

# Product Specification

## DC Flexible LED Strip 2835 6LEDs/unit Series

2835 Top LED 8mm FPC 180LEDs/M

WW-FLS102T23XW180X-24(WCP)-XR



HK Office :

Unit 1901, 19th Floor, NanYang Plaza, No. 57 Hung To Road  
Kwun Tong, Kowloon, Hong Kong

Tel : (852) 3152 3059 (10 lines)


Fax : (852) 3152 3039






China Factory :

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

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>• Self-encapsulated design 2835 LED;</li> <li>• Light source lifetime:50K hours(L70);</li> <li>• Min. Bending Diameter: Φ60mm</li> <li>• Max. length(M): 5M</li> <li>• LED SDCM≤6</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>• EN55015:2019</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>Waterproof Type</b>	 <b>E 20</b>	 <b>S 54</b>	 <b>K 54/65</b>	 <b>R 67</b>	 <b>RW 67</b>
	Naked Strip	Silicone Dropping	Silicone Extrusion	Silicone Extrusion	Silicone Extrusion
	5 Years Warranty	3 Years Warranty	5 Years Warranty	5 Years Warranty	5 Years Warranty

WW-FLS102T23XW180X-24(WCP)-XR

Parameters

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-FLS102T23XW180B-24(WCP)-HR	80	82	96	13.09	14.40	Warm White	2500K	/	1270	DC24V
							Warm White	2700K	2700K	1290	
							Warm White	3000K	3000K	1300	
							Natural White	4000K	4000K	1430	
							Standard White	6000K	/	1430	
	WW-FLS102T23XW180B-24(WCP)-UR	90	90	100	13.09	14.40	Warm White	2700K	2700K	1070	DC24V
Warm White	3000K	3000K	1110								
Natural White	4000K	4000K	1200								
S 54	WW-FLS102T23XW180S-24(WCP)-HR	80	82	96	13.09	14.40	Warm White	2500K	/	1194	DC24V
							Warm White	2700K	2700K	1174	
							Warm White	3000K	3000K	1183	
							Natural White	4000K	4000K	1201	
							Standard White	6000K	/	1115	
	WW-FLS102T23XW180S-24(WCP)-UR	90	90	100	13.09	14.40	Warm White	2700K	2700K	995	DC24V
Warm White	3000K	3000K	1010								
Natural White	4000K	4000K	1080								
K 54	WW-FLS102T23XW180K-24(WCP)-HR	80	82	96	13.09	14.40	Warm White	2500K	/	1207	DC24V
							Warm White	2700K	2700K	1226	
							Warm White	3000K	3000K	1235	
							Natural White	4000K	4000K	1359	
	WW-FLS102T23XW180K-24(WCP)-UR	90	90	100	13.09	14.40	Standard White	6000K	/	1359	DC24V
							Warm White	2700K	2700K	1027	
Warm White							3000K	3000K	1066		
K 65	WW-FLS102T23XW180K-24(WCP)-HR-TT	80	82	96	13.09	14.40	Warm White	2500K	/	1207	DC24V
							Warm White	2700K	2700K	1226	
							Warm White	3000K	3000K	1235	
							Natural White	4000K	4000K	1359	
	WW-FLS102T23XW180K-24(WCP)-UR-TT	90	90	100	13.09	14.40	Standard White	6000K	/	1359	DC24V
							Warm White	2700K	2700K	1027	
Warm White							3000K	3000K	1066		
R 67	WW-FLS102T23XW180R-24(WCP)-HR	80	82	96	13.09	14.40	Warm White	2500K	/	1181	DC24V
							Warm White	2700K	2700K	1187	
							Warm White	3000K	3000K	1196	
							Natural White	4000K	4000K	1316	
	WW-FLS102T23XW180R-24(WCP)-UR	90	90	100	13.09	14.40	Standard White	6000K	/	1301	DC24V
							Warm White	2700K	2700K	1059	
Warm White							3000K	3000K	1043		
RW 67	WW-FLS102T23XW180R-24(WCP)-HR-W	80	82	96	13.09	14.40	Warm White	2500K	/	1181	DC24V
							Warm White	2700K	2700K	1187	
							Warm White	3000K	3000K	1196	
							Natural White	4000K	4000K	1316	
	WW-FLS102T23XW180R-24(WCP)-UR-W	90	90	100	13.09	14.40	Standard White	6000K	/	1301	DC24V
							Warm White	2700K	2700K	1059	
Warm White							3000K	3000K	1043		
							Natural White	4000K	4000K	1104	

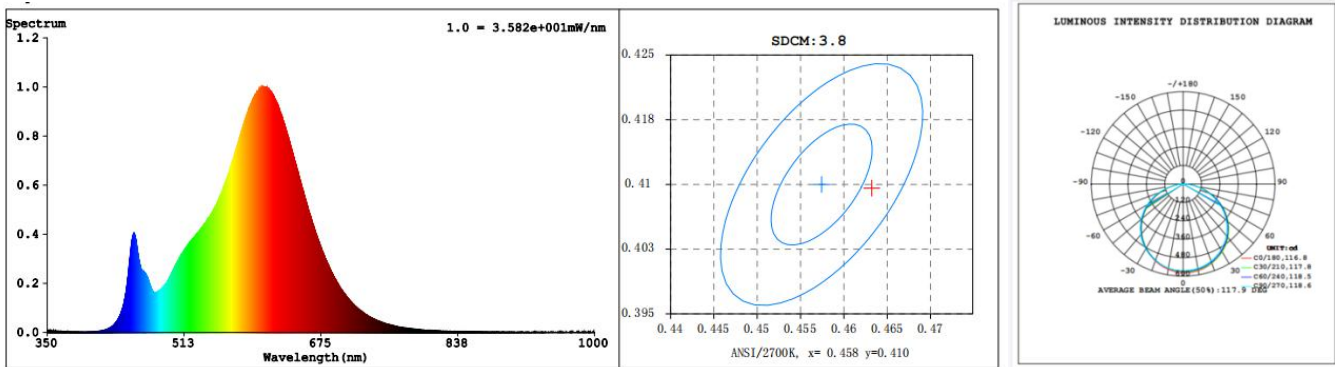
Remarks:

- \*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  $\pm 10\%$  (subject to the manufacturer's instrument test).

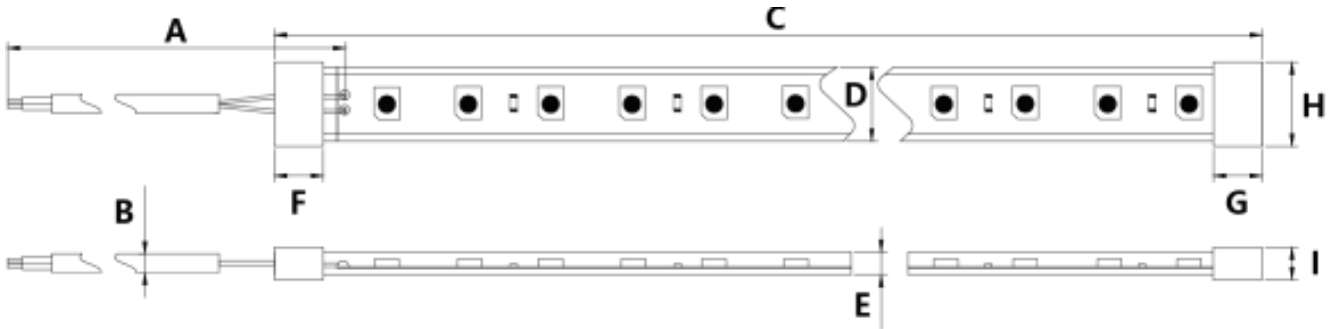
Test condition of above technical data:

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

Optical Test Diagram



## Dimension Drawing

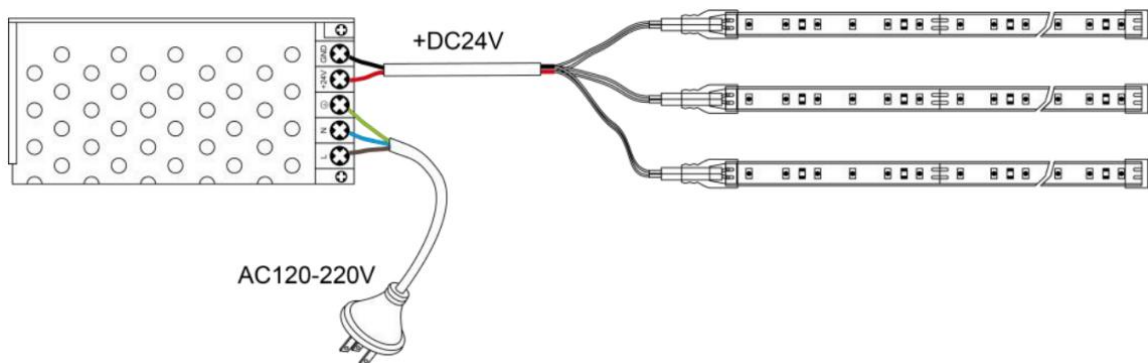


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Front cap length	G End cap length	H Cap width	I Cap thickness
<b>E 20</b>	300±10mm	Φ4.0±0.2mm	5000±50mm	8±0.5mm	1.2±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.32±0.02in	0.047±0.02in	/	/	/	/
<b>S 54</b>	300±10mm	Φ4.0±0.2mm	5000±50mm	8±0.5mm	2.3±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.32±0.02in	0.091±0.02in	/	/	/	/
<b>K 54</b>	300±10mm	Φ4.0±0.2mm	5000±50mm	9.2±0.2mm	4±0.2mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.36±0.01in	0.16±0.01in	/	/	/	/
<b>K 65</b>	300±10mm	Φ4.0±0.2mm	5000±50mm	9.2±0.5mm	4±0.2mm	10.5±0.5mm	10.5±0.5mm	11.2±0.5mm	6±0.5mm
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.36±0.02in	0.16±0.01in	0.41±0.02in	0.41±0.02in	0.44±0.02in	0.34±0.02in
<b>R 67</b>	300±10mm	Φ6±0.5mm	5000±50mm	10±0.5mm	5±0.5mm	30±0.5mm	11±0.5mm	12±0.5mm	7.0±0.5mm
	11.81±0.39in	0.236±0.02in	196.85±1.97in	0.394±0.02in	0.20±0.02in	1.18±0.02in	0.47±0.02in	0.43±0.02in	0.28±0.02in
<b>RW 67</b>	300±10mm	Φ6±0.5mm	5000±50mm	10±0.5mm	5±0.5mm	30±0.5mm	11±0.5mm	12.0±0.5mm	7.0±0.5mm
	11.81±0.39in	0.236±0.02in	196.85±1.97in	0.394±0.02in	0.20±0.02in	1.18±0.02in	0.43±0.02in	0.47±0.02in	0.28±0.02in






**Remarks:**

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

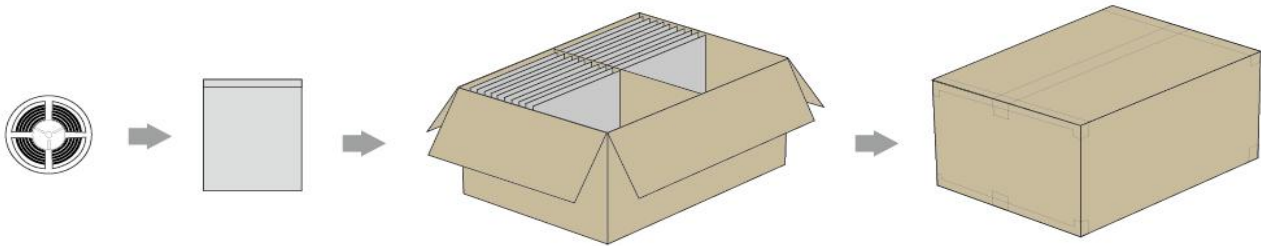
## Circuit Diagram



## Standard Accessories

IP Grade	Category	Description	Picture	Part No.	Application
<b>B 20</b>	/	/	/	/	/
	/	/	/	/	/
<b>S 54</b>	/	/	/	/	/
	/	/	/	/	/
<b>K 54/65</b>	/	/	/	/	/
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
<b>R 67</b>	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	8mm Type R
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
<b>RW 67</b>	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	8mm Type RW
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip

## 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	250*270*0.14mm	/	/	440*400 *260mm	60	6.3KG ±10%	11.69 KG ±10%	0.04576 m3
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24 in	60	13.88Lbs ±10%	25.77Lbs ±10%	1.616 ft3
S 54	250*270*0.14mm	/	/	440*400 *260mm	60	10.7KG ±10%	12.54KG ±10%	0.04576 m3
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24 in	60	23.58Lbs ±10%	27.65 Lbs ±10%	1.616 ft3
K 54/65	250*270*0.14mm	/	/	440*400*260mm	50	6.95KG ±10%	13.30KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75*10.24 in	50	15.32Lbs ±10%	29.23Lbs ±10%	1.62ft³
R 67	270*300*0.14mm	/	/	520*370*300mm	36	10.8KG ±10%	16.48KG ±10%	0.0578m3
	10.63*11.81*0.0055 in	/	/	20.47*14.57*11.81in	36	23.81Lbs ±10%	36.33Lbs ±10%	2.04ft3
RW 67	270*300*0.14mm	/	/	520*370*300mm	36	10.8KG ±10%	16.48KG ±10%	0.0578m3
	10.63*11.81*0.0055 in	/	/	20.47*14.57*11.81in	36	23.81Lbs ±10%	36.33Lbs ±10%	2.04ft3


### 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.**