V2.0

Product Specification

Neon Flex

Horizontal Bending Multi-Color Series

(Type TA)

WW-FLS201T50FC084TA-24(WCP)-V-1018-XX-IC

HK Office :
Unit 1901, 19th Floor, NanYang Plaza, No. 57 Hung To Road
Kwun Tong, Kowloon, Hong Kong

Tel : (852) 3152 3059 (10 lines)
Fax : (852) 3152 3039

China Factory :
Zhiyang Science and Technology Park, 10 Zhiyang Road, Zhangge,
Fucheng Street, Longhua District, Shenzhen, Guangdong, China

Tel : (86) 755 8601 9190
Fax : (86) 755 8601 9197

Product Features

- High quality FPC
- Dilux self-encapsulated LED
- Light source lifetime:50K hours
- Horizontal bending
- High quality silicone material
- IP67&IP65 waterproof
- Min.Bending Diameter:Φ100mm
- Single-ended power supply maximum length：5m





Technology info

- Lighting Technology: LED
- DLS or NDLS: NDLS
- MLS or NMLS: NMLS
- Type of light source: SMD5050
- Energy consumption KW/1000h/0.5M:8.4
- Beam angle：120°
- Survival factor（Annex V/EU2019-2020）:90%

Harmonised Standards

EMC

- EN55015:2013+A1
- EN61547:2009
- EN60598-1:2015
- EN60598-2-20:2015
- EN62493:2015
- EN62471:2008

Parameters

Test condition:

- Surrounding temperature: 26℃.
- Test while turning on.

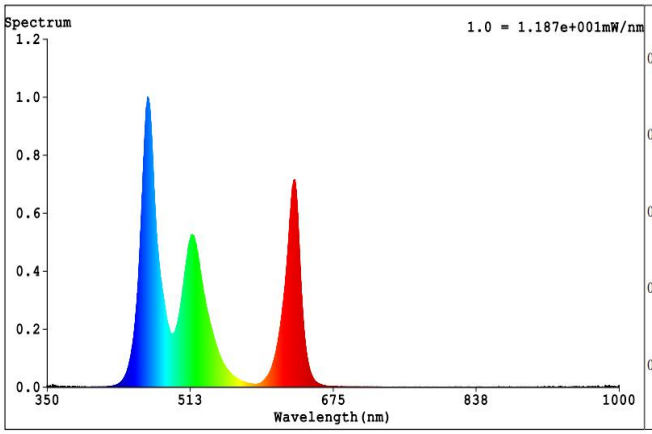
Model no.	CRI (Ra)	Rf	Rg	Typ. Power (W/M)	Max. Power (W/M)	Neon Strip Color Temp.	Neon Strip Color Temp.Range**	Typ.Luminous Flux LM / M(39.37in)	Rated voltage
WW-FLS201T50FC084TA-24(WCP)-V-1018-XX-IC	/	/	/	16.8	18.48	Red	620-630	40	24V
						Green	515-525	13	
						Blue	465-475	20	

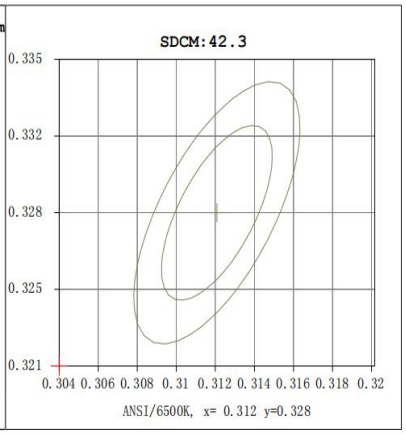
Remark：

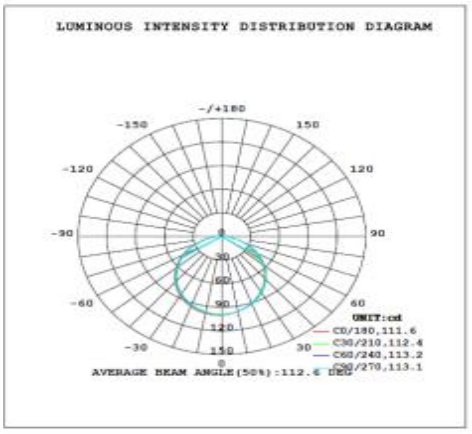
- **The above color temperature represents the color temperature range of Neon strip;
- The lumen value tolerance range is ±20% (subject to the manufacturer's instrument test);

Optical Test Diagram

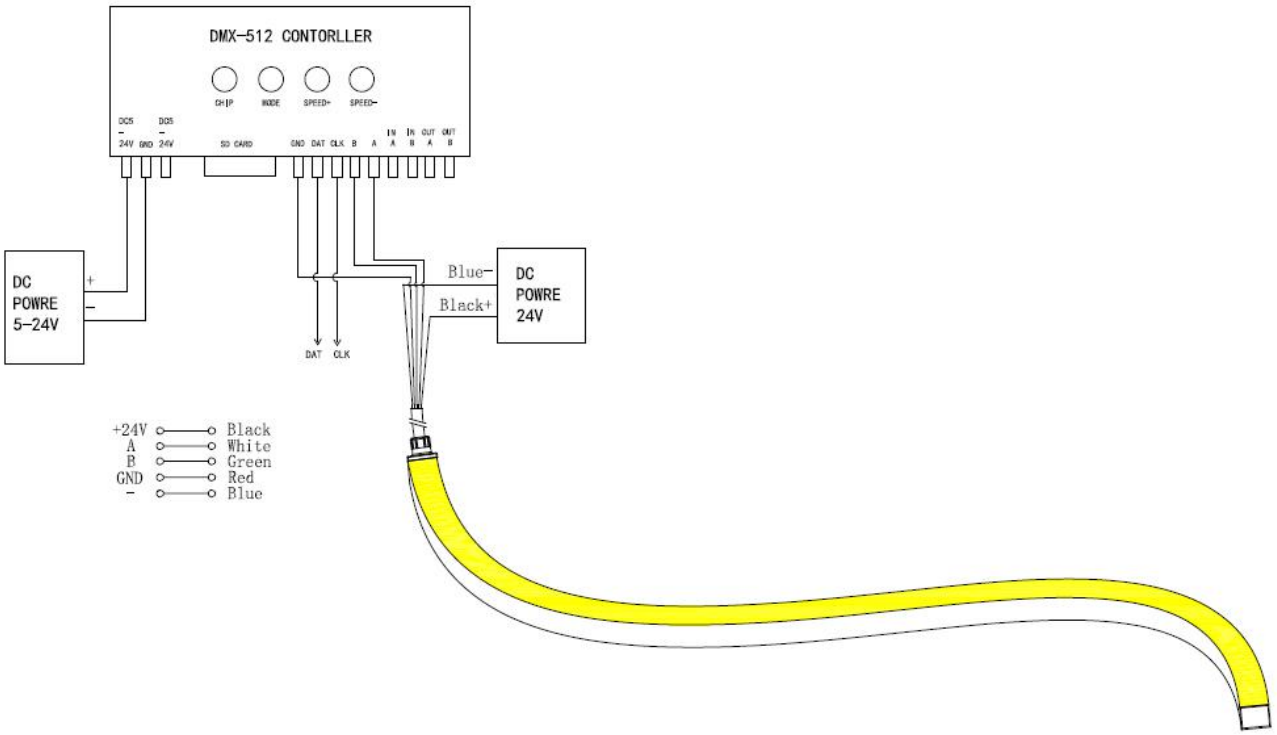
Neon Flex



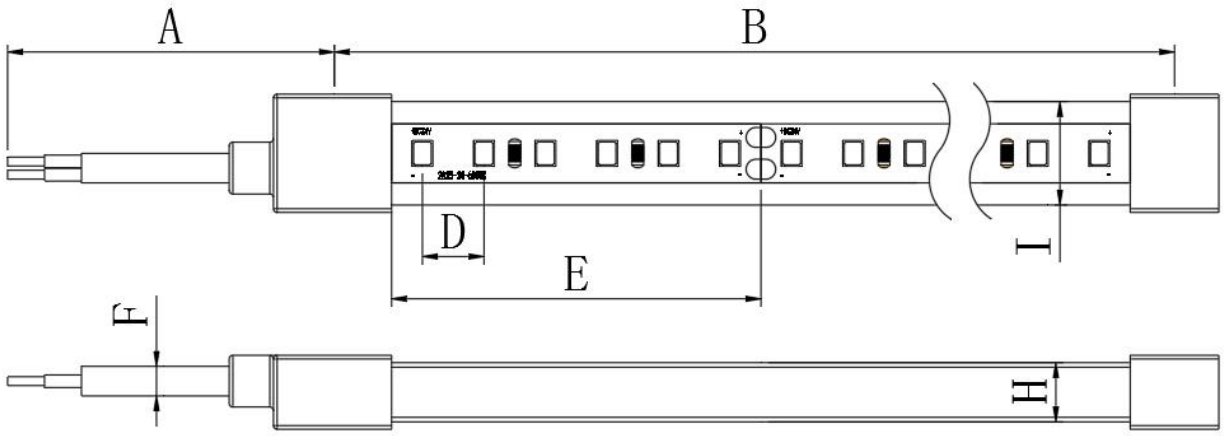




Circuit Diagram

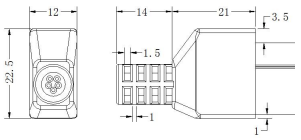
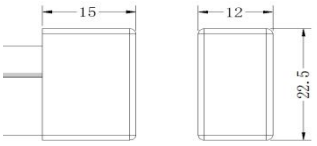
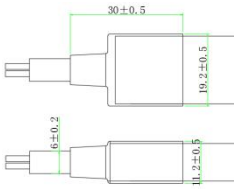
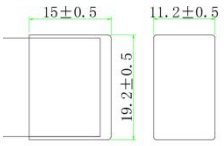
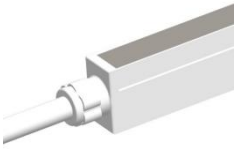
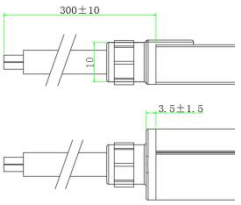
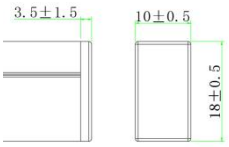


Dimension Drawing



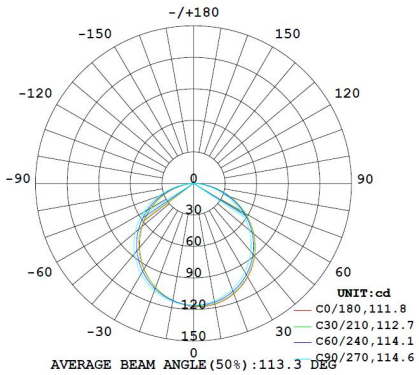
A Cable Length	B Strip length	D Distance of LEDS	E Cutting unit	F Cable diameter	H Strip thickness	I Strip width
300±10mm	5000±50mm	11.9±0.2mm	83.3±0.2mm	6.0±0.2mm	10±0.5mm	18±0.5mm

Front & end caps

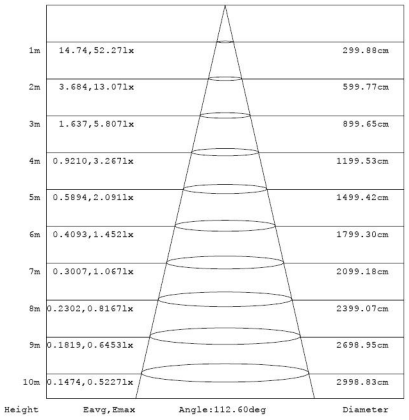
Cable Types	Model No.	Image	Dimension	IP Rating
Double Injection	TA10X18-TS			IP67
				
Same Width	TA10X18-TT2			IP65
				
Double Injection	TA10X18-TS2			IP65
				

Optical Parameters

Distribution Curve Flux

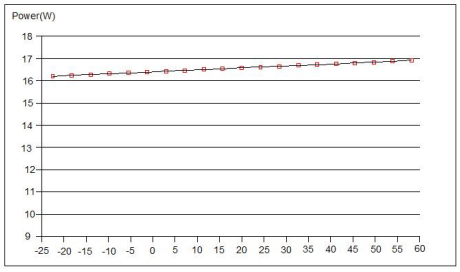


Illuminance

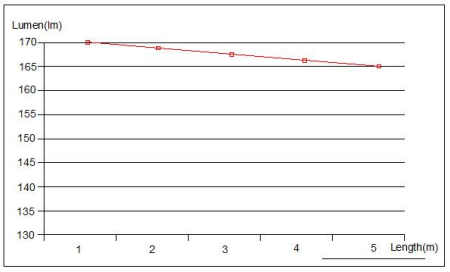


Figures of typical characteristics

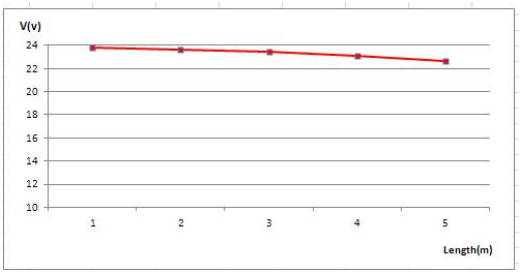
Relation of Working Temperature and Power



Relation of luminous flux and strip length (Only suitable for white series)



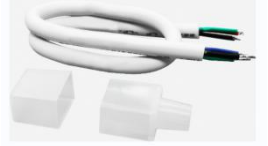
Relation of operating voltage and strip length



Standard Accessories

Image	Part No.	Description
	WW-T0912-0025(1000S)	Installation accessories set (Stainless steel mounting buckle, screws)

Optional Accessories

Image	Part No.	Description
	WW-AP1712-200	Aluminum Profile: L2000*W11.6*H17mm
	WW-FLS103TA-CW(10mm)-TT2(RGB)	Cutting accessories set (Front & end cap, power cord)

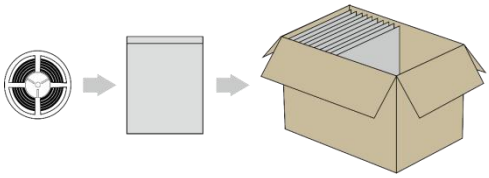
Packaging

Solution 1：
For Product Length≤5M



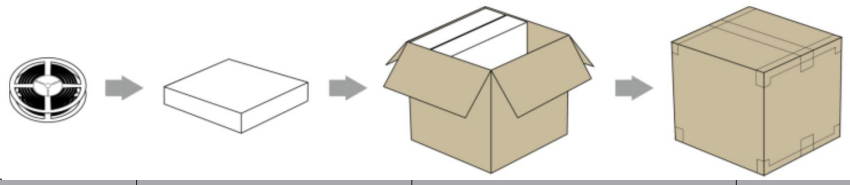
Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65/IP67	/	/	/	440*400 *260mm	10	10.14 KG ±10%	13.55KG ±10%	0.04576M³
	/	/	/	17.32*15.748 *10.236 in	10	22.36 Lbs ±10%	29.87Lbs ±10%	1.616ft³

Solution 2：
For Product Length=5M



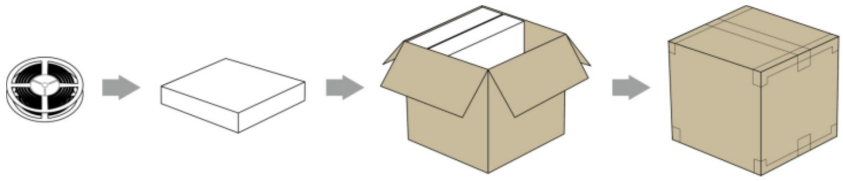
Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65/67	470*420*0.14mm	/	/	440*400 *260mm	7	7.10KG ±10%	10.54KG ±10%	0.0457M³
	18.50*16.53*0.005in	/	/	17.32*15.75 *10.236 in	7	15.65 Lbs ±10%	23.23 Lbs ±10%	1.616ft³

Solution 3：
For Product Length=10M



Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65/IP67	330*50mm	345*330*61mm	1	362*265*350mm	4	8.11KG ±10%	12.04KG ±10%	0.0335m3
	12.99*1.96in	13.58*12.99*2.4in	1	14.25*10.43*13.77in	4	17.88Lbs ±10%	26.55Lbs ±10%	1.185ft3

For Product Length=20M



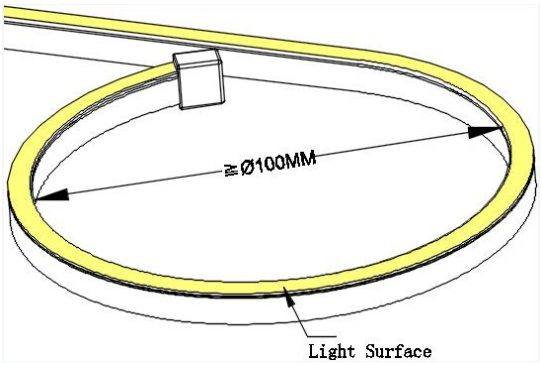
Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65/IP67	330*50mm	345*330*122mm	1	362*265*350mm	2	7.70KG ±10%	11.43KG ±10%	0.0335m3
	12.99*1.96in	13.58*12.99*4.8in	1	14.25*10.43*13.77in	2	16.98Lbs ±10%	25.21Lbs ±10%	1.185ft3

Remarks :

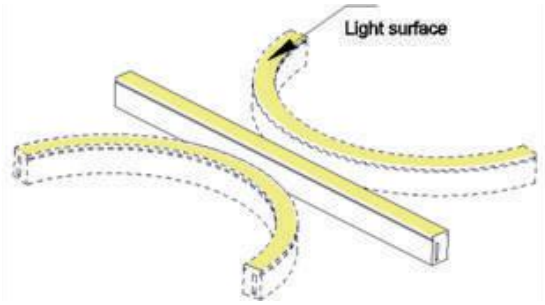
- Please contact our sales manager for customized package (color box, blister etc.)

Instruction of Removal Light Source

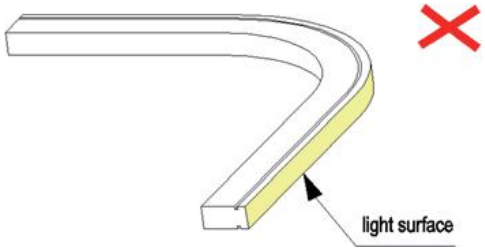
1.Do not bend smaller than allowed minimum bending diameter



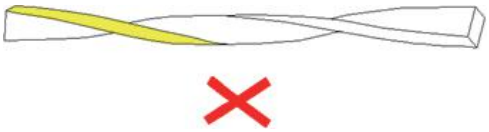
2.The neon strip can only be bent laterally (Along the FPC inside).



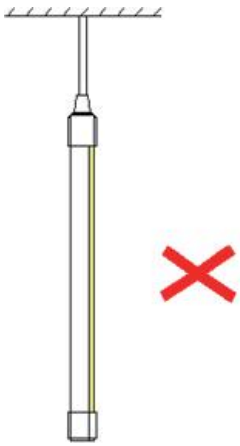
3.Don't bend the LED strip vertically, it will damage the circuit inside and cause product function failure.

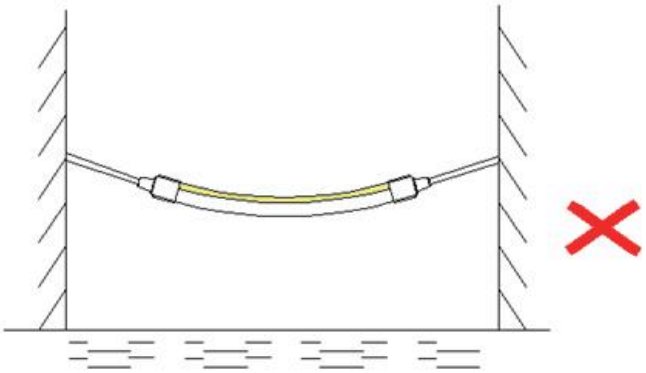


4.Don't twist the LED strip, it will damage the circuit inside and cause product function failure.



5、 Do not hang or suspend the Neon strip in the air.





6、 Press the neon flex into mounted aluminum profile in one direction (Angle between strip and aluminum<15 degrees).



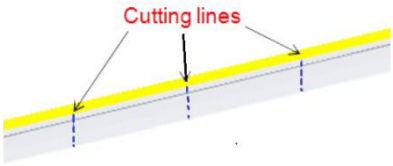
7、 Incorrect installation like below pictures could lead to product function failure.

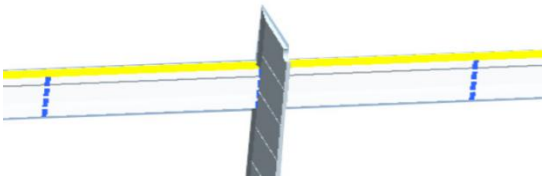


Cutting Instruction

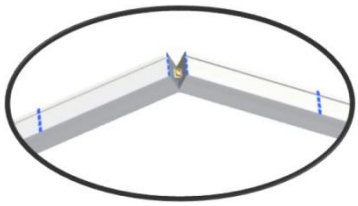
- The cutting line logo on the Neon strip marked by calculated dimension, it has a little bit deviation between internal cutting line marked on the PCB surface;
- Please follow the cutting guidance as below:

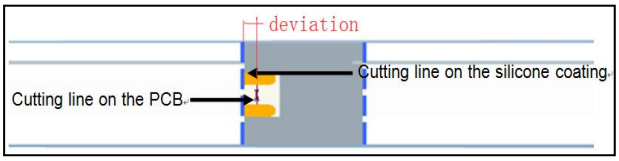
Step 1: Fine the cutting line on the silicone coating, slice the silicone coating vertically by knife along the cutting line, but do not hurt the PCB inside.





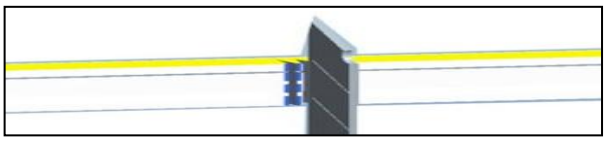
Step 2: Split the broken silicone coating and observe the deviation between "Cutting line on the PCB" and "Cutting line on the silicone coating side"



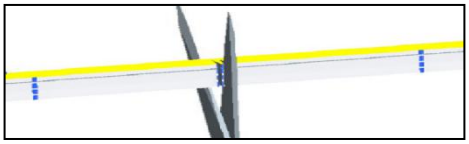


Step 3: Find the cutting line on the PCB, adjust to the exact cutting location and slice the silicone coating again.

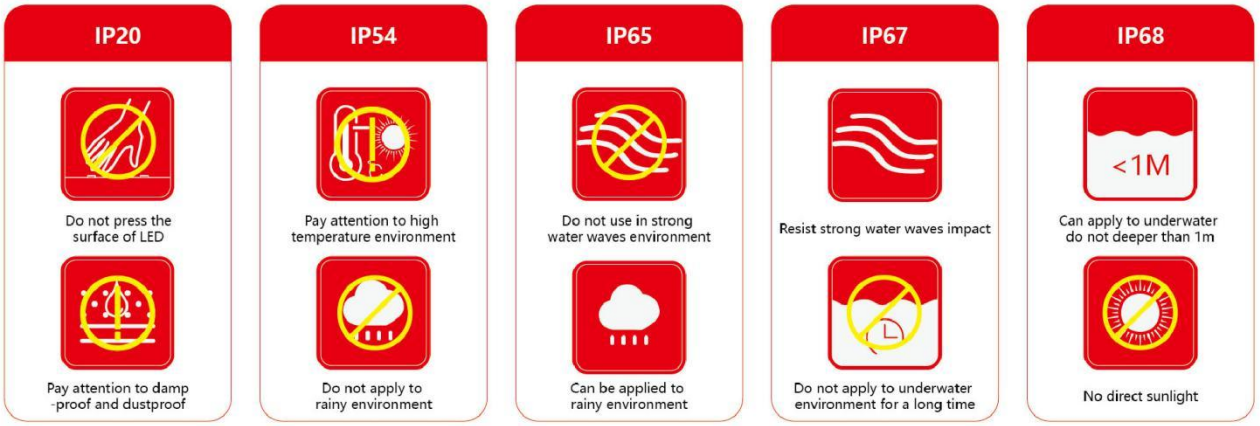


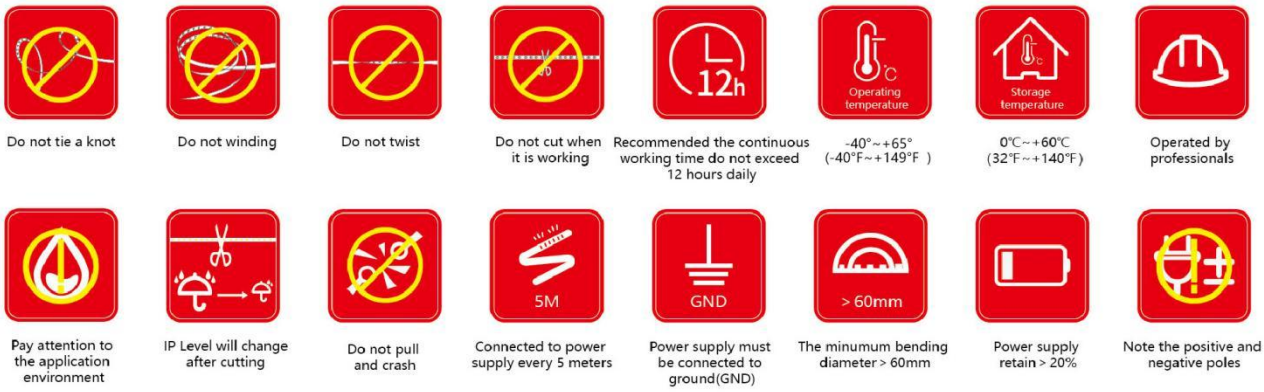


Step 4：Finally, use scissor to separate the Neon Flex along the cutting line on the PC



Cautions







For cutting LED strip operation, it is necessary to use the standard accessories provided by Dilux (e.g. DC wire, end-cap, front-cap, adhesive, etc.), and according to the correct cutting and connecting method for the installation.



For avoiding LED get vulcanized, LED strip should be installed in the environment where does not has oil and corrosive substances. Such as these substances which contain Sulphur、Bromine、Iodine and Chlorine. Some other chemical elements which will cause Aromatic hydrocarbons releasing(such as: methylbenzene、xylene、methyl acetoacetate Ethyl acetate etc.).The environment in which includes strong acid and strong base.



During the warranty period, only defective products are acceptable to be replaced by the factory. Factory is not responsible for other expenses because of replacement, such as transportation fee, installation fee, etc..

**** If you do not follow the above "Cautions" to operate and result in damaging the product, the factory will not accept maintenance and return.**
****The right of final interpretation is owned by Dilux.**

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