

Product Specification

Neon Flex Vertical Bending Single Color Series (Type TC)

WW-FLS102T28XX140TC-24(WCP)-HR-F-SE-1616-TT2
&
WW-FLS102T28XX140TC-24(WCP)-HR-F-SE-1616-TT2-EP
(Removal Light Source)

Apply to ERP Regulation (EU) 2019/2020



HK Office :

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China Factory :

Zhiyang Science and Technology Park, 10 Zhiyang Road, Zhangge,
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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
- IP65 waterproof
- Min.Bending Diameter:Φ130mm



Flame Resistant



UV Resistant



Saltwater Resistant



IP65 Protection



IK08 Protection



5 Years Warranty



Technology info

- Lighting Technology: LED
- DLS or NDLS: NDLS
- MLS or NMLS: NMLS
- Type of light source: SMD2835
- Energy consumption KW/1000h/0.5M:6.35
- 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°C.
- 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-FLS102T28WW140TC-24(WCP)-HR-F-SE-1616-TT2 WW-FLS102T28WW140TC-24(WCP)-HR-F-SE-1616-TT2-EP	80	82	96	12.4	13.64	Warm White	2700K	860	DC24V
WW-FLS102T28WW140TC-24(WCP)-HR-F-SE-1616-TT2 WW-FLS102T28WW140TC-24(WCP)-HR-F-SE-1616-TT2-EP				12.4	13.64	Warm White	3000K	920	DC24V
WW-FLS102T28NW140TC-24(WCP)-HR-F-SE-1616-TT2 WW-FLS102T28NW140TC-24(WCP)-HR-F-SE-1616-TT2-EP				12.4	13.64	Natural White	4000K	920	DC24V
WW-FLS102T28SW140TC-24(WCP)-HR-F-SE-1616-TT2 WW-FLS102T28SW140TC-24(WCP)-HR-F-SE-1616-TT2-EP				12.4	13.64	Standard White	6000K	960	DC24V

Remarks:

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

Parameters for Removal Light Source

Test condition:

- Surrounding temperature: 26 °C.
- 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-FLS102T28WW140TC-24(WCP)-HR-F-SE-1616-TT2 WW-FLS102T28WW140TC-24(WCP)-HR-F-SE-1616-TT2-EP	≥80	82	96	12.7	13.97	Warm White	2700K	1526	120	E	DC24V
WW-FLS102T28WW140TC-24(WCP)-HR-F-SE-1616-TT2 WW-FLS102T28WW140TC-24(WCP)-HR-F-SE-1616-TT2-EP				12.7	13.97	Warm White	3200K	1649	130	E	DC24V
WW-FLS102T28NW140TC-24(WCP)-HR-F-SE-1616-TT2 WW-FLS102T28NW140TC-24(WCP)-HR-F-SE-1616-TT2-EP				12.7	13.97	Natural White	4500K	1708	135	E	DC24V
WW-FLS102T28SW140TC-24(WCP)-HR-F-SE-1616-TT2 WW-FLS102T28SW140TC-24(WCP)-HR-F-SE-1616-TT2-EP				12.7	13.97	Standard White	7200K	1598	126	E	DC24V

Remarks:

- *The above color temperature is the color temperature of LED source.
- 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 for Removal Light Source

Test condition:

- Surrounding temperature: 26°C.
- Test while turning on.

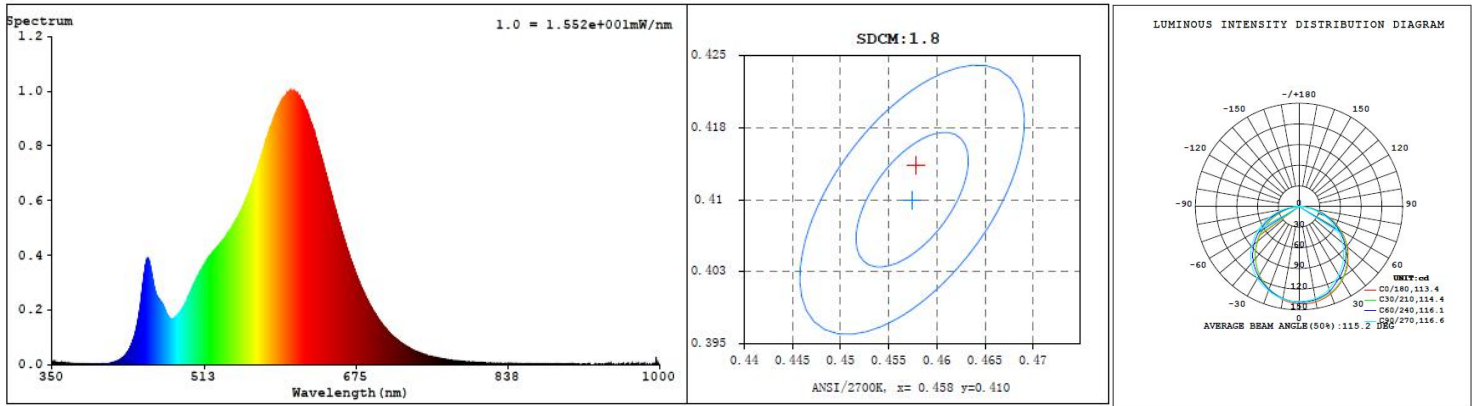
Removal of Light Source									
Neon Flex Model No.	CRI (Ra)	Rf	Rg	Typical Power (W/M)	Max. Power (W/M)	Color	Range of LED Color Temp.(K) Wavelength(nm) ^a	Typ. Luminous Flux LM/M(39.3 7in)	Rated voltage
WW-FLS102T28WW140TC-24(WCP)-HR-F-SE-1616-TT2 WW-FLS102T28WW140TC-24(WCP)-HR-F-SE-1616-TT2-EP	≥80	82	96	12.4	13.64	Warm White	2600-2900K	1391	DC24V
WW-FLS102T28WW140TC-24(WCP)-HR-F-SE-1616-TT2 WW-FLS102T28WW140TC-24(WCP)-HR-F-SE-1616-TT2-EP				12.4	13.64	Warm White	3000-3500K	1500	DC24V
WW-FLS102T28NW140TC-24(WCP)-HR-F-SE-1616-TT2 WW-FLS102T28NW140TC-24(WCP)-HR-F-SE-1616-TT2-EP				12.4	13.64	Natural White	4250-4750K	1542	DC24V
WW-FLS102T28SW140TC-24(WCP)-HR-F-SE-1616-TT2 WW-FLS102T28SW140TC-24(WCP)-HR-F-SE-1616-TT2-EP				12.4	13.64	Standard White	6500-8000K	1438	DC24V

Remarks:

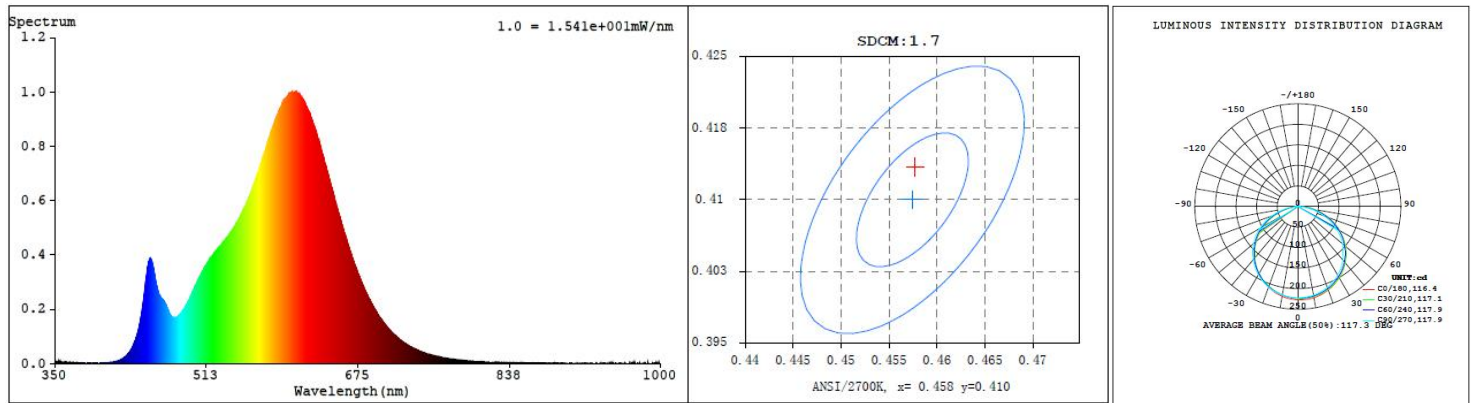
- * The above color temperature is the color temperature of LED source.
- SDCM for light source: ≤6 (alternative ≤3).
- The typ. Luminous flux tolerance range is ±10% (subject to the manufacturer's instrument test).

Optical Test Diagram

Neon Flex

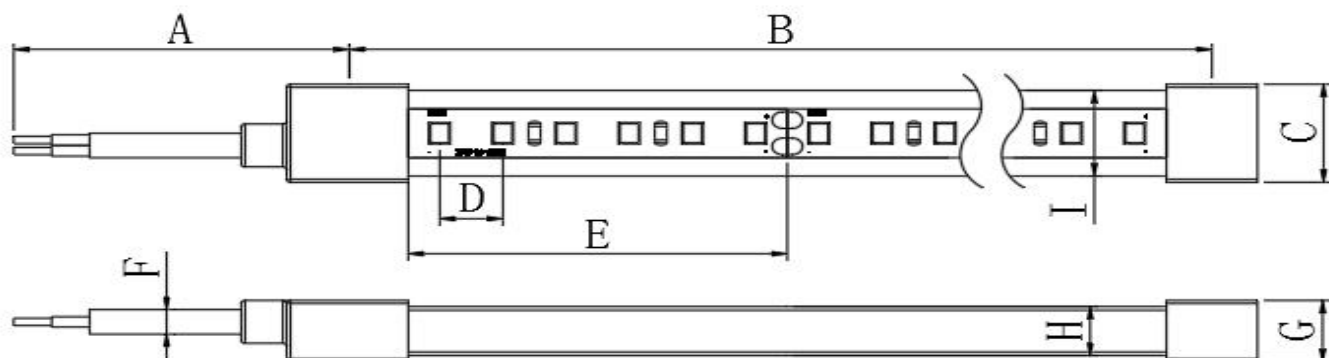


Removal of Light Source



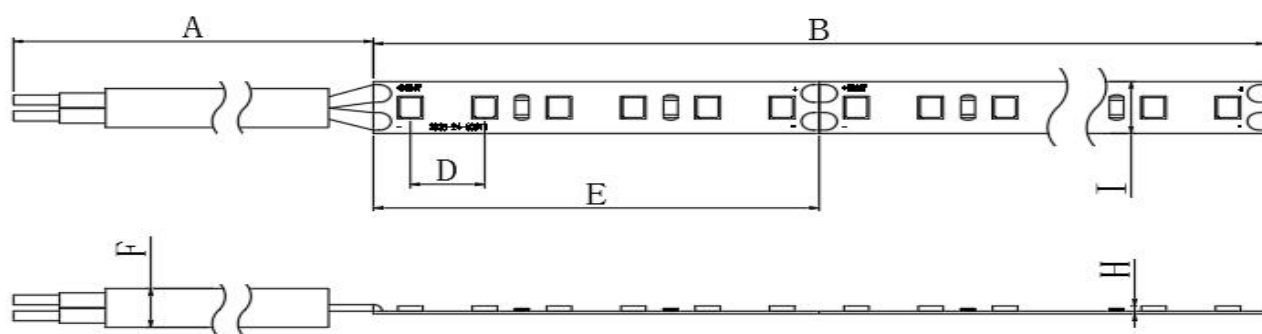
Dimension Drawing

Neon Flex



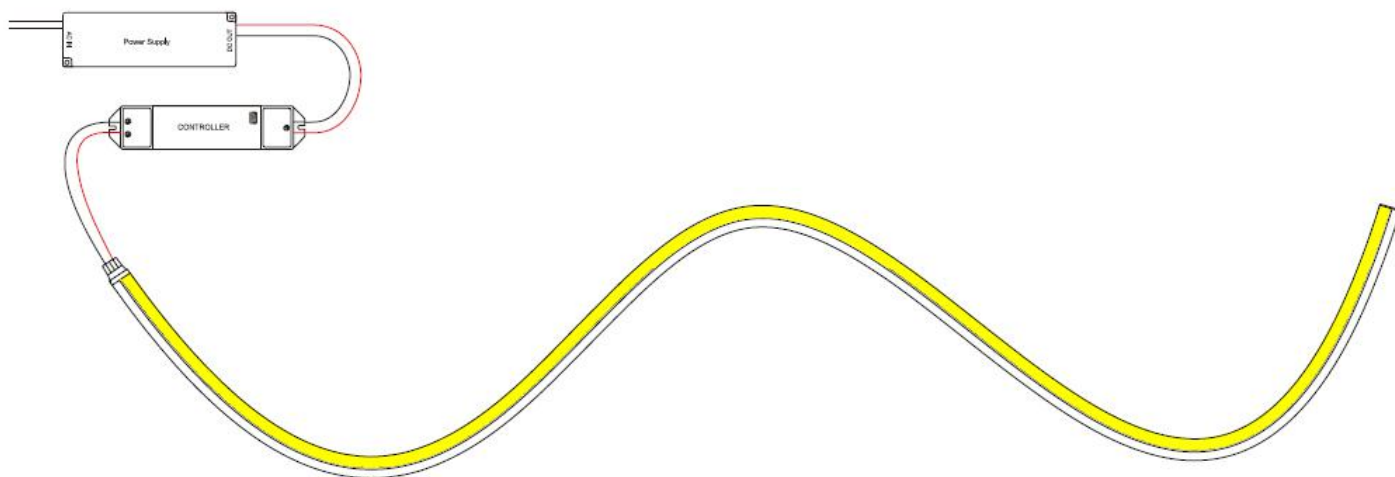
A	B	C	D	E	F	G	H	I
Cable Length	Strip length	Cap width	Distance of LEDS	Cutting unit	Cable diameter	Cap thickness	Strip thickness	Strip width
300±10mm	5000±50mm	18±0.5mm	7.14±0.2mm	50±0.2mm	6.0±0.2mm	18±0.5mm	16±0.5mm	16±0.5mm

Removal of Light Source

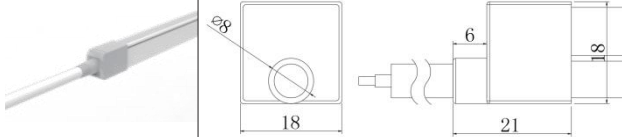
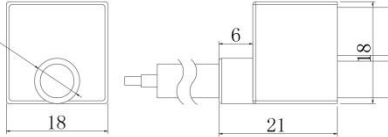

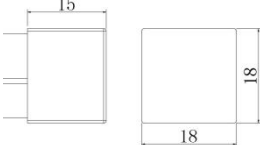


A	B	C	D	E	F	G	H	I
Cable Length	Strip length	Cap width	Distance of LEDS	Cutting unit	Cable diameter	Cap thickness	Strip thickness	Strip width
300±10mm	5000±50mm	/	7.14±0.2mm	50±0.2mm	6.0±0.2mm	/	1.2±0.2mm	10±0.2mm

Circuit Diagram

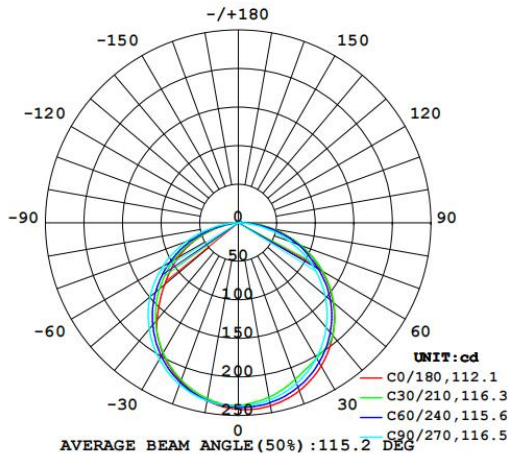


Front & end caps dimensions

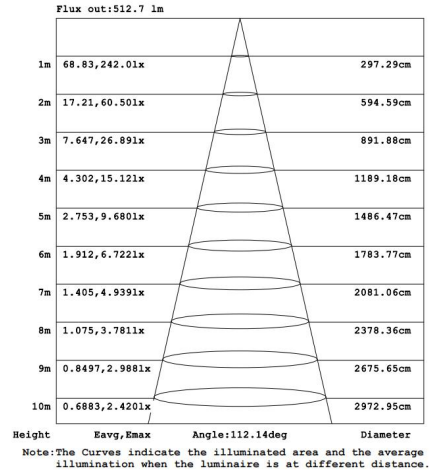
Cable Types	Model No.	Image	Dimension	IP Rating
Same Width	WW-FLS102T28XX140TC-24(WCP)-HR-F-SE-1616-TT2 WW-FLS102T28XX140TC-24(WCP)-HR-F-SE-1616-TT2-EP			IP65
				

Optical Parameters

Distribution Curve Flux

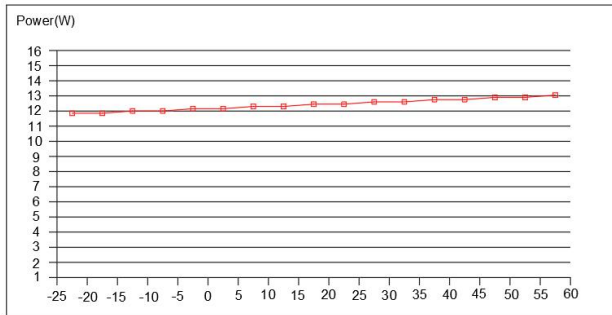


Illuminance

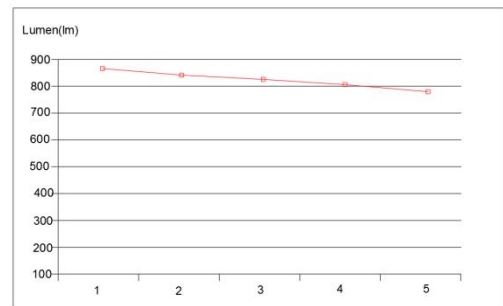


Figures of typical characteristics

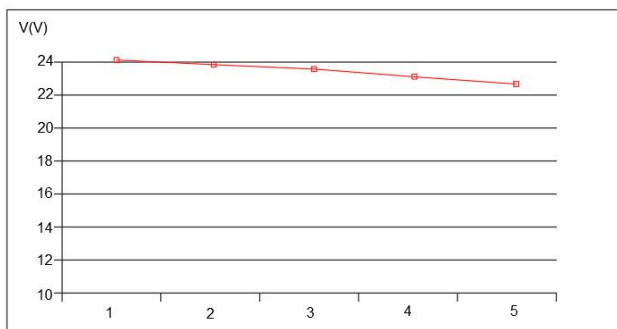
Relation of Working Temperature and Power





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



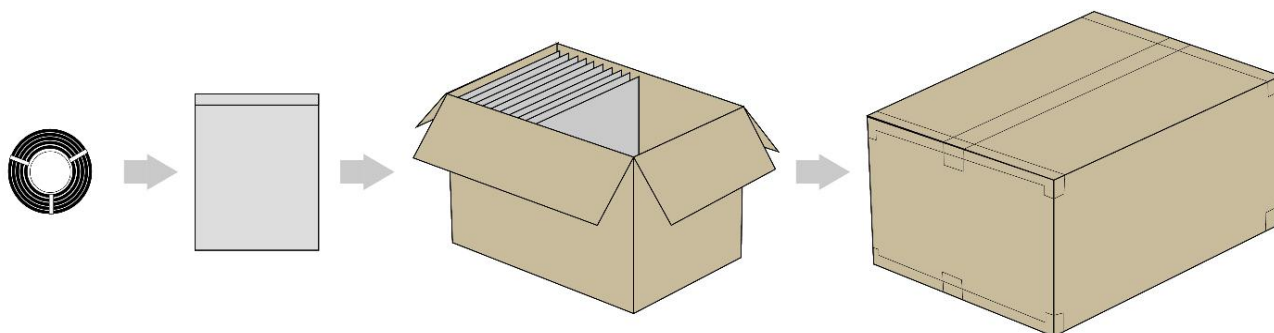
Relation of operating voltage and strip length



Standard Accessories

Image	Part No.	Description
	<p>WW-FLS102TC-F-CW(16mm)-TT2</p>	<p>Cutting accessories set (Front & end cap, power cord)</p>
	<p>WW-T1815-0025</p>	<p>Installation accessories set (Stainless steel mounting buckle, screws)</p>

Packaging Diagram



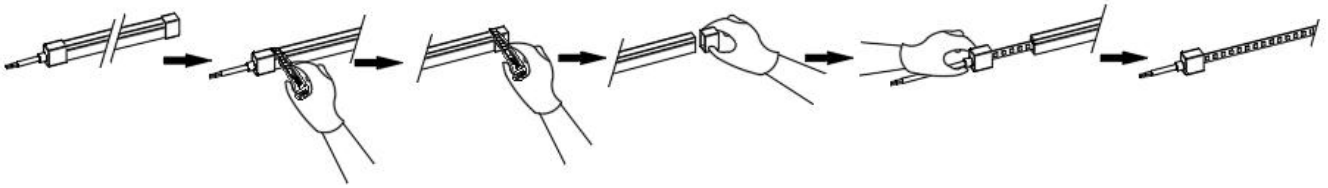
Packaging Information

Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65	470*400*0.14mm	/	/	440*400*260mm	10	11.34KG ±10%	14.13KG ±10%	0.0458M ³
	18.50*15.74*0.005mm	/	/	17.32*15.74 *10.23 in	10	24.99Lbs ±10%	31.14Lbs ±10%	1.616ft ³

Remarks :

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

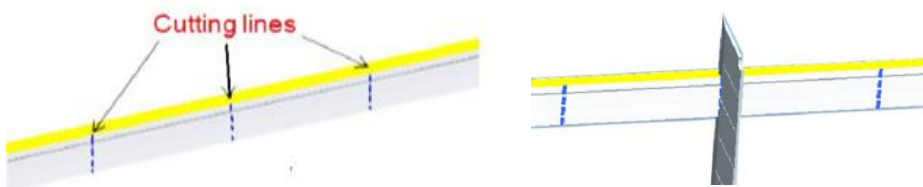
Instruction of Removal Light Source



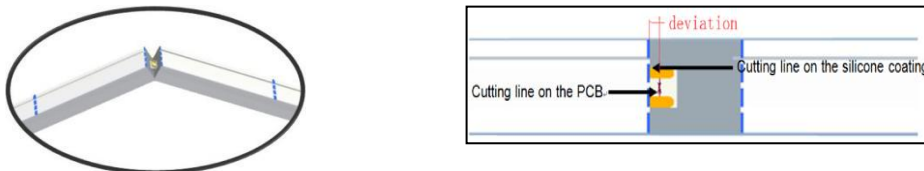
Cutting Instruction

- 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.



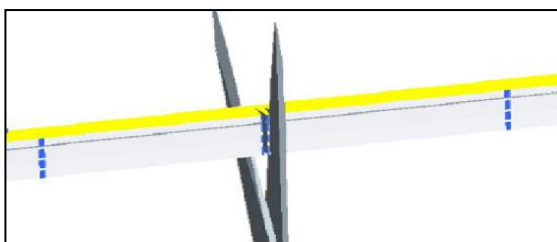
Step 2: Split the broken silicone coating and observe the deviation between "Cutting line on the PCB" and "Cutting line on the silicone coating side"



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

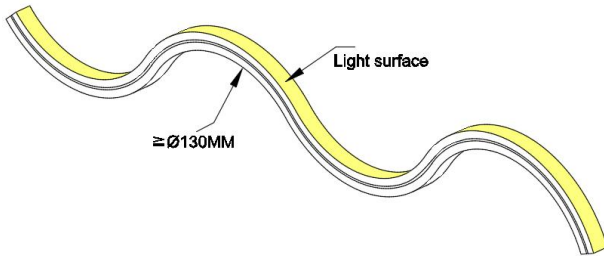


Step 4: Finally, use scissor to separate the Neon Flex along the cutting line on the PCB.

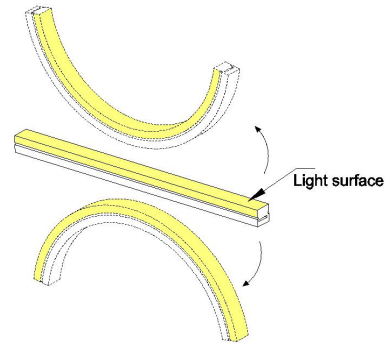


Installation Guidance

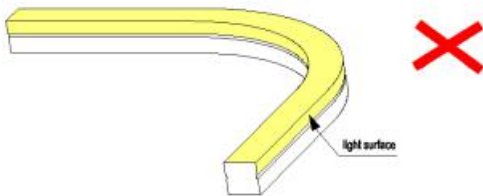
1. Do not bend smaller than allowed minimum bending diameter



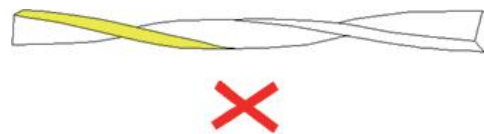
2. The neon strip can only be bent laterally (Along the FPC inside).



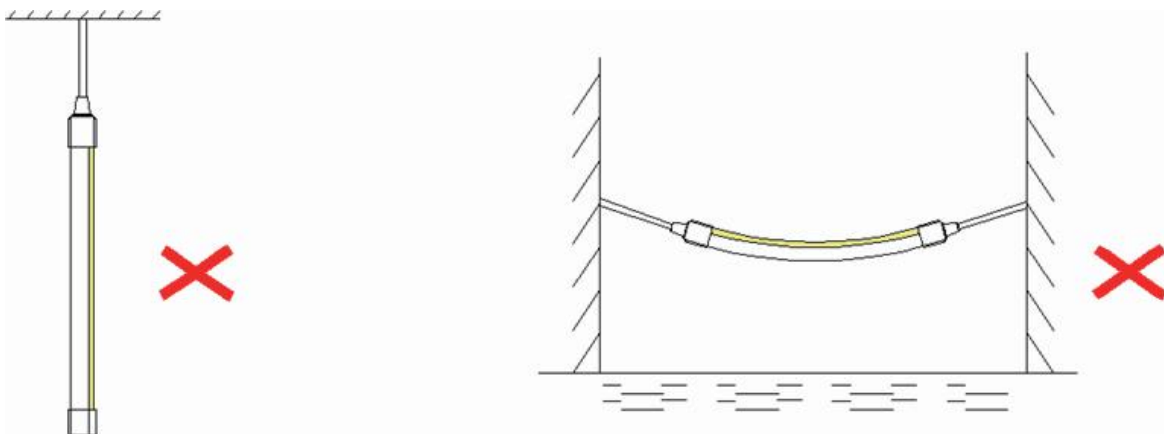
3. Don't bend the LED strip vertically, it will damage the circuit inside and cause product function failure.



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**

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	 Operating temperature	 Storage temperature	 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 minimum 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.**