V2.0

Product Specification

Neon Flex

Vertical Bending Single Color Series

(Type TC)

WW-FLS102T28XX140TC-24(WCP)-1000-XR-100-TH-IC

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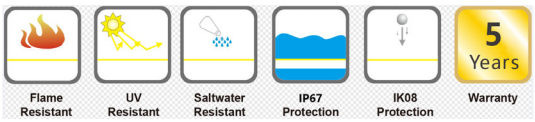
Product Features

- High quality FPC
- Dilux self-encapsulated LED
- Light source lifetime:50K hours
- Vertical bending
- High quality silicone material
- IP67&IP65 waterproof
- Min.Bending Diameter:Φ140mm



Technology info

- Lighting Technology: LED
- DLS or NDLS: NDLS
- MLS or NMLS: NMLS
- Type of light source: SMD2835
- Energy consumption KW/1000h/0.5M:4.8
- 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:

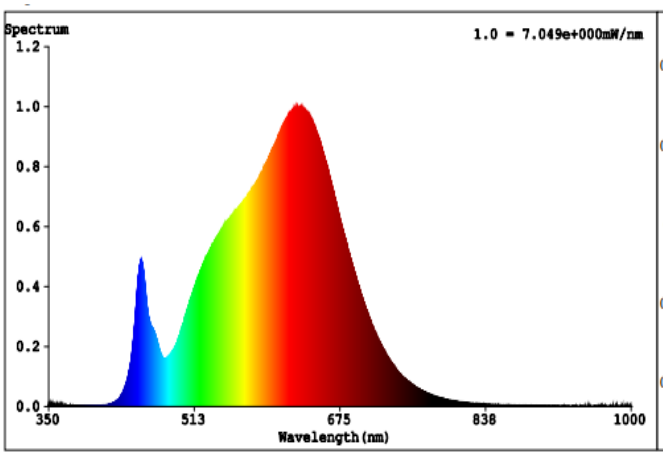
- Surrounding temperature: 26℃.
- Test while turning on.

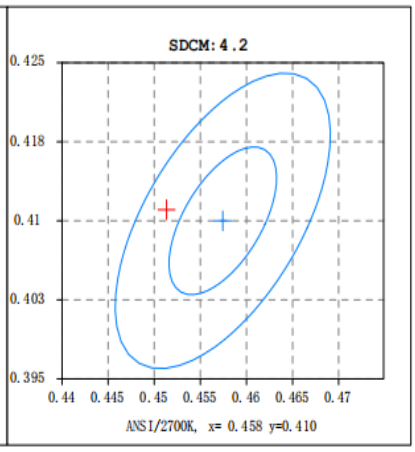
Neon Flex									
Neon Flex Model No.	CRI (Ra)	Rf	Rg	Typ. Power (W/M)	Max. Power (W/M)	Color	Neon Flex Color Temp.(K) Wavelength(nm)	Typ. Luminous Flux LM/M(39.37in)	Rated voltage
WW-FLS102T28WW140TC-24(WCP)-HR-SE-100-TH-IC	≥80	82	96	9.6	10.5	Warm White	2500K	870	DC24V
WW-FLS102T28WW140TC-24(WCP)-HR-SE-100-TH-IC						Warm White	2700K	870	DC24V
WW-FLS102T28WW140TC-24(WCP)-HR-SE-100-TH-IC						Warm White	3000K	900	DC24V
WW-FLS102T28NW140TC-24(WCP)-HR-SE-100-TH-IC						Natural White	4000K	900	DC24V
WW-FLS102T28SW140TC-24(WCP)-HR-SE-100-TH-IC						Standard White	6000K	900	DC24V
WW-FLS102T28WW140TC-24(WCP)-UR-SE-100-TH-IC	≥90	90	100	9.6	10.5	Warm White	2500K	740	DC24V
WW-FLS102T28WW140TC-24(WCP)-UR-SE-100-TH-IC						Warm White	2700K	740	DC24V
WW-FLS102T28WW140TC-24(WCP)-UR-SE-100-TH-IC						Warm White	3000K	765	DC24V
WW-FLS102T28NW140TC-24(WCP)-UR-SE-100-TH-IC						Natural White	4000K	765	DC24V
WW-FLS102T28SW140TC-24(WCP)-UR-SE-100-TH-IC						Standard White	6000K	765	DC24V
WW-FLS102T28SR140TC-24(WCP)-SE-100-TH-IC	≥80	82	96	9.6	10.5	Red	620-630nm	200	DC24V
WW-FLS102T28SG140TC-24(WCP)-SE-100-TH-IC						Green	515-525nm	780	DC24V
WW-FLS102T28SB140TC-24(WCP)-SE-100-TH-IC						Blue	465-475nm	155	DC24V
WW-FLS102T28AY140TC-24(WCP)-SE-100-TH-IC						Yellow	585-595nm	175	DC24V

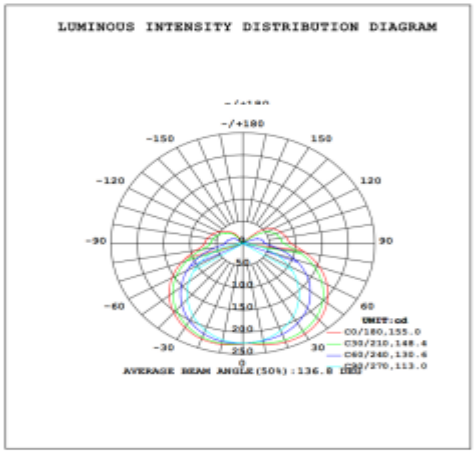
- SDCM for light source: ≤6 (alternative ≤3).
- The typ. Luminous flux tolerance range is ±10% (subject to the manufacturer's instrument test).

Optical Test Diagram

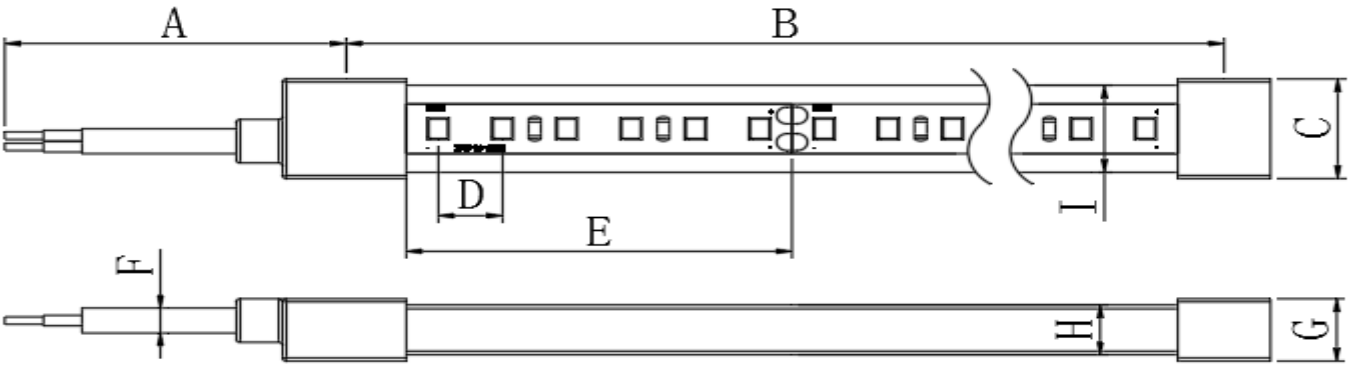
Neon Flex





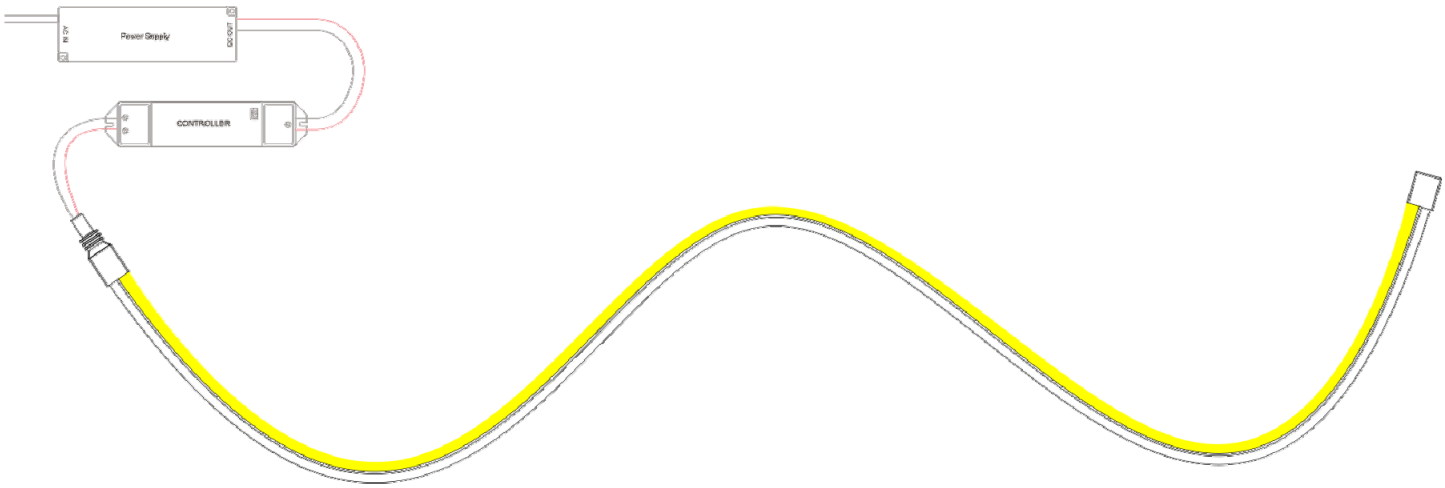


Dimension Drawing

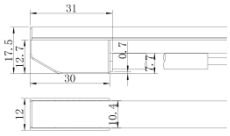
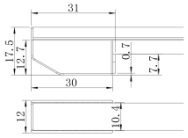


A Cable Length	B Strip length	C Cap width	D Distance of LEDS	E Cutting unit	F Cable diameter	G Cap thickness	H Strip thickness	I Strip width
300±10mm	10000±50mm	17±0.5mm	7.14±0.2mm	50±0.2mm	6.0±0.2mm	12±0.5mm	10±0.5mm	10±0.5mm

Circuit Diagram

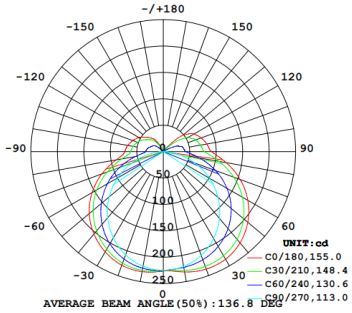


Front & end caps dimensions

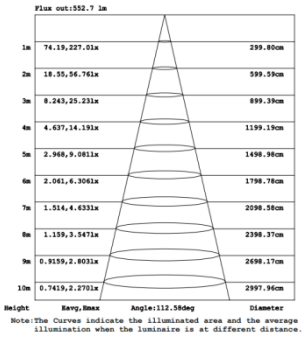
Cable Types	Model No.	Image	Dimension	IP Rating
Double Injection	WW-FLS102T28XX140TC-24(WCP)-XX-SE-100-TH			IP65
				

Optical Parameters

Distribution Curve Flux

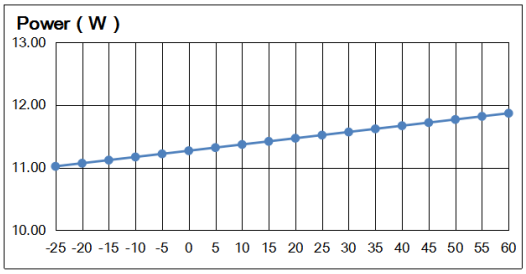


Illuminance

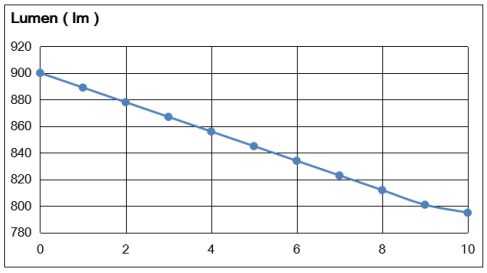


Figures of typical characteristics

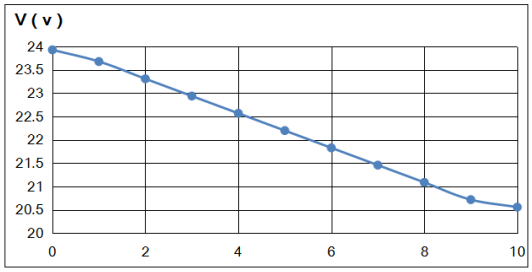
Relation of Working Temperature and Power



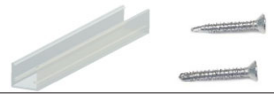
Relation of luminous flux and strip length
(Only suitable for white series)



Relation of operating voltage and strip length



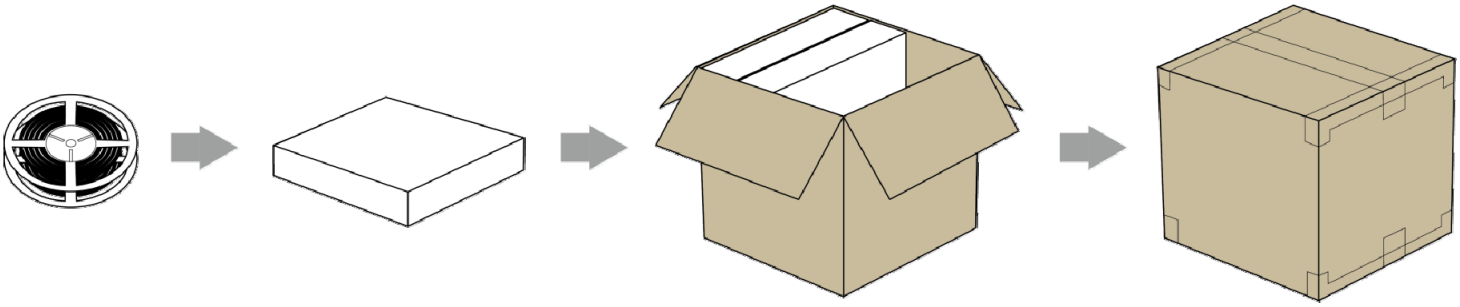
Standard Accessories

Image	Part No.	Description
	WW-PC1212-0025	Installation accessories set (PC mounting clips, screws)

Optional Accessories

Image	Part No.	Description
	WW-AP1211-200	L2000*W11.7*H10.5mm
	WW-LG1110-500	TC-type 10mm moldable profile

Packaging Diagram



Packaging Information

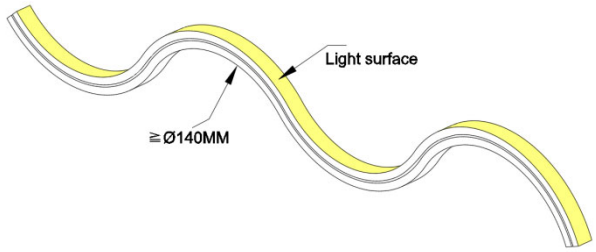
Ingress protection rating	White box size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65	345*330*61MM	/	/	362*265*350MM	4	5.94kg	7.757kg	0.05366m³
	13.58*12.99*2.4 in	/	/	14.25*10.43*13.78 in	4	13.1Lb	17.1Lb	1.185ft3

Remarks :

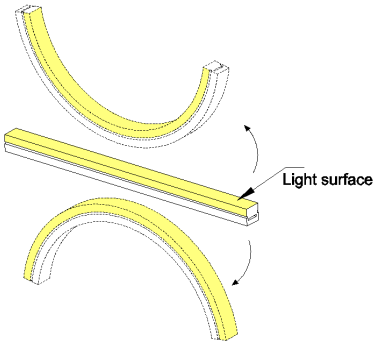
- Please contact our sales manager for customized package (color box, blister etc.)

Instruction of Removal Light Source

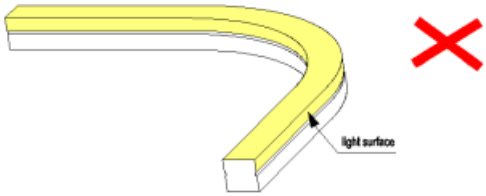
1.Do not bend smaller than allowed minimum bending diameter



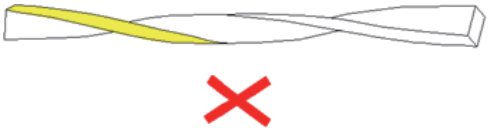
2.The neon strip can only be bent laterally (Along the FPC inside).



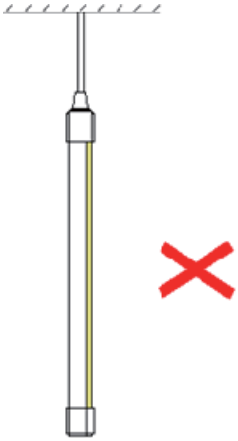
3.Don't bend the LED strip Horizontal , it will damage the circuit inside and cause product function failure.

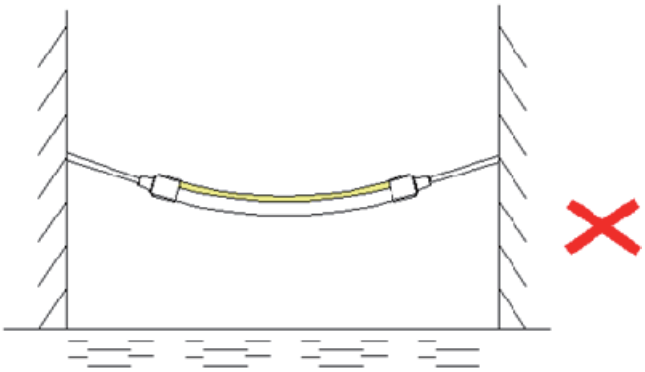


4.Don't twist the LED strip, it will damage the circuit inside and cause product function failure.



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





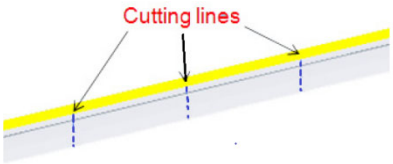
6、 Press the neon flex into mounted aluminum profile in one direction (Angle between strip and aluminum<15 degrees).

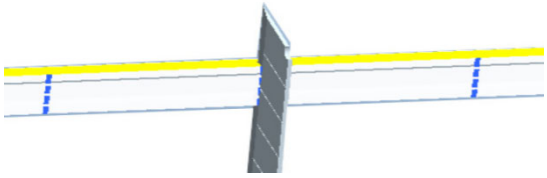
7、 Incorrect installation like below pictures could lead to product function failure.

Cutting Instruction

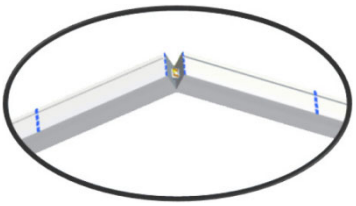
- The cutting line logo on the Neon strip marked by calculated dimension, it has a little bit deviation between internal cutting line marked on the PCB surface;
- Please follow the cutting guidance as below:

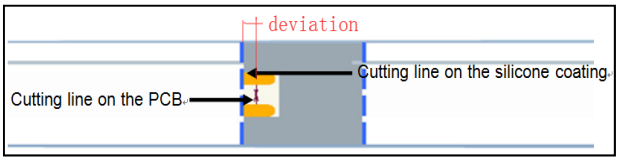
Step 1: Fine the cutting line on the silicone coating, slice the silicone coating vertically by knife along the cutting line, but do not hurt the PCB inside.



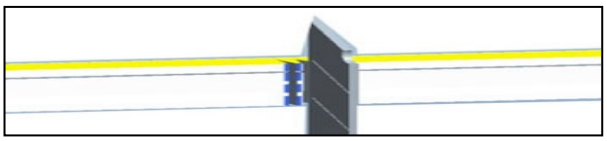


Step 2: Split the broken silicone coating and observe the deviation between "Cutting line on the PCB" and "Cutting line on the silicone coating side"

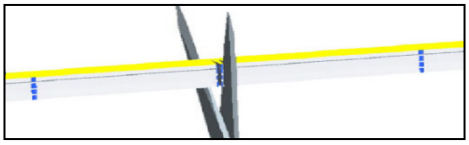




Step 3: Find the cutting line on the PCB, adjust to the exact cutting location and slice the silicone coating again.



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



Cautions

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.**

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