

# Product Specification

## DC Flexible LED Strip

### Ultra Long Series

2835 Top LED 10mm FPC 140LEDs/M

WW-FLS102T23XW140X-48(WCP)-2500-XR-ME-TR  
WW-FLS102T23XW140X-48(WCP)-2500-XR-ME-TR-EP



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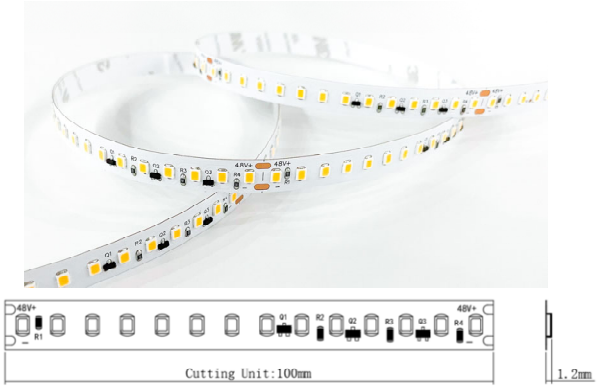
Fax : (852) 3152 3039


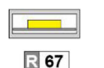


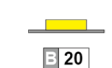
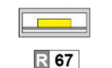
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<p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>• High quality FPC, authentic 3M tape;</li> <li>• Self-encapsulated design 2835 LED;</li> <li>• Light source lifetime:50K hours(L70);</li> <li>• Min. Bending Diameter: Φ60mm</li> <li>• Max. Run length(M): 25m</li> <li>• Meet EU(2019/2020) ErP Regulation</li> </ul>	 <p>The image shows a flexible LED strip light coiled into a circle. Below it is a technical diagram of the strip with labels for '4 Pin', '4014', and '4014+'. A scale bar indicates 'Cutting Unit: 100mm' and a vertical dimension of '1.2mm'.</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</li> <li>• EN61547</li> <li>• EN60598-1</li> <li>• EN60598-2-20</li> <li>• EN62493</li> <li>• EN62471</li> </ul>

<b>Non-ErP Waterproof Type</b>	 <b>B 20</b>	 <b>R 67</b>
	Naked Strip	Silicone Extrusion
	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-FLS102T23XW140X-48(WCP)-2500-XR-ME-TR

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-FLS102T23WW140B-48(WCP)-2500-HR-ME-TR	80	82	96	9.6	10.56	Warm White	2600-2900K	2650-2770K	1140	DC 48V
	Warm White						2900-3200K	2960-3110K	1180		
	Natural White						3700-4250K	3840-4080K	1200		
	Standard White						5700-6500K	5800-6250K	1220		
	WW-FLS102T23WW140B-48(WCP)-2500-UR-ME-TR	90	96	100	9.6	10.56	Warm White	2600-2900K	2650-2770K	960	DC 48V
	Warm White						2900-3200K	2960-3110K	1010		
	Natural White						3700-4250K	3840-4080K	1020		
	Standard White						5700-6500K	5800-6250K	1050		
R 67	WW-FLS102T23WW140R-48(WCP)-2500-HR-ME-TR	80	82	96	9.6	10.56	Warm White	2600-2900K	2650-2770K	1120	DC 48V
	Warm White						2900-3200K	2960-3110K	1160		
	Natural White						3700-4250K	3840-4080K	1180		
	Standard White						5700-6500K	5800-6250K	1190		
	WW-FLS102T23WW140R-48(WCP)-2500-UR-ME-TR	90	96	100	9.6	10.56	Warm White	2600-2900K	2650-2770K	930	DC 48V
	Warm White						2900-3200K	2960-3110K	980		
	Natural White						3700-4250K	3840-4080K	980		
	Standard White						5700-6500K	5800-6250K	1020		

Remarks:

- \* The above color temperature is the color temperature of LED source.
- \*\* Indicates that SDCM3 is optional in the B type strip, and the suffix "-3S" needs to be added at the end of the product model No.
- The typ. Luminous flux tolerance range is ±10% (subject to the manufacturer's instrument test).

Test condition of above technical data:

- Surrounding temperature: 26℃.
- Test while turning on.
- The above technical data, including typical power are based on the test of 0.5m.

WW-FLS102T23XW140X-48(WCP)-2500-XR-ME-TR-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')	Efficiency (Lm/W)	Energy Efficiency Class	Rated voltage
E 20	WW-FLS102T23WW140B-48(WCP)-2500-HR-ME-TR-EP	80	82	96	9.6	10.56	Warm White	2700K	1120	117	E	DC 48V
	Warm White						3000K	1160	121	E		
	Natural White						4000K	1180	123	E		
	Standard White						6000K	1200	125	E		
E 20	WW-FLS102T23WW140B-48(WCP)-2500-UR-ME-TR-EP	90	96	100	9.6	10.56	Warm White	2700K	940	98	F	DC48V
	Warm White						3000K	990	103	F		
	Natural White						4000K	1000	104	F		
	Standard White						6000K	1040	108	F		
R 67	WW-FLS102T23WW140R-48(WCP)-2500-HR-ME-TR-EP	80	82	96	9.6	10.56	Warm White	2700K	1080	113	E	DC 48V
	Warm White						3000K	1120	117	E		
	Natural White						4000K	1160	121	E		
	Standard White						6000K	1170	122	E		
R 67	WW-FLS102T23WW140R-48(WCP)-2500-UR-ME-TR-EP	90	96	100	9.6	10.56	Warm White	2700K	920	96	F	DC 48V
	Warm White						3000K	970	101	F		
	Natural White						4000K	970	101	F		
	Standard White						6000K	1010	105	F		

Remarks:

- \*The above color temperature is the color temperature of LED source.

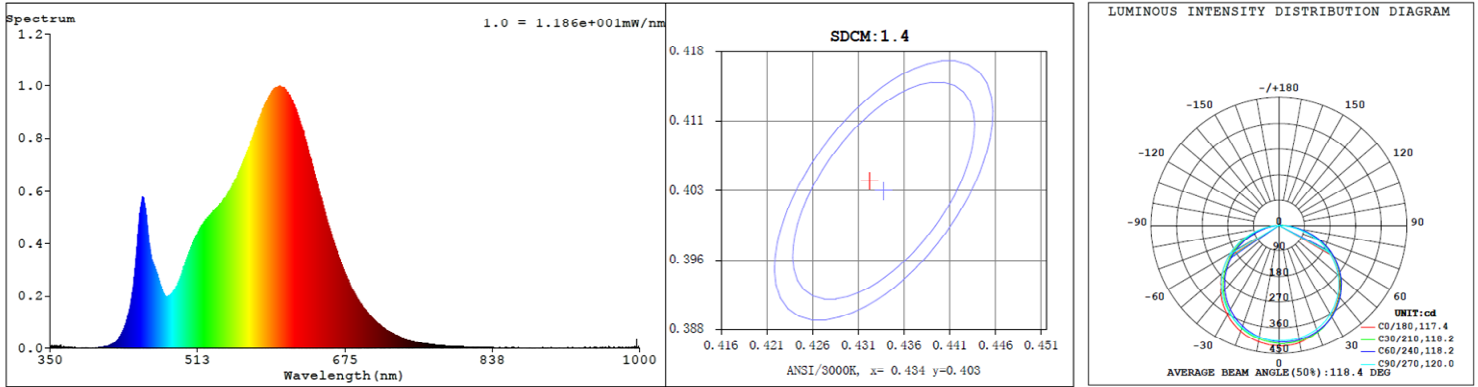
Test condition of above technical data:

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

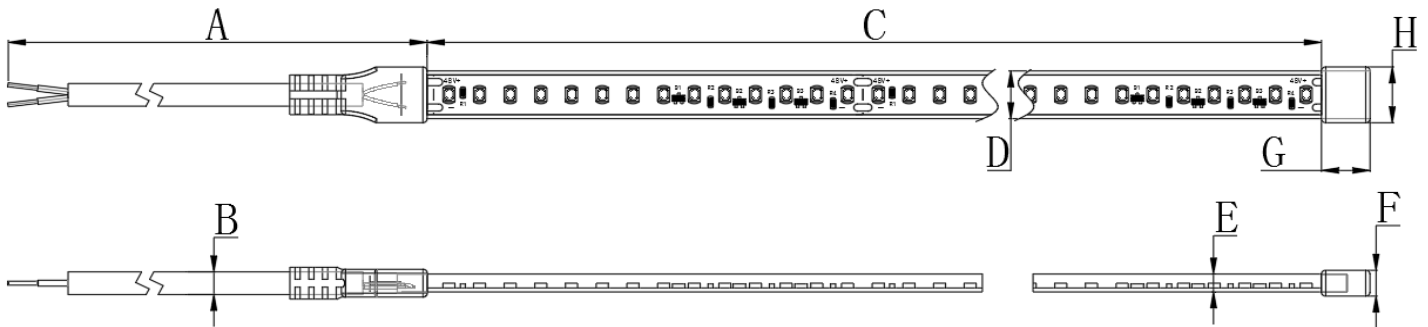
ErP Note:

- 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  $\leq$  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

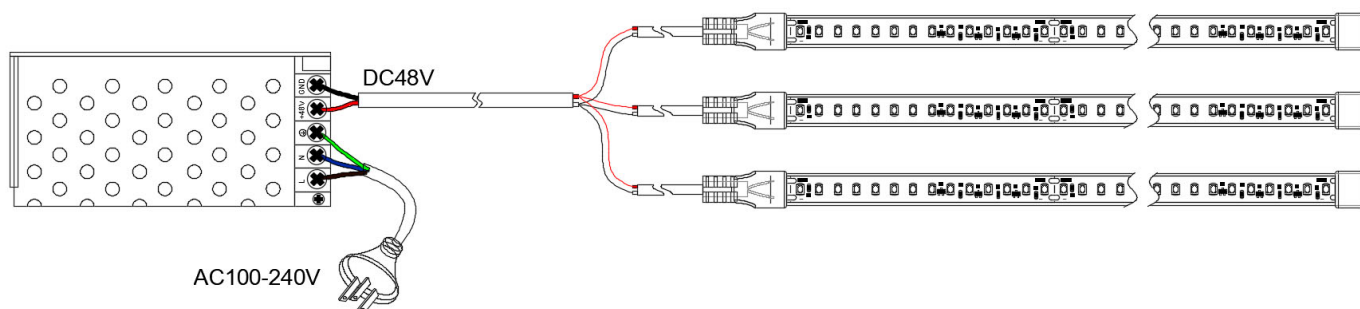


Dimension Drawing





IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Cap thickness	G End cap length	H Cap width
B 20	300±10mm	6.0±0.2mm	25000±200mm	10±0.5mm	1.2±0.5mm	/	/	/
	11.81±0.39in	0.236±0.008in	984.25±7.87in	0.32±0.02in	0.047±0.02in	/	/	/
R 67	315±10mm	6.0±0.2mm	25020±200mm	12±0.5mm	4.5±0.5mm	6.5±1mm	12±0.5mm	14±0.5mm
	12.4±0.39in	0.236±0.008in	985.04±7.87in	0.39±0.02in	0.177±0.02in	0.26±0.039in	0.47±0.02in	0.55±0.02in

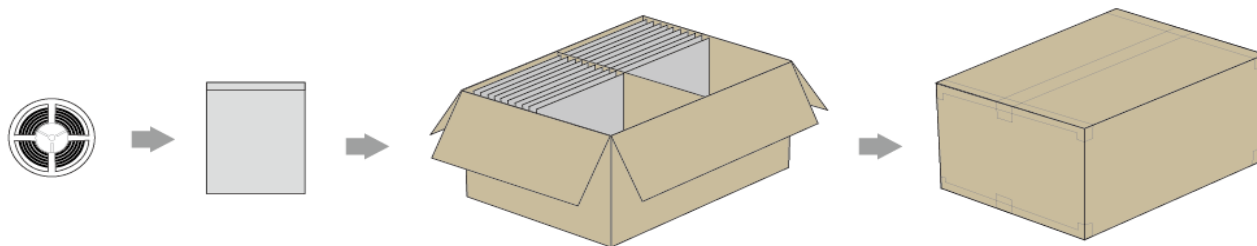
## Circuit Diagram



## Standard Accessories

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

## 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>	380×350×0.14mm	/	/	330×320×330mm	17	7.65KG ±10%	12.25KG ±10%	0.0348m <sup>3</sup>
	14.96×13.78×0.0055in	/	/	13.0×12.6×13.0in	17	16.87Lbs ±10%	27.0Lbs ±10%	1.23ft <sup>3</sup>
<b>R 67</b>	/	345×330×61mm	1	362×265×350mm	4	6.4KG ±10%	9.86KG ±10%	0.034m <sup>3</sup>
	/	13.58×12.99×2.4in	1	14.25×10.43×13.78in	4	14.11Lbs ±10%	21.74Lbs ±10%	1.19ft <sup>3</sup>


**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 25 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.**