V2.0

Product Specification

Neon Flex

Horizontal Bending Single Color Series

(Type TA)

WW-FLS102T28XX120TA-24(WCP)-XR-SE-080-XX
&
WW-FLS102T28XX120TA-24(WCP)-XR-SE-080-XX-EP
(Removal Light Source)

Apply to ERP Regulation (EU) 2019/2020

HK Office :
Unit 1901, 19th Floor, NanYang Plaza, No. 57 Hung To Road
Kwun Tong, Kowloon, Hong Kong

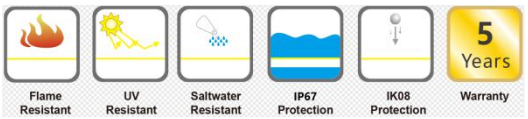
Tel : (852) 3152 3059 (10 lines)
Fax : (852) 3152 3039

China Factory :
Zhiyang Science and Technology Park, 10 Zhiyang Road, Zhangge,
Fucheng Street, Longhua District, Shenzhen, Guangdong, China

Tel : (86) 755 8601 9190
Fax : (86) 755 8601 9197

Product Features

- 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
- IP67&IP65 waterproof
- Min.Bending Diameter:Φ100mm
- Single-ended power supply maximum length：7m





Technology info

- Lighting Technology: LED
- DLS or NDLS: NDLS
- MLS or NMLS: NMLS
- Type of light source: SMD2835
- Energy consumption KW/1000h/0.5M:5.76
- 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-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX-EP	≥80	82	96	11.52	12.67	Warm White	2500K	400	DC24V
WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX-EP						Warm White	2700K	400	DC24V
WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX-EP						Warm White	3000K	430	DC24V
WW-FLS102T28NW120TA-24(WCP)-HR--SE-080-XX WW-FLS102T28NW120TA-24(WCP)-HR--SE-080-XX-EP						Natural White	4000K	430	DC24V
WW-FLS102T28SW120TA-24(WCP)-HR--SE-080-XX WW-FLS102T28SW120TA-24(WCP)-HR--SE-080-XX-EP						Standard White	6000K	430	DC24V
WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX-EP	≥90	90	100	11.52	12.67	Warm White	2500K	340	DC24V
WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX-EP						Warm White	2700K	340	DC24V
WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX-EP						Warm White	3000K	365	DC24V
WW-FLS102T28NW120TA-24(WCP)-UR--SE-080-XX WW-FLS102T28NW120TA-24(WCP)-UR--SE-080-XX-EP						Natural White	4000K	365	DC24V
WW-FLS102T28SW120TA-24(WCP)-UR--SE-080-XX WW-FLS102T28SW120TA-24(WCP)-UR--SE-080-XX-EP						Standard White	6000K	365	DC24V
WW-FLS102T28SR120TA-24(WCP)-SE-080-XX	/	/	/	11.52	12.67	Red	620-630nm	60	DC24V
WW-FLS102T28SG120TA-24(WCP)-SE-080-XX						Green	515-525nm	230	DC24V
WW-FLS102T28SB120TA-24(WCP)-SE-080-XX						Blue	465-475nm	50	DC24V
WW-FLS102T28AY120TA-24(WCP)-SE-080-XX						Yellow	585-595nm	60	DC24V

- 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 ℃.
- 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-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX-EP	≥80	82	96	12.00	13.20	Warm White	2700K	1276	106	F	DC24V
WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX-EP						Warm White	3000K	1322	110	E	DC24V
WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX-EP						Warm White	3500K	1423	119	E	DC24V
WW-FLS102T28NW120TA-24(WCP)-HR--SE-080-XX WW-FLS102T28NW120TA-24(WCP)-HR--SE-080-XX-EP						Natural White	4700K	1440	120	E	DC24V
WW-FLS102T28SW120TA-24(WCP)-HR--SE-080-XX WW-FLS102T28SW120TA-24(WCP)-HR--SE-080-XX-EP						Standard White	8000K	1335	111	E	DC24V
WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX-EP	≥90	90	100	12.0	13.2	Warm White	2700K	1089	91	F	DC24V
WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX-EP						Warm White	3000K	1136	95	F	DC24V
WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX-EP						Warm White	3500K	1184	99	F	DC24V
WW-FLS102T28NW120TA-24(WCP)-UR--SE-080-XX WW-FLS102T28NW120TA-24(WCP)-UR--SE-080-XX-EP						Natural White	4700K	1169	97	F	DC24V
WW-FLS102T28SW120TA-24(WCP)-UR--SE-080-XX WW-FLS102T28SW120TA-24(WCP)-UR--SE-080-XX-EP						Standard White	8000K	1181	99	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 Removal Light Source

Test condition:

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

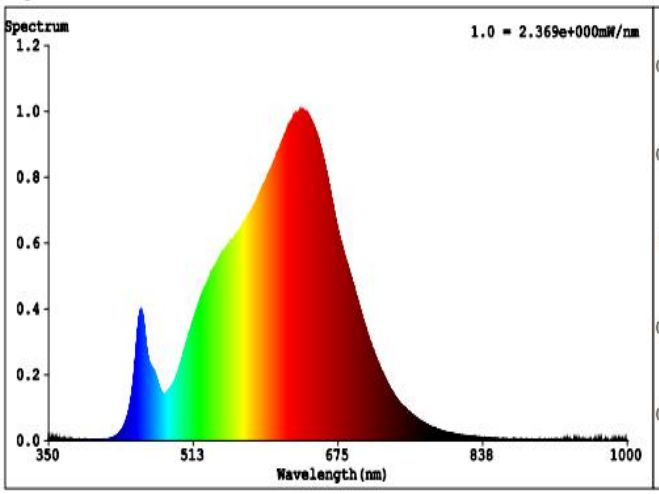
Removal of Light Source									
Neon Flex Model No.	CRI (Ra)	Rf	Rg	Typical Power (W/M)	Max. Power (W/M)	Color	Range of LED Color Temp.(K) Wavelength(nm)*	Typ. Luminous Flux LM/M(39.37in)	Rated voltage
WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX-EP	≥80	82	96	11.80	12.98	Warm White	2600-2900K	1182	DC24V
WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX-EP						Warm White	2900-3200K	1232	DC24V
WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-HR--SE-080-XX-EP						Warm White	3200-3700K	1310	DC24V
WW-FLS102T28NW120TA-24(WCP)-HR--SE-080-XX WW-FLS102T28NW120TA-24(WCP)-HR--SE-080-XX-EP						Natural White	4500-5000K	1328	DC24V
WW-FLS102T28SW120TA-24(WCP)-HR--SE-080-XX WW-FLS102T28SW120TA-24(WCP)-HR--SE-080-XX-EP						Standard White	7000-9000K	1224	DC24V
WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX-EP	≥90	90	100	11.80	12.98	Warm White	2600-2900K	1182	DC24V
WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX-EP						Warm White	2900-3200K	1232	DC24V
WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX WW-FLS102T28WW120TA-24(WCP)-UR--SE-080-XX-EP						Warm White	3200-3700K	1310	DC24V
WW-FLS102T28NW120TA-24(WCP)-UR--SE-080-XX WW-FLS102T28NW120TA-24(WCP)-UR--SE-080-XX-EP						Natural White	4500-5000K	1328	DC24V
WW-FLS102T28SW120TA-24(WCP)-UR--SE-080-XX WW-FLS102T28SW120TA-24(WCP)-UR--SE-080-XX-EP						Standard White	7000-9000K	1224	DC24V

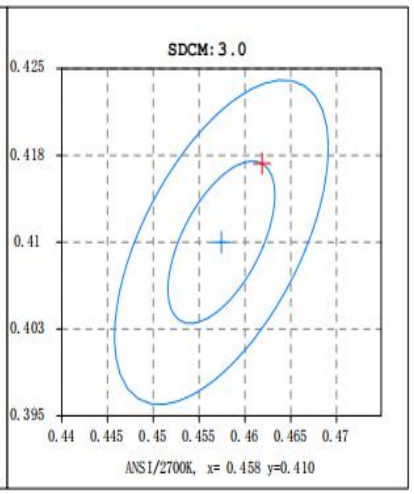
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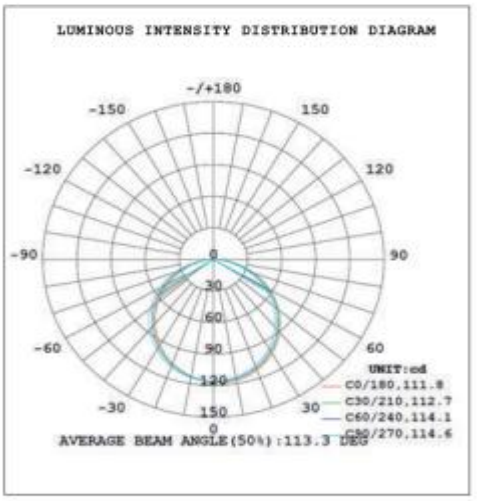
- * The above color temperature is the color temperature of LED source.
- SDCM for light source: ≤6 (alternative ≤3).
- The typ. Luminous flux tolerance range is ±10% (subject to the manufacturer's instrument test).

Optical Test Diagram

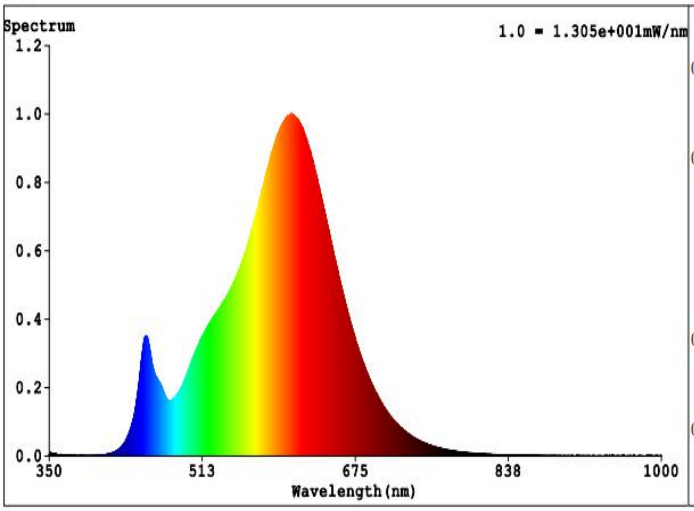
Neon Flex

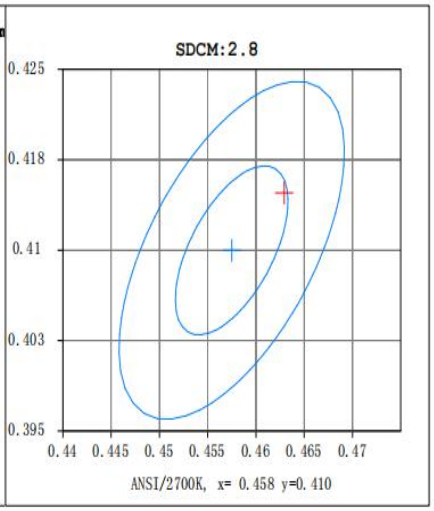


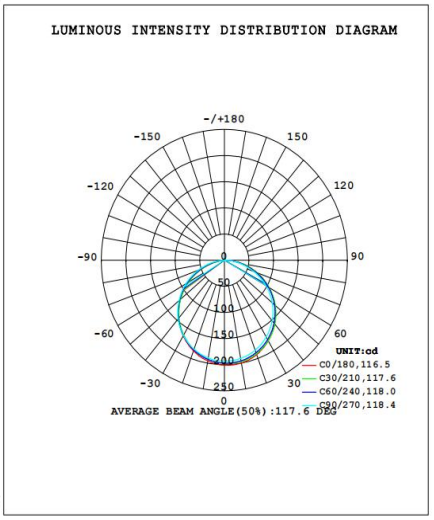




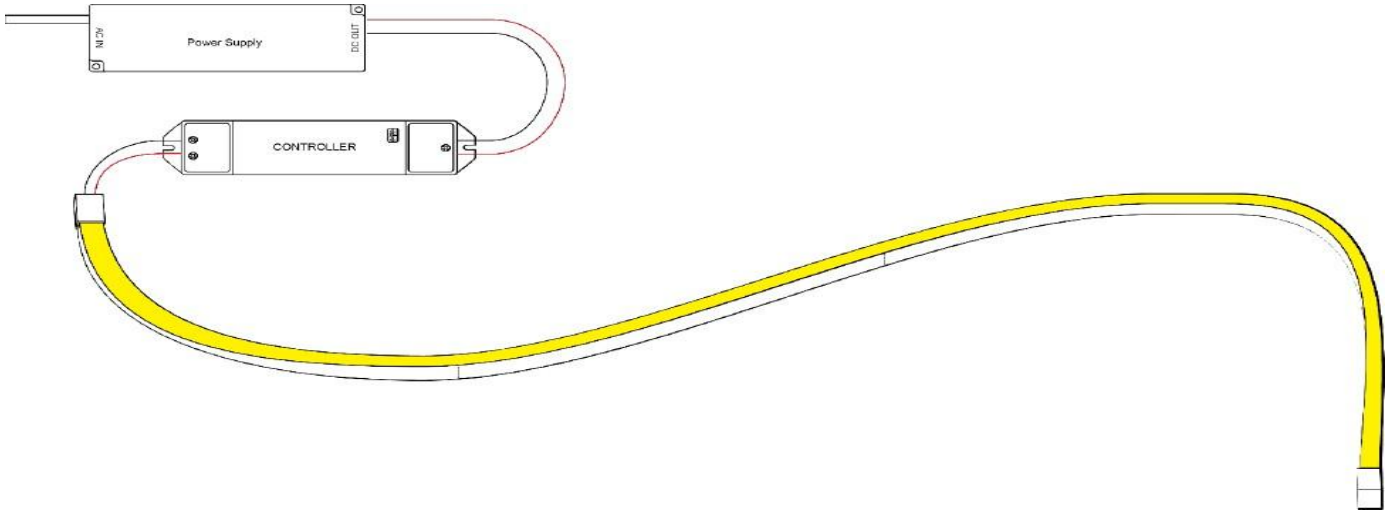
Removal Light Source





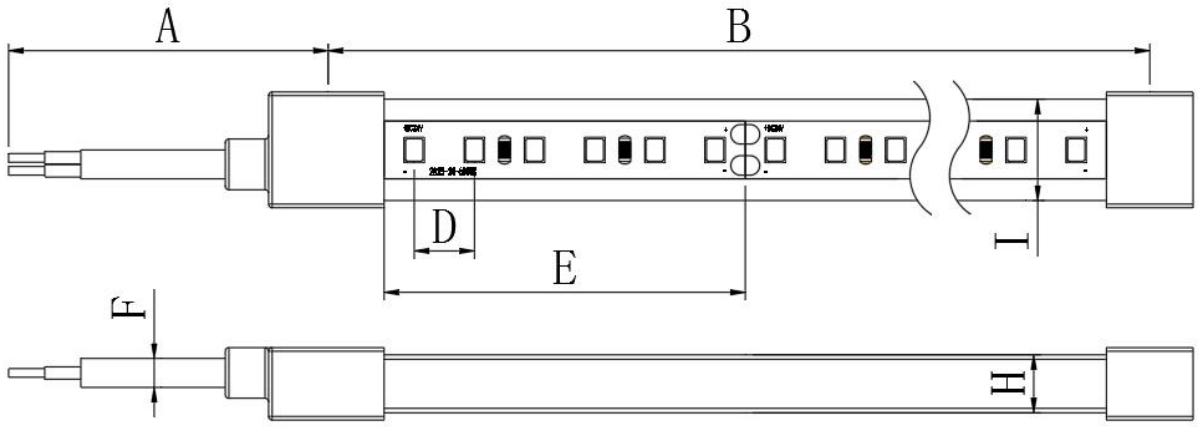


Circuit Diagram



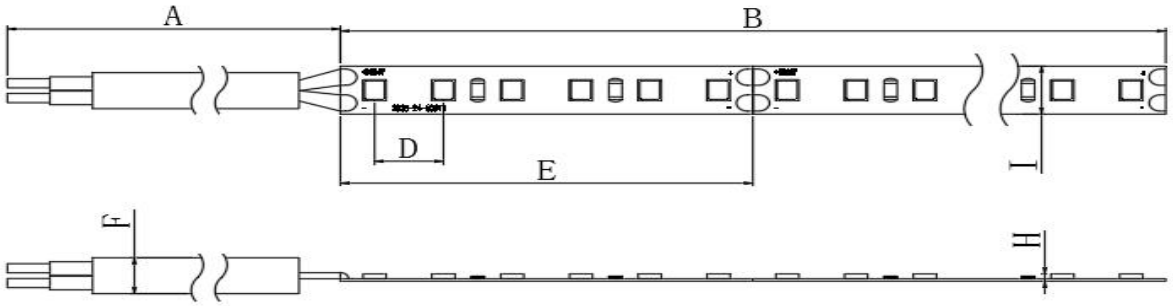
Dimension Drawing

Neon Flex



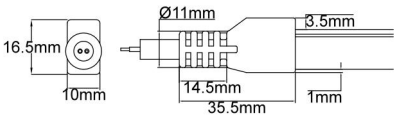
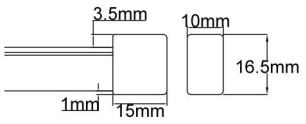
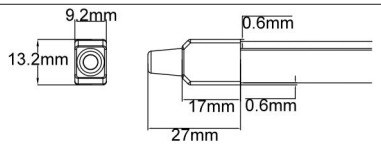
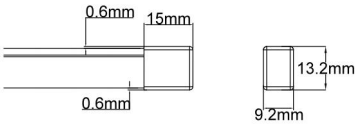
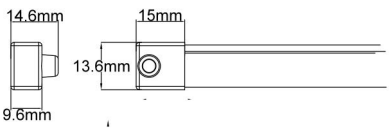
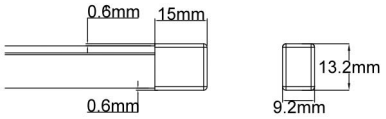
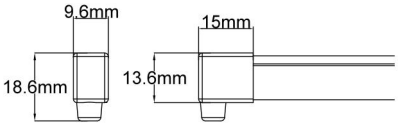
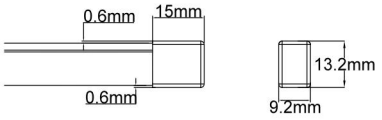
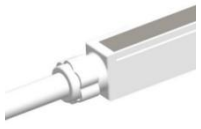
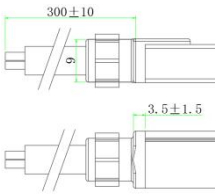
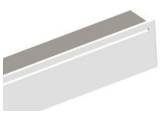
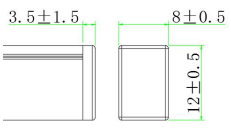
A Cable Length	B Strip length	D Distance of LEDS	E Cutting unit	F Cable diameter	H Strip thickness	I Strip width
300±10mm	5000±50mm	8.33±0.2mm	50±0.2mm	6.0±0.2mm	8±0.5mm	12±0.5mm

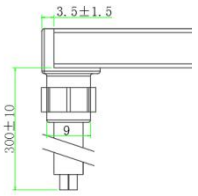
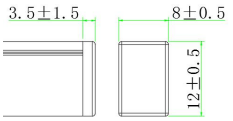
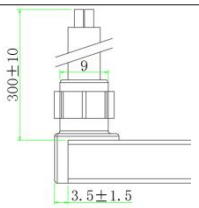
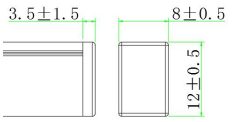
Removal Light Source



A Cable Length	B Strip length	D Distance of LEDS	E Cutting unit	F Cable diameter	H Strip thickness	I Strip width
300±10mm	5000±50mm	8.33±0.2mm	50±0.2mm	6.0±0.2mm	1.2±0.2mm	8±0.2mm

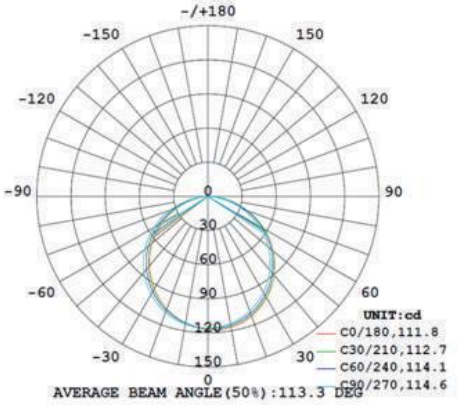
Front & end caps

Cable Types	Model No.	Image	Dimension	IP Rating
Double Injection	TA8X12-TS			IP67
				
Same Width	TA8X12-TT2			IP65
				
Side cable	TA8X12-TC			IP65
				
Bottom cable	TA8X12-TD			IP65
				
Double Injection	TA8X12-TS2			IP65
				

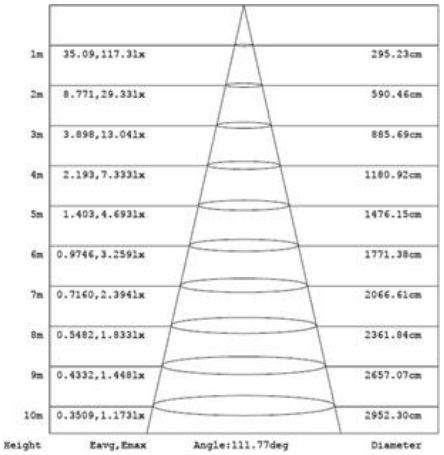
Cable Types	Model No.	Image	Dimension	IP Rating
Right cable	TA8X12-TL2			IP65
				
Left cable	TA8X12-TR2			IP65
				

Optical Parameters

Distribution Curve Flux

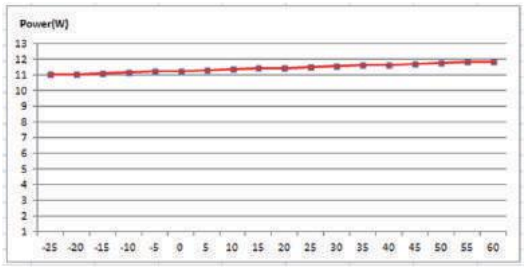


Illuminance

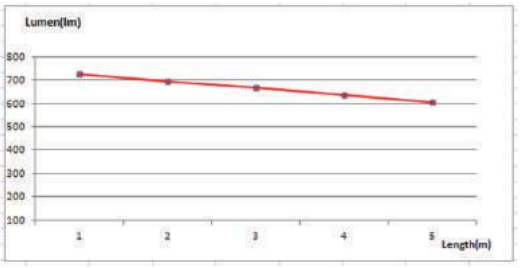


Figures of typical characteristics

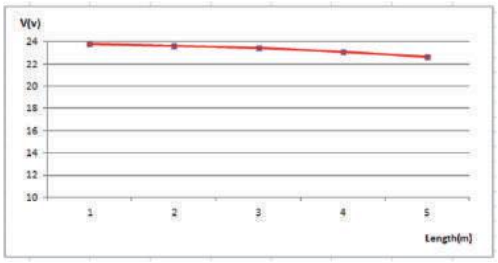
Relation of Working Temperature and Power



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-T0710-0025(1000S)	Installation accessories set (Stainless steel mounting buckle, screws)

Optional Accessories

Image	Part No.	Description
	WW-AP1510-200	Aluminum Profile: L2000*W10.2*H15.2mm
	WW-LG0911-500	TA-type 8mm moldable profile
	WW-FLS102TA-CW(8mm)-TT2	Cutting accessories set (Front & end cap, power cord)
	WW-FLS102TA-CW(8mm)-TC	Cutting accessories set (Front & end cap, power cord)
	WW-FLS102TA-CW(8mm)-TD	Cutting accessories set (Front & end cap, power cord)
	WW-F2TA-08-SET	Cutting accessories set (Quick connector set)

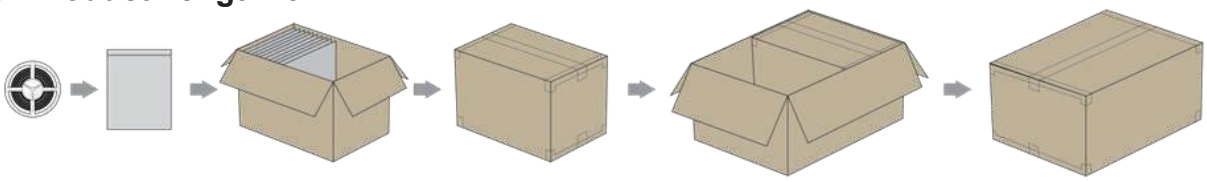
Packaging

Solution 1：
For Product Length≤5M



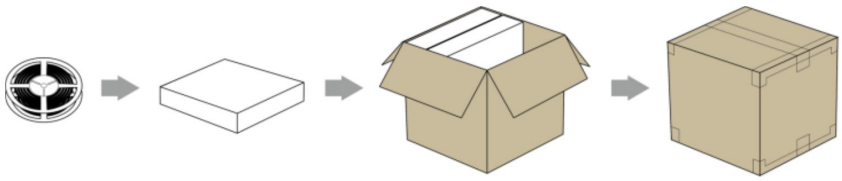
Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65/IP67	/	/	/	420*350*365mm	20	8.8KG ±10%	9.46 KG ±10%	0.0537m³
	/	/	/	16.54*13.78 *14.37 in	20	19.40 Lbs ±10%	20.86 Lbs ±10%	1.898ft³

Solution 2：
For Product Length=5M



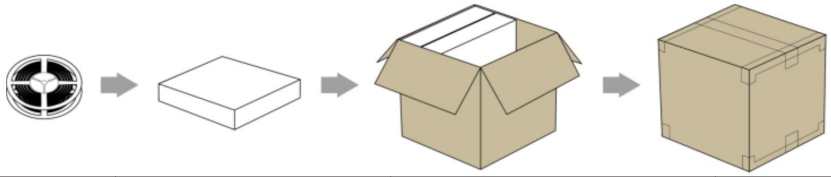
Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65/IP67	350*380*0.14mm	330*200*330mm	6	420*350*365mm	12	5.29KG ±10%	11.36KG ±10%	0.0537m³
	13.78*14.96*0.006 in	12.99*7.87*12.99 in	6	16.54*13.78 *14.37 in	12	11.66 Lbs ±10%	25.04 Lbs ±10%	1.898ft³

Solution 3：
For Product Length=10M



Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65/IP67	254*45mm	270*255*53mm	1	280*240*283mm	4	3.52KG ±10%	6.82KG ±10%	0.019m3
	10*1.77in	10.63*10.04*2.08 in	1	11.02*9.45 *11.14 in	4	7.76 Lbs ±10%	15.03 Lbs ±10%	0.67ft3

For Product Length=20M

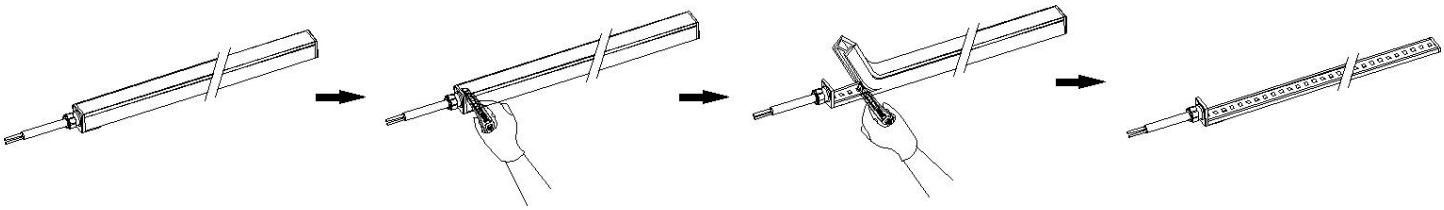


Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65/IP67	330*50mm	345*330*61mm	1	362*265*350mm	4	7.04KG ±10%	12.27KG ±10%	0.0335m3
	12.99*1.96in	13.58*12.99*2.4in	1	14.25*10.43*13.77in	4	15.52 Lbs ±10%	27.05Lbs ±10%	1.185ft3

Remarks :

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

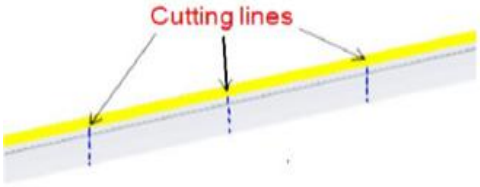
Instruction of Removal Light Source

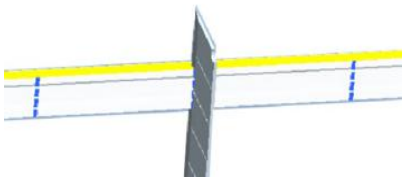


Cutting Instruction

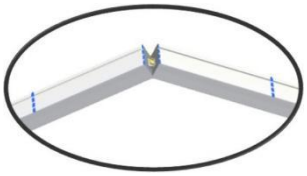
- The cutting line logo on the Neon strip marked by calculated dimension, it has a little bit deviation between internal cutting line marked on the PCB surface;
- Please follow the cutting guidance as below:

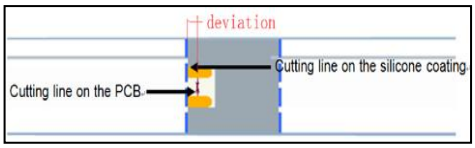
Step 1: Fine the cutting line on the silicone coating, slice the silicone coating vertically by knife along the cutting line, but do not hurt the PCB inside.



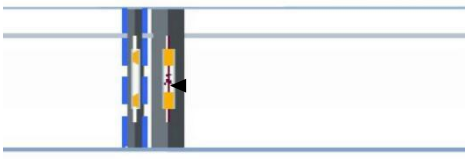


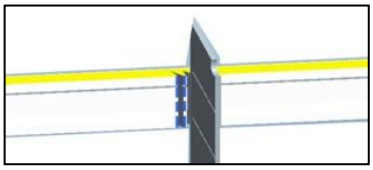
Step 2: Split the broken silicone coating and observe the deviation between "Cutting line on the PCB" and "Cutting line on the silicone coating side"



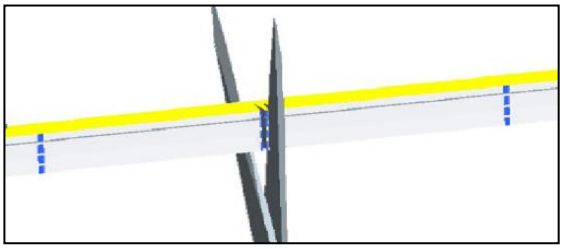


Step 3: Find the cutting line on the PCB, adjust to the exact cutting location and slice the silicone coating again.



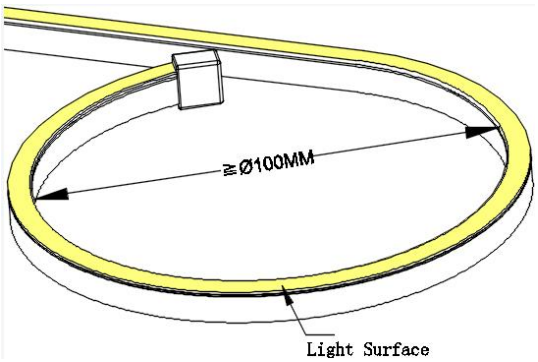


Step 4：Finally, use scissor to separate the Neon Flex along the cutting line on the PCB.

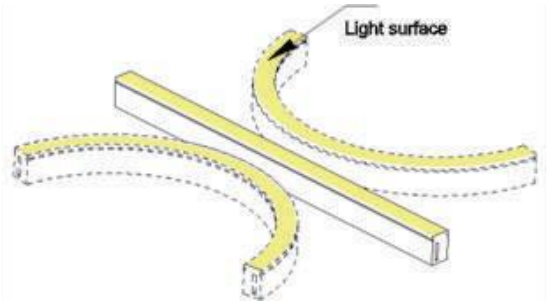


Installation Guidance

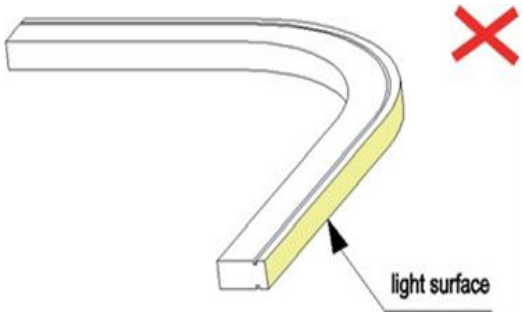
1.Do not bend smaller than allowed minimum bending diameter



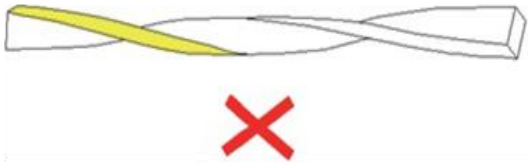
2.The neon strip can only be bent laterally (Along the FPC inside).



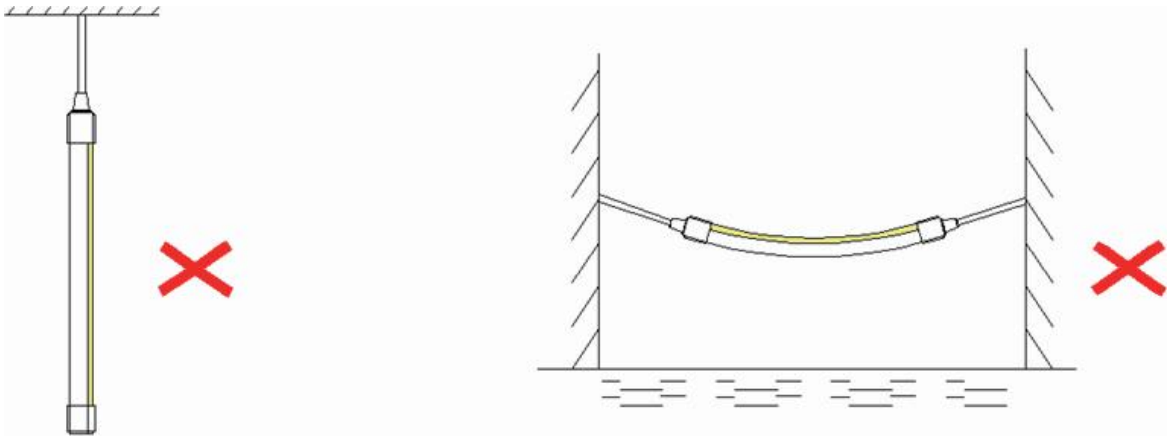
3.Don't bend the LED strip vertically, it will damage the circuit inside and cause product function failure.



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.



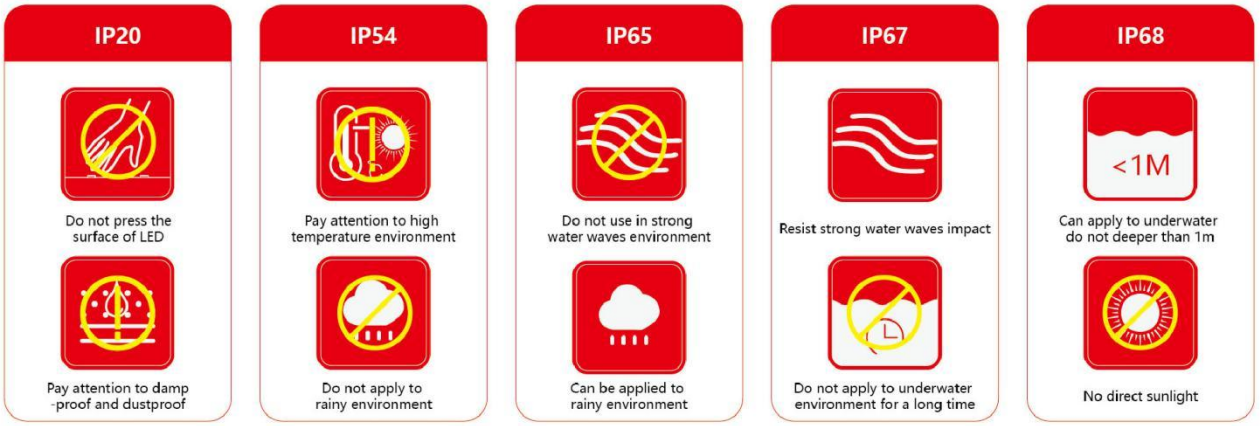
6 、 Press the neon flex into mounted aluminum profile in one direction (Angle between strip and aluminum<15 degrees).

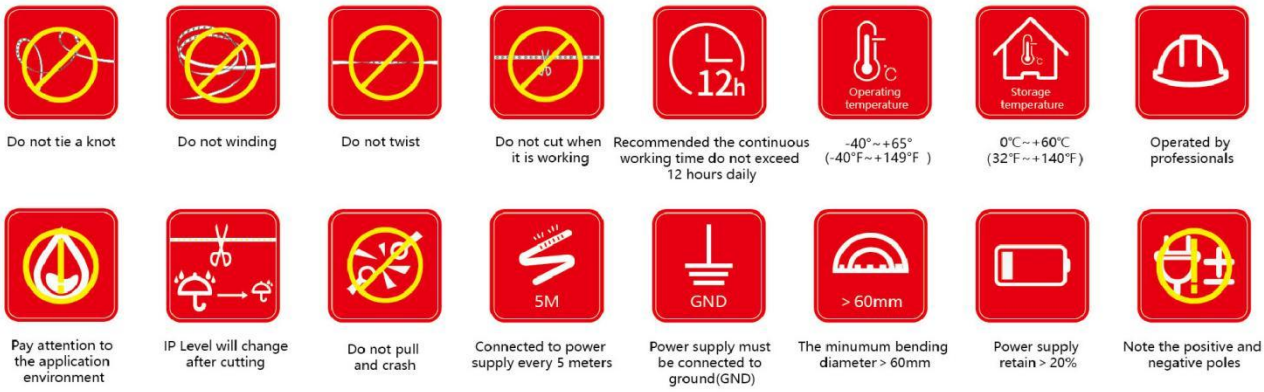


7 、 Incorrect installation like below pictures could lead to product function failure.



Cautions







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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