

Product Specification

Neon Flex Horizontal Bending Single Color Series (Type TA)

WW-FLS102T28XX120TA-24(WCP)-XR-SE-060-XX















HK Office:

Unit 1901, 19th Floor, NanYang Plaza, No. 57 Hung To Road

Innovate the world . Light up your imagination

Kwun Tong, Kowloon, Hong Kong

China Factory

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

Tel: (852) 3152 3059 (10 lines)

Fax: (852) 3152 3039

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Tel: (86) 755 8601 9190

Fax: (86) 755 8601 9197



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:Ф60mm
- Single-ended power supply maximum length: 9m





Technology info

Lighting Technology: LED

DLS or NDLS: NDLS MLS or NMLS: NMLS

Type of light source: SMD2835

Energy consumption KW/1000h/0.5M:5.7

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.

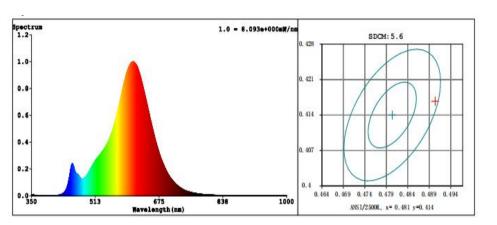
Neon Flex										
Neon Flex Model No.	CRI (Ra)	Rf	Rg	Typ. Power (W/M)	Max. Power (W/M)	Color	Neon Flex Color Temp.(K) Wavelength(nm)	Typ. Luminou s Flux LM/M(39. 37in)	Rated voltage	
WW-FLS102T28SW120TA-24(WCP)-HR-SE-060-XX						Warm White	2500K	310	DC24V	
WW-FLS102T28SW120TA-24(WCP)-HR-SE-060-XX						Warm White	2700K	310	DC24V	
WW-FLS102T28SW120TA-24(WCP)-HR-SE-060-XX	≥80	82	96	11.5	12.6	Warm White	3000K	330	DC24V	
WW-FLS102T28SW120TA-24(WCP)-HR-SE-060-XX						Natural White	4000K	330	DC24V	
WW-FLS102T28SW120TA-24(WCP)-HR-SE-060-XX						Standard White	6000K	330	DC24V	
WW-FLS102T28SW120TA-24(WCP)-UR-SE-060-XX						Warm White	2500K	280	DC24V	
WW-FLS102T28SW120TA-24(WCP)-UR-SE-060-XX						Warm White	2700K	280	DC24V	
WW-FLS102T28SW120TA-24(WCP)-UR-SE-060-XX	≥90	90	100	11.5	12.6	Warm White	3000K	300	DC24V	
WW-FLS102T28SW120TA-24(WCP)-UR-SE-060-XX						Natural White	4000K	300	DC24V	
WW-FLS102T28SW120TA-24(WCP)-UR-SE-060-XX						Standard White	6000K	300	DC24V	
WW-FLS102T28SR120TA-24(WCP)-SE-060-XX						Red	620-630nm	70	DC24V	
WW-FLS102T28SG120TA-24(WCP)-SE-060-XX		,	,	44.5	10.0	Green	515-525nm	280	DC24V	
WW-FLS102T28SB120TA-24(WCP)-SE-060-XX	/	/	/	11.5	12.6	Blue	465-475nm	65	DC24V	
WW-FLS102T28AY120TA-24(WCP)-SE-060-XX						Yellow	585-595nm	70	DC24V	

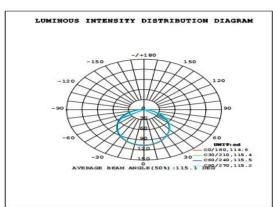
- SDCM for light source: ≤6 (alternative ≤3).
- ullet The typ. Luminous flux tolerance range is $\pm 10\%$ (subject to the manufacturer's instrument test).



Optical Test Diagram

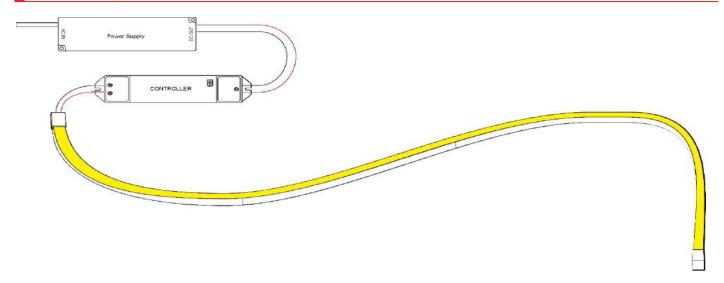
Neon Flex







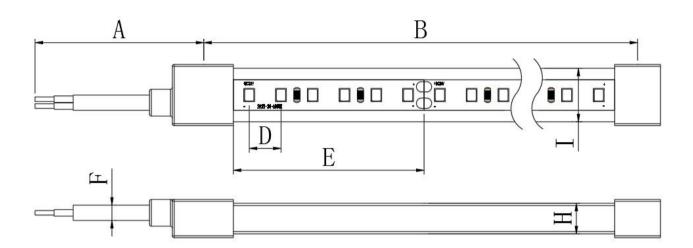
Circuit Diagram





Dimension Drawing

Neon Flex



A	B	D	E	F	H	l
Cable Length	Strip length	Distance of LEDS	Cutting unit	Cable diameter	Strip thickness	Strip width
300±10mm	5000±50mm	8.3±0.2mm	50±0.2mm	6.0±0.2mm	6±0.5mm	



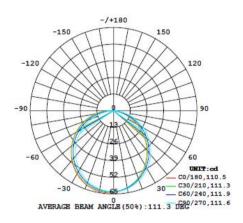
Front & end caps

Cable Types	Model No.	Image	Dimension	IP Rating
Double	uble ction TA6X12-TS		910mm (3.5mm)	IP67
Injection			3.5mm - 8mm	ir 07
Same Width TA6X12-TT2			12. 7mm 💮 ——————————————————————————————————	IP65
	TA6X12-TT2		12. 7mm	IF US

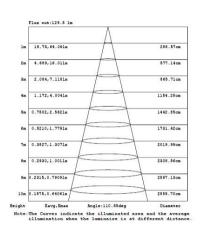


Optical Parameters

Distribution Curve Flux

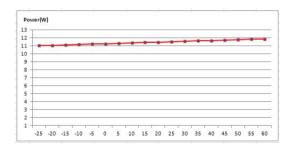


Illuminance

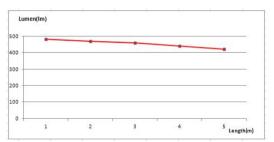


Figures of typical characteristics

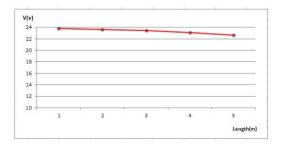
Relation of Working Temperature and Power



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-PC0813-0025	Installation accessories set (PC mounting clips, screws)

Optional Accessories

lmage	Part No.	Description
	WW-AP0813N-200	Aluminum Profile: L2000*W8*H13mm
	WW-LG0712-500	TA-type 6mm moldable profile
	WW-FLS102TA-CW(6mm)-TT2	Cutting accessories set (Front & end cap, power cord)



Packaging

Solution 1:

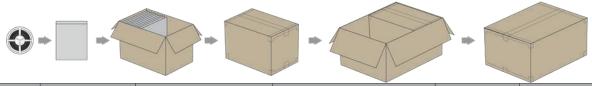
For Product Length≤5M



Ingress		Inner carton		Outer carton		N1 11/	a	Outer carton
protection rating	Bag size	Size	Reel/ctn	Size	Reel/ctn	N.W	G.W	volume
	1	/	1	520*370*300mm	46	18.4KG ±10%	20.64KG ±10%	0.05772m³
IP65/IP67	/	1	1	20.47*14.57 *11.81 in	46	40.56 Lbs ±10%	45.51Lbs ±10%	2.038ft ³

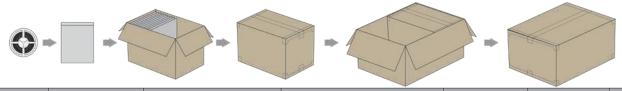
Solution 2:

For Product Length=5M



Ingress		Inner carton		Outer carton			G.W	Outer carton
protection rating	Bag size	Size	Reel/ctn		Reel/ctn	N.W		volume
	270*300*0.14mm	350*250*280mm	18	520*370*300mm	36	14.4KG ±10%	23.94KG ±10%	0.05772m³
IP65/IP67	10.62*11.81*0.006 in	13.78*9.84*11.02 in	18	20.47*14.57 *11.81 in	36	31.75 Lbs ±10%	52.78 Lbs ±10%	2.038ft ³

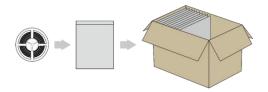
For Product Length=10M



Ingress		Inner carton		Outer carton		N.W	G.W	Outer carton volume
protection rating	Bag size	Size	Reel/ctn	Size	Reel/ctn			
	350*380*0.14mm	330*200*330mm	6	420*350*365mm	12	9.6KG ±10%	14.36KG ±10%	0.0537m³
IP65/IP67	13.78*14.96*0.006 in	12.99*7.87*12.99 in	6	16.54*13.78 *14.37 in	12	21.16 Lbs ±10%	31.66 Lbs ±10%	1.898ft³

Solution 3:

For Product Length=20M



Ingress		Inner carton		Outer carton		NI W	G.W	Outer carton volume
protection rating	Bag size	Size	Reel/ctn		Reel/ctn	N.W		
	470*440*0.14mm	1	/	440*400*260mm	10	16.0KG ±10%	23.94KG ±10%	0.05772m³
IP65/IP67	18.5*17.32*0.006 in	1	1	17.32*15.75 *10.24 in	10	35.27Lbs ±10%	52.77 Lbs ±10%	1.616ft ³

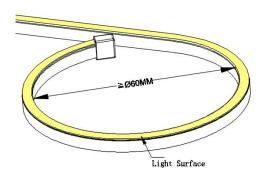
Remarks:

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

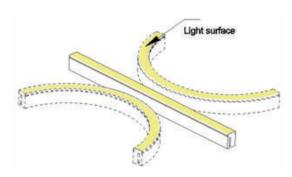


Instruction of Removal Light Source

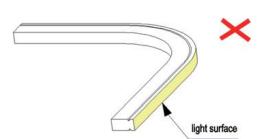
1.Do not bend smaller than allowed minimum bending diameter



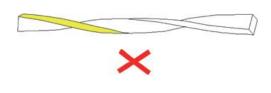
2. The neon strip can only be bent laterally (Along the FPC inside).



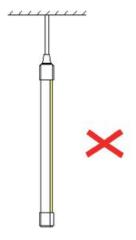
3.Don't bend the LED strip vertically, it will damage the circuit inside and cause product function failure.

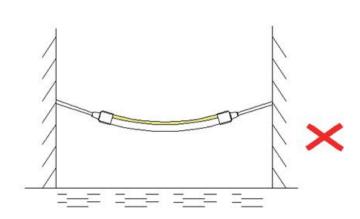


4.Don't twist the LED strip, it will damage the circuit inside and cause product function failure.



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







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

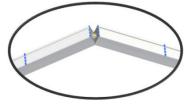
- The cutting line logo on the Neon strip marked by calculated dimension, it has a little bit deviation between internal cutting line marked on the PCB surface;
- Please follow the cutting guidance as below:

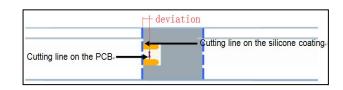
Step 1: Fine the cutting line on the silicone coating, slice the silicone coating vertically by knife along the cutting line, but do not hurt the PCB





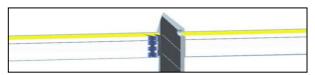
Step 2: Split the broken silicone coating and observe the deviation between "Cutting line on the PCB" and "Cutting line on the silicone coating side"





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

















Do not tie a knot



Do not winding



Do not twist



it is working



Do not cut when Recommended the continuous working time do not exceed 12 hours daily



-40°~+65° (-40°F~+149°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



Connected to power supply every 5 meters



Power supply must be connected to ground(GND)



The minumum bending diameter > 60mm





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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