V1.0

Product Specification

Neon Flex

Pro 1616 3D Bending Neon

WW-FLS102T28WW126TF-24(WCP)-UR-1616-XXX
WW-FLS102T28WW126TF-24(WCP)-UR-1616-XXX-EP

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Product Features

- High quality FPC
- Dilux self-encapsulated LED
- Light source lifetime:50K hours
- 3D bending
- High quality silicone material
- IP65 waterproof
- Min.Bending Diameter:Φ200mm

Technology info

- Lighting Technology: LED
- Type of light source: SMD2835
- Energy consumption KW/1000h/0.5M:5.9W
- Beam angle：120°
- Survival factor（Annex V/EU2019-2020）:90%

Harmonised Standards

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

Parameters for non-ErP

Test condition:

- Surrounding temperature: 26℃.
- Test while turning 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)	Rated voltage
WW-FLS102T28WW126TF-24(WCP)-UR-1616-XXX	≥90	90	100	12	13.2	Warm White	2700K	550	DC24V
WW-FLS102T28WW126TF-24(WCP)-UR-1616-XXX	≥90	90	100	12	13.2	Warm White	3000K	550	DC24V
WW-FLS102T28NW126TF-24(WCP)-UR-1616-XXX	≥90	90	100	12	13.2	Natural White	4000K	580	DC24V
WW-FLS102T28SW126TF-24(WCP)-UR-1616-XXX	≥90	90	100	12	13.2	Standard White	6000K	560	DC24V

Remarks:

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

Parameters for Removal Light Source (for ErP)

Test condition:

- Surrounding temperature: 26 ℃.
- Test after 10 mins turned on.

Removal of Light Source											
Neon Flex Model No.	CRI (Ra)	Rf	Rg	Typical Power (W/M)	Max. Power (W/M)	Color	LED Color Temp.(K) Wavelength(nm)*	Typ. Luminous Flux LM/M(39.37in)	Lumen/watt	Energy Efficiency class	Rated voltage
WW-FLS102T28WW126TF-24(WCP)-UR-1616-XXX-EP	⩾90	92	100	11.8	13	Warm White	3100K	1260	107	F	DC24V
WW-FLS102T28WW126TF-24(WCP)-UR-1616-XXX-EP				11.8	13	Warm White	3500K	1260	107	F	DC24V
WW-FLS102T28NW126TF-24(WCP)-UR-1616-XXX-EP				11.8	13	Natural White	4700K	1320	112	E	DC24V
WW-FLS102T28SW126TF-24(WCP)-UR-1616-XXX-EP				11.8	13	Standard White	8000K	1260	107	F	DC24V

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 for Removal Light Source (for non-ErP)

Test condition:

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

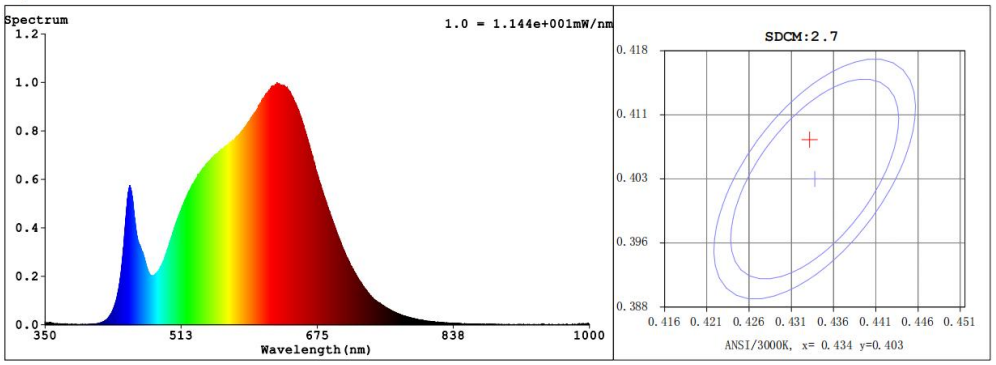
Removal of Light Source									
Neon Flex Model No.	CRI (Ra)	Rf	Rg	Typical Power (W/M)	Max. Power (W/M)	Color	Range of LED Color Temp.(K) Wavelength(nm)*	Typ. Luminous Flux LM/M(39.37in)	Rated voltage
WW-FLS102T28WW126TF-24(WCP)-UR-1616-XXX	≥90	92	100	12	13.2	Warm White	2900-3200K	1240	DC24V
WW-FLS102T28WW126TF-24(WCP)-UR-1616-XXX				12	13.2	Warm White	3200-3700K	1240	DC24V
WW-FLS102T28NW126TF-24(WCP)-UR-1616-XXX				12	13.2	Natural White	4500-5000K	1320	DC24V
WW-FLS102T28SW126TF-24(WCP)-UR-1616-XXX				12	13.2	Standard White	7000-9000K	1260	DC24V

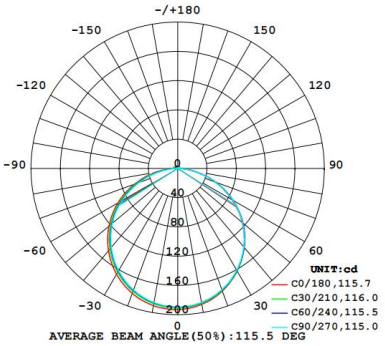
Remarks:

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

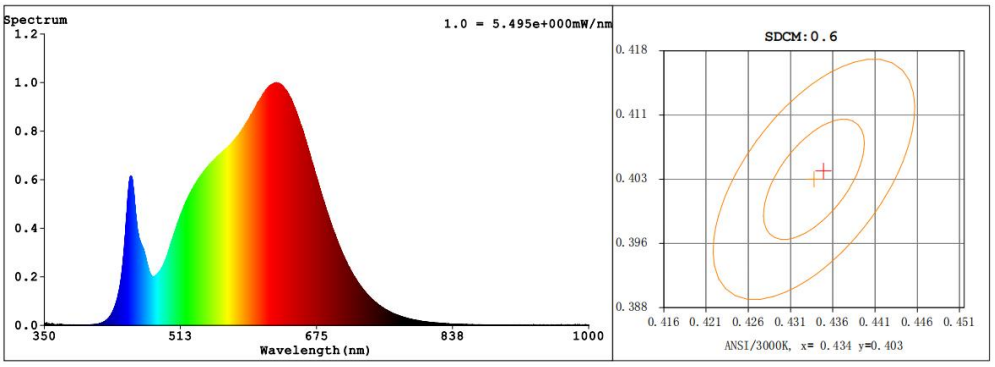
Optical Test Diagram

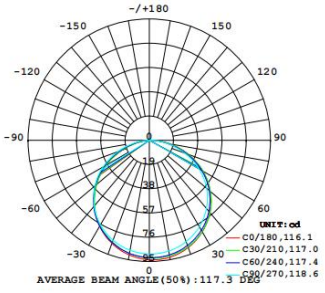
Neon Flex





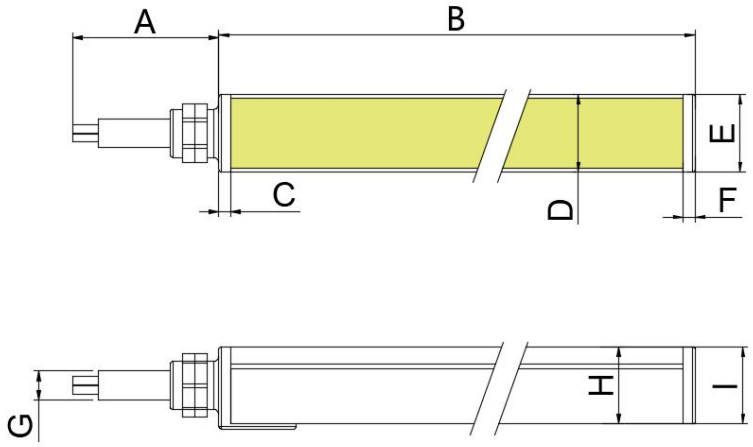
Removal of Light Source





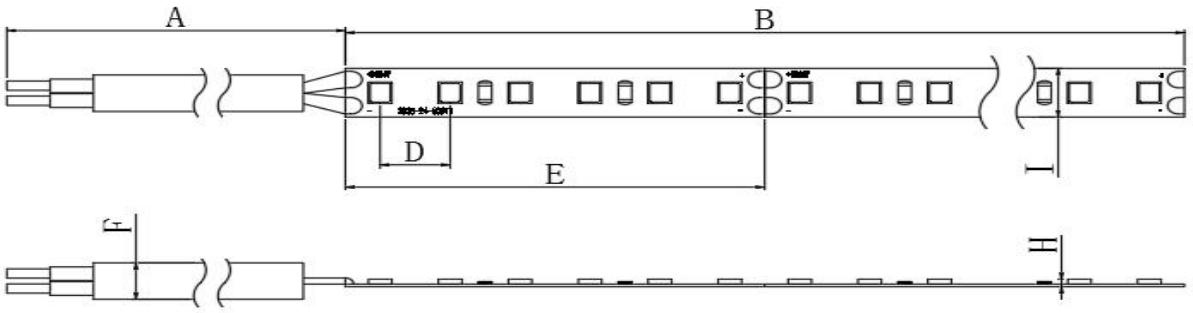
Dimension Drawing

Neon Flex



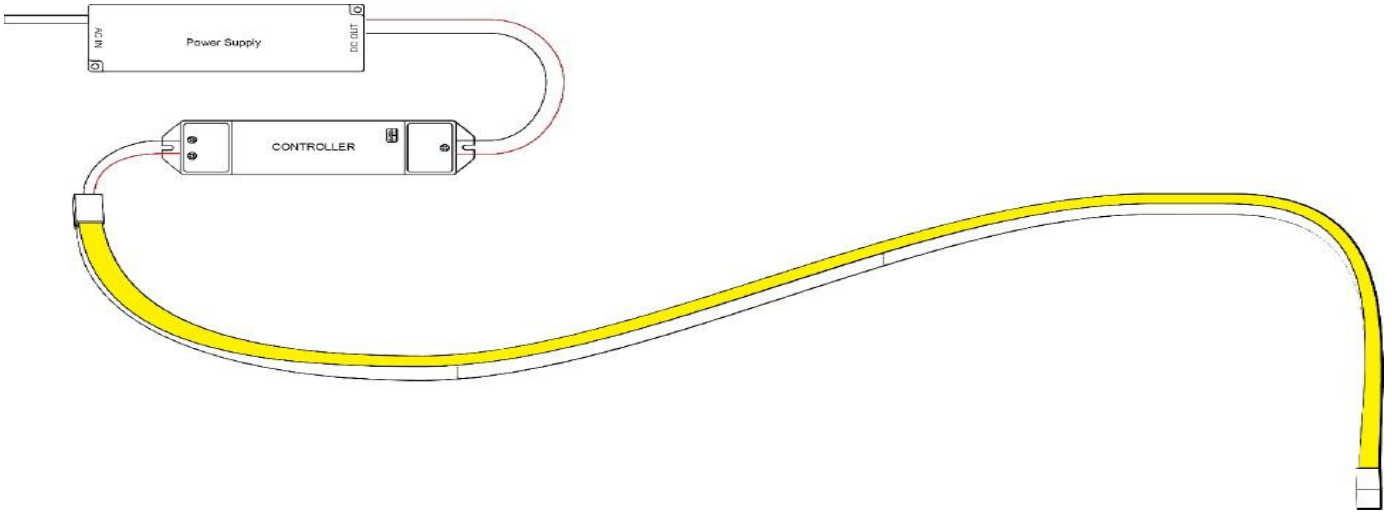
A Cable Length	B Strip length	C Cap thickness	D/E Cap width	F Cap thickness	G Cable diameter	H/I Strip thickness
300±10mm	5000±50mm	3.5±1.5mm	16±0.5mm	3.5±1.5mm	6.0±0.2mm	16±0.5mm
11.81±0.39in	196.85±1.97in	0.1377±0.059in	0.6299±0.019in	0.1377±0.059in	0.2362±0.007in	0.6299±0.019in

Removal of Light Source

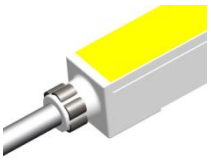
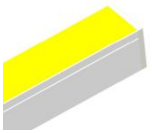
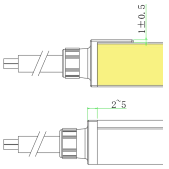
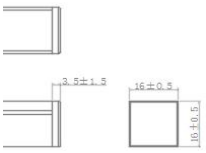
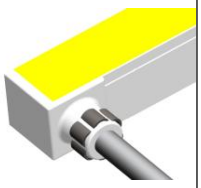
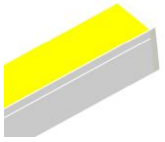
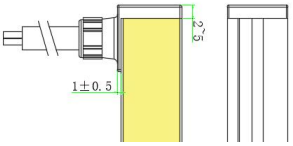
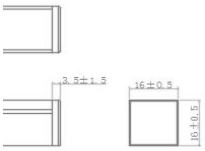
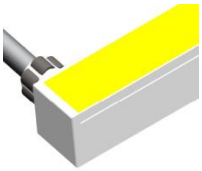
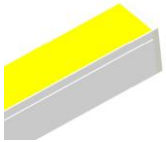
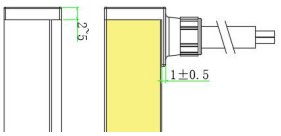
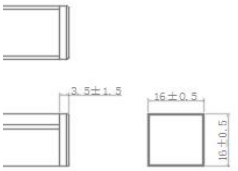
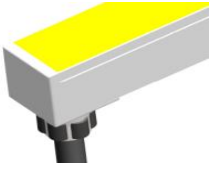
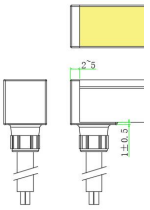
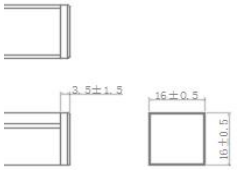


A Cable Length	B Strip length	C Cap width	D Distance of LEDS	E Cutting unit	F Cable diameter	G Cap thickness	H Strip thickness	I Strip width
300±10mm	5000±50mm	/	7.96±0.2mm	55.55±0.2mm	6.0±0.2mm	/	1.2±0.2mm	5±0.2mm
11.81±0.39in	196.85±1.97in	/	0.313±0.007in	2.187±0.007in	0.2362±0.007in	/	0.047±0.007in	0.196±0.007in

Circuit Diagram

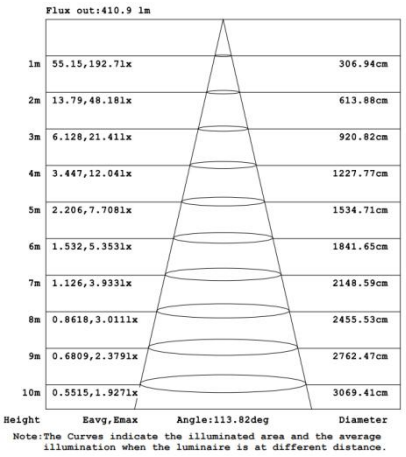


Front & end caps dimensions

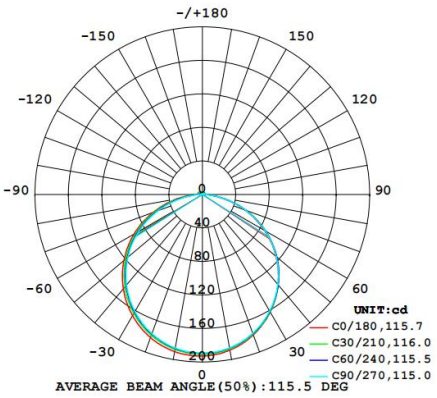
Cable Types	Model No.	Image	Dimension	IP Rating
Same Width	WW-FLS102T28WW126TF-24(WCP)-UR-1616-TS2 WW-FLS102T28WW126TF-24(WCP)-UR-1616-TS2-EP	 	 	IP65
Same Width	WW-FLS102T28WW126TF-24(WCP)-UR-1616-TL2 WW-FLS102T28WW126TF-24(WCP)-UR-1616-TL2-EP	 	 	IP65 IP65
Same Width	WW-FLS102T28WW126TF-24(WCP)-UR-1616-TR2 WW-FLS102T28WW126TF-24(WCP)-UR-1616-TR2-EP	 	 	IP65 IP65
Same Width	WW-FLS102T28WW126TF-24(WCP)-UR-1616-TD2 WW-FLS102T28WW126TF-24(WCP)-UR-1616-TD2-EP	 	 	IP65 IP65

Optical Parameters

Distribution Curve Flux

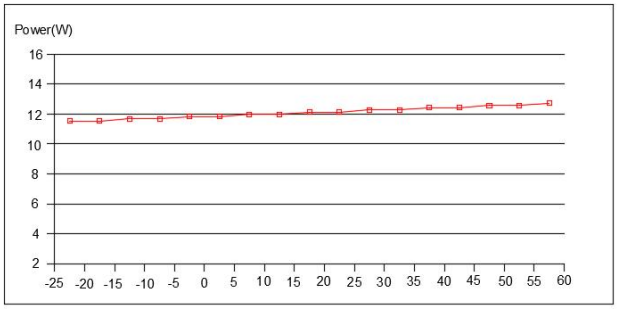


Illuminance

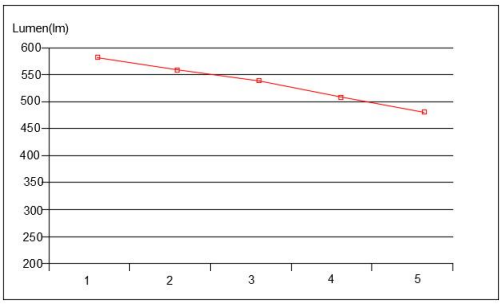


Figures of typical characteristics

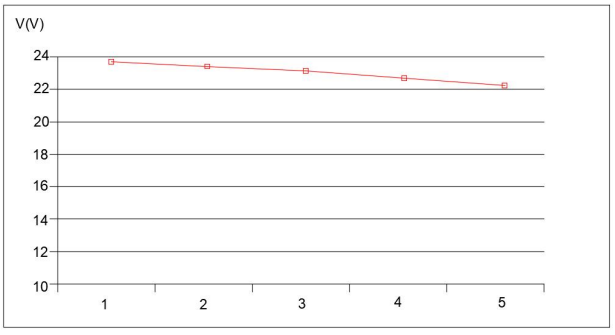
Relation of Working Temperature and Power



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



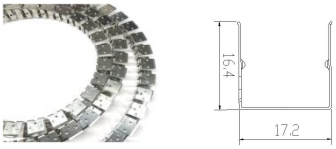
Relation of operating voltage and strip length



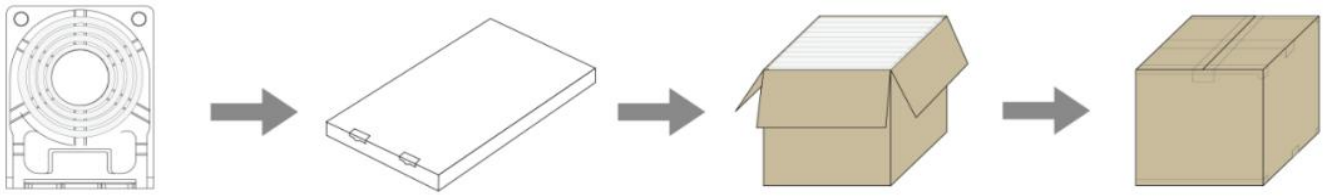
Standard Accessories

Image	Part No.	Description
	WW-AP1820-0025	Snap *2pcs/M，screw*2pcs/M

Optional Accessories

Image	Part No.	Description
	WW-AP1820-XXX	Aluminum Profile,18.4*20.1mm 0.5m&1m Screw*2; 1.5m/2m Screw*3/4
	WW- LG1716-500	Steel Profile：17.2*16.4mm 5m Screw*30;
	WW-FLS102TC-CW(16mm)-TT2	Cutting accessories set (Front & end cap, power cord)
	WW-FLS102TC-CW(16mm)-TC	Cutting accessories set (Front & end cap, power cord)

Packaging Diagram



Packaging Information

Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65	/	510*428*36mm	1	530*450*380mm	10	12.7KG ±10%	18.68KG ±10%	0.09063m³
	/	20.07*16.85 *1.41 in	1	20.86*17.71 *14.96 in	10	27.99Lbs ±10%	41.18Lbs ±10%	3.15ft³

Remarks :

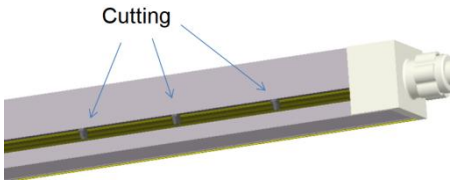
- Please contact our sales manager for customized package (color box, blister etc.)

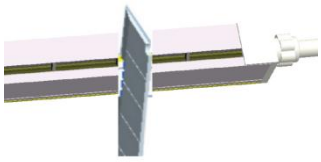
Cutting Instruction

●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;

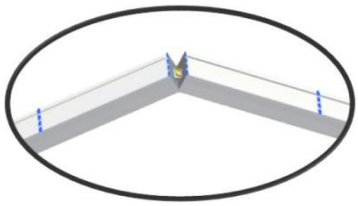
●Please follow the cutting guidance as below:

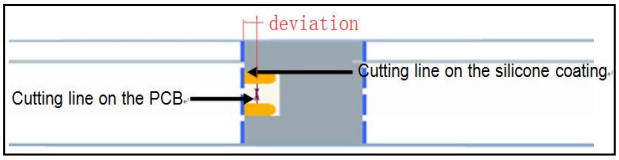
Step 1: Fine the cutting line on the silicone coating, slice the silicone coating vertically by knife along the cutting line, but do not hurt the PCB inside.



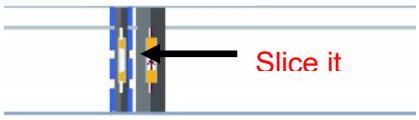


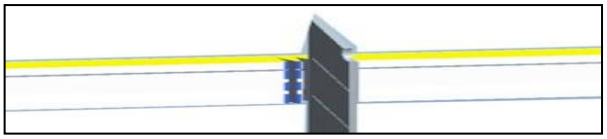
Step 2: Split the broken silicone coating and observe the deviation between "Cutting line on the PCB" and "Cutting line on the silicone coating side"



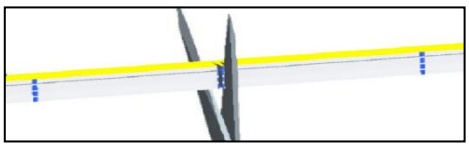


Step 3: Find the cutting line on the PCB, adjust to the exact cutting location and slice the silicone coating again.



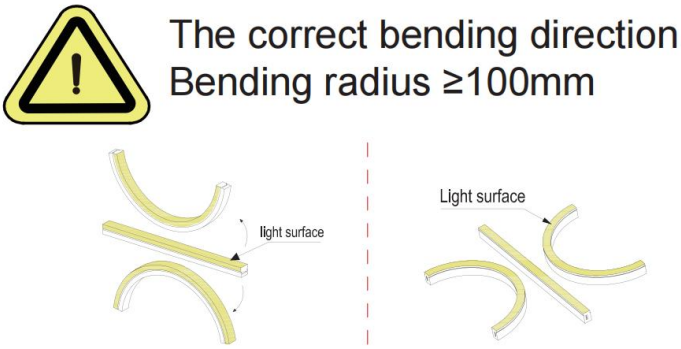


Step 4：Finally, use scissor to separate the Neon Flex along the cutting line on the PCB.

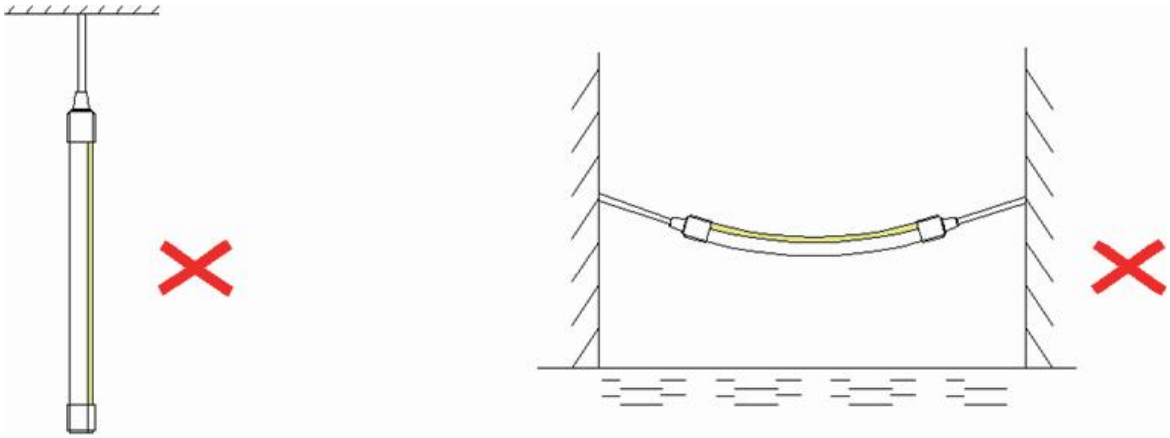


Installation Guidance

1. Do not bend smaller than allowed minimum bending diameter



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



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

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

Cautions

IP20	IP54	IP65	IP67	IP68
 Do not press the surface of LED	 Pay attention to high temperature environment	 Do not use in strong water waves environment	 Resist strong water waves impact	 Can apply to underwater do not deeper than 1m
 Pay attention to damp -proof and dustproof	 Do not apply to rainy environment	 Can be applied to rainy environment	 Do not apply to underwater environment for a long time	 No direct sunlight


Do not tie a knot


Do not winding


Do not twist


Do not cut when it is working

Recommended the continuous working time do not exceed 12 hours daily

-20℃~+45℃ (-4℉~+113℉)

0℃~+60℃ (32℉~+140℉)


Operated by professionals


Pay attention to the application environment


IP Level will change after cutting


Do not pull and crash

Connected to power supply every 5 meters

Power supply must be connected to ground(GND)

The minumum bending diameter > 60mm


Power supply retain > 20%


Note the positive and negative poles

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.**