

Product Specification

Neon Flex

3D Bending Neon Single Color Series 30° (Type TF)

WW-FLS102T26XX048TF-24(WCP)-UR-F-1616- TS2-A30
&
WW-FLS102T26XX048TF-24(WCP)-UR-F-1616-TS2-A30-EP

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

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



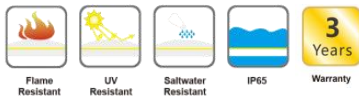
Tel : (86) 755 8601 9190



Fax : (86) 755 8601 9197

Product Features

- High quality PCB
- Dilux self-encapsulated LED
- Light source lifetime:30K hours
- Meet (EU) 2019/2020 ERP regulations
- 3D bending
- High quality silicone material
- IP65 waterproof
- Min.Bending Diameter:Φ200mm
- 30° luminescence



Technology info

- Lighting Technology: LED
- Type of light source: SMD2835
- Energy consumption KW/1000h/0.5M:8W
- Beam angle: 30°
- Survival factor (Annex V/EU2019-2020) :90%

Harmonised Standards

- EN55015:2013+A1
- EN61547:2009
- EN60598-1:2015
- EN60598-2-20:2015
- EN62493:2015
- EN62471:2008

Parameters

Test condition:

- Surrounding temperature: 26 °C.
- Test after 10 mins turned on.

Neon Flex											
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-FLS102T26WW048TF-24(WCP)-UR-F-1616-TS2-A30 WW-FLS102T26WW048TF-24(WCP)-UR-F-1616-TS2-A30-EP	≥90	90	98	16.2	17.8	Warm White	2700	1100	68	G	DC24V
WW-FLS102T26WW048TF-24(WCP)-UR-F-1616-TS2-A30 WW-FLS102T26WW048TF-24(WCP)-UR-F-1616-TS2-A30-EP				16.2	17.8	Warm White	3000	1160	72	G	DC24V
WW-FLS102T26NW048TF-24(WCP)-UR-F-1616-TS2-A30 WW-FLS102T26NW048TF-24(WCP)-UR-F-1616-TS2-A30-EP				16.2	17.8	Natural White	4000	1195	74	G	DC24V
WW-FLS102T26SW048TF-24(WCP)-UR-F-1616-TS2-A30 WW-FLS102T26SW048TF-24(WCP)-UR-F-1616-TS2-A30-EP				16.2	17.8	Standard White	6000	1180	73	G	DC24V

Remarks:

- SDCM for light source: ≤6 (alternative ≤3).
- 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

Test condition:

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

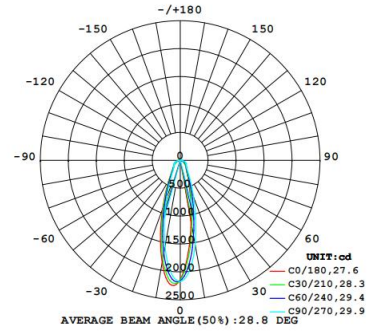
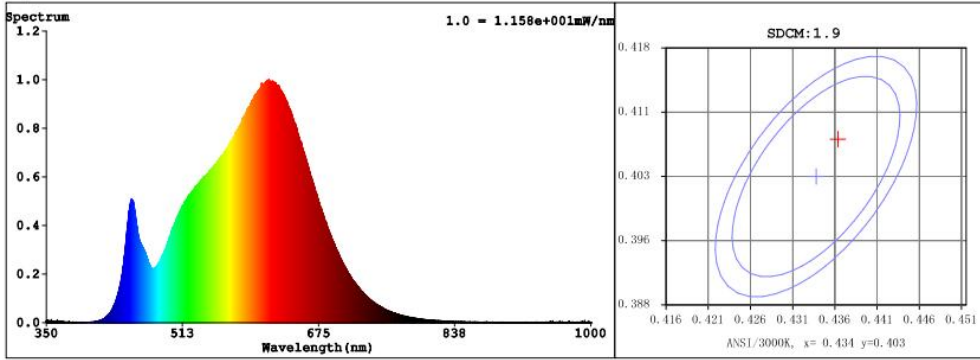
Neon Flex									
Neon Flex Model No.	CRI (Ra)	Rf	Rg	Typ. Power (W/M)	Max. Power (W/M)	Color	Neon Flex Color Temp.(K) Wavelength(nm)	Typ. Luminous Flux LM/M(39.3 7in)	Rated voltage
WW-FLS102T26WW048TF-24(WCP)-UR-F-1616-TS2-A30	≥90	90	98	16	17.6	Warm White	2700K	1070	DC24V
WW-FLS102T26WW048TF-24(WCP)-UR-F-1616-TS2-A30	≥90	90	98	16	17.6	Warm White	3000K	1120	DC24V
WW-FLS102T26NW048TF-24(WCP)-UR-F-1616-TS2-A30	≥90	90	98	16	17.6	Natural White	4000K	1180	DC24V
WW-FLS102T26SW048TF-24(WCP)-UR-F-1616-TS2-A30	≥90	90	98	16	17.6	Standard White	6000K	1160	DC24V

Remarks:

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

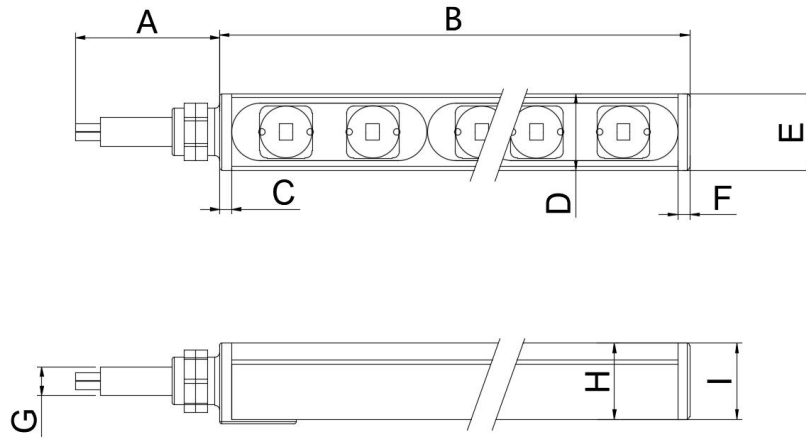
Optical Test Diagram

Spectrum



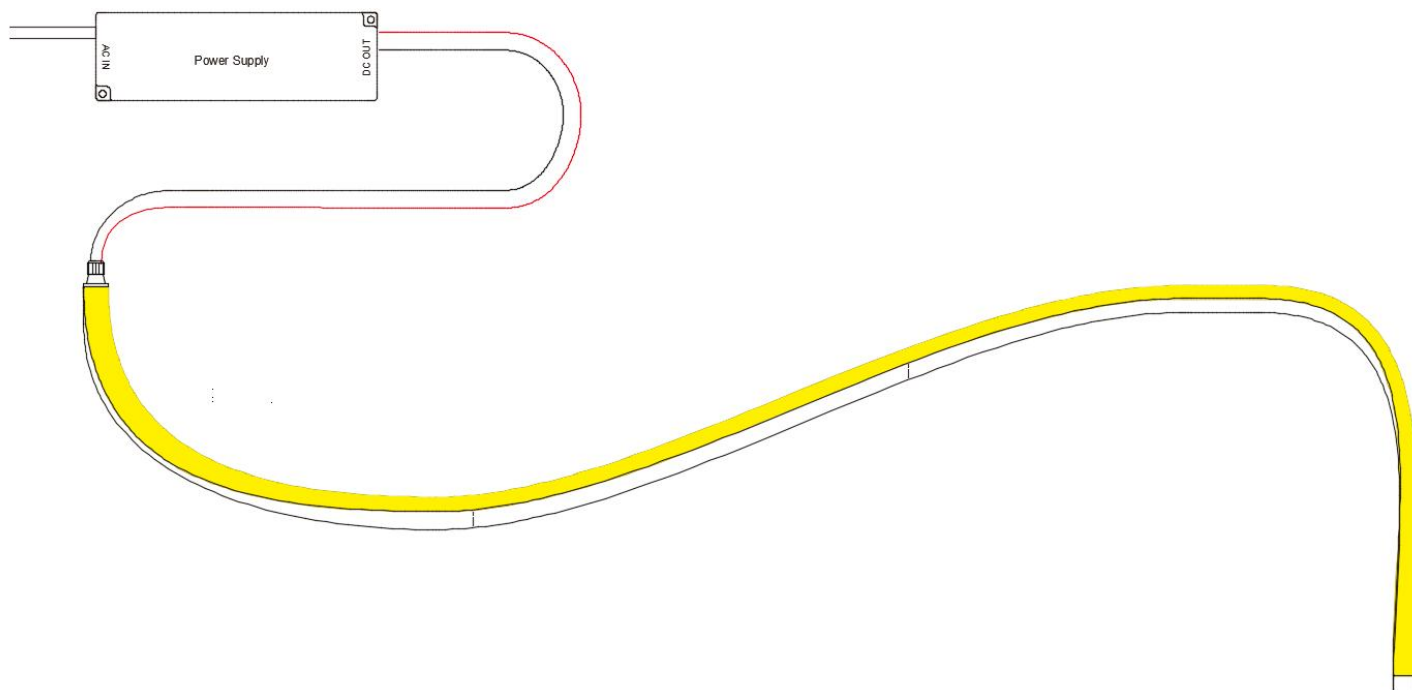
Dimension Drawing

Neon Flex



A Cable Length	B Strip length	C Cap thickness	D/E Cap width	F Cap thickness	G Cable diameter	H/I Strip thickness
300±10mm	5000±50mm	3.5±1.5mm	16.0±1.5mm	3.5±1.5mm	6.0±0.2mm	16.5±0.5mm
11.81±0.39in	196.85±1.97in	0.1377±0.059in	0.6299±0.059in	0.1377±0.059in	0.2362±0.007in	0.6299±0.019in

Circuit Diagram

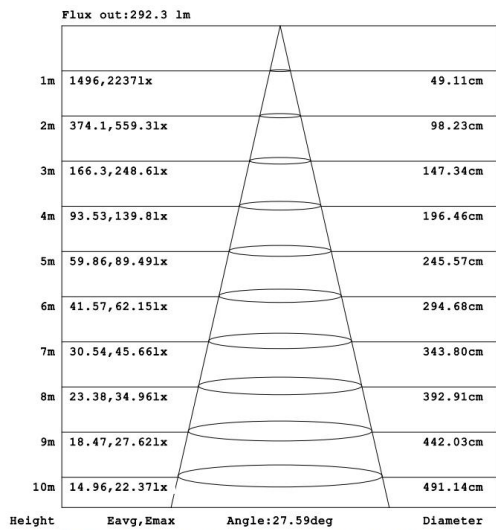


Front & end caps dimensions

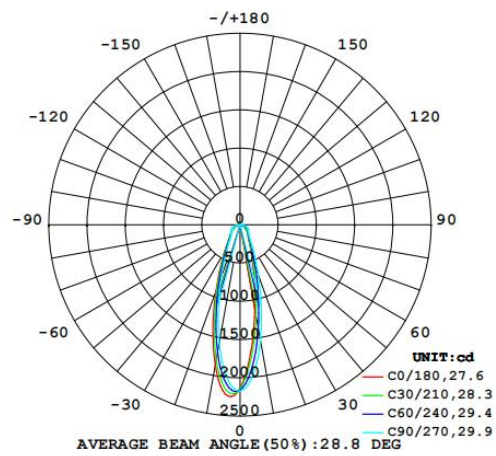
Cable Types	Model No.	Image	Dimension	IP Rating
Same Width	WW-FLS102T26XX048TF-24(WCP)-UR-F-1616-TS2-A30 WW-FLS102T26XX048TF-24(WCP)-UR-F-1616-TS2-A30-EP			IP65

Optical Parameters

Distribution Curve Flux

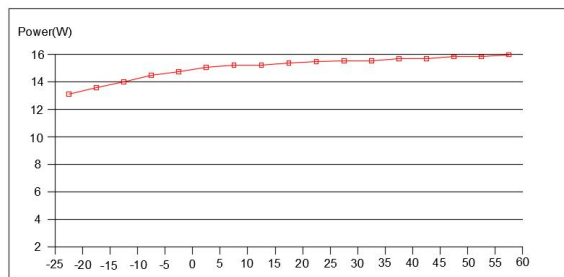


Illuminance

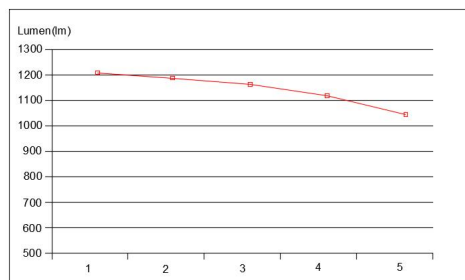


Figures of typical characteristics

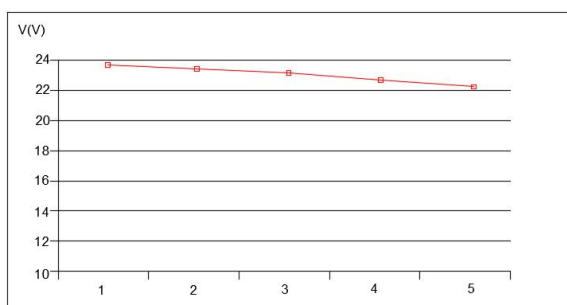
Relation of Working Temperature and Power




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




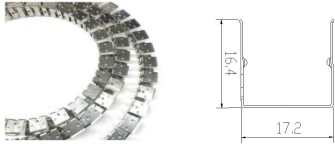

Relation of operating voltage and strip length



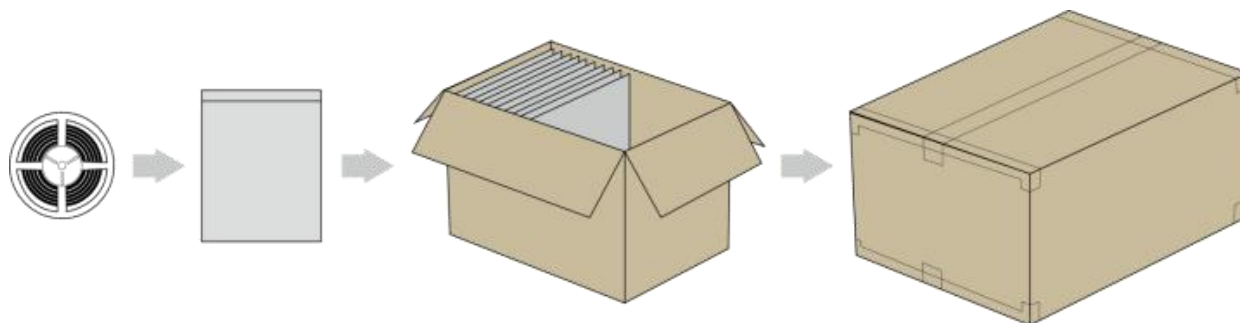
Standard Accessories

Image	Part No.	Description
	WW-AP1820-0025	Snap *2pcs/M, screw*2pcs/M

Optional Accessories

Image	Part No.	Description
	WW-AP1820-XXX	Aluminum Profile,18.4*20.1mm 0.5m&1m Screw*2; 1.5m/2m Screw*3/4
	WW-LG1716-500	Steel Profile: 17.2*16.4mm 5m Screw*30;
	WW-FLS102TC-CW(16mm)-TT2	Cutting accessories set (Front & end cap, power cord)

Packaging Diagram



Packaging Information

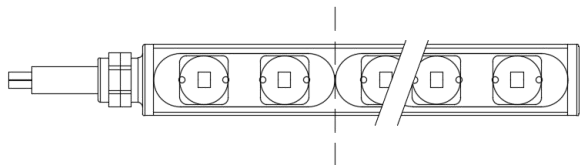
Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65	470*440*0.15mm	/	/	440*400*260mm	7	7.581KG ±10%	11.426KG ±10%	0.04576m³
	18.503*17.322*0.0059in	/	/	17.322*15.748 *10.236 in	7	27.99Lbs ±10%	41.18Lbs ±10%	1.6159ft³

Remarks :

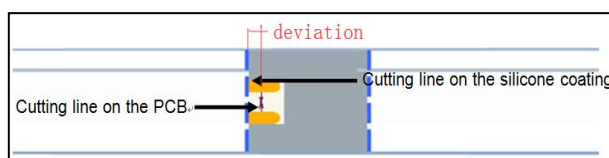
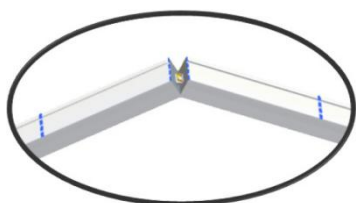
- Please contact our sales manager for customized package (color box, blister etc.)

- The Cutting position PCB as a reference,;
- Please follow the cutting guidance as below:

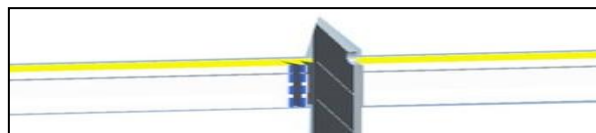
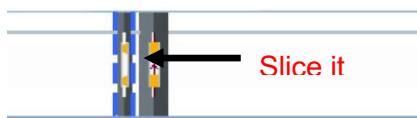
Step 1: Fine the cutting position , The dashed line represents the shear position ,but do not hurt the PCB inside.



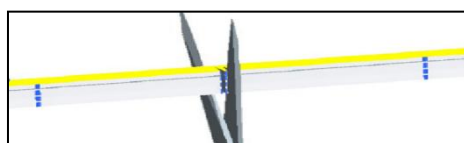
Step 2: Split the broken silicone coating and observe the deviation between "Cutting line on the PCB" and "Cutting line on the silicone coating side"



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.

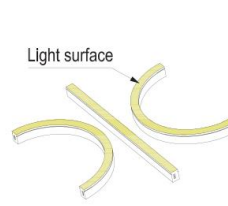
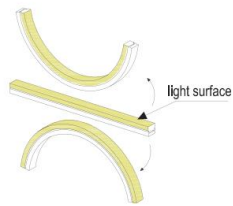


Installation Guidance

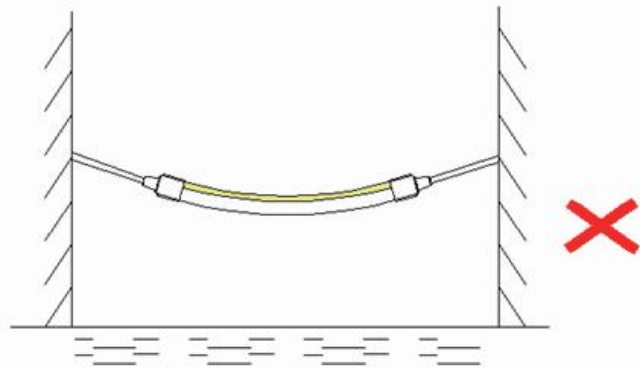
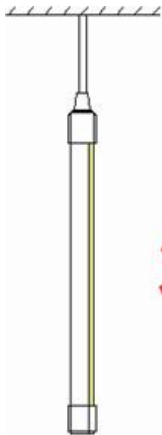
1. Do not bend smaller than allowed minimum bending diameter



The correct bending direction
Bending radius $\geq 100\text{mm}$



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













3、 Press the neon flex into mounted aluminum profile in one direction (Angle between strip and aluminum <math>< 15^\circ</math> degrees).



















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



 **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 mininum bending diameter > 200mm	 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.