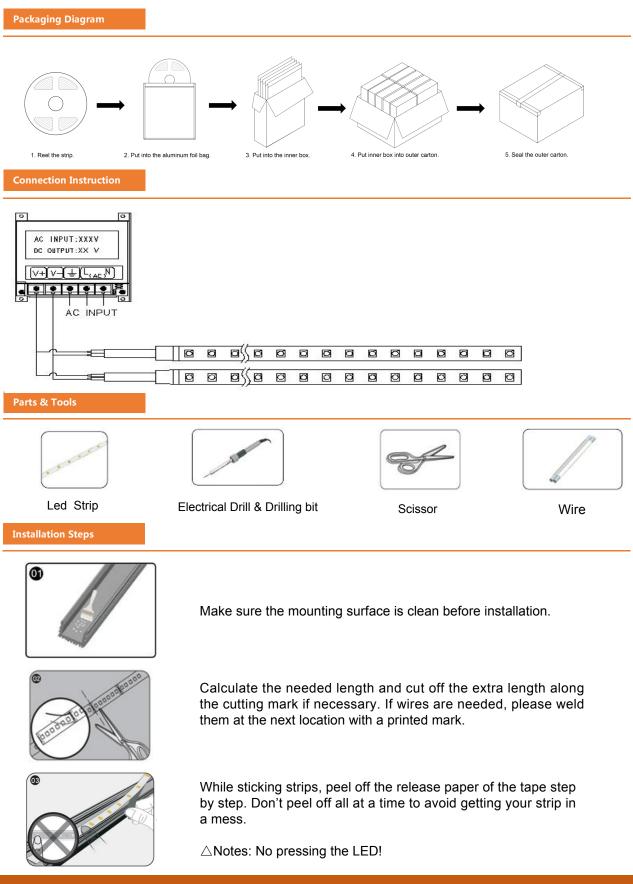
Profile Drawings



Optional Parts

Category			Specifications/Description	Article Number	Color	IP Grade	Notes
Snap-fit joints			Snap-fit joints /23.5*4*2mm/QJ-KZ-10 (equipped with screws)	207-076	1	/	1
	Connector	- proce	8mm width, single color, IP20 LED strips/ cable- board connector /16*10.4*4.5mm	1CN-07- 070	1	I	1
_	Connector	E DE CAR.	8mm width, single color, IP20 LED strips/board- board connector/20.6*11*4.6mm	1CN-07- 072	1	1	1
Connector Connector Terminal Connector	Connector	/	Connector /board-cable-board /8mm LED strips /16*10.4*4.5mm/QJ-SL-10BXB-2	1CN-07- 071	1	1	1
		8mm width, single color, IP20 LED strips/ cable- board connector/24.27*14.6*7.66mm/SE-N8XB- 2	1CN-07- 116	/	/	/	
		Connector /cable-cable /25*6.7*6.65mm/1P/QJ- XC-JXD-D1	1CN-07- 065	1	1	1	
	Connector		Connector / cable-cable /25*10.6*6.65mm/2P/QJ-XC-JXD-H2	1CN-07- 066	1	1	1
_	Connector	- And	Connector / cable-cable /25*12.8*6.65mm/1P/QJ-XC-JXD-T1	1CN-07- 067	1	1	1
Connector	and the second second	Connector / cable-cable /28.6*16.6*6.65mm/2P/QJ-XC-JXD-T2	1CN-07- 068	1	/	1	
	Connector	<i>6</i>	Connector / cable-cable /22*9.5*6mm/2P/QJ- XC-JXD-D2	1CN-07- 069	1	1	1

120 LEDs/m-24V-8mm Flexible Strip for 10 Meters Driven by Single-End Power Supply

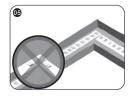


120 LEDs/m-24V-8mm Flexible Strip for 10 Meters Driven by Single-End Power Supply

Installation Steps



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



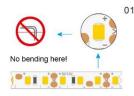
The installation at the corner is shown as the figure.

 \triangle Notes: No bending it into right angle; No twisting it to stick on the mounting surface.



Installation Attention

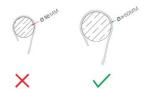
Connect strip wires to the output terminal of the power supply, and dispose with waterproof, insulation, short-circuit, and anticorrosion protection at wire joints and cut section of your strip (if any).



Do not bend the strip at the position of LED SMD.



Do not twist the strip.



Do not wind the strip with a diameter <5cm.

120 LEDs/m-24V-8mm Flexible Strip for 10 Meters Driven by Single-End Power Supply

Troubleshooting

		1			
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.			
	Exposed or loose joints of wires.	Find out and tackle malfunction immediately.			
LEDs Flickering	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 difference 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				