

# Product Specification

## DC Flexible LED Strip

### 2835 8LEDs/unit Series

2835 Top LED 12mm FPC 224LEDs/M

WW-FLS102T29XW224B-24(WCP)-30-XR-M-HE  
&  
WW-FLS102T29XW224B-24(WCP)-30-XR-M-HE-EP



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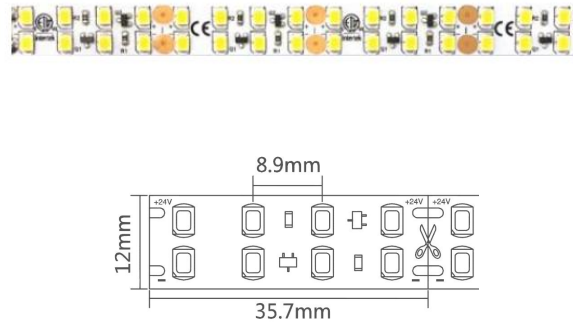
Fax : (852) 3152 3039







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, High thermal conductivity double-sided adhesive.</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): 3M.</li> <li>• High LED density, High Lumen output.</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>

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

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

WW-FLS102T29XW224B-24(WCP)-30-XR-M-HE

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-FLS102T29XW224B-24(WCP)-30-HR-M-HE	80	82	96	40.00	44.00	Warm White	2300-2600K	/	5500	DC 24V
							Warm White	2600-2900K	/	5700	
							Warm White	2900-3200K	/	5920	
							Natural White	3700-4250K	/	6320	
							Standard White	5700-6500K	/	6260	
	WW-FLS102T29XW224B-24(WCP)-30-UR-M-HE	90	90	100	40.00	44.00	Warm White	2300-2600K	/	4290	DC 24V
							Warm White	2600-2900K	/	4700	
							Warm White	2900-3200K	/	4940	
							Natural White	3700-4250K	/	5150	
							Standard White	5700-6500K	/	5230	

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).
- This product must be equipped with aluminium profile in use, the heat radiating area >2200cm<sup>2</sup>/m.

Test condition of above technical data:

- Surrounding temperature: 26°C.
- Test while turning on.
- This series of products must be equipped with aluminum profiles when in use, and the surface area of the heat sink is required to be > 840cm<sup>2</sup>/m.
- The above technical data, including typical power are based on the test of 0.5m.

WW-FLS102T29XW224B-24(WCP)-30-XR-M-HE-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-FLS102T29XW224B-24(WCP)-30-HR-M-HE-EP	80	84	95	38.40	42.24	Warm White	2500K	5239	136	D	DC 24V
							Warm White	2700K	5412	141	D	
							Warm White	3000K	5670	148	D	
							Natural White	4000K	6037	157	D	
							Standard White	6000K	6048	157	D	
	WW-FLS102T29XW224B-24(WCP)-30-UR-M-HE-EP	90	91	100	38.40	42.24	Warm White	2500K	4215	110	F	DC 24V
							Warm White	2700K	4592	120	E	
							Warm White	3000K	4840	126	E	
							Natural White	4000K	5023	131	E	
							Standard White	6000K	5174	135	E	

Remarks:

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

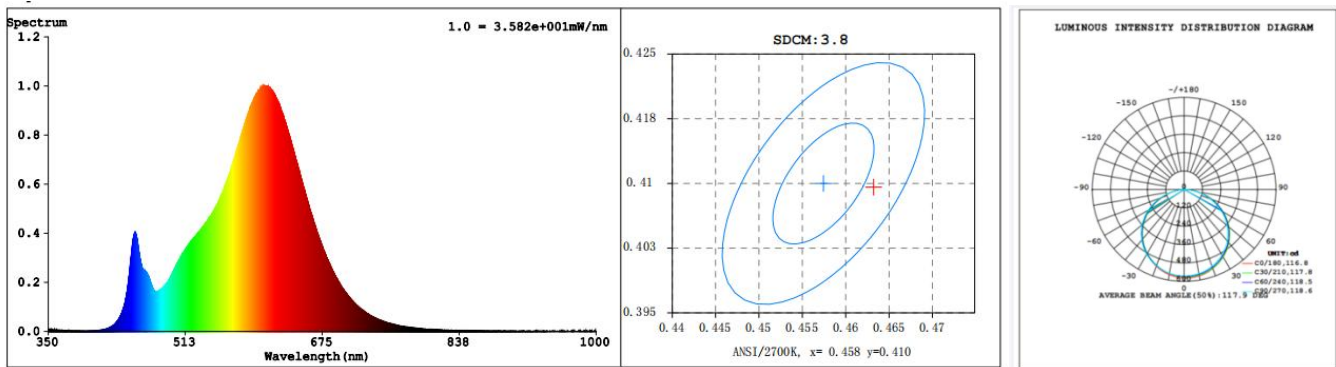
Test condition of above technical data:

- Surrounding temperature: 26 °C.
- Test after 10 mins turned on.
- This series of products must be equipped with aluminum profiles when in use, and the surface area of the heat sink is required to be > 840cm<sup>2</sup>/m.
- This product must be equipped with aluminium profile in use, the heat radiating area >2200cm<sup>2</sup>/m.

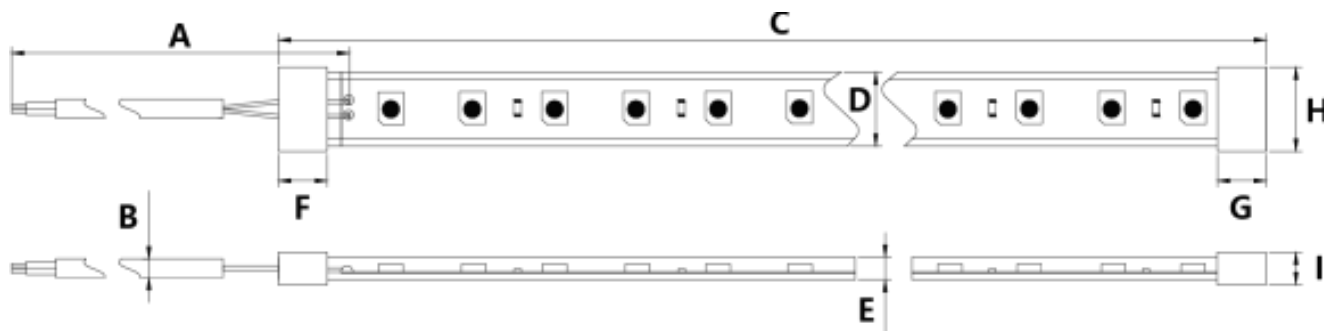
ErP Note:

- 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

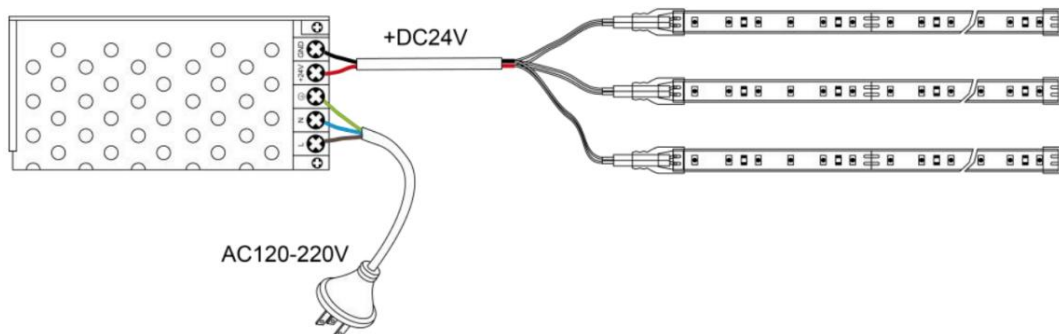


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Front cap length	G End cap length	H Cap width	I Cap thickness
E 20	300±10mm	Φ4.0±0.2mm	3000±50mm	12±0.5mm	1.2±0.2mm	/	/	/	/
	11.81±0.39in	0.157±0.01in	118.1±1.97in	0.47±0.02in	0.047±0.02in	/	/	/	/

**Remarks:**

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

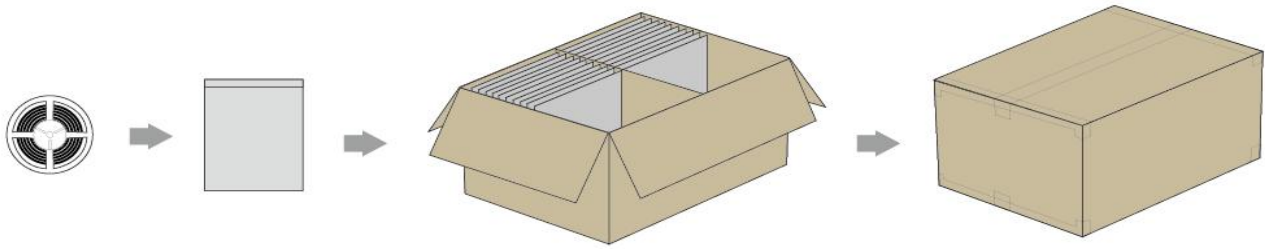
## Circuit Diagram



## Optional Accessories

IP Grade	Category	Description	Picture	Part No.	Application
E 20	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2B-PWP20-12-0-18	≤240LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2B-POP20-12-0-0	≤240LEDs/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			
E 20	250*270*0.14mm	/	/	440*400 *260mm	50	4.73 KG ±10%	9.44 KG ±10%	0.04576 m <sup>3</sup>
	9.84*10.63*0.0056 in	/	/	17.32*15.748 *10.236in	50	10.43 Lbs ±10%	20.81Lbs ±10%	1.616 ft <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 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.**