

# Product Specification

## DC Flexible LED Strip

### 2835 S-shape Bendable Series

2835 LED 8mm FPC 060LEDs/M

WW-FLS102T28XW060B-XX(WCP)-XR-SN

&

WW-FLS102T28XW060B-XX(WCP)-XR-SN-EP



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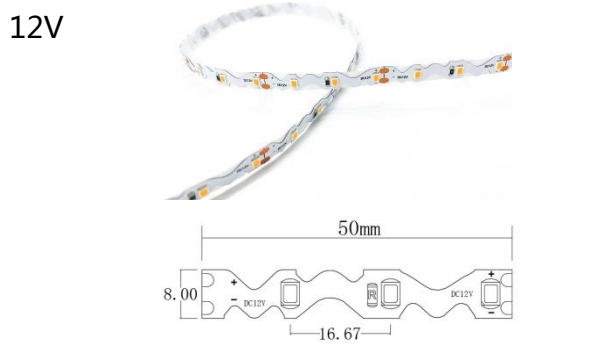
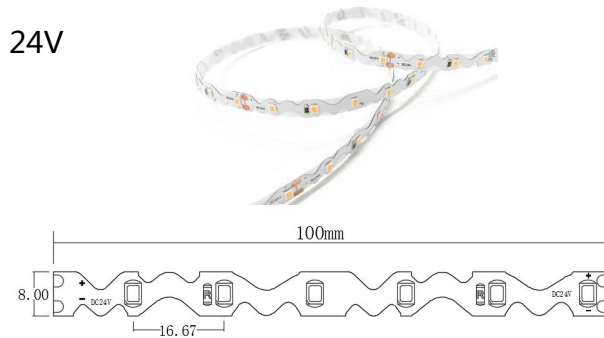
Fax : (852) 3152 3039







Tel : (86) 755 8601 9190



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<p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>• High quality FPC, authentic 3M tape;</li> <li>• Self-encapsulated design 2835 LED;</li> <li>• Light source lifetime:50K hours(L70);</li> <li>• Meet (EU)2019/2020 ErP regulations.</li> <li>• Max. length(M): 5M</li> </ul>	<p><b>12V</b></p>  <p><b>24V</b></p> 
<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>• EN55015:2019</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>

<b>Non-ErP Waterproof Type</b>	
	
	Naked Strip
5 Years Warranty	

<b>ErP Waterproof Type</b>	
	
	Naked Strip
5 Years Warranty	

WW-FLS102T28XW060B-XX(WCP)-XR-SN

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
E 20	WW-FLS102T28XW060B-12(WCP)-HR-SN	80	82	96	6.20	6.82	Warm White	2300-2600K	/	580	DC 12V
							Warm White	2600-2900K	/	600	
							Warm White	2900-3200K	/	650	
							Natural White	3700-4250K	/	670	
							Standard White	5700-6500K	/	670	
	WW-FLS102T28XW060B-12(WCP)-UR-SN	90	90	100	6.20	6.82	Warm White	2300-2600K	/	470	DC 12V
							Warm White	2600-2900K	/	490	
							Warm White	2900-3200K	/	510	
							Natural White	3700-4250K	/	550	
							Standard White	5700-6500K	/	550	
E 20	WW-FLS102T28XW060B-24(WCP)-HR-SN	80	82	96	6.20	6.82	Warm White	2300-2600K	/	580	DC 24V
							Warm White	2600-2900K	/	600	
							Warm White	2900-3200K	/	650	
							Natural White	3700-4250K	/	670	
							Standard White	5700-6500K	/	670	
	WW-FLS102T28XW060B-24(WCP)-UR-SN	90	90	100	6.20	6.82	Warm White	2300-2600K	/	470	DC 24V
							Warm White	2600-2900K	/	490	
							Warm White	2900-3200K	/	510	
							Natural White	3700-4250K	/	550	
							Standard White	5700-6500K	/	550	

Remarks:

- \*The above color temperature is the color temperature of LED source.
- \*\*Indicates SDCM<3 model is available, part number will add the suffix "-3S".
- The typ. Luminous flux tolerance range is ±10% (subject to the manufacturer's instrument test).

Test condition of above technical data:

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

**WW-FLS102T28XW060B-XX(WCP)-XR-SN-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-FLS102T28XW060B-12(WCP)-HR-SN-EP	80	82	96	6.40	7.04	Warm White	2500K	590	92	F	DC 12V
							Warm White	2700K	610	95	F	
							Warm White	3000K	660	103	F	
							Natural White	4000K	680	106	F	
							Standard White	6000K	680	106	F	
	WW-FLS102T28XW060B-12(WCP)-UR-SN-EP	90	90	100	6.40	7.04	Warm White	2500K	480	75	G	DC 12V
							Warm White	2700K	500	78	G	
							Warm White	3000K	520	81	G	
							Natural White	4000K	560	88	F	
							Standard White	6000K	560	88	F	
E 20	WW-FLS102T28XW060B-24(WCP)-HR-SN-EP	80	82	96	6.40	7.04	Warm White	2500K	590	92	F	DC 24V
							Warm White	2700K	610	95	F	
							Warm White	3000K	660	103	F	
							Natural White	4000K	680	106	F	
							Standard White	6000K	680	106	F	
	WW-FLS102T28XW060B-24(WCP)-UR-SN-EP	90	90	100	6.40	7.04	Warm White	2500K	480	75	G	DC 24V
							Warm White	2700K	500	78	G	
							Warm White	3000K	520	81	G	
							Natural White	4000K	560	88	F	
							Standard White	6000K	560	88	F	

Remarks:

- \*The above color temperature is the color temperature of LED source.
- While SDCM<3 model is available, part number will add the suffix "-3S".

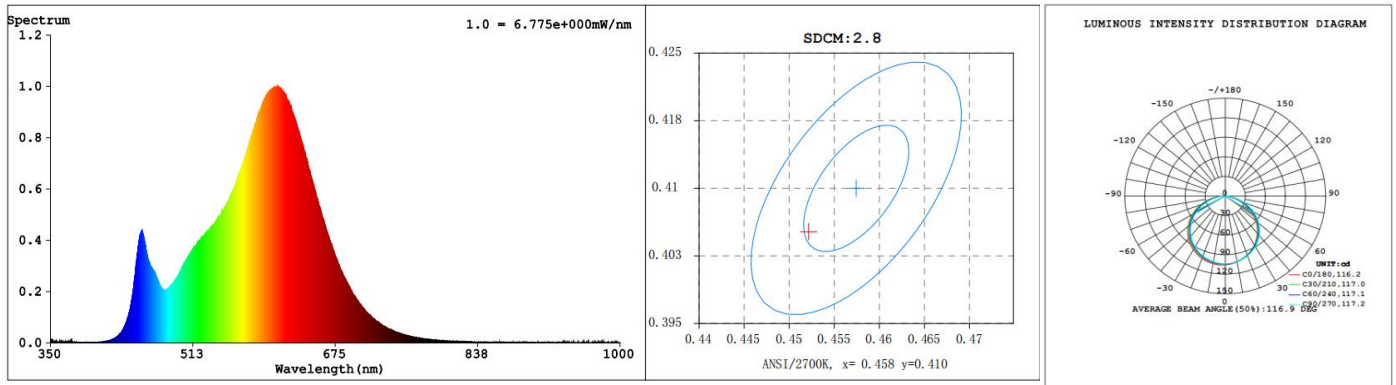
Test condition of above technical data:

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

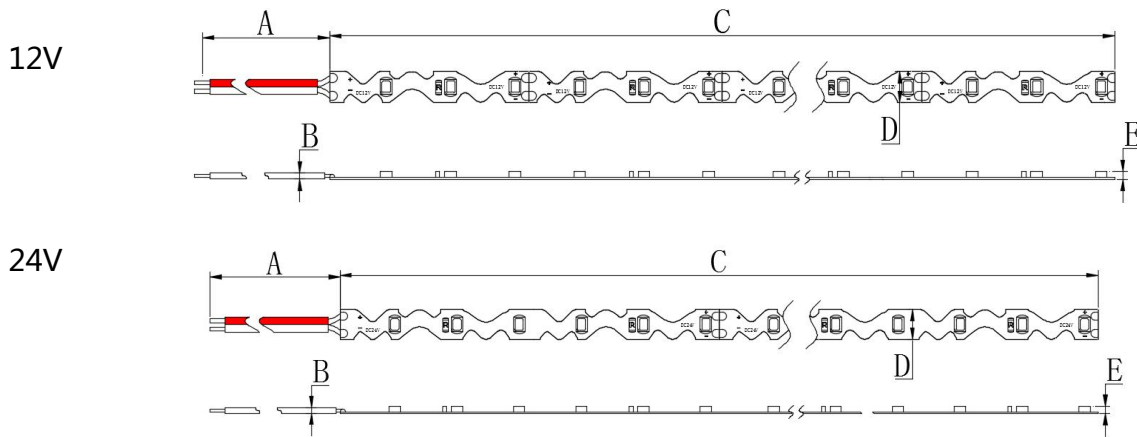
ErP Note:

- 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 ≤ 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.

Optical Test Diagram



Dimension Drawing

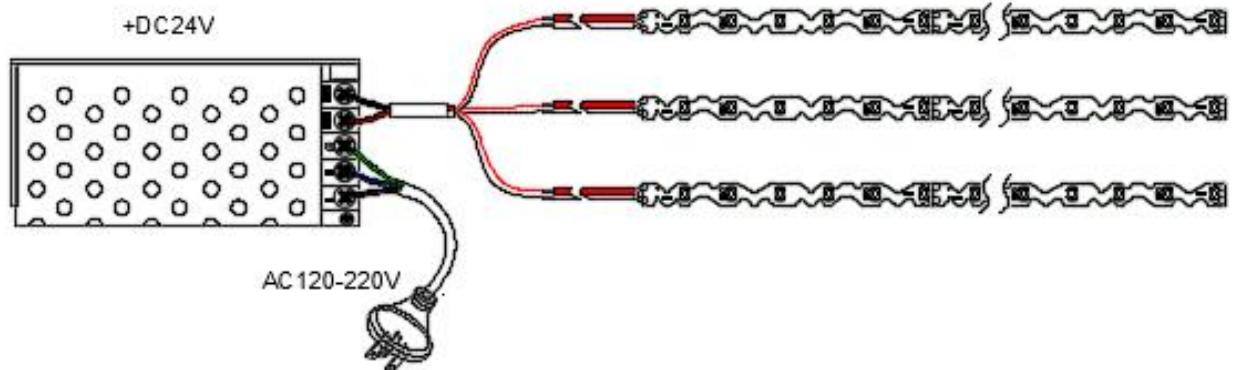
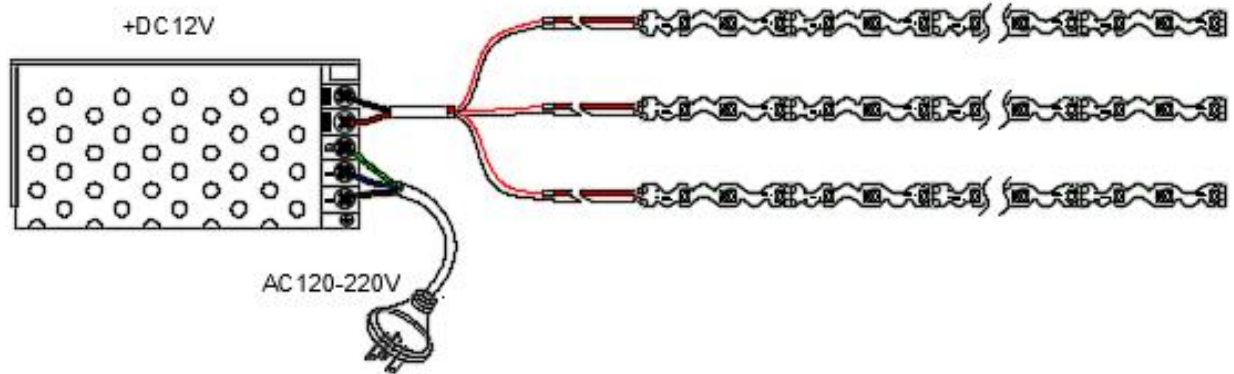


IP Grade	A	B	C	D	E	F	G	H	I
	Cable Length	cable diameter	Strip length	Strip width	Strip thickness	Front cap length	End cap length	Cap width	Cap thickness
<b>B 20</b>	300±10mm	Φ4.0±0.2mm	5000±50mm	8±0.5mm	1.2±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.31±0.02in	0.047±0.02in	/	/	/	/

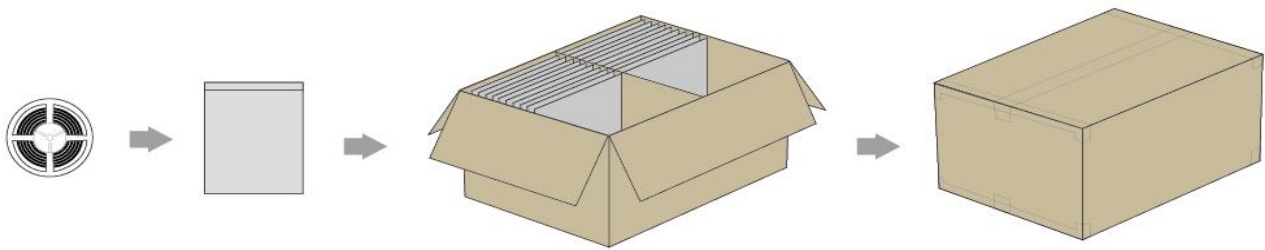
Remarks:

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

## Circuit Diagram



**Packaging Diagram**













**Packaging information**

















IP Grade	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
<b>B 20</b>	250*270*0.14mm	/	/	440*400 *260mm	50	2.75KG±10%	6.37KG±10%	0.04576 m3
	9.84*10.63*0.0056 in	/	/	17.32*15.748 *10.236 in	50	6.06Lbs±10%	14.04Lbs±10%	1.616 ft3


**Remarks :**


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


 **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°C~+45°C (-4°F~+113°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 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.**