V2.0

Product Specification

Neon Flex

Vertical Bending Single Color Series

(Type TC)

WW-FLS102T23XX160TC-24(WCP)-UR-J-V-1616-TS
&
WW-FLS102T23XX160TC-24(WCP)-UR-J-V-1616-TS-EP

Apply to ERP Regulation (EU) 2019/2020

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

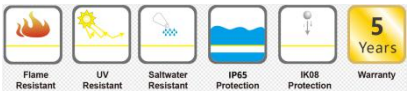
Tel : (852) 3152 3059 (10 lines)
Fax : (852) 3152 3039

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
- Light source removable
- Meet (EU) 2019/2020 ERP regulations
- Vertical bending
- High quality silicone material
- IP68 waterproof
- Min.Bending Diameter:Φ130mm
- Single-ended power supply maximum length：6m





Technology info

- Lighting Technology: LED
- DLS or NDLS: NDLS
- MLS or NMLS: NMLS
- Type of light source: SMD2835
- Energy consumption KW/1000h/0.5M:3.05
- Beam angle：110°
- 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 after 10 mins turned on.

Neon Flex											
Neon Flex Model No.	CRI (Ra)	Rf	Rg	Typ. Power (W/M)	Max. Power (W/M)	Color	Neon Flex Color Temp.(K) Wavelength(nm)	Typ. Luminous Flux LM/M(39.37in)	Lumen/ watt	Energy Efficiency class	Rated voltage
WW-FLS102T23WW160TC-24(WCP)-UR-J-V-1616-TS WW-FLS102T23WW160TC-24(WCP)-UR-J-V-1616-TS-EP	⩾90	92	100	6.1	6.71	Warm White	2700K	430	71	G	DC24V
WW-FLS102T23WW160TC-24(WCP)-UR-J-V-1616-TS WW-FLS102T23WW160TC-24(WCP)-UR-J-V-1616-TS-EP				6.1	6.71	Warm White	3000K	450	74	G	DC24V
WW-FLS102T23NW160TC-24(WCP)-UR-J-V-1616-TS WW-FLS102T23NW160TC-24(WCP)-UR-J-V-1616-TS-EP				6.1	6.71	Natural White	4000K	470	77	G	DC24V
WW-FLS102T23SW160TC-24(WCP)-UR-J-V-1616-TS WW-FLS102T23SW160TC-24(WCP)-UR-J-V-1616-TS-EP				6.1	6.71	Standard White	6000K	460	75	G	DC24V

Remarks:

- SDCM for light source: ≤6 (alternative ≤3).
- The typ. Luminous flux tolerance range is ±10% (subject to the manufacturer's instrument test).

ErP Note:

- Measured power ≤ Pon +5% ;
- Measured lumen ≥Useful luminous flux -10%;
- Measured CRI ≥ Declared CRI-2
- The above technical data, including typical power are based on the test of 0.5m.

Parameters

Test condition:

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

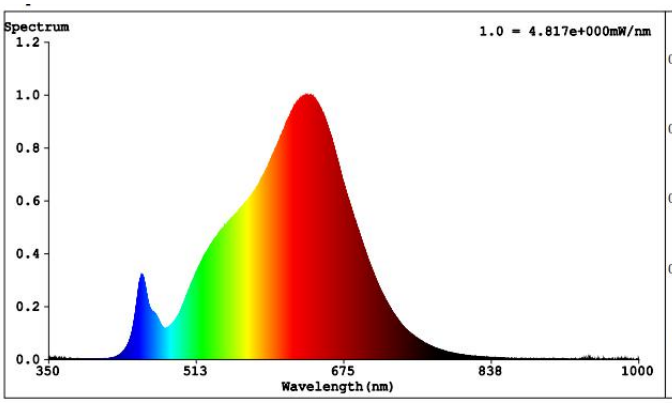
Neon Flex Model No.	CRI (Ra)	Rf	Rg	Typ. Power (W/M)	Max. Power (W/M)	Color	Neon Flex Color Temp.(K) Wavelength(nm)	Typ. Luminous Flux LM/M(39.37in)	Lumen/watt	Rated voltage
WW-FLS102T23WW160TC-24(WCP)-UR-J-V-1616-TS WW-FLS102T23WW160TC-24(WCP)-UR-J-V-1616-TS-EP	⩾90	92	100	5.9	6.49	Warm White	2700K	410	70	DC24V
WW-FLS102T23WW160TC-24(WCP)-UR-J-V-1616-TS WW-FLS102T23WW160TC-24(WCP)-UR-J-V-1616-TS-EP				5.9	6.49	Warm White	3000K	430	73	DC24V
WW-FLS102T23NW160TC-24(WCP)-UR-J-V-1616-TS WW-FLS102T23NW160TC-24(WCP)-UR-J-V-1616-TS-EP				5.9	6.49	Natural White	4000K	450	76	DC24V
WW-FLS102T23SW160TC-24(WCP)-UR-J-V-1616-TS WW-FLS102T23SW160TC-24(WCP)-UR-J-V-1616-TS-EP				5.9	6.49	Standard White	6000K	440	74	DC24V

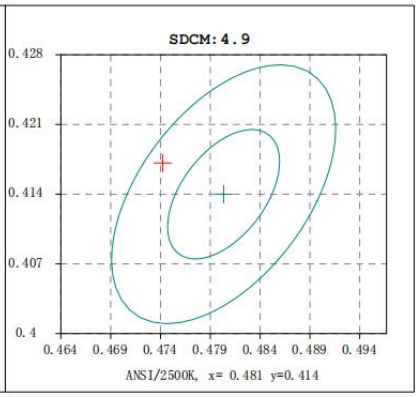
Remarks:

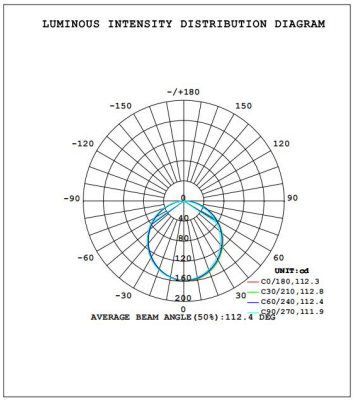
- SDCM for light source: ≤6 (alternative ≤3).
- The typ. Luminous flux tolerance range is ±10% (subject to the manufacturer's instrument test).

Optical Test Diagram

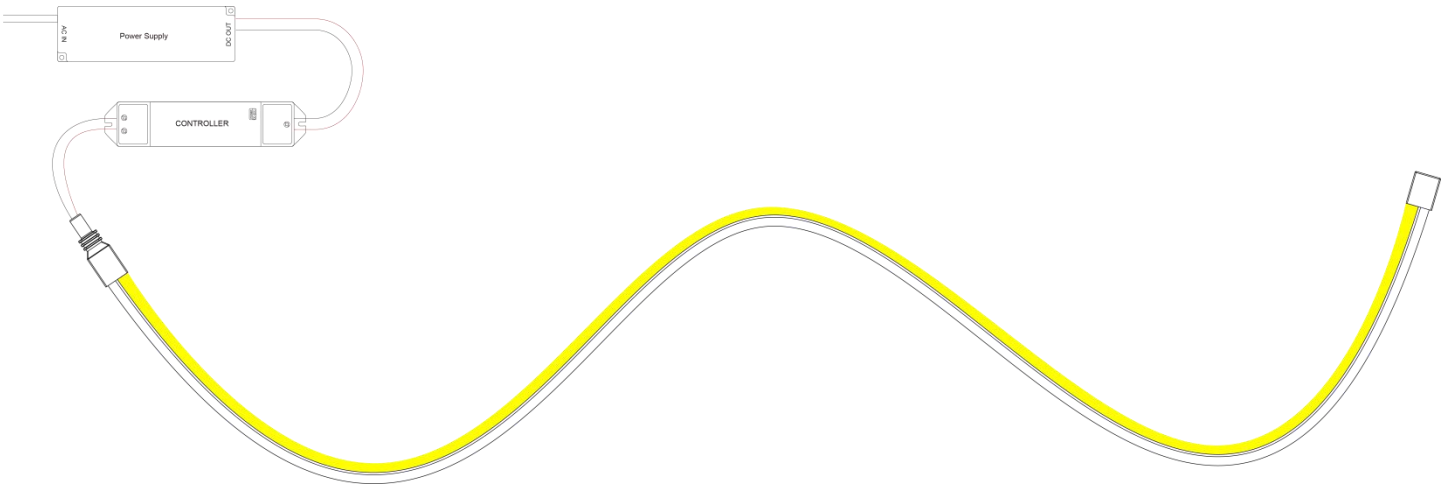
Neon Flex





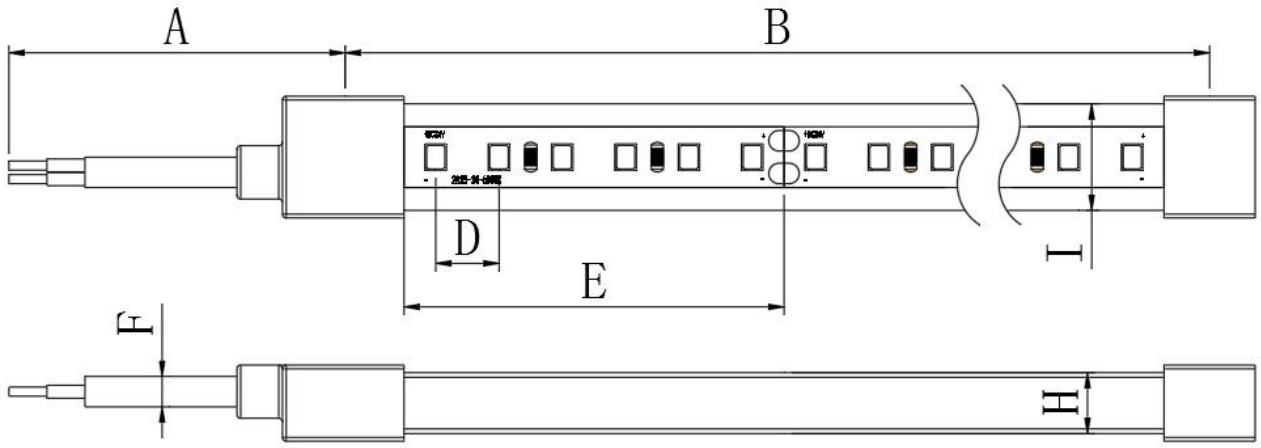


Circuit Diagram



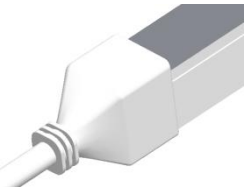
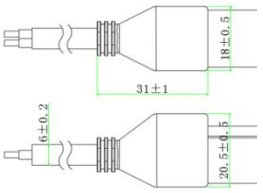
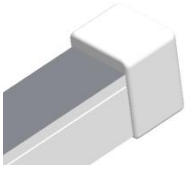
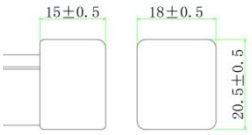
Dimension Drawing

Neon Flex



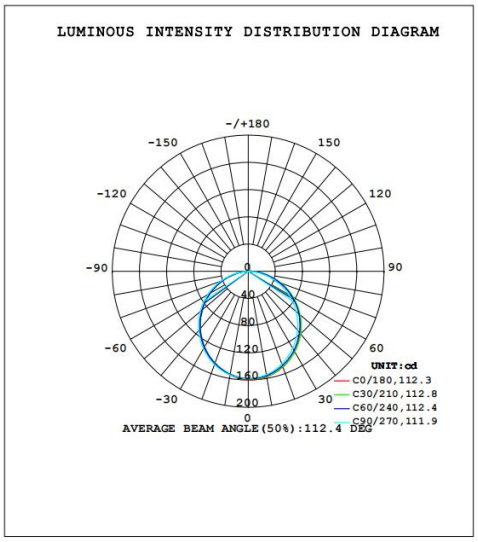
A Cable Length	B Strip length	D Distance of LEDS	E Cutting unit	F Cable diameter	H Strip thickness	I Strip width
300±10mm	5000±50mm	6.25±0.2mm	50±0.2mm	6.0±0.2mm	16±0.5mm	16±0.5mm

Front & end caps

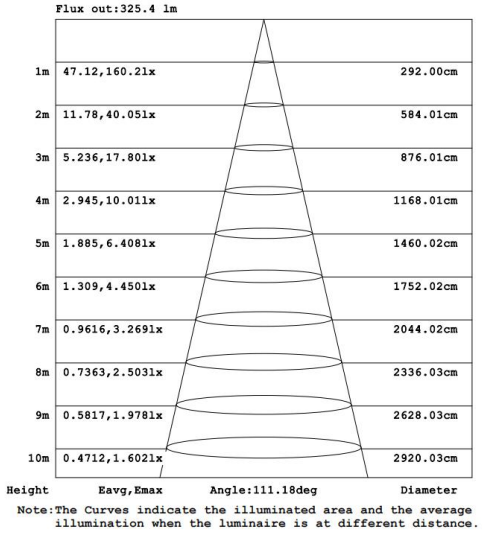
Cable Types	Model No.	Image	Dimension	IP Rating
Same Width	WW-FLS102T23XX160TC-24(WCP)-UR-J-V-1616-TS WW-FLS102T23XX160TC-24(WCP)-UR-J-V-1616-TS-EP			IP68
				

Optical Parameters

Distribution Curve Flux

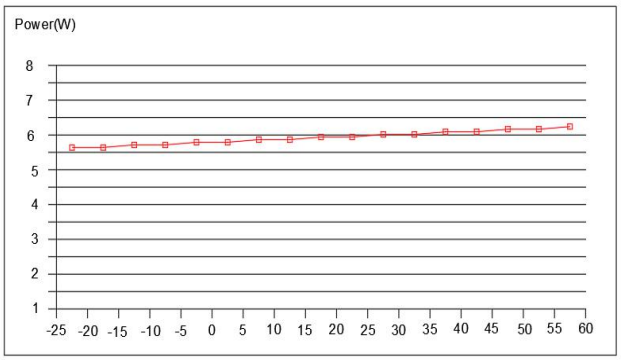


Illuminance

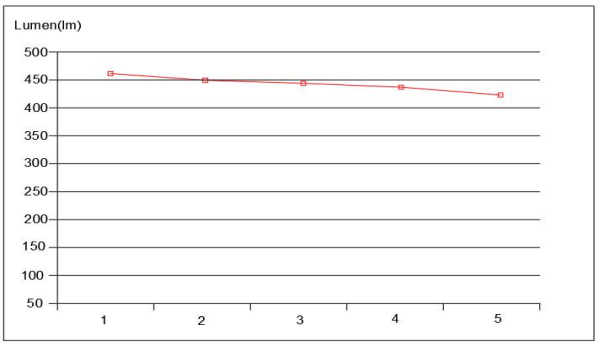


Figures of typical characteristics

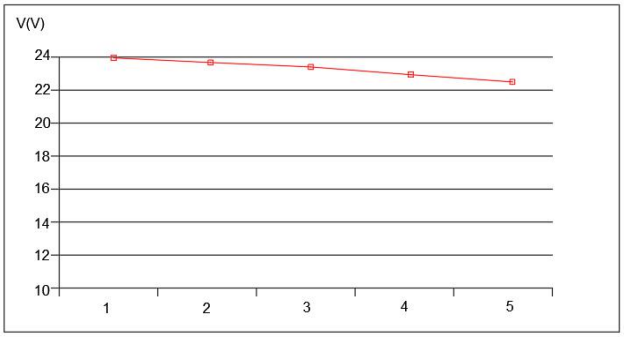
Relation of Working Temperature and Power



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-AP1820-0025	Installation accessories set (PC mounting clips, screws)

Optional Accessories

Image	Part No.	Description
	WW-AP1820-200	Aluminum Profile: L2000*W18.4*H20.1mm
	WW-FLS102TC-CW(16mm)-TT2	Cutting accessories set (Front & end cap, power cord)

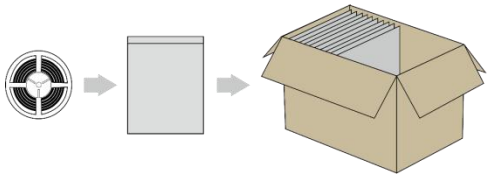
Packaging

Solution 1：
For Product Length≤5M



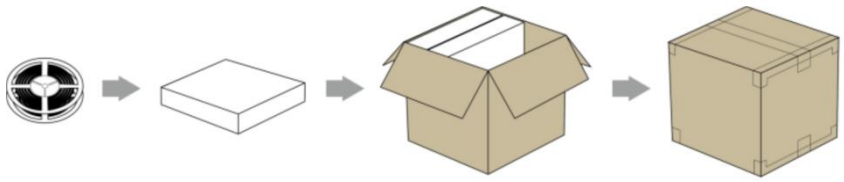
Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65/67	/	/	/	440*400 *260mm	15	19.05 KG ±10%	21.19KG ±10%	0.04576M^3
	/	/	/	17.32*15.748 *10.236 in	15	41.99 Lbs ±10%	46.71Lbs ±10%	1.616ft^3

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*440*0.14mm	/	/	440*400*260mm	7	8.89KG ±10%	12.36KG ±10%	0.05772m^3
	18.5*17.32*0.006 in	/	/	17.32*15.75 *10.24 in	7	19.59Lbs ±10%	27.26 Lbs ±10%	1.616ft^3

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	10.16KG ±10%	13.41KG ±10%	0.0335m3
	12.99*1.96in	13.58*12.99*2.4in	1	14.25*10.43*13.77in	4	22.39Lbs ±10%	29.56Lbs ±10%	1.185ft3

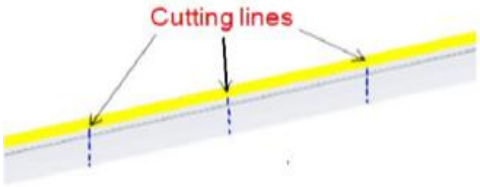
Remarks :

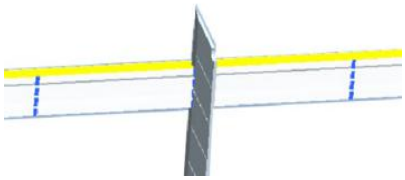
- Please contact our sales manager for customized package (color box, blister etc.)

Cutting Instruction

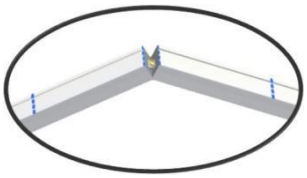
- The cutting line logo on the Neon strip marked by calculated dimension, it has a little bit deviation between internal cutting line marked on the PCB surface;
- Please follow the cutting guidance as below:

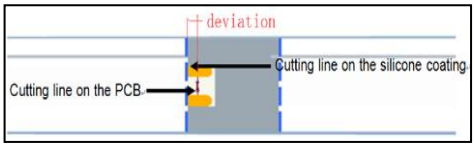
Step 1: Fine the cutting line on the silicone coating, slice the silicone coating vertically by knife along the cutting line, but do not hurt the PCB inside.



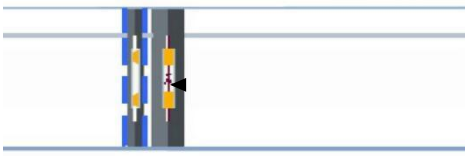


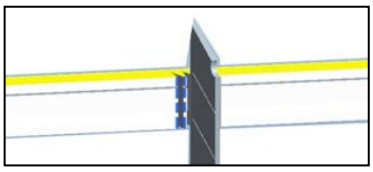
Step 2: Split the broken silicone coating and observe the deviation between "Cutting line on the PCB" and "Cutting line on the silicone coating side"



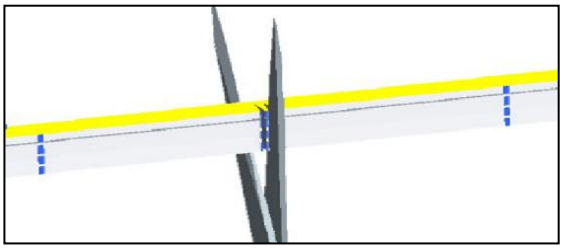


Step 3: Find the cutting line on the PCB, adjust to the exact cutting location and slice the silicone coating again.



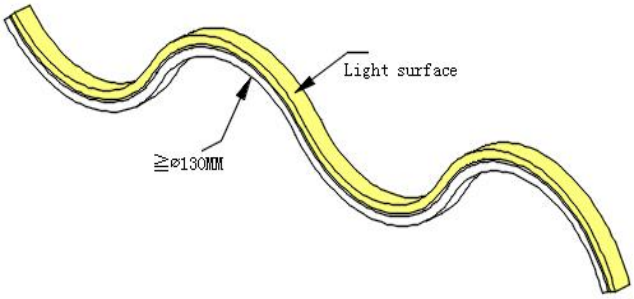


Step 4：Finally, use scissor to separate the Neon Flex along the cutting line on the PCB.

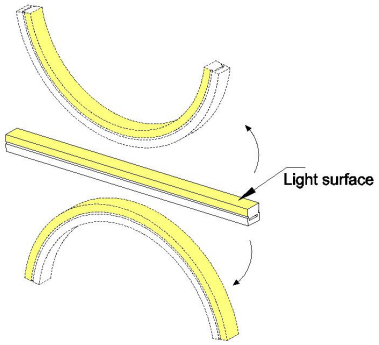


Installation Guidance

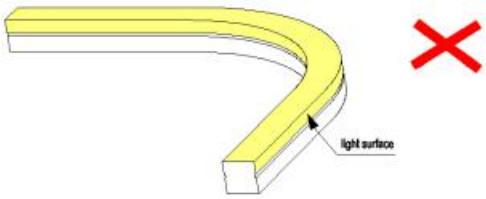
1.Do not bend smaller than allowed minimum bending diameter



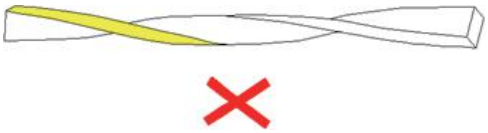
2.The neon strip can only be bent laterally (Along the FPC inside).



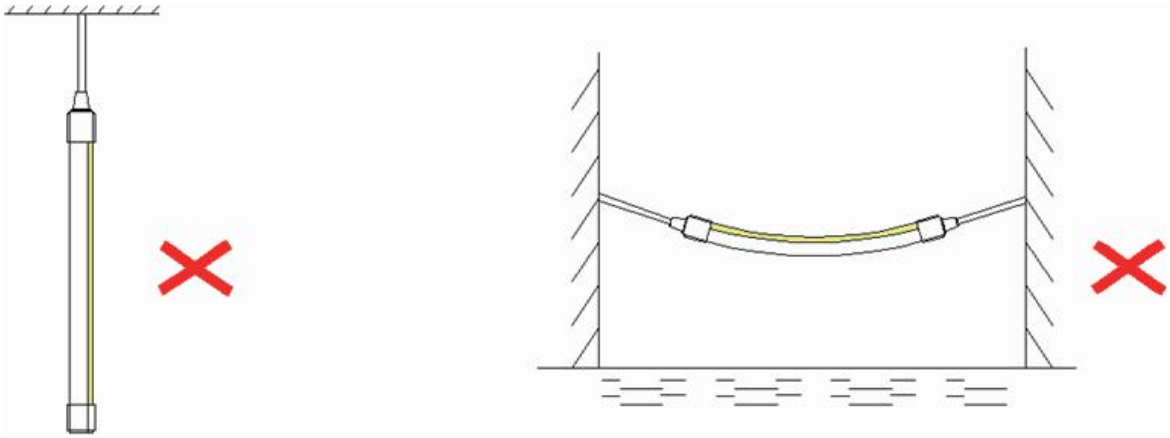
3.Don't bend the LED strip vertically, it will damage the circuit inside and cause product function failure.



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.



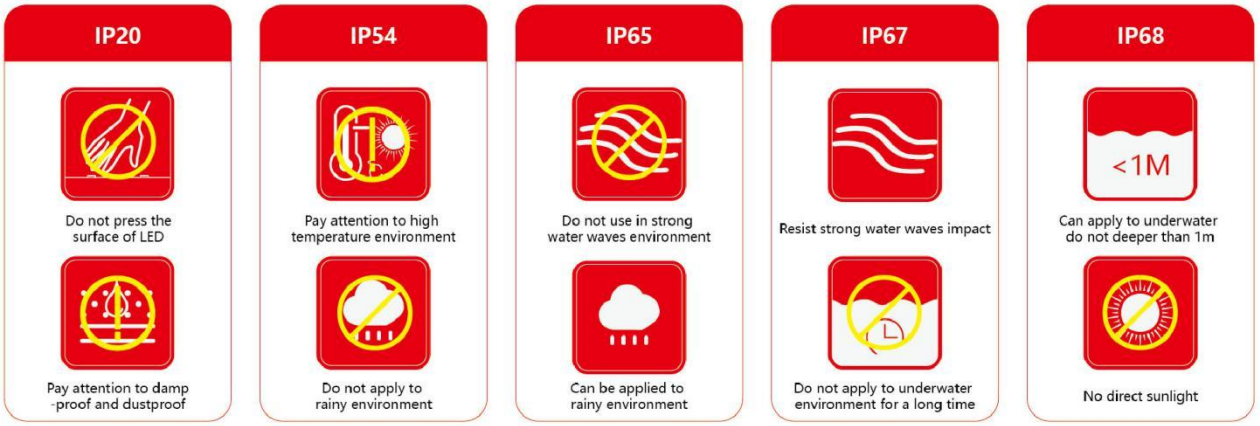
6 、 Press the neon flex into mounted aluminum profile in one direction (Angle between strip and aluminum<15 degrees).

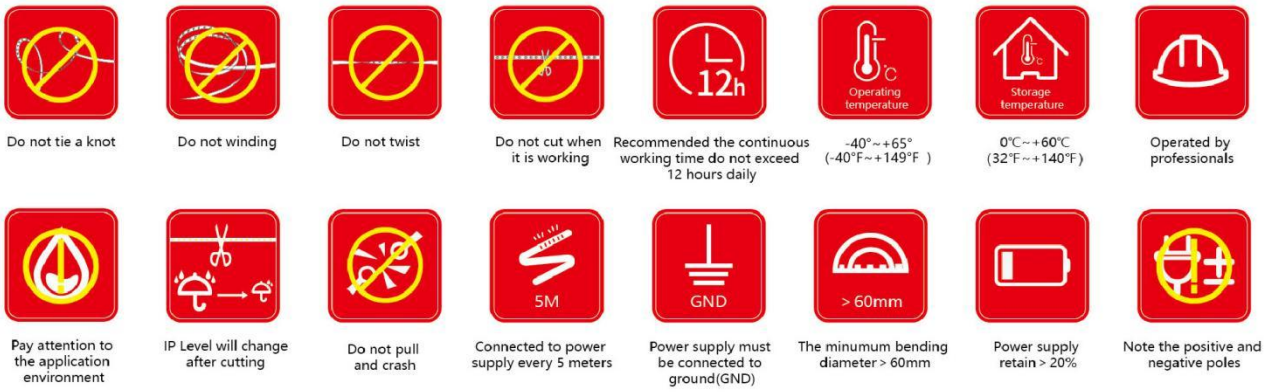


7 、 Incorrect installation like below pictures could lead to product function failure.



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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