

Product Specification

DC Flexible LED Strip

2835 6LEDs/unit Series

2835 Top LED 8mm FPC 060LEDs/M

WW-FLS102T23XW060X-12(WCP)-XR-LD
&
WW-FLS102T23XW060X-12(WCP)-XR-EP-LD



HK Office :

Unit 1901, 19th Floor, NanYang Plaza, No. 57 Hung To Road
Kwun Tong, Kowloon, Hong Kong

China Factory :

Zhiyang Science and Technology Park, 10 Zhiyang Road, Zhangge,
Fucheng Street, Longhua District, Shenzhen, Guangdong, China

Tel : (852) 3152 3059 (10 lines)

Fax : (852) 3152 3039



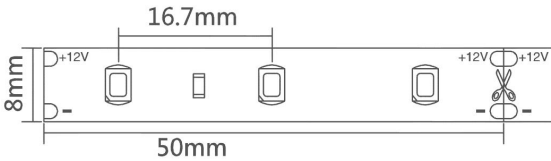
Tel : (86) 755 8601 9190



Fax : (86) 755 8601 9197

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

- EN55015:2019
- EN61547:2009
- EN60598-1:2015
- EN60598-2-20:2015
- EN62493:2015
- EN62471:2008

Non-ErP Waterproof Type				
	Naked Strip	Silicone Tube	Silicone Extrusion	Silicone Dropping
	3 Years Warranty	3 Years Warranty	3 Years Warranty	3 Years Warranty

ErP Waterproof Type			
	Naked Strip	Silicone Tube	Silicone Extrusion
	3 Years Warranty	3 Years Warranty	3 Years Warranty

WW-FLS102T23XW060X-12(WCP)-XR-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
E 20	WW-FLS102T23XW060B-12(WCP)-HR-LD	80	82	96	4.72	5.19	Warm White	2300-2600K	2400-2500K	435	DC 12V
							Warm White	2600-2900K	2650-2770K	475	
							Warm White	2900-3200K	2960-3110K	490	
							Natural White	3700-4250K	3840-4080K	510	
							Standard White	5700-6500K	5800-6250K	510	
	WW-FLS102T23XW060B-12(WCP)-UR-LD	90	96	100	4.72	5.19	Warm White	2300-2600K	2400-2500K	355	DC 12V
							Warm White	2600-2900K	2650-2770K	385	
							Warm White	2900-3200K	2960-3110K	405	
							Natural White	3700-4250K	3840-4080K	435	
							Standard White	5700-6500K	5800-6250K	435	
F 65	WW-FLS102T23XW060F-12(WCP)-HR-LD	80	82	96	4.72	5.19	Warm White	2300-2600K	2400-2500K	415	DC 12V
							Warm White	2600-2900K	2650-2770K	455	
							Warm White	2900-3200K	2960-3110K	470	
							Natural White	3700-4250K	3840-4080K	490	
							Standard White	5700-6500K	5800-6250K	490	
	WW-FLS102T23XW060F-12(WCP)-UR-LD	90	96	100	4.72	5.19	Warm White	2300-2600K	2400-2500K	340	DC 12V
							Warm White	2600-2900K	2650-2770K	370	
							Warm White	2900-3200K	2960-3110K	385	
							Natural White	3700-4250K	3840-4080K	415	
							Standard White	5700-6500K	5800-6250K	415	
R 67	WW-FLS102T23XW060R-12(WCP)-HR-LD	80	82	96	4.72	5.19	Warm White	2300-2600K	2400-2500K	410	DC 12V
							Warm White	2600-2900K	2650-2770K	450	
							Warm White	2900-3200K	2960-3110K	465	
							Natural White	3700-4250K	3840-4080K	480	
							Standard White	5700-6500K	5800-6250K	480	
	WW-FLS102T23XW060R-12(WCP)-UR-LD	90	96	100	4.72	5.19	Warm White	2300-2600K	2400-2500K	335	DC 12V
							Warm White	2600-2900K	2650-2770K	365	
							Warm White	2900-3200K	2960-3110K	380	
							Natural White	3700-4250K	3840-4080K	410	
							Standard White	5700-6500K	5800-6250K	410	
S 54	WW-FLS102T23XW060S-12(WCP)-HR-LD	80	82	96	4.72	5.19	Warm White	2300-2600K	2400-2500K	405	DC 12V
							Warm White	2600-2900K	2650-2770K	430	
							Warm White	2900-3200K	2960-3110K	445	
							Natural White	3700-4250K	3840-4080K	425	
							Standard White	5700-6500K	5800-6250K	400	
	WW-FLS102T23XW060S-12(WCP)-UR-LD	90	96	100	4.72	5.19	Warm White	2300-2600K	2400-2500K	340	DC 12V
							Warm White	2600-2900K	2650-2770K	355	
							Warm White	2900-3200K	2960-3110K	365	
							Natural White	3700-4250K	3840-4080K	390	
							Standard White	5700-6500K	5800-6250K	360	

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 $\pm 10\%$ (subject to the manufacturer's instrument test).

Test condition of above technical data:

- Surrounding temperature: 26℃.
- Test while turning on.

WW-FLS102T23XW060X-12(WCP)-XR-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
B 20	WW-FLS102T23XW060B-12(WCP)-HR-EP-LD	80	82	96	4.76	5.24	Warm White	2500K	450	95	F	DC 12V
							Warm White	2700K	480	101	F	
							Warm White	3000K	500	105	F	
							Natural White	4000K	520	109	F	
							Standard White	6000K	520	109	F	
	WW-FLS102T23XW060B-12(WCP)-UR-EP-LD	90	96	100	4.76	5.24	Warm White	2500K	360	76	G	DC 12V
							Warm White	2700K	390	82	G	
							Warm White	3000K	410	86	F	
							Natural White	4000K	440	92	F	
							Standard White	6000K	440	92	F	
F 65	WW-FLS102T23XW060F-12(WCP)-HR-EP-LD	80	82	96	4.76	5.24	Warm White	2500K	430	90	F	DC 12V
							Warm White	2700K	460	97	F	
							Warm White	3000K	480	101	F	
							Natural White	4000K	500	105	F	
							Standard White	6000K	500	105	F	
	WW-FLS102T23XW060F-12(WCP)-UR-EP-LD	90	96	100	4.76	5.24	Warm White	2500K	340	71	G	DC 12V
							Warm White	2700K	370	78	G	
							Warm White	3000K	390	82	G	
							Natural White	4000K	420	88	F	
							Standard White	6000K	420	88	F	
R 67	WW-FLS102T23XW060R-12(WCP)-HR-EP-LD	80	82	96	4.76	5.24	Warm White	2500K	420	88	F	DC 12V
							Warm White	2700K	450	95	F	
							Warm White	3000K	470	99	F	
							Natural White	4000K	490	103	F	
							Standard White	6000K	490	103	F	
	WW-FLS102T23XW060R-12(WCP)-UR-EP-LD	90	96	100	4.76	5.24	Warm White	2500K	330	69	G	DC 12V
							Warm White	2700K	360	76	G	
							Warm White	3000K	380	80	G	
							Natural White	4000K	410	86	F	
							Standard White	6000K	410	86	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".

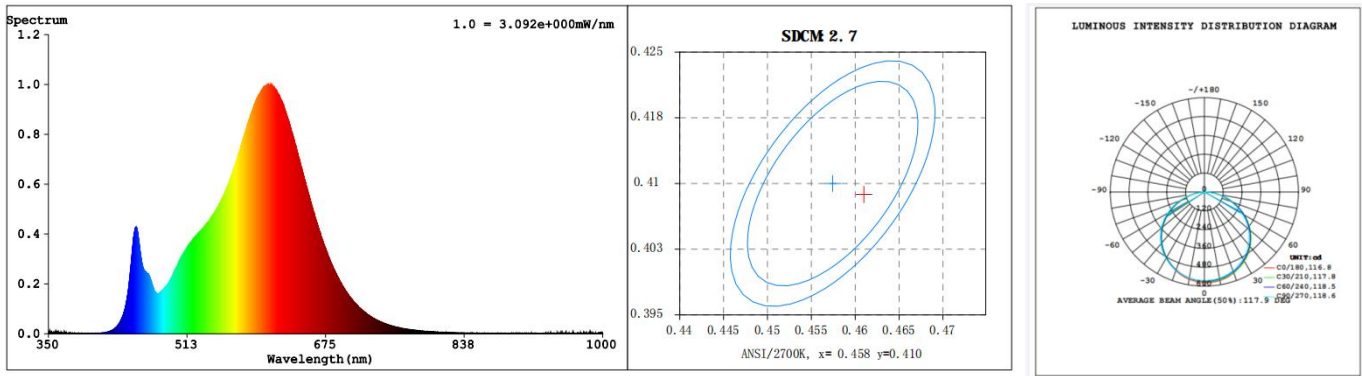
Test condition of above technical data:

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

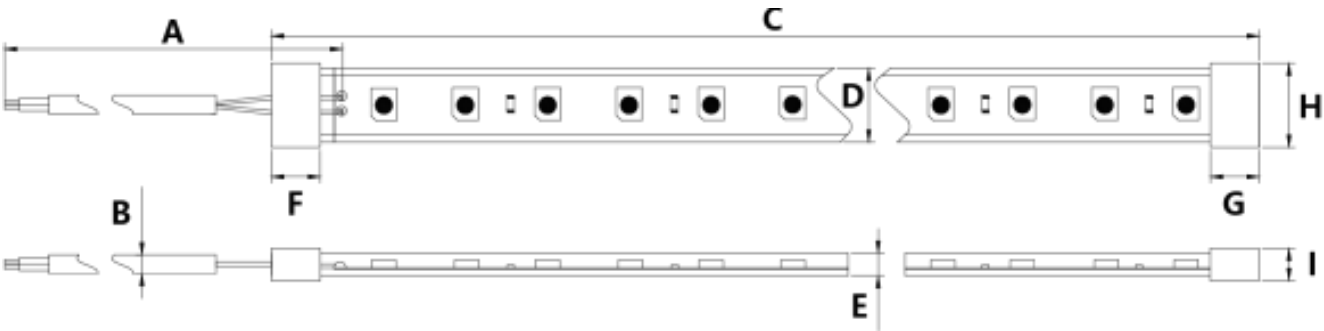
ErP Note:

- 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

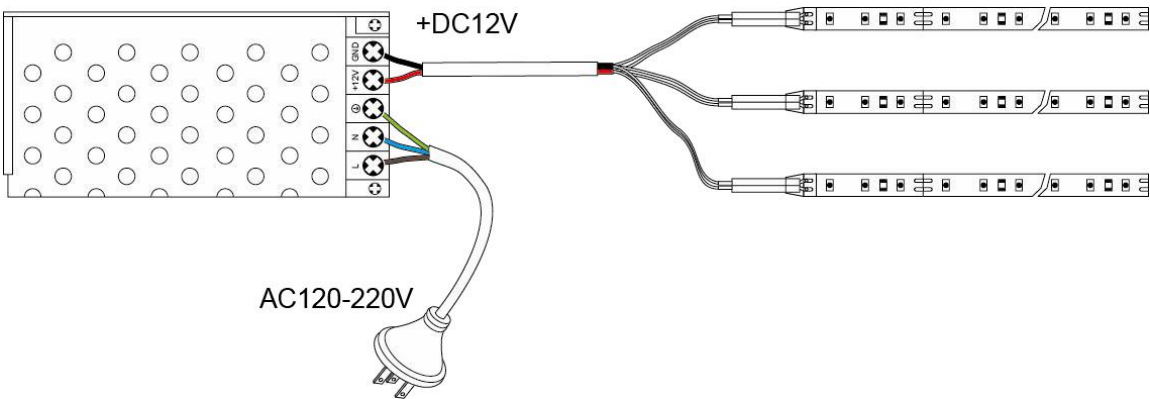


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Front cap length	G End cap length	H Cap width	I Cap thickness
E 20	150±10mm	2.0±0.5mm	5000±50mm	8±0.5mm	1.2±0.5mm	/	/	/	/
	5.905±0.39in	0.078±0.02in	196.85±1.97in	0.32±0.02in	0.047±0.02in	/	/	/	/
S 54	300±10mm	Φ4.0±0.2mm	5000±50mm	8±0.5mm	2.3±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.32±0.02in	0.091±0.02in	/	/	/	/
F 65	300±10mm	Φ4.0±0.2mm	5020±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	197.64±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
R 67	300±10mm	Φ6.0±0.2mm	5020±50mm	10±0.5mm	5.0±0.5mm	30±0.5mm	11±0.5mm	12±0.5mm	7.0±0.5mm
	11.81±0.39in	0.236±0.008 in	197.64±1.97in	0.39±0.02in	0.20±0.02in	1.18±0.02in	0.43±0.02in	0.47±0.02in	0.28±0.02in

Remarks:

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

Circuit Diagram



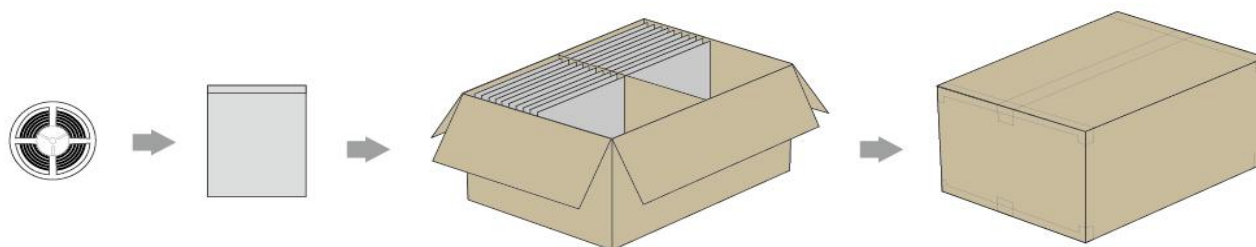
Standard Accessories

IP Grade	Category	Description	Picture	Part No.	Application
B 20	/	/	/	/	/
	/	/	/	/	/
F 65	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW(10mm)	8mm Type F
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
R 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW(10mm)	8mm Type R
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
S 54	/	/	/	/	/
	/	/	/	/	/

Optional Accessories

IP Level	Category	Description	Picture	Part No.	Density
B 20	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2B-PWP2T-08	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		FLS102B-2FD2(8mm)	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-MLB-00SE2BB-08	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2B-POP2T-08	≤120LEDs/M
S 54	Quick Connector	2PIN Connector		WW-FLS102D-2DD2(8mm)	≤120LEDs/M
	Quick Connector	2PIN Transparent Connector		WW-MLB-00DJ2BB-08	≤120LEDs/M
F 65	/	/	/	/	/
R 67	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2R-SW02T-08-300(22)	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2R-SOP2T-08	≤120LEDs/M

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 20	220X250X0.14mm	/	/	440*400*260mm	52	3.22KG ±10%	7.13 KG ±10%	0.04576m3
	8.66*9.84*0.0056 in	/	/	17.32*15.748*10.236 in	52	7.09Lbs ±10%	15.72Lbs ±10%	1.616ft3
S 54	250*270*0.14mm	/	/	440*400 *260mm	60	9.9KG ±10%	14.8KG ±10%	0.04576 m3
	9.84*10.63*0.0056 in	/	/	17.32*15.748 *10.236 in	60	21.82Lbs ±10%	32.63Lbs ±10%	1.616 ft3
F 65	250*270*0.14mm	/	/	440*400 *260mm	40	6KG ±10%	10.02KG ±10%	0.04576 m3
	9.84*10.63*0.0056 in	/	/	17.32*15.748 *10.236 in	40	13.22Lbs ±10%	22.09Lbs ±10%	1.616 ft3
R 67	270*300*0.14mm	/	/	L520*W370*H300mm	36	8.82KG ±10%	13.94KG ±10%	0.0578m3
	10.63*11.81*0.0056 in	/	/	20.5*14.6*11.81in	36	19.44Lbs ±10%	30.73Lbs ±10%	2.04ft3

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.**