

Product Specification

Neon LV Strip Pro Horizontal Bending 06mm Single Color Triangle (Type TA)

WW-FLS102T72XW168TA-24(WCP)-UR-0615-XXX-TG
&
WW-FLS102T72XW168TA-24(WCP)-UR-0615-XXX-TG-EP
(Removal Light Source)

Apply to ERP Regulation (EU) 2019/2020



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<p>Product Features</p> <ul style="list-style-type: none"> • High quality FPC • Dilux self-encapsulated LED • Light source lifetime:50K hours • Light source removable • Meet (EU) 2019/2020 ERP regulations • Horizontal bending • High quality silicone material • IP65 waterproof • Min.Bending Diameter:Φ60mm • Single end power supply 10M 	
<p>Technology info</p> <ul style="list-style-type: none"> • Lighting Technology: LED • DLS or NDLS: NDLS • MLS or NMLS: NMLS • Type of light source: SMD2025 • Energy consumption KW/1000h/0.5M:2.8 • Beam angle: 100° • Survival factor (Annex V/EU2019-2020) :90% 	<p>Harmonised Standards</p> <p>EMC</p> <ul style="list-style-type: none"> • 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°C.
- Test while turning on.

Neon LV Strip									
Neon LV Strip Model No.	CRI (Ra)	Rf	Rg	Typ. Power (W/M)	Max. Power (W/M)	Color	Neon LV Strip Color Temp.(K) Wavelength(nm)	Typ. Luminous Flux LM/M(39.37in)	Rated voltage
WW-FLS102T72WW168TA-24(WCP)-UR-0615-XXX-TG WW-FLS102T72WW168TA-24(WCP)-UR-0615-XXX-TG-EP	≥90	90	98	5.5	6.05	Warm White	2700K	390	DC24V
WW-FLS102T72WW168TA-24(WCP)-UR-0615-XXX-TG WW-FLS102T72WW168TA-24(WCP)-UR-0615-TS2-TG-EP						Warm White	3000K	404	DC24V
WW-FLS102T72NW168TA-24(WCP)-UR-0615-XXX-TG WW-FLS102T72NW168TA-24(WCP)-UR-0615-XXX-TG-EP						Natural White	4000K	412	DC24V
WW-FLS102T72SW168TA-24(WCP)-UR-0615-XXX-TG WW-FLS102T72SW168TA-24(WCP)-UR-0615-XXX-TG-EP						Standard White	6000K	410	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 ERP

Test condition:

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

Removal of Light Source											
Neon LV Strip 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-FLS102T72WW168TA-24(WCP)-UR-0615-XXX-TG WW-FLS102T72WW168TA-24(WCP)-UR-0615-XXX-TG-EP	≥90	90	98	5.6	6.16	Warm White	2700K	598	107	F	DC24V
WW-FLS102T72WW168TA-24(WCP)-UR-0615-XXX-TG WW-FLS102T72WW168TA-24(WCP)-UR-0615-XXX-TG-EP						Warm White	3200K	610	109	F	DC24V
WW-FLS102T72NW168TA-24(WCP)-UR-0615-XXX-TG WW-FLS102T72NW168TA-24(WCP)-UR-0615-XXX-TG-EP						Natural White	4200K	616	110	E	DC24V
WW-FLS102T72SW168TA-24(WCP)-UR-0615-XXX-TG WW-FLS102T72SW168TA-24(WCP)-UR-0615-XXX-TG-EP						Standard White	7200K	614	109	F	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 Non-ERP

Test condition:

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

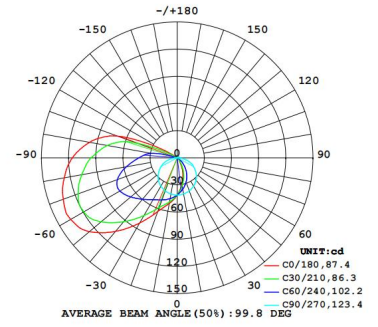
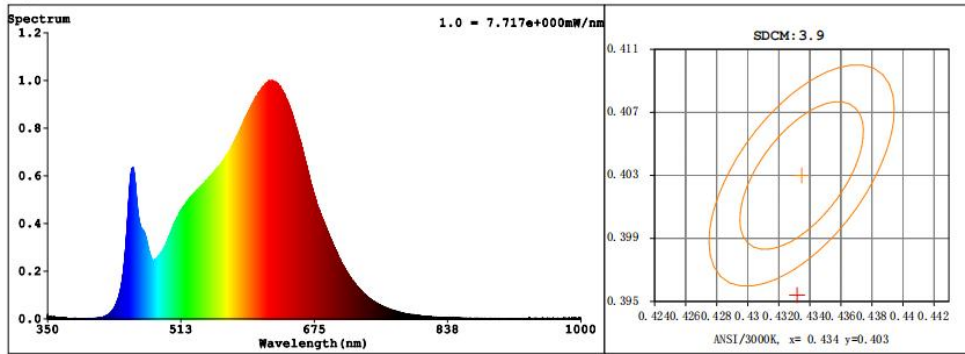
Removal of Light Source									
Neon LV Strip Model No.	CRI (Ra)	Rf	Rg	Typical Power (W/M)	Max. Power (W/M)	Color	Range of LED Color Temp.(K) Wavelength(nm) ^a	Typ. Luminous Flux LM/M(39.3 7in)	Rated voltage
WW-FLS102T72WW168TA-24(WCP)-UR-0615-XXX-TG WW-FLS102T72WW168TA-24(WCP)-UR-0615-XXX-TG-EP	≥90	90	98	5.5	6.05	Warm White	2600-2900K	582	DC24V
WW-FLS102T72WW168TA-24(WCP)-UR-0615-XXX-TG WW-FLS102T72WW168TA-24(WCP)-UR-0615-XXX-TG-EP				5.5	6.05	Warm White	3000-3500K	606	DC24V
WW-FLS102T72NW168TA-24(WCP)-UR-0615-XXX-TG WW-FLS102T72NW168TA-24(WCP)-UR-0615-XXX-TG-EP				5.5	6.05	Natural White	4000-4500K	614	DC24V
WW-FLS102T72SW168TA-24(WCP)-UR-0615-XXX-TG WW-FLS102T72SW168TA-24(WCP)-UR-0615-XXX-TG-EP				5.5	6.05	Standard White	6500-8000K	610	DC24V

Remarks:

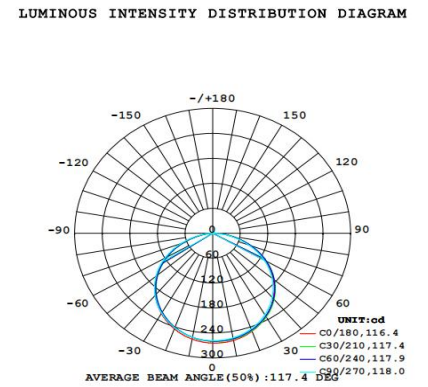
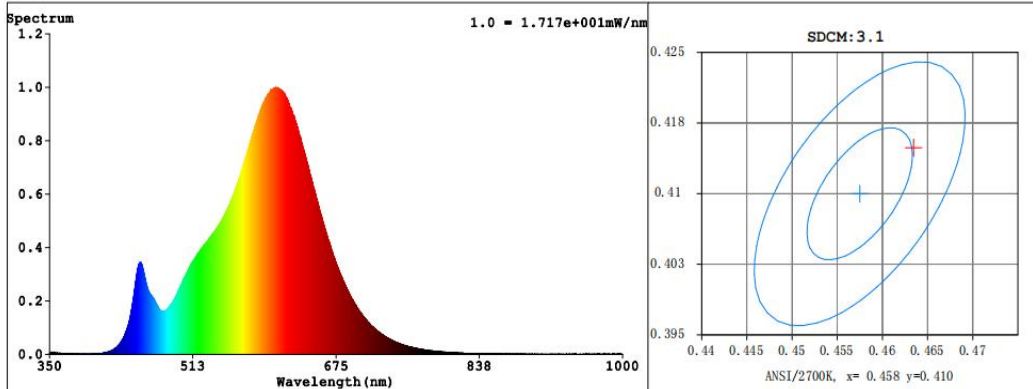
- * The above color temperature is the color temperature of LED source.
- SDCM for light source: ≤6 (alternative ≤3).
- The typ. Luminous flux tolerance range is ±10% (subject to the manufacturer's instrument test).

Optical Test Diagram

Neon LV Strip

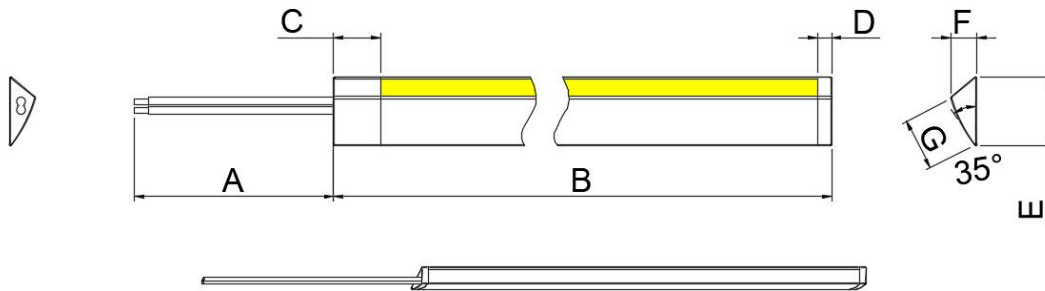


Removal of Light Source



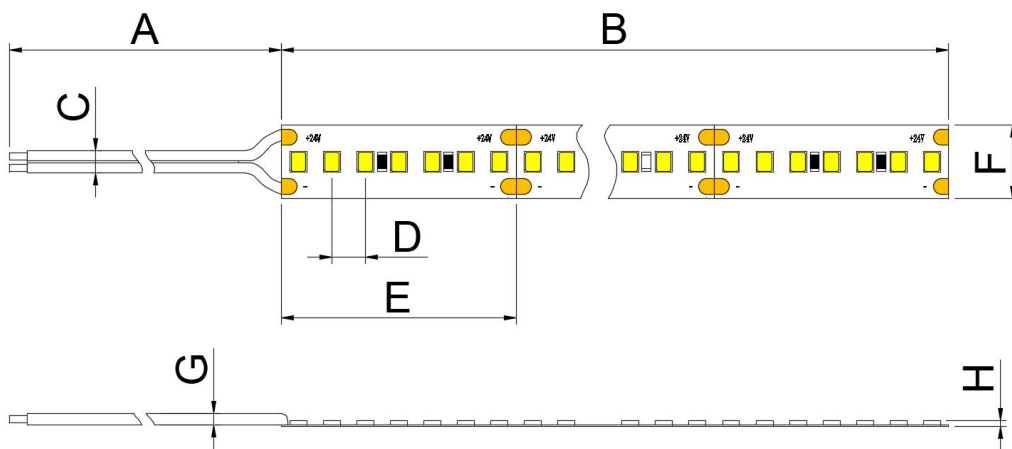
Dimension Drawing

Neon LV Strip



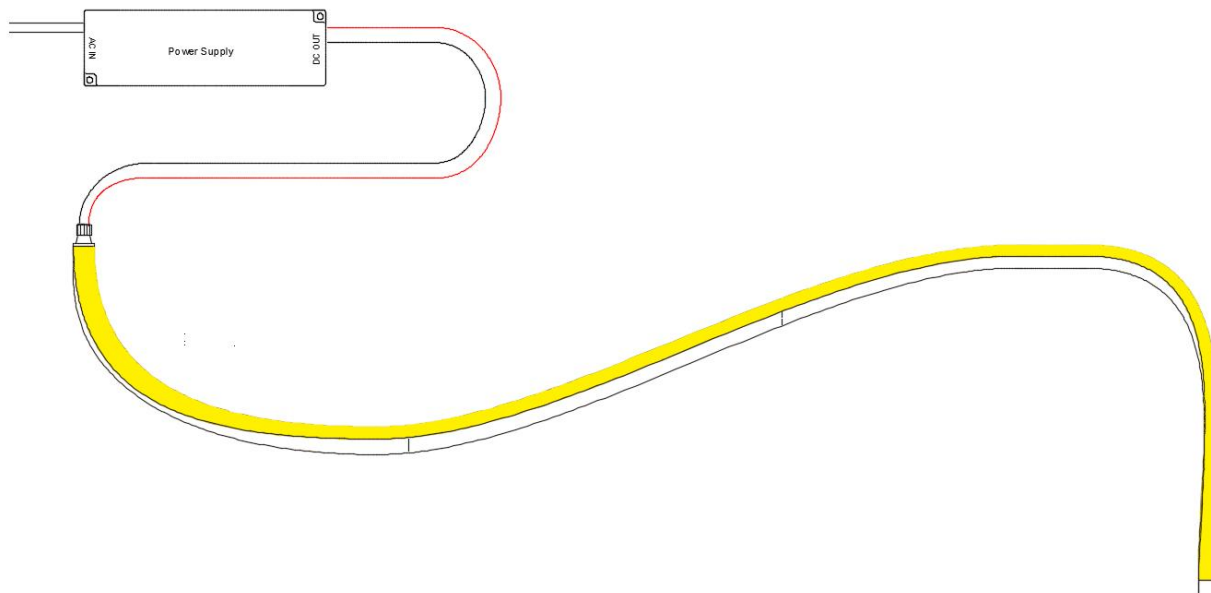
A	B	C	D	E	F	G
Cable Length	Strip length	Cap Length	Cap length	Lap width	Strip thickness	Bevel width
150±10mm	5000±50mm	10±2mm	3±2mm	15±0.5mm	5.6±0.5mm	12±1mm
5.905±0.39in	196.85±1.97in	0.393±0.078in	0.118±0.078in	0.591±0.019in	0.22±0.019in	0.472±0.0393in

Removal of Light Source

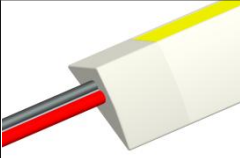
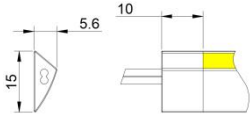

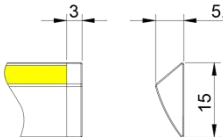
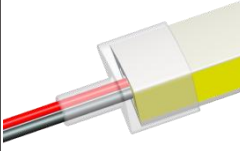
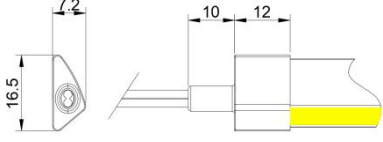
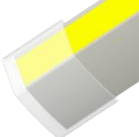
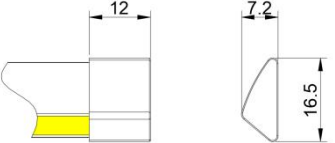


A	B	C	D	E	F	G	H
Cable Length	Strip length	Cap width	Distance of LEDs	Cutting unit	Cable diameter	Cap thickness	Strip thickness
150±10mm	5000±50mm	4±0.5mm	5.95±0.2mm	41.66±0.2mm	8±0.2mm	2±0.5mm	1.2±0.2mm
5.905±0.39in	196.85±1.97in	0.157±0.019in	0.234±0.007in	1.64±0.007in	0.314±0.007in	0.078±0.019in	0.047±0.007in

Circuit Diagram

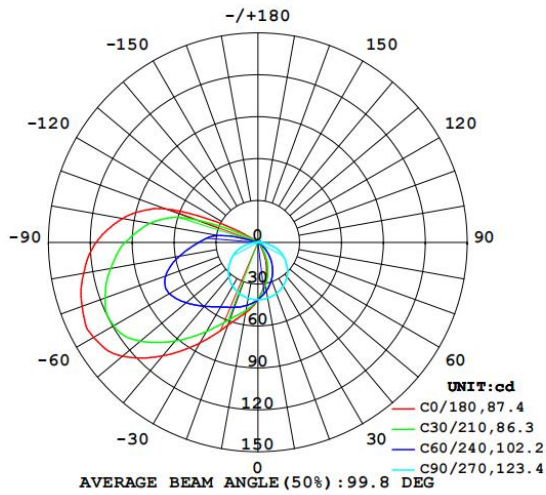


Front & end caps dimensions

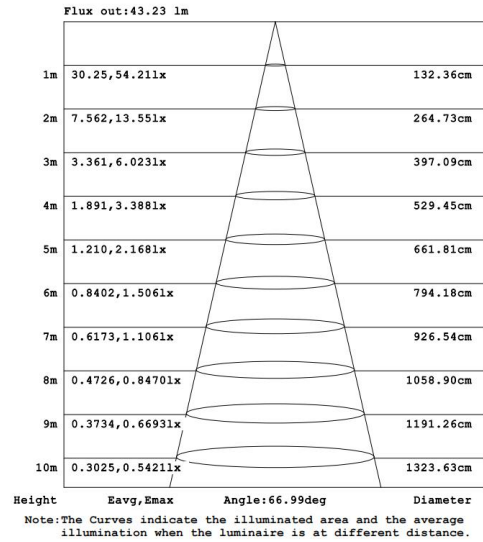
Cable Types	Model No.	Image	Dimension	IP Rating
Double Injection	WW-FLS102T72XW168TA-24(WCP)-UR-0615-TS2-TG WW-FLS102T72XW168TA-24(WCP)-UR-0615-TS2-TG-EP			IP65
				
Double Bonding	WW-FLS102T72XW168TA-24(WCP)-UR-0615-TT2-TG WW-FLS102T72XW168TA-24(WCP)-UR-0615-TT2-TG-EP			
				

Optical Parameters

Distribution Curve Flux

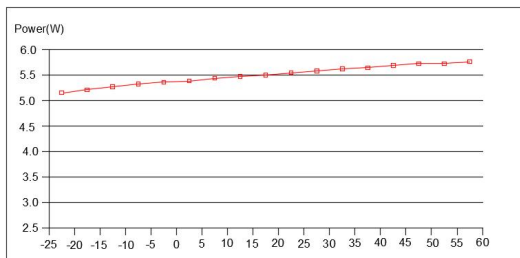


Illuminance

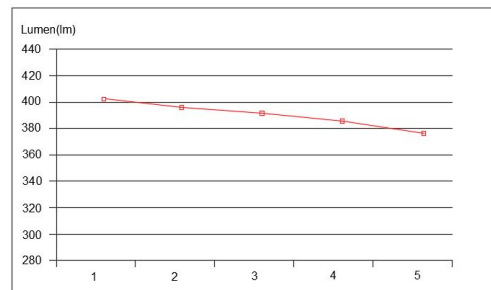


Figures of typical characteristics

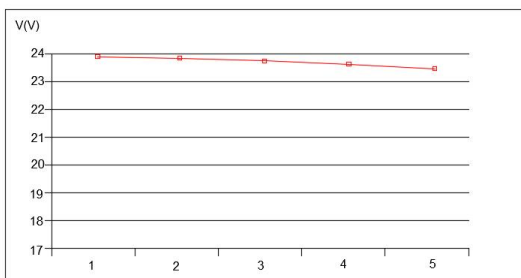
Relation of Working Temperature and Power





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



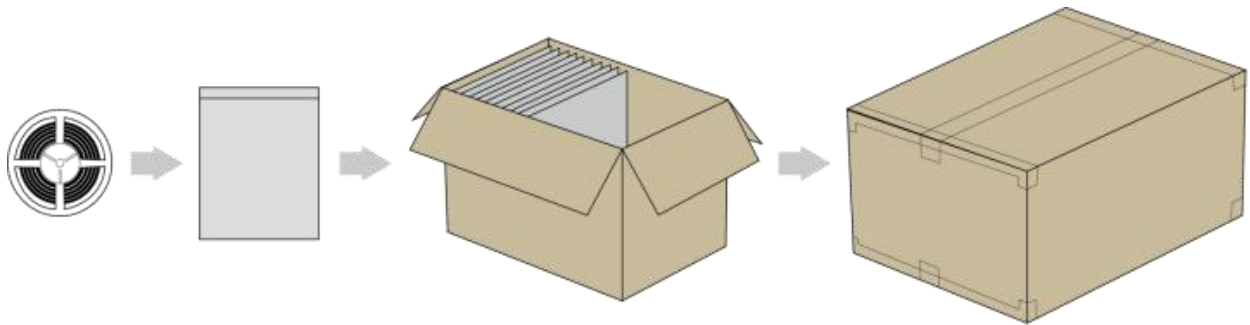
Relation of operating voltage and strip length



Optional Accessories

Image	Part No.	Description
	<p>WW-FLS102TA- CW(6*15mm)-TT2</p>	<p>silicone plugs 2PCS Silicone Wire 1PC</p>
	<p>J.51.SI000800</p>	<p>Universal silicone fixing clip for light strip (universal type) Fixing clip 10PCS Screw 20PCS</p>

Packaging Diagram



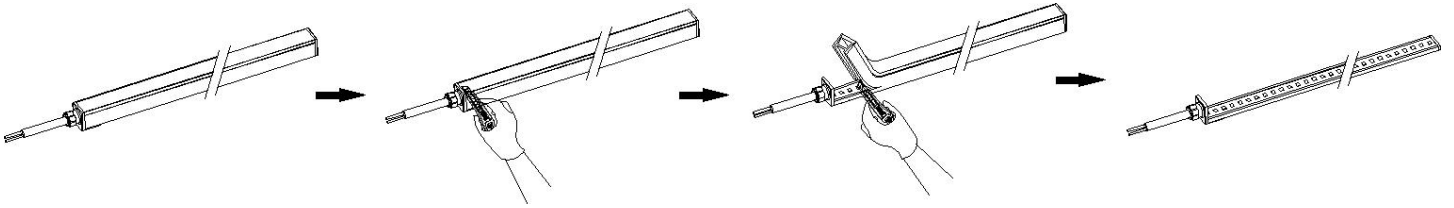
Packaging Information

Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65	270*300*0.14mm	/	/	520*370*300mm	36	12.46KG ±10%	17.32KG ±10%	0.0577m³
	10.63*11.81*0.005 in	/	/	20.47*14.56 *11.81 in	36	27.46 Lbs ±10%	38.18 Lbs ±10%	2.0376ft³

Remarks :

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

Instruction of Removal Light Source



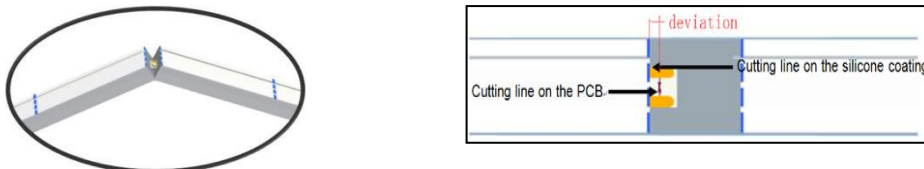
Cutting Instruction

- 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: Find 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.



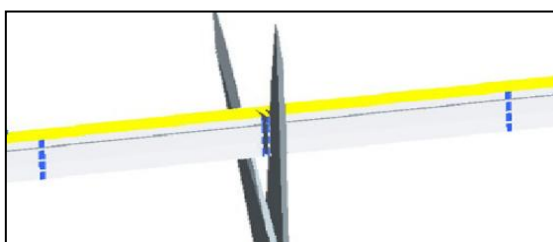
Step 2: Split the broken silicone coating and observe the deviation between "Cutting line on the PCB" and "Cutting line on the silicone coating side"



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

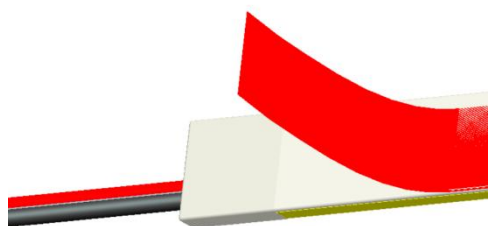


Step 4: Finally, use scissor to separate the Neon Flex along the cutting line on the PCB.

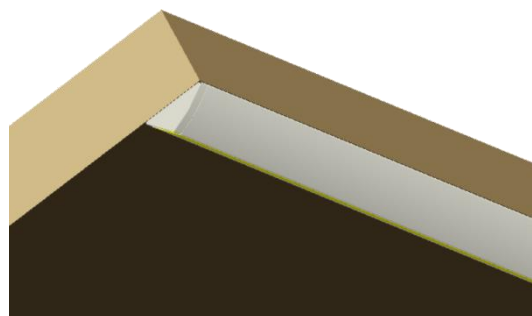


Installation Guidance

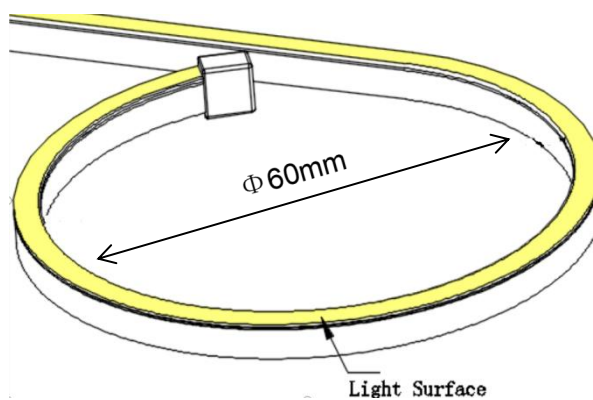
1.Surface mount: Tear off the red release paper



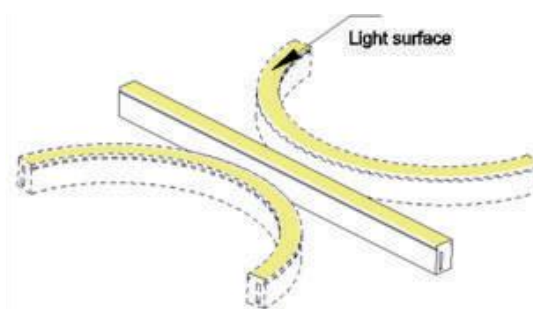
2.Paste on the installation surface



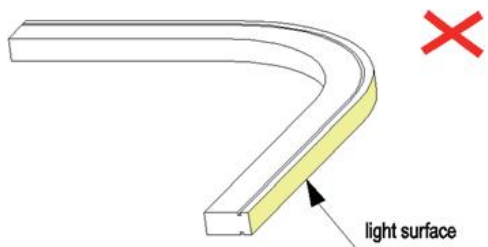
3.Do not bend smaller than allowed minimum bending diameter



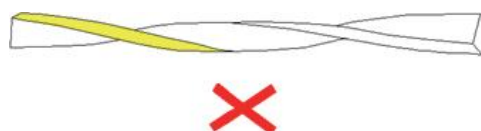
4.The neon strip can only be bent laterally (Along the FPC inside).



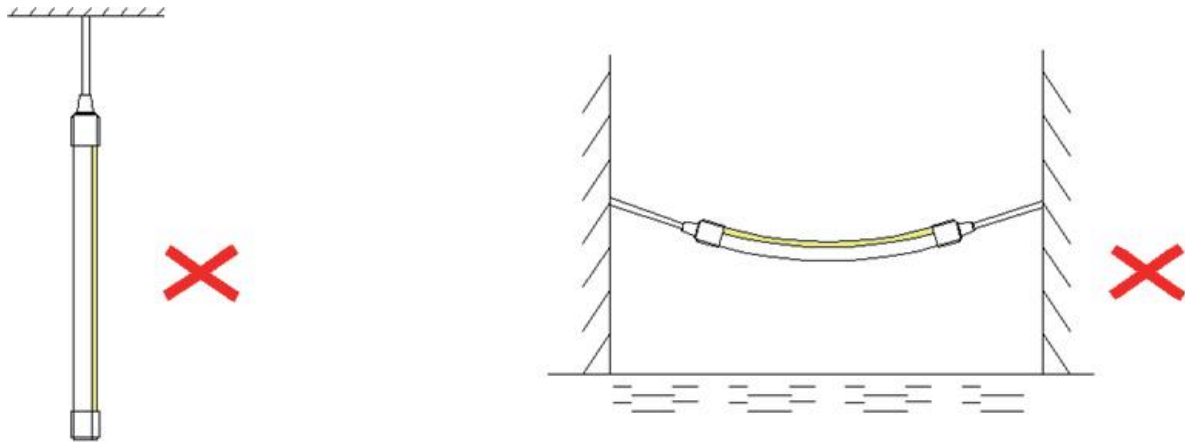
5.Don't bend the LED strip Horizontal , it will damage the circuit inside and cause product function failure.



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



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













8、 Press the neon flex into mounted aluminum profile in one direction (Angle between strip and aluminum <math>< 15^\circ</math> degrees).



















9、 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°C~+45°C (-4°F~+113°F)	0°C~+60°C (32°F~+140°F)	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.**