

# Product Specification

## DC Flexible LED Strip

### 2835 6LEDs/unit Series

2835 Top LED 10mm FPC 240LEDs/M

WW-FLS102T23XW240X-24(WCP)-XR

&

WW-FLS102T23XW240X-24(WCP)-XR-EP



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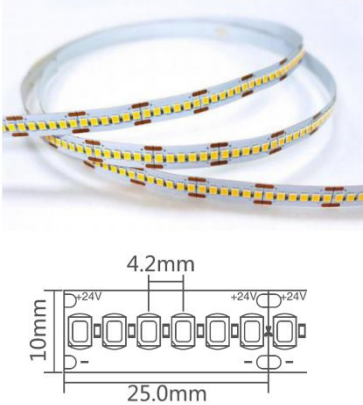
Fax : (852) 3152 3039










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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>• Min. Bending Diameter: Φ60mm</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>• EN55015:2019</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>	 <b>B 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

<b>ErP Waterproof Type</b>	 <b>B 20</b>	 <b>R 67</b>
	Naked Strip	Silicone Extrusion
	5 Years Warranty	5 Years Warranty

WW-FLS102T23XW240X-24(WCP)-XR

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	
B 20	WW-FLS102T23XW240B-24(WCP)-HR	80	82	96	16.80	18.48	Warm White	2500K	/	1620	DC 24V	
							Warm White	2700K	2700K	1694		
							Warm White	3000K	3000K	1842		
							Natural White	4000K	4000K	1912		
							Standard White	6000K	/	1878		
	WW-FLS102T23XW240B-24(WCP)-UR	90	90	100	16.80	18.48	Warm White	2700K	2700K	1460	DC 24V	
							Warm White	3000K	3000K	1540		
							Natural White	4000K	4000K	1670		
	S 54	WW-FLS102T23XW240S-24(WCP)-HR	80	82	96	16.80	18.48	Warm White	2500K	/	1523	DC 24V
								Warm White	2700K	2700K	1529	
Warm White								3000K	3000K	1574		
Natural White								4000K	4000K	1596		
Standard White								6000K	/	1482		
WW-FLS102T23XW240S-24(WCP)-UR		90	90	100	16.80	18.48	Warm White	2700K	2700K	1256	DC 24V	
							Warm White	3000K	3000K	1283		
							Natural White	4000K	4000K	1377		
K 54		WW-FLS102T23XW240K-24(WCP)-HR	80	82	96	16.80	18.48	Warm White	2500K	/	1539	DC 24V
								Warm White	2700K	2700K	1596	
	Warm White							3000K	3000K	1644		
	Natural White							4000K	4000K	1805		
	Standard White							6000K	/	1805		
	WW-FLS102T23XW240K-24(WCP)-UR	90	90	100	16.80	18.48	Warm White	2700K	2700K	1296	DC 24V	
							Warm White	3000K	3000K	1354		
							Natural White	4000K	4000K	1469		
	K 65	WW-FLS102T23XW240K-24(WCP)-HR	80	82	96	16.80	18.48	Warm White	2500K	/	1539	DC 24V
								Warm White	2700K	2700K	1596	
Warm White								3000K	3000K	1644		
Natural White								4000K	4000K	1805		
Standard White								6000K	/	1805		
WW-FLS102T23XW240K-24(WCP)-UR		90	90	100	16.80	18.48	Warm White	2700K	2700K	1296	DC 24V	
							Warm White	3000K	3000K	1354		
							Natural White	4000K	4000K	1469		
R 67		WW-FLS102T23XW240R-24(WCP)-HR	80	82	96	16.80	18.48	Warm White	2500K	/	1507	DC 24V
								Warm White	2700K	2700K	1546	
	Warm White							3000K	3000K	1592		
	Natural White							4000K	4000K	1748		
	Standard White							6000K	/	1729		
	WW-FLS102T23XW240R-24(WCP)-UR	90	90	100	16.80	18.48	Warm White	2700K	2700K	1337	DC 24V	
							Warm White	3000K	3000K	1325		
							Natural White	4000K	4000K	1408		

RW 67	WW-FLS102T23XW240R-24(WCP)-HR-W	80	82	96	16.80	18.48	Warm White	2500K	/	1507	DC 24V
							Warm White	2700K	2700K	1546	
							Warm White	3000K	3000K	1592	
							Natural White	4000K	4000K	1748	
							Standard White	6000K	/	1729	
	WW-FLS102T23XW240R-24(WCP)-UR-W	90	90	100	16.80	18.48	Warm White	2700K	2700K	1337	DC 24V
							Warm White	3000K	3000K	1325	
							Natural White	4000K	4000K	1408	

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 ±15% (subject to the manufacturer's instrument test).

Test condition of above technical data:

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

WW-FLS102T23XW240B-24(WCP)-XR-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-FLS102T23XW240B-24(WCP)-HR-EP	80	82	96	17.20	18.92	Warm White	2700K	1807	105	F	DC 24V
							Warm White	3000K	1955	114	E	
							Natural White	4000K	2042	119	E	
							Standard White	6000K	2009	117	E	
	WW-FLS102T23XW240B-24(WCP)-UR-EP	90	90	100	17.20	18.92	Warm White	2700K	/	/	/	DC 24V
							Warm White	3000K	/	/	/	
							Natural White	4000K	/	/	/	
							Standard White	6000K	/	/	/	
R 67	WW-FLS102T23XW240R-24(WCP)-HR-EP	80	82	96	17.20	18.92	Warm White	2700K	1768	102	F	DC 24V
							Warm White	3000K	1917	111	E	
							Natural White	4000K	1984	115	E	
							Standard White	6000K	1962	114	E	
	WW-FLS102T23XW240R-24(WCP)-UR-EP	90	90	100	17.20	18.92	Warm White	2700K	/	/	/	DC 24V
							Warm White	3000K	/	/	/	
							Natural White	4000K	/	/	/	
							Standard White	6000K	/	/	/	

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".

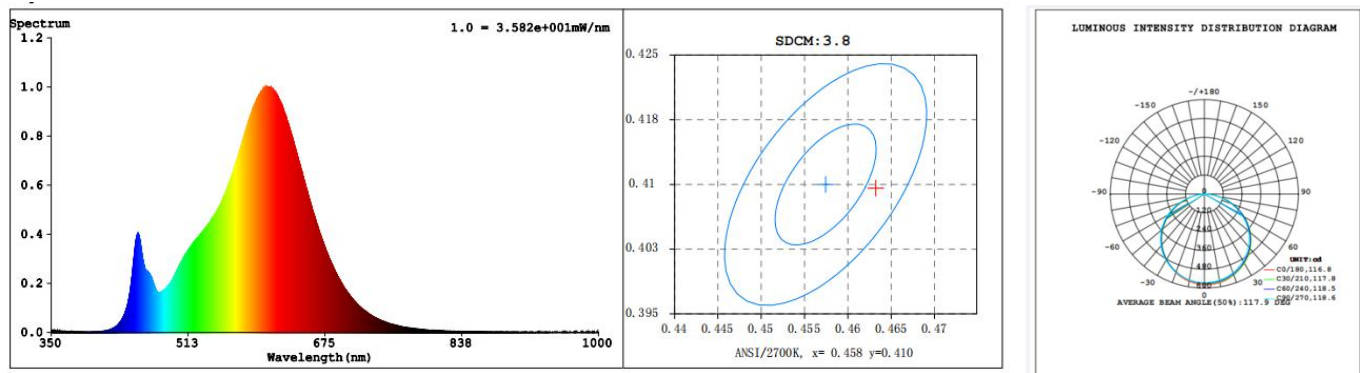
Test condition of above technical data:

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

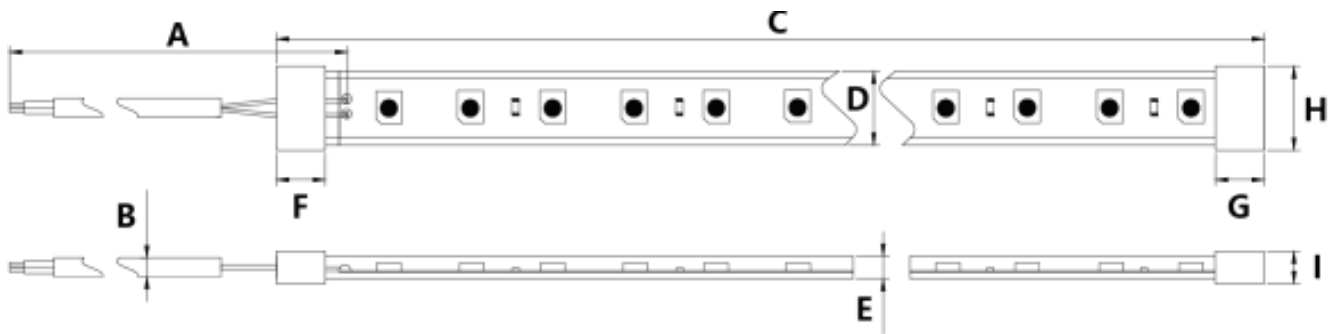
ErP Note:

- 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

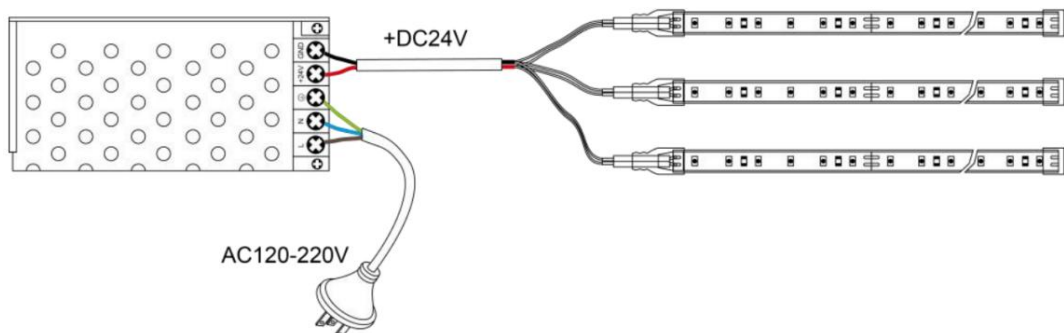


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Front cap length	G End cap length	H Cap width	I Cap thickness
<b>B 20</b>	300±10mm	Φ4.0±0.2mm	5000±50mm	10±0.5mm	1.2±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.39±0.02in	0.047±0.02in	/	/	/	/
<b>S 54</b>	300±10mm	Φ4.0±0.2mm	5000±50mm	10±0.5mm	2.3±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.39±0.02in	0.091±0.02in	/	/	/	/
<b>K 54</b>	300±10mm	Φ4.0±0.2mm	5020±50mm	12±0.2mm	4±0.2mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	197.64±1.97in	0.47±0.01in	0.16±0.01in	/	/	/	/
<b>K 65</b>	300±10mm	Φ4.0±0.2mm	5020±50mm	12±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	197.64±1.97in	0.47±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	Φ5.8±0.2mm	5020±50mm	12±0.5mm	5±0.5mm	30±0.5mm	11±0.5mm	12±0.5mm	7.0±0.5mm
	11.81±0.39in	0.23±0.008 in	197.64±1.97in	0.47±0.02in	0.20±0.02in	1.18±0.02in	0.43±0.02in	0.47±0.02in	0.28±0.02in
<b>RW 67</b>	300±10mm	Φ5.8±0.2mm	5020±50mm	12±0.5mm	5±0.5mm	30±0.5mm	11±0.5mm	12.0±0.5mm	7.0±0.5mm
	11.81±0.39in	0.23±0.008 in	197.64±1.97in	0.47±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

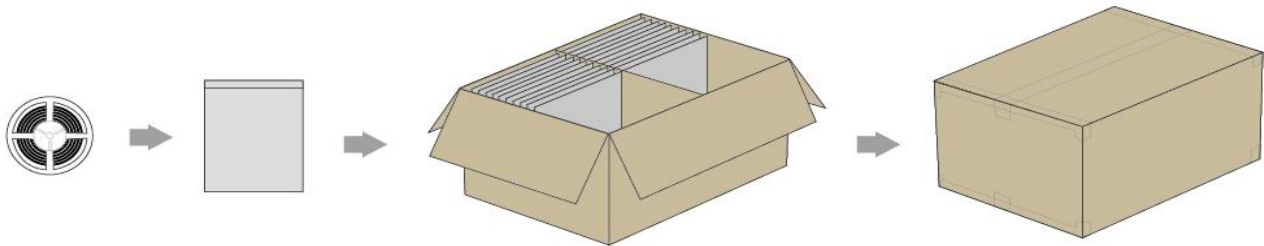


## Standard Accessories

IP Grade	Category	Description	Picture	Part No.	Application
<b>E 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 (12mm)	10mm 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 (12mm)	10mm Type RW
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip



## 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	60	6KG ±10%	10.71KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24in	60	13.22 Lbs ±10%	23.61Lbs ±10%	1.62ft³
<b>S 54</b>	250*270*0.14mm	/	/	440*400 *260mm	60	10.7KG ±10%	13.54KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24in	60	23.58Lbs ±10%	29.85 Lbs ±10%	1.62ft³
<b>K 54/65</b>	250*270*0.14mm	/	/	440*400 *260mm	50	7.513KG ±10%	13.862KG ±10%	0.05m³
	9.84*11.63*0.0056 in	/	/	17.32*15.75 *10.24in	50	16.563Lbs ±10%	30.56Lbs ±10%	1.62ft³
<b>R 67</b>	270*300*0.14mm	/	/	520*370*300mm	36	10.8KG ±10%	16.48KG ±10%	0.06m³
	10.63*11.81*0.0056 in	/	/	20.47*14.57*11.81in	36	23.81Lbs ±10%	36.33Lbs ±10%	2.04ft³
<b>RW 67</b>	270*300*0.14mm	/	/	520*370*300mm	36	10.8KG ±10%	16.48KG ±10%	0.06m³
	10.63*11.81*0.0056 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.**