

Product Specification

Neon Flex Horizontal Bending Single Color Series (Type TH)

WW-FLS102T28XX084TA-24(WCP)-XX-SE-080-TH



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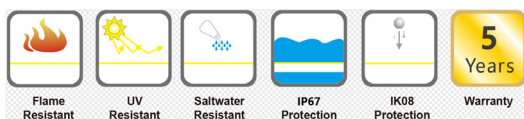
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Product Features

- High quality FPC
- Dilux self-encapsulated LED
- Light source lifetime:50K hours
- Horizontal bending
- High quality silicone material
- IP67&IP65 waterproof
- Min.Bending Diameter:Φ100mm



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:

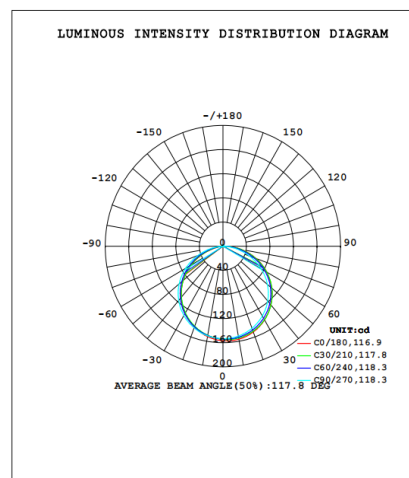
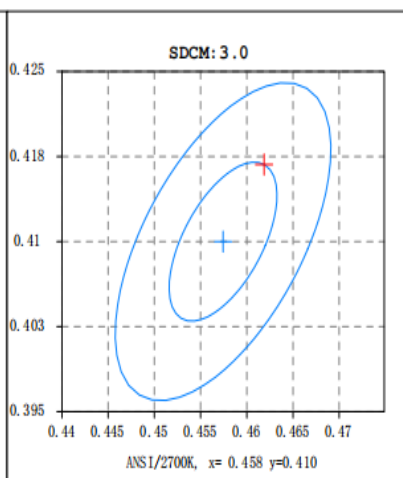
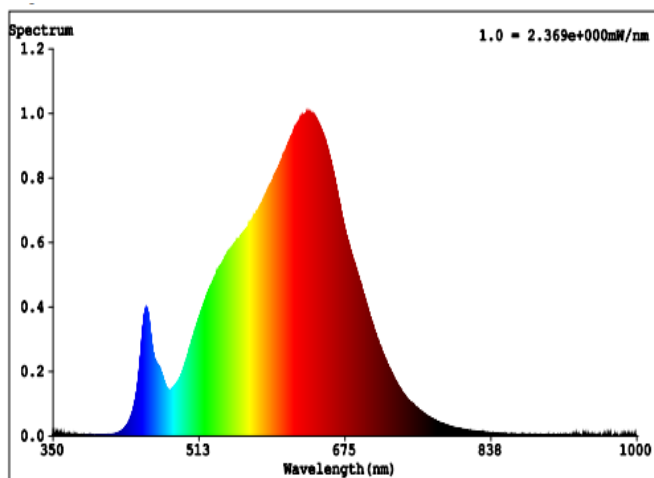
- Surrounding temperature: 26°C.
- Test while turning on.

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-FLS102T28WW084TA-24(WCP)-HR-SE-080-TH	≥80	82	96	9.6	10.5	Warm White	2500K	340	DC24V
WW-FLS102T28WW084TA-24(WCP)-HR-SE-080-TH						Warm White	2700K	340	DC24V
WW-FLS102T28WW084TA-24(WCP)-HR-SE-080-TH						Warm White	3000K	370	DC24V
WW-FLS102T28NW084TA-24(WCP)-HR-SE-080-TH						Natural White	4000K	370	DC24V
WW-FLS102T28SW084TA-24(WCP)-HR-SE-080-TH						Standard White	6000K	370	DC24V
WW-FLS102T28WW084TA-24(WCP)-UR-SE-080-TH	≥90	90	100	9.6	10.5	Warm White	2500K	290	DC24V
WW-FLS102T28WW084TA-24(WCP)-UR-SE-080-TH						Warm White	2700K	290	DC24V
WW-FLS102T28WW084TA-24(WCP)-UR-SE-080-TH						Warm White	3000K	310	DC24V
WW-FLS102T28NW084TA-24(WCP)-UR-SE-080-TH						Natural White	4000K	310	DC24V
WW-FLS102T28SW084TA-24(WCP)-UR-SE-080-TH						Standard White	6000K	310	DC24V
WW-FLS102T28SR084TA-24(WCP)-SE-080-TH	≥80	82	96	9.6	10.5	Red	620-630nm	50	DC24V
WW-FLS102T28SG084TA-24(WCP)-SE-080-TH						Green	515-525nm	210	DC24V
WW-FLS102T28SB084TA-24(WCP)-SE-080-TH						Blue	465-475nm	40	DC24V
WW-FLS102T28AY084TA-24(WCP)-SE-080-TH						Yellow	585-595nm	50	DC24V

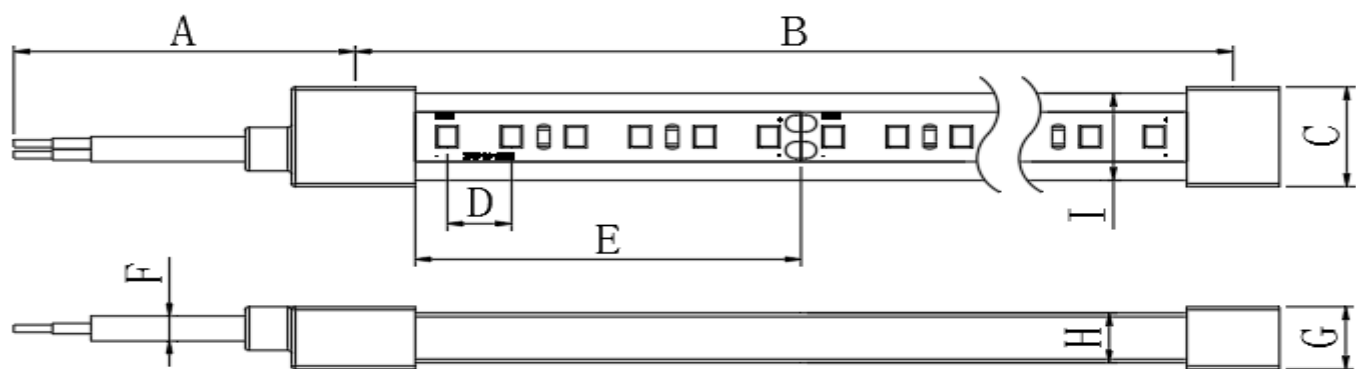
- SDCM for light source: ≤6 (alternative ≤3).
- The typ. Luminous flux tolerance range is ±10% (subject to the manufacturer's instrument test).

Optical Test Diagram

Neon Flex

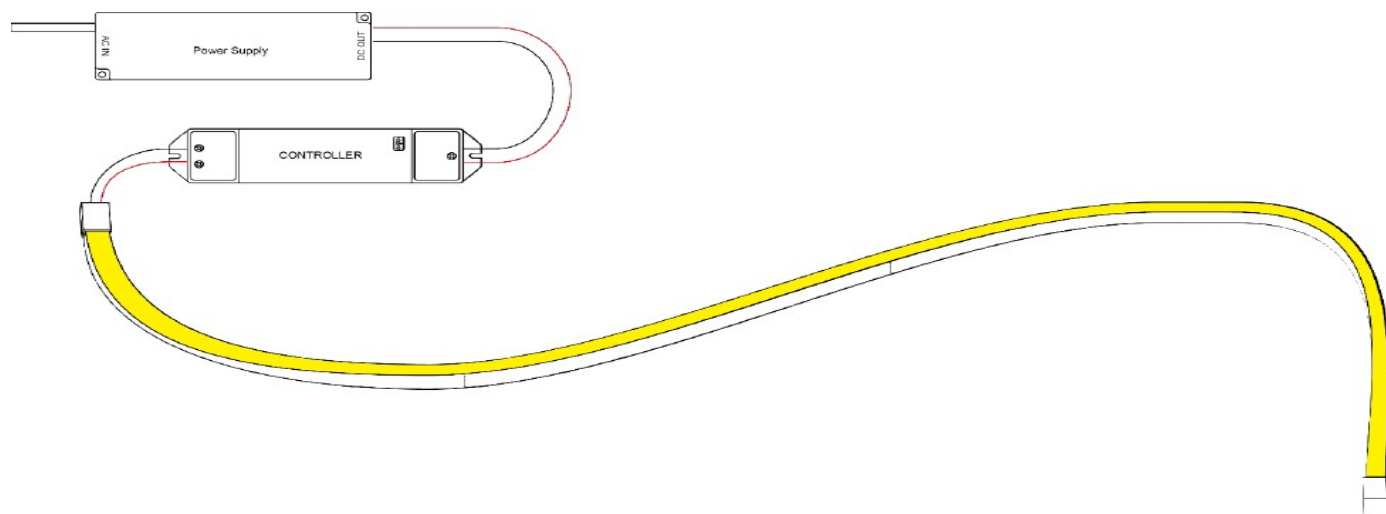


Dimension Drawing

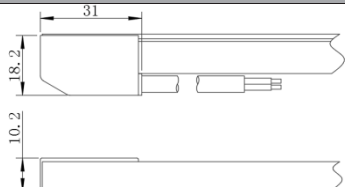
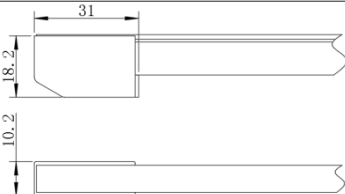


A	B	C	D	E	F	G	H	I
Cable Length	Strip length	Cap width	Distance of LEDS	Cutting unit	Cable diameter	Cap thickness	Strip thickness	Strip width
300±10mm	5000±50mm	18.2±0.5mm	8.33±0.2mm	50±0.2mm	6.0±0.2mm	10.2±0.5mm	8±0.5mm	12±0.5mm

Circuit Diagram

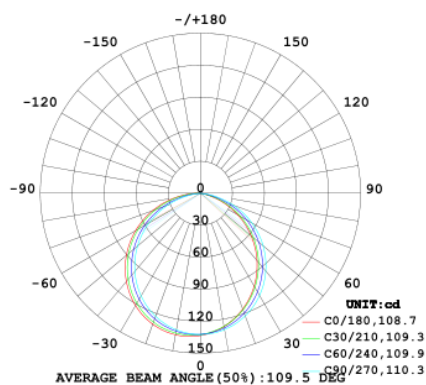


Front & end caps dimensions

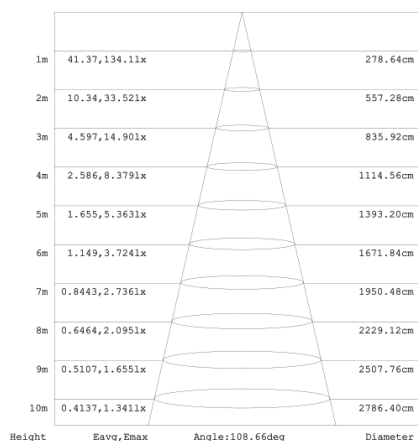
Cable Types	Model No.	Image	Dimension	IP Rating
Bottom cable	WW-FLS102T28XX084TA-24(WCP)-XX-SE-080-TH			IP65
				

Optical Parameters

Distribution Curve Flux

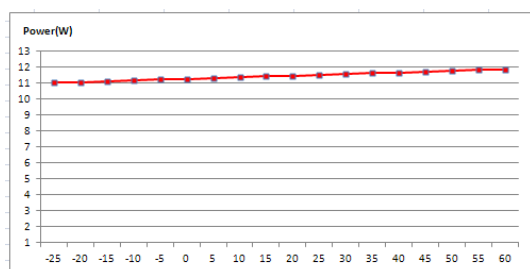


Illuminance

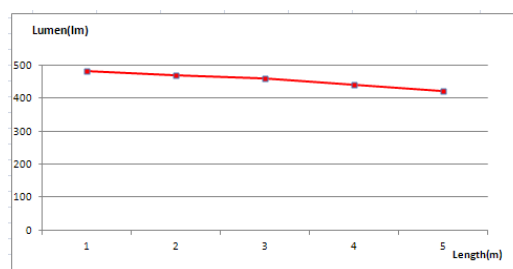


Figures of typical characteristics

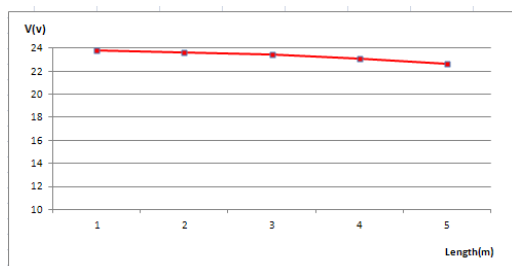
Relation of Working Temperature and Power



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



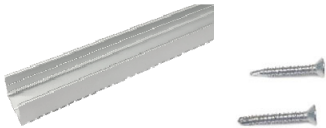
Relation of operating voltage and strip length



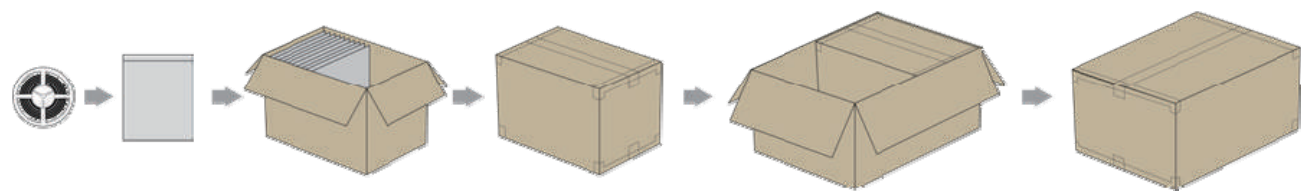
Standard Accessories

Image	Part No.	Description
	WW-FLS102TA-CW(8mm)-TT2	Cutting accessories set (Front & end cap, power cord)
	WW-T0710-0025(1000S)	Installation accessories set (Stainless steel mounting buckle, screws)

Optional Accessories

Image	Part No.	Description
	WW-AP1510-200	L2000*W10.2*H15.2mm
	WW-LG0911-500	TA-type 8mm moldable profile

Packaging Diagram



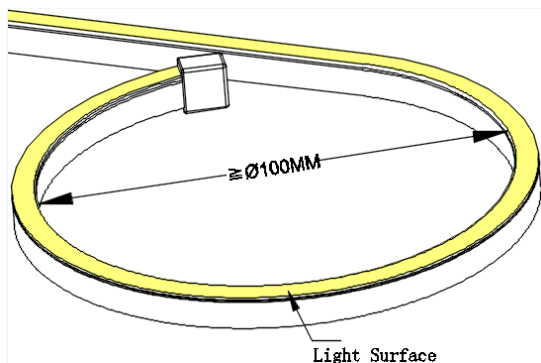
Packaging Information

Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65	350*380*0.14mm	330*200*330mm	6	420*350*365mm	12	6.83KG ±10%	8.45KG ±10%	0.0537m³
	13.78*14.96*0.006 in	12.99*7.87*12.99 in	6	16.54*13.78 *14.37 in	12	15.1 Lbs ±10%	18.63 Lbs ±10%	1.898ft³

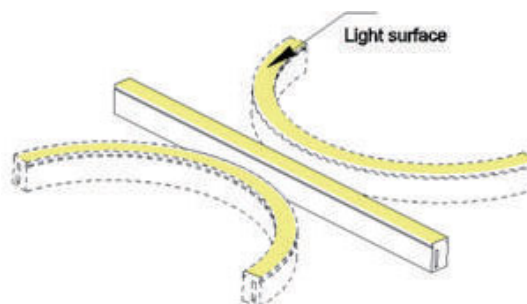
- Remarks :
- Please contact our sales manager for customized package (color box, blister etc.)

Instruction of Removal Light Source

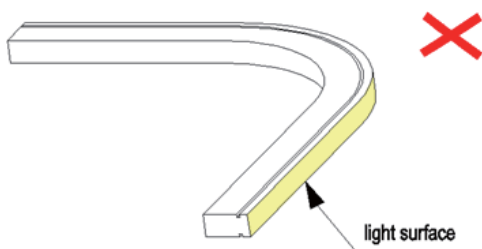
1. Do not bend smaller than allowed minimum bending diameter



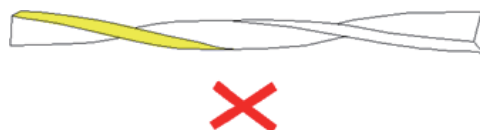
2. The neon strip can only be bent laterally (Along the FPC inside).



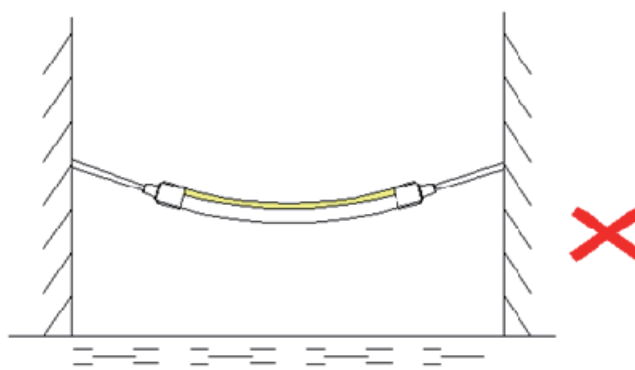
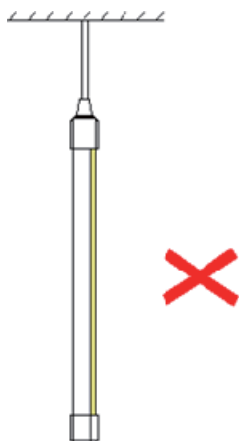
3. Don't bend the LED strip vertically, it will damage the circuit inside and cause product function failure.



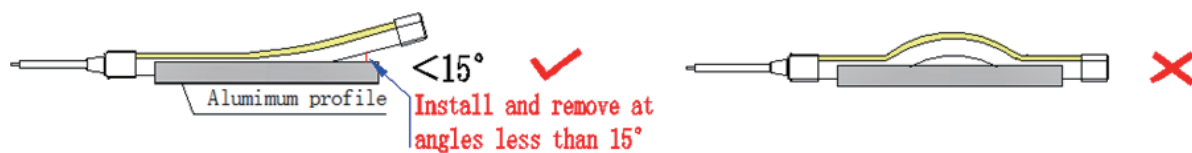
4. Don't twist the LED strip, it will damage the circuit inside and cause product function failure.



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).



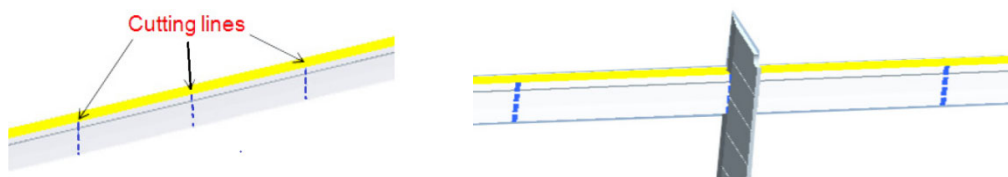
- 7、 Incorrect installation like below pictures could lead to product function failure.



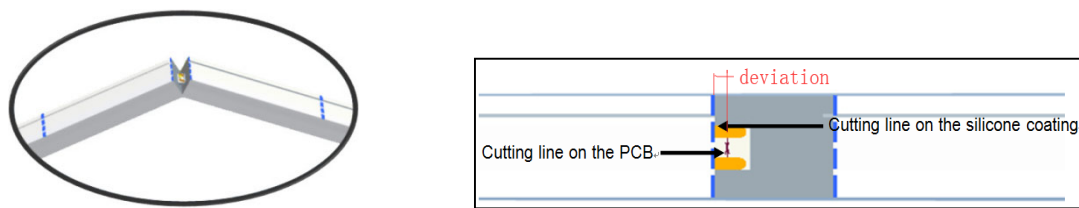
Cutting Instruction

- 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:

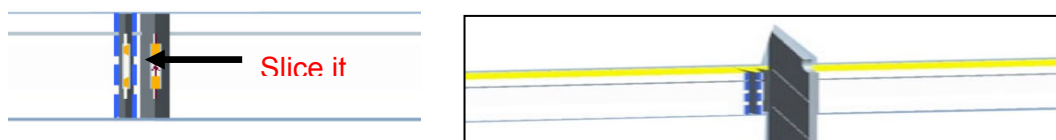
Step 1: Fine the cutting line on the silicone coating, slice the silicone coating vertically by knife along the cutting line, but do not hurt the PCB inside.



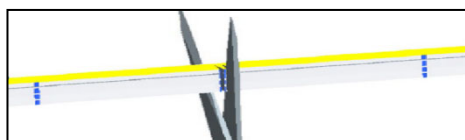
Step 2: Split the broken silicone coating and observe the deviation between "Cutting line on the PCB" and "Cutting line on the silicone coating side"



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		Operating temperature -20°C~+45°C (-4°F~+113°F)		Storage temperature 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.**