

# Product Specification

## DC Flexible LED Strip

### 3014 Side-emit Series

3014 LED 8mm FPC 120LEDs/M

WW-FLS104T30XW120X-24(WCP)-HR  
&  
WW-FLS104T30XW120X-24(WCP)-HR-EP



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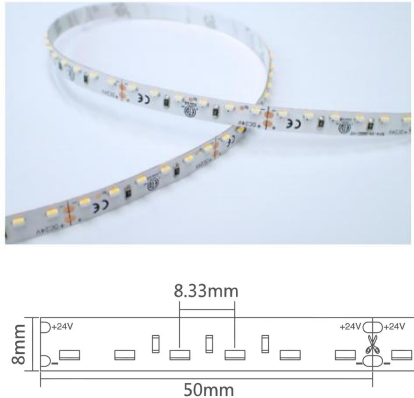
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<p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>• High quality FPC, authentic 3M tape;</li> <li>• Self-encapsulated design 3014 LED;</li> <li>• Light source lifetime:50K hours(L70);</li> <li>• Meet (EU)2019/2020 ErP regulations.</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>F 65</b>
	Naked Strip	Silicone Tube
	3 Years Warranty	3 Years Warranty

<b>ErP Waterproof Type</b>	 <b>B 20</b>	 <b>F 65</b>
	Naked Strip	Silicone Tube
	3 Years Warranty	3 Years Warranty

**WW-FLS104T30XW120X-24(WCP)-HR**

**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-FLS104T30XW120B-24(WCP)-HR	80	82	96	8.73	9.60	Warm White	2700K	/	770	DC 24V
							Warm White	3000K	/	770	
							Natural White	4000K	/	825	
							Standard White	6000K	/	825	
F 65	WW-FLS104T30XW120F-24(WCP)-HR	80	82	96	8.73	9.60	Warm White	2700K	/	739	DC 24V
							Warm White	3000K	/	732	
							Natural White	4000K	/	776	
							Standard White	6000K	/	784	

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.

**WW-FLS104T30XW120X-24(WCP)-HR-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-FLS104T30XW120B-24(WCP)-HR-EP	80	82	96	8.88	9.76	Warm White	2700K	893	101	F	DC 24V
							Warm White	3000K	888	100	F	
							Natural White	4000K	955	108	F	
							Standard White	6000K	901	101	F	
F 65	WW-FLS104T30XW120F-24(WCP)-HR-EP	80	82	96	8.88	9.76	Warm White	2700K	886	100	F	DC 24V
							Warm White	3000K	893	101	F	
							Natural White	4000K	938	106	F	
							Standard White	6000K	880	99	F	

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".

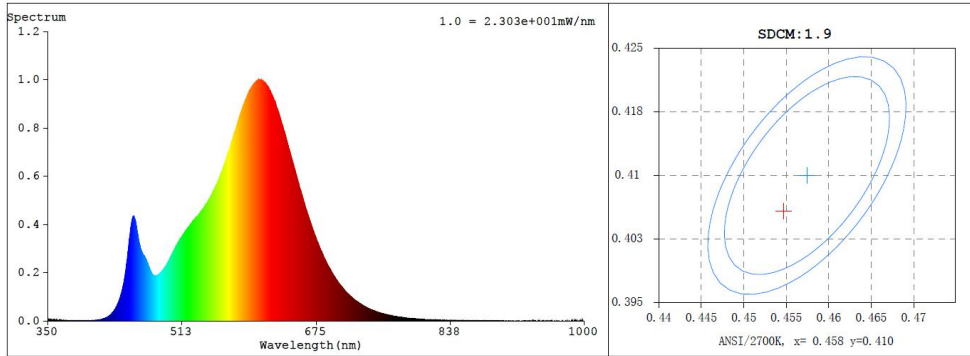
Test condition of above technical data:

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

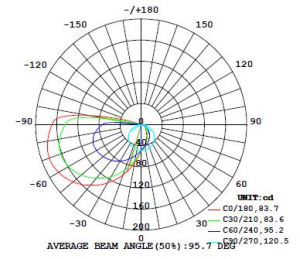
ErP Note:

- 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.

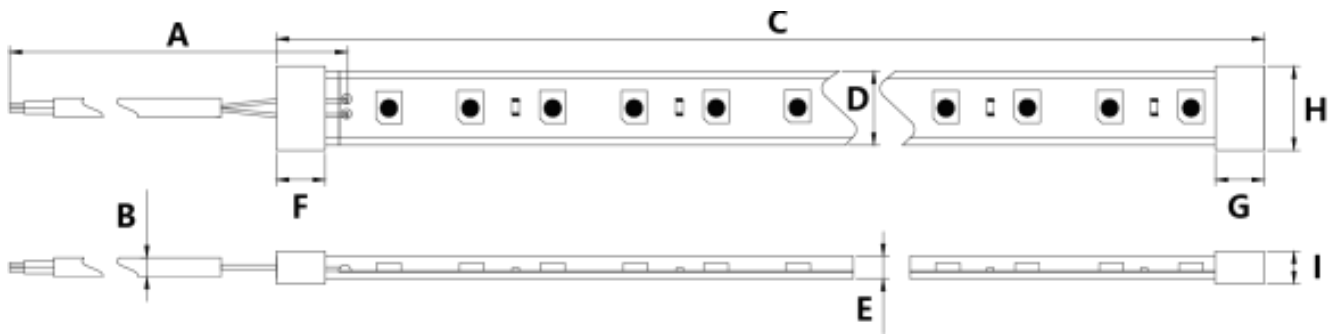
Optical Test Diagram



LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



## Dimension Drawing

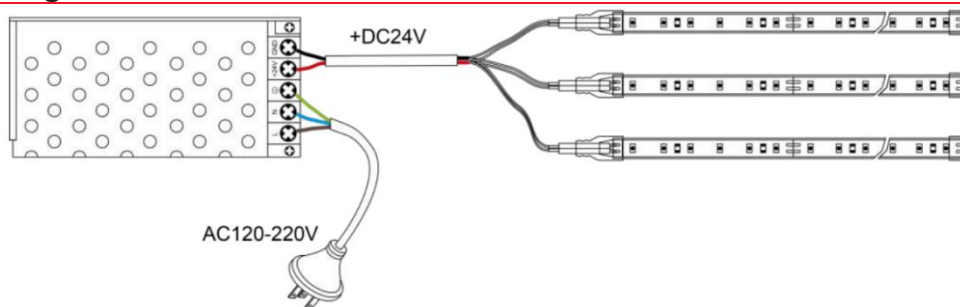


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Front cap length	G End cap length	H Cap width	I Cap thickness
E 20	300±10mm	Φ4.0±0.2mm	5000±50mm	8±0.5mm	1.2±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.32±0.02in	0.047±0.02in	/	/	/	/
F 65	300±10mm	Φ4.0±0.2mm	5000±50mm	10±0.5mm	4.0±0.5mm	22.5±0.5mm	10±0.5mm	12.5±0.5mm	6.0±0.5mm
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.39±0.02in	0.16±0.02in	0.89±0.02in	0.39±0.02in	0.49±0.02in	0.24±0.02in

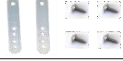

**Remarks:**

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




## Circuit Diagram



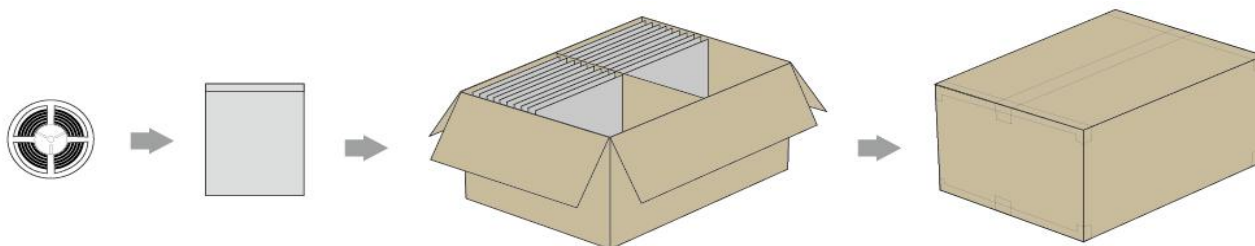
## Standard Accessories

IP Level	Category	Description	Picture	Part No.	Application
B 20	/	/	/	/	/
	/	/	/	/	/
F 65	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	8mm Type F

## Optional Accessories

IP Level	Category	Description	Picture	Part No.	Density
B 20	Strip to wire Connector	2PIN Strip to wire Connector		WW-FLS102B-2FS2 (8mm)	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS102B-2DD2(8MM)	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS102B-2FD2(8mm)	≤120LEDs/M
F 65	/	/	/	/	/

## 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			
<b>E 20</b>	250*270*0.14mm	/	/	440*400 *260mm	60	4.20KG ±10%	8.53 KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24 in	60	9.26 Lbs ±10%	18.81Lbs ±10%	1.62ft³
<b>F 65</b>	250*270*0.14mm	/	/	440*400 *260mm	40	7.26KG ±10%	10.77KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24 in	40	16.01 Lbs ±10%	23.74Lbs ±10%	1.62ft³

















**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.**