

# Product Specification

## DC Flexible LED Strip

### Ultra Long 2835 Series

2835 Top LED 10mm FPC 60LEDs/M

WW-FLS102T28XW060X-24(WCP)-1500-XR-TR  
&  
WW-FLS102T28XW060X-24(WCP)-1500-XR-TR-EP



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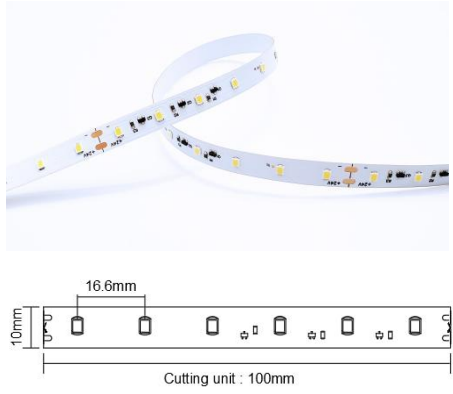
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<p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>• High quality FPC, authentic 3M tape;</li> <li>• Self-encapsulated design 2835 LED;</li> <li>• Light source lifetime:50K hours(L70);</li> <li>• Meet (EU)2019/2020 ErP regulations.</li> <li>• Min. Bending Diameter: <math>\Phi</math>60mm</li> <li>• Max. length(M): 15M</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>E 20</b>	 <b>R 67</b>
	Naked Strip	Silicone Extrusion
	5 Years Warranty	5 Years Warranty

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

WW-FLS102T28XW060X-24(WCP)-1500-XR-TR

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-FLS102T28XW060B-24(WCP)-1500-HR-TR	80	82	96	7.2	7.92	Warm White	2600-2900K	2650-2770K	620	DC 24V
							Warm White	2900-3200K	2960-3110K	670	
							Natural White	3700-4250K	3840-4080K	700	
							Standard White	5700-6500K	5800-6250K	690	
	WW-FLS102T28XW060B-24(WCP)-1500-UR-TR	90	90	100	7.2	7.92	Warm White	2600-2900K	2650-2770K	540	DC 24V
							Warm White	2900-3200K	2960-3110K	540	
							Natural White	3700-4250K	3840-4080K	590	
							Standard White	5700-6500K	5800-6250K	590	
R 67	WW-FLS102T28XW060R-24(WCP)-1500-HR-TR	80	82	96	7.2	7.92	Warm White	2600-2900K	2650-2770K	610	DC 24V
							Warm White	2900-3200K	2960-3110K	660	
							Natural White	3700-4250K	3840-4080K	690	
							Standard White	5700-6500K	5800-6250K	680	
	WW-FLS102T28XW060R-24(WCP)-1500-UR-TR	90	90	100	7.2	7.92	Warm White	2600-2900K	2650-2770K	530	DC 24V
							Warm White	2900-3200K	2960-3110K	530	
							Natural White	3700-4250K	3840-4080K	580	
							Standard White	5700-6500K	5800-6250K	580	

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.
- The above technical data, including typical power are based on the test of 0.5m.

WW-FLS102T28XW060X-24(WCP)-1500-XR-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')	Lumen/watt	Energy Efficiency class	Rated voltage
E 20	WW-FLS102T28XW060B-24(WCP)-1500-HR-TR-EP	80	82	96	7	7.7	Warm White	2700K	668	95	F	DC 24V
							Warm White	3000K	711	102	F	
							Natural White	4000K	744	106	F	
							Standard White	6000K	733	105	F	
	WW-FLS102T28XW060B-24(WCP)-1500-UR-TR-EP	90	90	100	7	7.7	Warm White	2700K	571	82	G	DC 24V
							Warm White	3000K	571	82	G	
							Natural White	4000K	625	89	F	
							Standard White	6000K	625	89	F	
R 67	WW-FLS102T28XW060R-24(WCP)-1500-HR-TR-EP	80	82	96	7	7.7	Warm White	2700K	647	92	F	DC 24V
							Warm White	3000K	690	99	F	
							Natural White	4000K	722	103	F	
							Standard White	6000K	711	102	F	
	WW-FLS102T28XW060R-24(WCP)-1500-UR-TR-EP	90	90	100	7	7.7	Warm White	2700K	561	80	G	DC 24V
							Warm White	3000K	561	80	G	
							Natural White	4000K	614	88	F	
							Standard White	6000K	614	88	F	

Remarks:

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

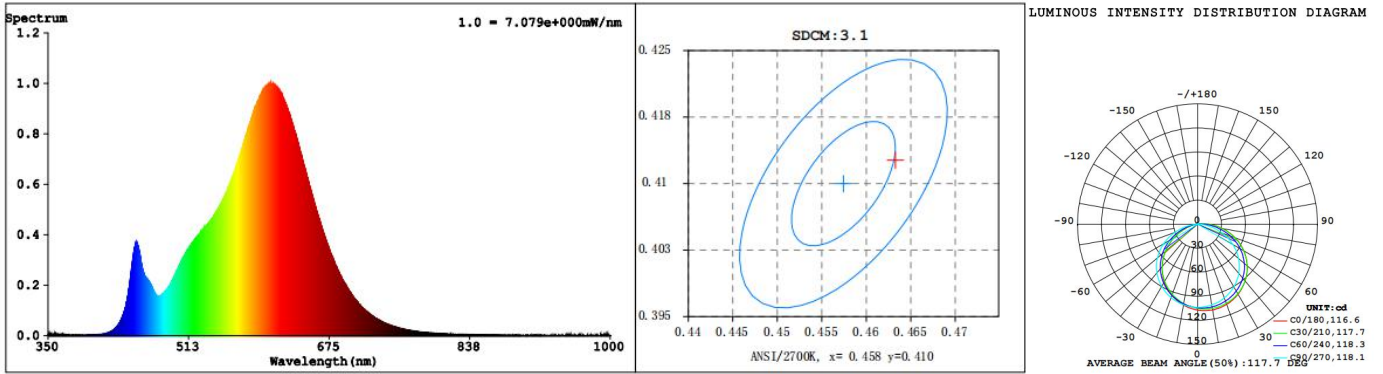
Test condition of above technical data:

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

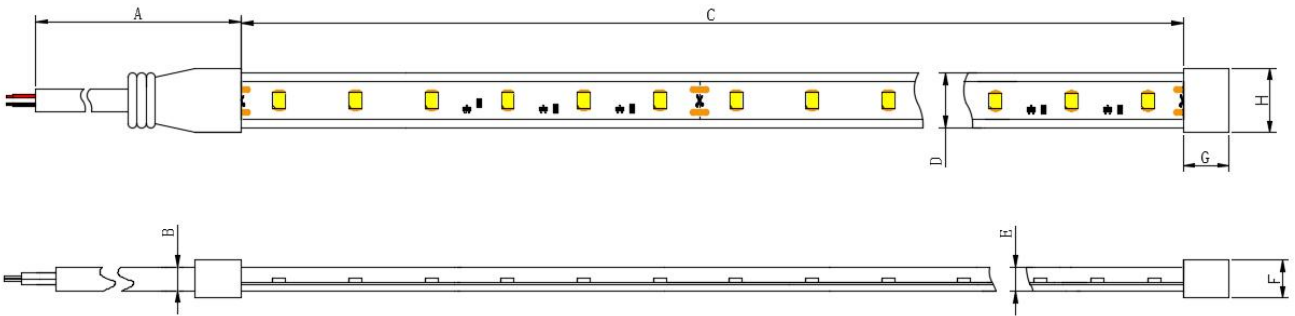
ErP Note:

- 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 ≤ 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

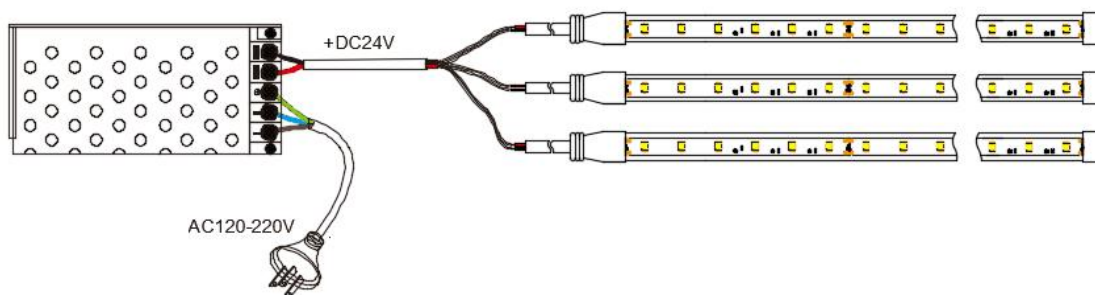


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Cap thickness	G End cap length	H Cap width
E20	300±10mm	Φ4.0±0.2mm	5000±50mm	10±0.5mm	1.2±0.5mm	/	/	/
	11.81±0.39in	0.157±0.01in	196.8±1.97in	0.394±0.02in	0.047±0.02in	/	/	/
R67	300±10mm	Φ6.0±0.2mm	5020±50mm	12±0.5mm	4.5±0.5mm	7±1mm	11±0.5mm	14±0.5mm
	11.81±0.39in	0.236±0.01in	197.6±1.97in	0.472±0.02in	0.177±0.02in	0.276±0.04in	0.433±0.02in	0.551±0.02in



Remarks:

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

## Circuit Diagram



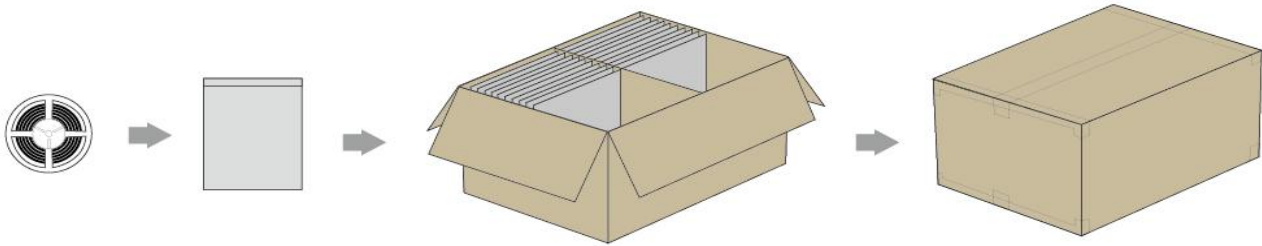
## Standard Accessories

IP Grade	Category	Description	Picture	Part No.	Application
<b>B 20</b>	/	/	/	/	/
	/	/	/	/	/
<b>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

## Optional Accessories

IP Grade	Category	Description	Picture	Part No.	Application
<b>B 20</b>	Strip to wire Connector	2PIN Strip to wire Connector		WW-FLS102B-2FS2 (10mm)	≤120LEDs/M
	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2B-PWP2T-10	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS102B-2DD2(10MM)	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		FLS102B-2FD2(10mm)	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2B-POP2T-10	≤120LEDs/M
<b>R 67</b>	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2R-SW02T-10-300(22)	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2R-SOP2T-10	≤120LEDs/M

## 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	12.36 KG ±10%	16.36 KG ±10%	0.04576m³
	9.84*10.63*0.0056in	/	/	17.32*15.75 *10.24 in	50	27.25 Lbs ±10%	36.06 Lbs ±10%	1.616 ft³
<b>R 67</b>	470*440*0.14mm	/	/	440*400*260mm	11	7.90KG ±10%	12.05 KG ±10%	0.04576m³
	18.50*17.32*0.0056 in	/	/	17.32*15.75 *10.24 in	11	17.42Lbs ±10%	26.57Lbs ±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.**