

Product Specification

Neon Flex Vertical Bending Single Color Series (Type TC)

WW-FLS102T28SW160TC-24(WCP)-XX-V-1010-XX











China Factory:





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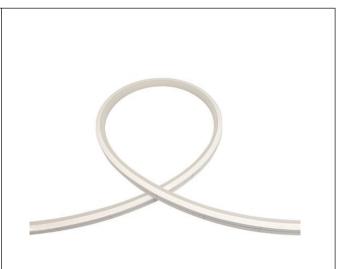




Product Features

- 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
- Single-ended power supply maximum length: 5m





Technology info

Lighting Technology: LED

DLS or NDLS: NDLS MLS or NMLS: NMLS

Type of light source: SMD2835

Energy consumption KW/1000h/0.5M:7.2

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.

			1	Neon	Flex				
Neon Flex Model No.	CRI (Ra)	Rf	Rg	Typ. Power	Max. Power (W/M)	Color	Neon Flex Color Temp.(K) Wavelength(nm)	Typ. Luminous Flux LM/M(39.37in)	Rated voltage
WW-FLS102T28WW160TC-24(WCP)-HR-V-1010- XX						Warm White	2500K	1200	DC24V
WW-FLS102T28WW160TC-24(WCP)-HR-V-1010- XX						Warm White	2700K	1200	DC24V
WW-FLS102T28WW160TC-24(WCP)-HR-V-1010- XX	≥80	80 82 96	96	14.40	15.84	Warm White	3000K	1200	DC24V
WW-FLS102T28NW160TC-24(WCP)-HR-V-1010- XX						Natural White	4000K	1300	DC24V
WW-FLS102T28SW160TC-24(WCP)-HR-V-1010- XX						Standard White	6000K	1300	DC24V
WW-FLS102T28WW160TC-24(WCP)-UR-V-1010- XX						Warm White	2500K	1000	DC24V
WW-FLS102T28WW160TC-24(WCP)-UR-V-1010- XX						Warm White	2700K	1000	DC24V
WW-FLS102T28WW160TC-24(WCP)-UR-V-1010- XX	≥90	90	100	14.40	15.84	Warm White	3000K	1000	DC24V
WW-FLS102T28NW160TC-24(WCP)-UR-V-1010- XX						Natural White	4000K	1100	DC24V
WW-FLS102T28SW160TC-24(WCP)-UR-V-1010- XX						Standard White	6000K	1100	DC24V

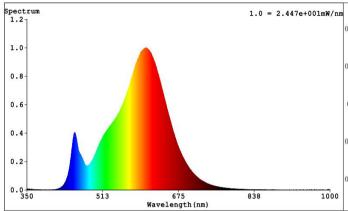
Remark:

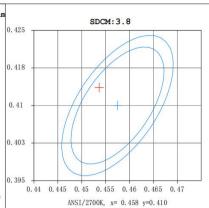
- **The above color temperature represents the color temperature range of Neon strip;
- The lumen value tolerance range is ±20% (subject to the manufacturer's instrument test);

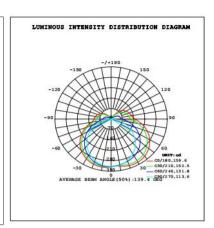


Optical Test Diagram

Neon Flex

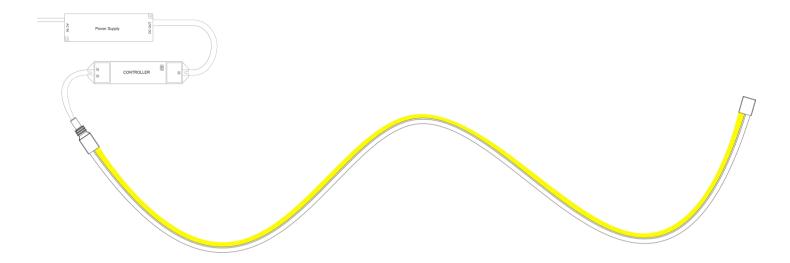






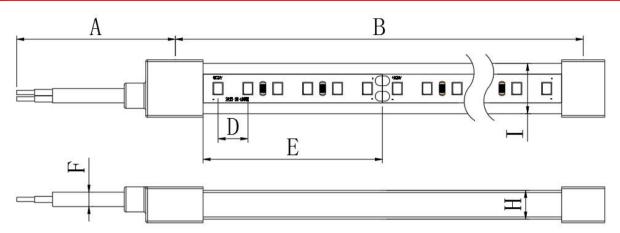


Circuit Diagram





Dimension Drawing



A	B	D Distance of LEDS	E	F	H	l
Cable Length	Strip length		Cutting unit	Cable diameter	Strip thickness	Strip width
300±10mm	5000±50mm	6.25±0.2mm	50±0.2mm	6.0±0.2mm	10±0.5mm	10±0.5mm



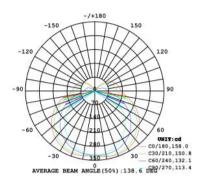
Front & end caps

Cable Types	Model No.	Image	Dimension	IP Rating
Same Width	TC10X10-TS2		300±10 3,5±1.5	IP65
			3.5±1.5 10±0.5 10±0.5	
Same Width	TC10X10-TF		23±0.5	- IP65
Same Final	10.000		11.6±0.5	

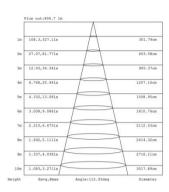


Optical Parameters

Distribution Curve Flux

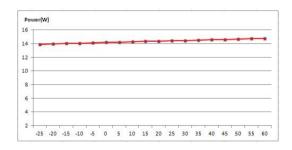


Illuminance

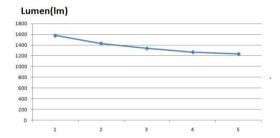


Figures of typical characteristics

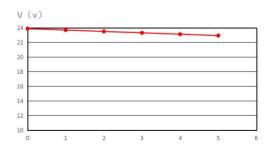
Relation of Working Temperature and Power



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	Aluminum Profile: L2000*W11.7*H10.5mm
	WW-LG1110-500	TC-type 10mm moldable profile
	WW-FLS102TC-CW(10mm)-TF	Cutting accessories set (Front & end cap, power cord)



Packaging

Solution 1:

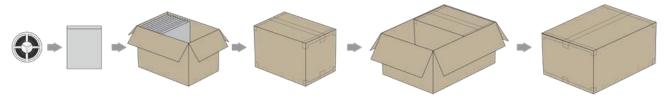
For Product Length≤5M



Ingress		Inner carton		Outer carton		N1 187	0.184	Outer carton
protection rating	Bag size	Size	Reel/ctn		Reel/ctn		G.W	volume
	1	1	1	420*350*365mm	23	12.43KG ±10%	13.52 KG ±10%	0.0537m³
IP65	/	1	1	16.54*13.78 *14.37 in	23	27.41 Lbs ±10%	29.80 Lbs ±10%	1.898ft³

Solution 2:

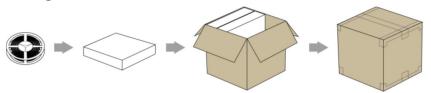
For Product Length=5M



Ingress	B	Inner carton		Outer carton		NI W	0.144	Outer carton
protection rating	Bag size	Size	Reel/ctn		Reel/ctn	N.W	G.W	volume
	350*380*0.14mm	330*200*330mm	6	420*350*365mm	12	7.46KG ±10%	11.76KG ±10%	0.0537m³
IP65	13.78*14.96*0.006 in	12.99*7.87*12.99 in	6	16.54*13.78 *14.37 in	12	16.44 Lbs ±10%	25.92 Lbs ±10%	1.898ft³

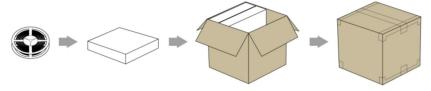
Solution 3:

For Product Length=10M



Ingress				Outer carton			0.111	Outer carton
protection rating	Bag size	Size	Reel/ctn	Size	Reel/ctn	N.W	G.W	volume
	254*45mm	270*255*53mm	1	280*240*283mm	4	4.97 KG ±10%	6.70KG ±10%	0.0190m³
IP65	10*1.77in	10.63*10.04*2.08 in	1	11.02*9.45 *11.14 in	4	10.95 Lbs ±10%	14.76 Lbs ±10%	0.6708ft³

For Product Length=20M



Ingress	inner carren		Outer carton		N1 10/	0.111	Outer carton	
protection rating	Bag size	Size	Reel/ctn	Size	Reel/ctn	N.W	G.W	volume
	330*50mm	345*330*61mm	1	362*265*350mm	4	9.95 KG ±10%	13.05KG ±10%	0.0357m³
IP65	12.99*1.96in	13.58*12.99*2.4in	1	14.25*10.43*13.77in	4	21.93 Lbs ±10%	28.76 Lbs ±10%	1.2627ft³

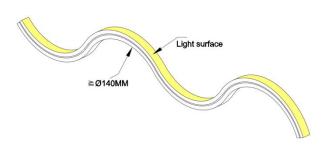
Remarks:

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

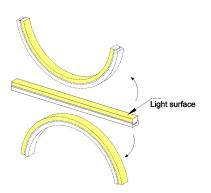


Instruction of Removal Light Source

1.Do not bend smaller than allowed minimum bending diameter

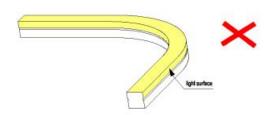


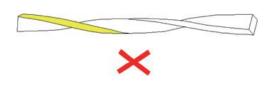
2. The neon strip can only be bent laterally (Along the FPC inside).



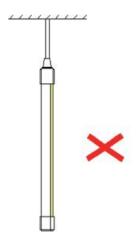
3.Don't bend the LED strip Horizontal, it will damage the circuit inside and cause product function failure.

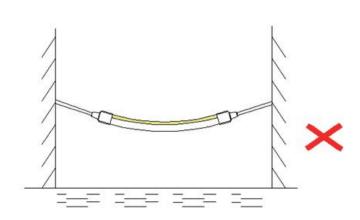
4.Don't twist the LED strip, it will damage the circuit inside and cause product function failure.





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

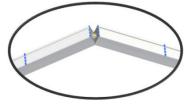
- The cutting line logo on the Neon strip marked by calculated dimension, it has a little bit deviation between internal cutting line marked on the PCB surface;
- Please follow the cutting guidance as below:

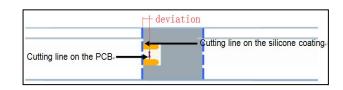
Step 1: Fine the cutting line on the silicone coating, slice the silicone coating vertically by knife along the cutting line, but do not hurt the PCB





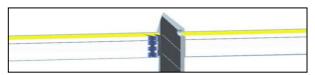
Step 2: Split the broken silicone coating and observe the deviation between "Cutting line on the PCB" and "Cutting line on the silicone coating side"





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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