V2.1

Product Specification

DC Flexible LED Strip

Tunable White Series

2835 Top LED 10mm FPC 240LEDs/M

WW-FLS102T23W-S240X-24(WCP)-HR-LD
&
WW-FLS102T23W-S240X-24(WCP)-HR-EP-LD

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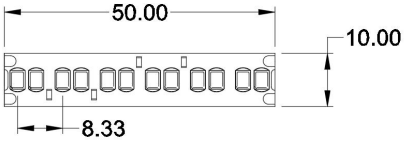
Product Features

- High quality FPC, authentic 3M tape;
- Self-encapsulated design 2835 LED;
- Light source lifetime:50K hours(L70);
- Meet (EU)2019/2020 ErP regulations.
- Min. Bending Diameter: Φ60mm
- Max. length(M): 5M



Technology info

- Lighting Technology: LED
- DLS or NDLS: NDLS
- MLS or NMLS: NMLS

Certification Standards

- EN55015:2013+A1
- EN61547:2009
- EN60598-1:2015
- EN60598-2-20:2015
- EN62493:2015
- EN62471:2008

Non-ErP Waterproof Type	B 20	F 65	R 67
	Naked Strip	Silicone Tube	Silicone Extrusion
	3 Years Warranty	3 Years Warranty	3 Years Warranty

ErP Waterproof Type	B 20	F 65	R 67
	Naked Strip	Silicone Tube	Silicone Extrusion
	3 Years Warranty	3 Years Warranty	3 Years Warranty

WW-FLS102T23W-S240X-24(WCP)-HR-LD

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-FLS102T23W-S240B-24(WCP)-HR-LD	80	82	96	5.50	6.05	Warm White	2600-2900K	2650-2770K	590	DC 24V
	WW-FLS102T23W-S240B-24(WCP)-HR-LD						Standard White	2900-3200K	2960-3110K	630	
F 65	WW-FLS102T23W-S240F-24(WCP)-HR-LD	80	82	96	5.50	6.05	Warm White	3700-4250K	3840-4080K	580	DC 24V
	WW-FLS102T23W-S240F-24(WCP)-HR-LD						Standard White	5700-6500K	5800-6250K	620	
R 67	WW-FLS102T23W-S240R-24(WCP)-HR-LD	80	82	96	5.50	6.05	Warm White	2600-2900K	2650-2770K	580	DC 24V
	WW-FLS102T23W-S240R-24(WCP)-HR-LD						Standard White	2900-3200K	2960-3110K	620	

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

WW-FLS102T23W-S240X-24(WCP)-HR-EP-LD

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-FLS102T23W-S240B-24(WCP)-HR-EP-LD	80	82	96	5.60	6.16	Warm White	2700	590	105	F	DC 24V
	WW-FLS102T23W-S240B-24(WCP)-HR-EP-LD						Standard White	6000	640	114	E	
F 65	WW-FLS102T23W-S240F-24(WCP)-HR-EP-LD	80	82	96	5.60	6.16	Warm White	2700	580	104	F	DC 24V
	WW-FLS102T23W-S240F-24(WCP)-HR-EP-LD						Standard White	6000	630	113	E	
R 67	WW-FLS102T23W-S240R-24(WCP)-HR-EP-LD	80	82	96	5.60	6.16	Warm White	2700	580	104	F	DC 24V
	WW-FLS102T23W-S240R-24(WCP)-HR-EP-LD						Standard White	6000	620	111	E	

Remarks:

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

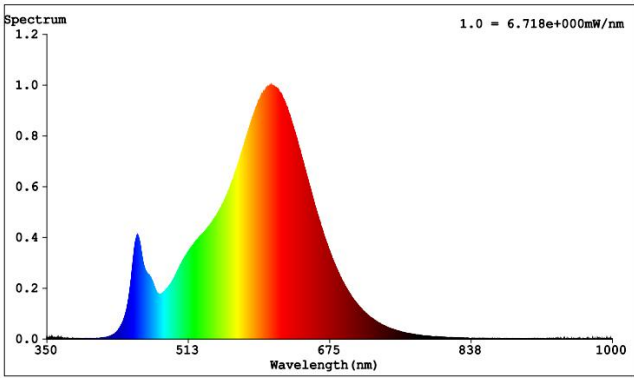
Test condition of above technical data:

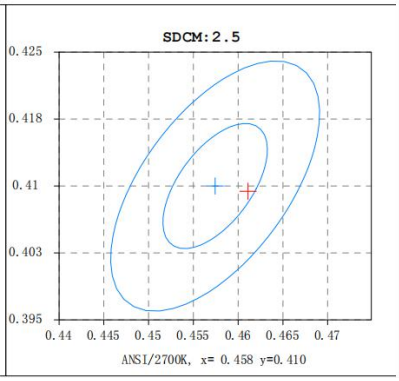
- Surrounding temperature: 26 ℃.
- Test after 10 mins turned on.

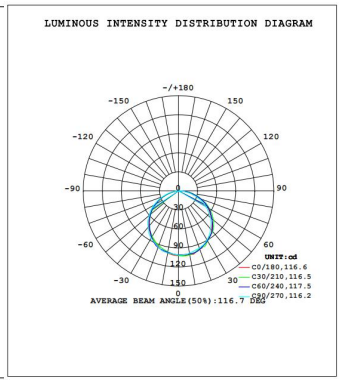
ErP Note:

- 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.

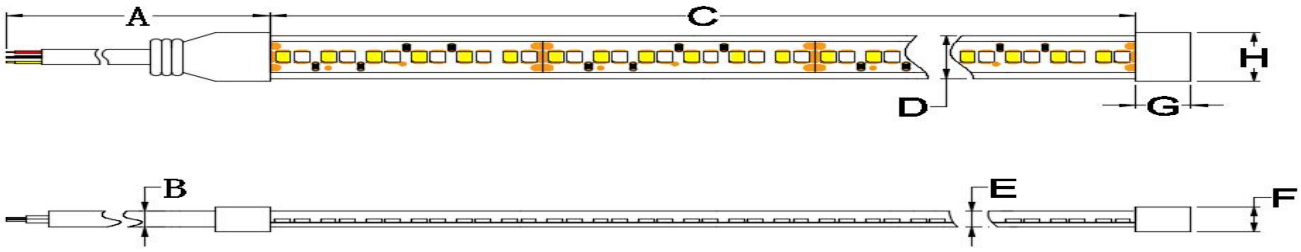
Optical Test Diagram







Dimension Draing

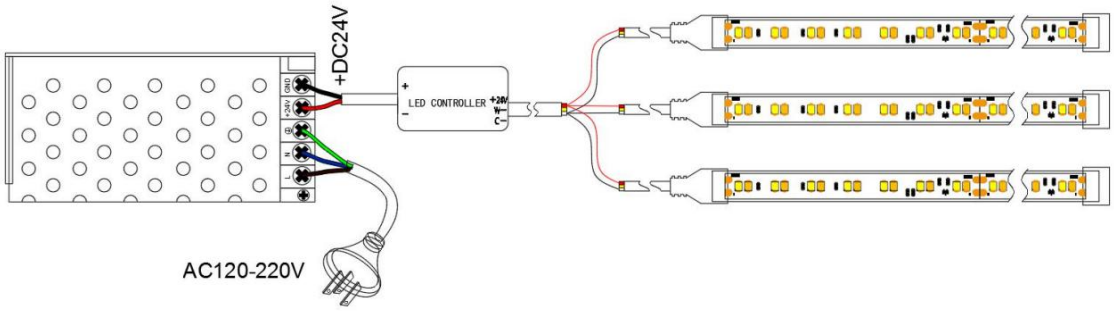


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Cap thickness	G End cap length	H Cap width
B 20	300±10mm	Φ4.5±0.2mm	5000±50mm	10±0.5mm	1.2±0.2mm	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.32±0.02in	0.047±0.02in	/	/	/
F 65	300±10mm	Φ4.5±0.2mm	5020±50mm	12±0.5mm	4.0±0.5mm	6±1mm	11±0.5mm	14±0.5mm
	11.81±0.39in	0.16±0.008in	197.64±1.97in	0.39±0.02in	0.20±0.02in	0.28±0.02in	0.43±0.02in	0.47±0.02in
R 67	300±10mm	Φ6.0±0.2mm	5020±50mm	12±0.5mm	4.5±0.5mm	7.0±1mm	11±0.5mm	14±0.5mm
	11.81±0.39in	0.236±0.008in	197.64±1.97in	0.39±0.02in	0.20±0.02in	0.28±0.02in	0.43±0.02in	0.47±0.02in

Remarks:

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

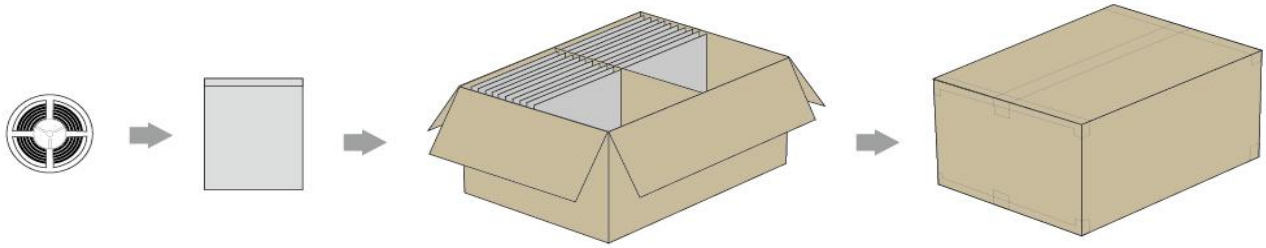
Circuit Diagram



Standard Accessories

IP Grade	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
B 20	/	/	/	/	/	/	/	/
	/	/	/	/	/	/	/	/
F 65	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW(12mm)	Connection Accessories	Front cap+End cap+Cable		10mm Type R Waterproof strip
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Installation Accessories	Installation Buckle+Screws		
R 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW(12mm)	Connection Accessories	Front cap+End cap+Cable		10mm Type R Waterproof strip
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Installation Accessories	Installation Buckle+Screws		

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 20	250*270*0.14mm	/	/	440*400 *260mm	60	6KG ±10%	10.71KG ±10%	0.045m³
	9.84*10.63*0.0055 in	/	/	17.32*15.75 *10.24 in	60	13.2 Lbs ±10%	23.61Lbs ±10%	1.62ft³
F 65	270*300*0.14mm	/	/	520*370 *300mm	36	10.73 KG ±10%	17.04 KG ±10%	0.06m³
	10.63*11.81*0.0055 in	/	/	20.47*14.57*11.81 in	36	22.47 Lbs ±10%	29.6 Lbs ±10%	2.04 ft³
R 67	270*300*0.14mm	/	/	520*370 *300mm	36	10.73 KG ±10%	17.04 KG ±10%	0.06m³
	10.63*11.81*0.0055 in	/	/	20.47*14.57*11.81 in	36	22.47 Lbs ±10%	29.6 Lbs ±10%	2.04 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℃~+45℃ (-4℉~+113℉)

0℃~+60℃ (32℉~+140℉)

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 minumum 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.**

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