

# Product Specification

## Flexible LED Strip

### COB Series

8mm FPC COB 504LEDs/m IP20 Flexible LED Strip

WW-FLS102T83XW504B-24(WCP)-UR

&

WW-FLS102T83XW504B-24(WCP)-UR-EP



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Kwun Tong, Kowloon, Hong Kong

China Factory :

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

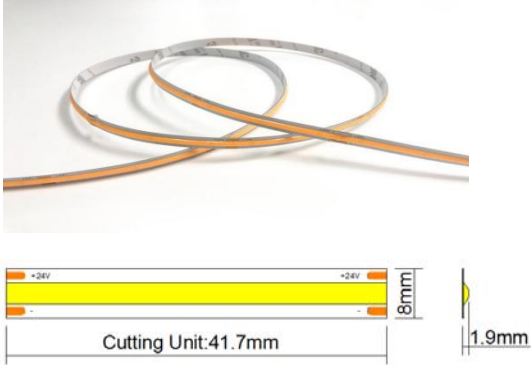
Tel : (852) 3152 3059 (10 lines)


Fax : (852) 3152 3039




Tel : (86) 755 8601 9190

Fax : (86) 755 8601 9197

<p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>• High quality FPC, authentic 3M tape</li> <li>• Dot free</li> <li>• Meet (EU)2019/2020 ErP regulations.</li> <li>• Min. Bending Diameter: <math>\Phi</math>60mm</li> <li>• Max. length(M): 5M</li> </ul>	
<p><b>Technology info</b></p> <ul style="list-style-type: none"> <li>• Lighting Technology: LED</li> <li>• DLS or NDLS: NDLS</li> <li>• MLS or NMLS: NMLS</li> </ul>	<p><b>Certification Standards</b></p> <ul style="list-style-type: none"> <li>• EN55015:2013+A1</li> <li>• EN61547:2009</li> <li>• EN60598-1:2015</li> <li>• EN60598-2-20:2015</li> <li>• EN62493:2015</li> <li>• EN62471:2008</li> </ul>

<p><b>Non-ErP Waterpro of Type</b></p>	
	<p>Naked Strip</p>
	<p>3 Years Warranty</p>

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## WW-FLS102T83XW504B-24(WCP)-UR

### Parameters for non-ErP

IP Grade	Model NO.	CRI (Ra)	Rf	Rg	Typical Power (W/M)	Max. Power (W/M)	Color	LED Color Temp.(K) Wavelength(nm)	3SDCM LED Color Temp.(K) Wavelength(nm)	Typ. Luminous Flux LM/M(39.37in)	Rated voltage
20	WW-FLS102T83WW504B-24(WCP)-UR	90	92	100	5.0	5.5	Warm White	2700K	/	390	DC 24V
	Warm White						3000K	/	420		
	Natural White						4000K	/	460		
	Standard White						6000K	/	460		

Remarks:

- The typ. Luminous flux tolerance range is  $\pm 10\%$  (subject to the manufacturer's instrument test).

Test condition of above technical data:

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

## WW-FLS102T83XW504B-24(WCP)-UR-EP

### Parameters for ErP

IP Grade	Model NO.	CRI (Ra)	Rf	Rg	Typical Power (W/M)	Max. Power (W/M)	Color	LED Color Temp.(K) Wavelength(nm)*	Luminous Flux LM/M(39.37')	Lumen/watt	Energy Efficiency class	Rated voltage
E 20	WW-FLS102T83WW504B-24(WCP)-UR-EP	90	92	100	5.2	5.72	Warm White	2700K	400	77	G	DC 24V
	Warm White						3000K	430	83	G		
	Natural White						4000K	480	92	F		
	Standard White						6000K	480	92	F		

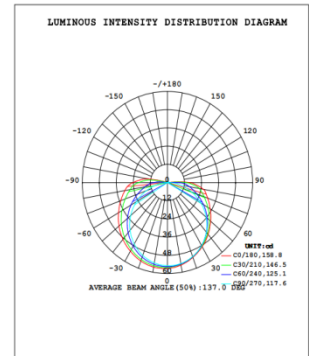
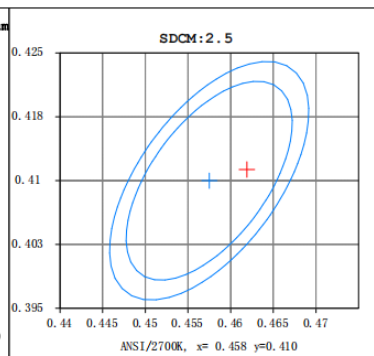
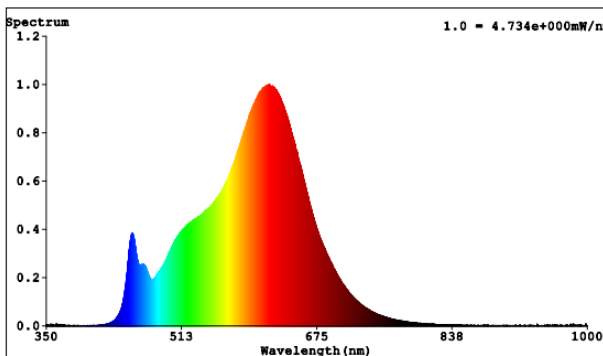
Test condition of above technical data:

- Surrounding temperature: 26 °C.
- Test after 15 mins turned on.

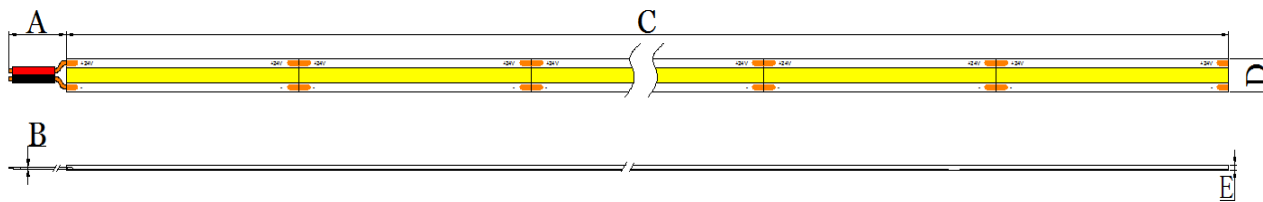
ErP Note:

- According to the new ErP 2019/2020 regulation for each 0.5m or nearest 0.5m strip, the following requirements must be met:
- Measured power  $\leq$  Pon +5% ;
- Measured lumen  $\geq$  Useful luminous flux -10%;
- Measured CRI  $\geq$  Declared CRI-2
- The above technical data, including typical power are based on the test of 0.5m.

### Optical Test Diagram



## Dimension Drawing

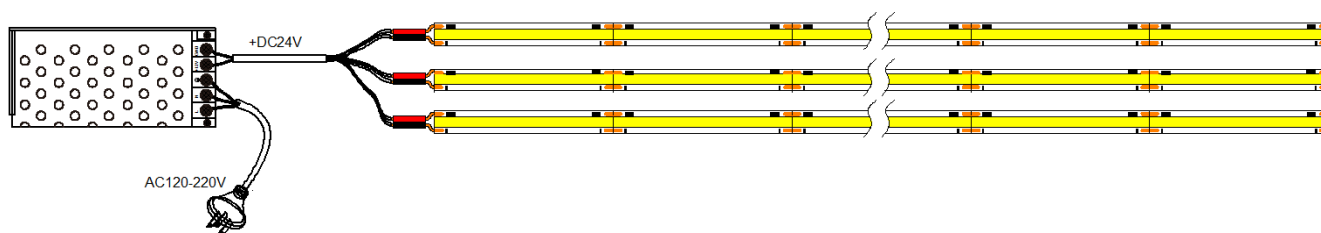


IP Grade	A. cable length	B. cable diameter	C. Strip length	D. Strip width	E. Strip thickness	F. Front cap length	G. End cap length	H. End cap width	I. End cap thickness
B 20	300±10mm	φ1.8±0.2mm	5000±50mm	8±0.5mm	1.9mm±0.5mm	/	/	/	/
	11.81±0.39in	φ0.07±0.008in	196.85±1.97in	0.31±0.02in	0.075±0.02in	/	/	/	/



### Remarks:

- If you need further information, please contact our sales manager.

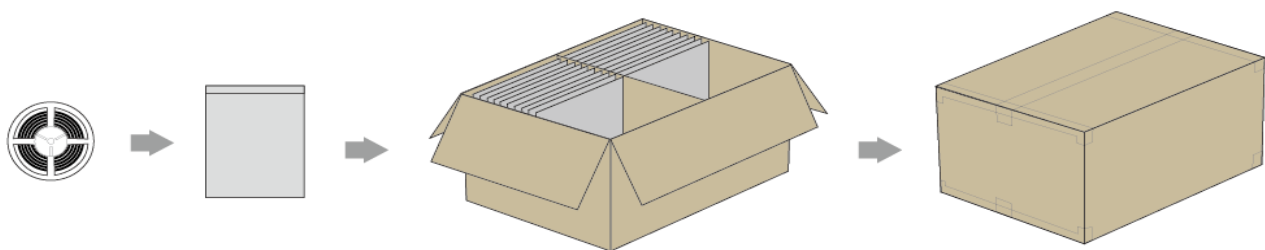
## Circuit Diagram



## Optional Accessories

IP Grade	Category	Description	Picture	Part No.	Density
E 20	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2B-POW20-08	/
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2B-POP20-08	/

**Packaging Diagram**

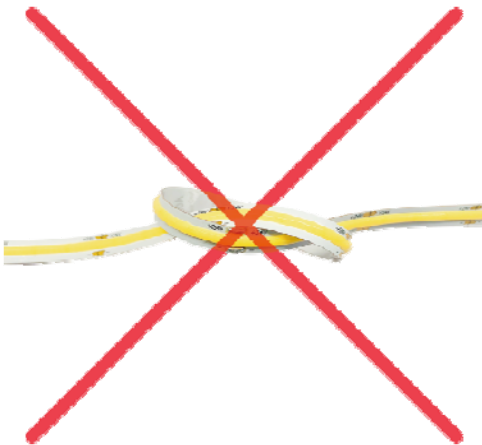


**Packaging Information**

Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
E 20	220*250*0.14mm	/	/	440*400 *260mm	60	3.9KG ±10%	8.57 KG ±10%	0.04576 m <sup>3</sup>
	8.66*9.84*0.006in	/	/	17.32*15.748 *10.236in	60	8.6 Lbs ±10%	18.89Lbs ±10%	1.616 ft <sup>3</sup>

**Remarks :**

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



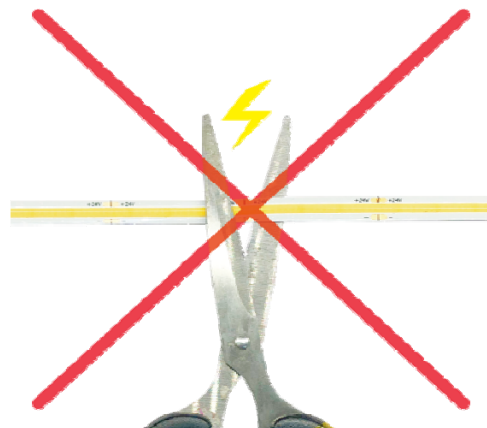
In the process of product installation and use, it is forbidden to knot



In the process of product installation and use, it is forbidden to wind













In the process of product installation and use, it is forbidden to twist



















In the process of product installation and use, it is forbidden to cut

1. In the process of product installation and use, it is forbidden to reinstall and use.
2. It is forbidden to put the product back into the reel after removed from it.

 **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	-20℃~+45℃ (-4℉~+113℉)	0℃~+60℃ (32℉~+140℉)	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.**