

Product Specification

DC Flexible LED Strip

2835 7LEDs/unit Series

2835 Top LED 8mm FPC 140LEDs/M

WW-FLS102T23XW140X-24(WCP)-XR-ME
&
WW-FLS102T23XW140X-24(WCP)-XR-ME-EP



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



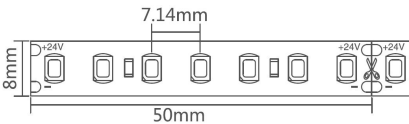
Tel : (86) 755 8601 9190



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 Dropping	Silicone Extrusion	Silicone Tube	Silicone Extrusion	Silicone Extrusion	Silicone Extrusion
	5 Years Warranty	3 Years Warranty	5 Years Warranty	5 Years Warranty	5 Years Warranty	5 Years Warranty	5 Years Warranty

ErP Waterproof Type			
	Naked Strip	Silicone Tube	Silicone Extrusion
	5 Years Warranty	5 Years Warranty	5 Years Warranty

WW-FLS102T23XW140X-24(WCP)-XR-ME

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-FLS102T23XW140B-24(WCP)-HR-ME	80	82	96	8.73	9.60	Warm White	2500K	/	982	DC 24V
							Warm White	2700K	2700K	1010	
							Warm White	3000K	3000K	1030	
							Natural White	4000K	4000K	1130	
							Standard White	6000K	/	1130	
	WW-FLS102T23XW140B-24(WCP)-UR-ME	90	90	100	8.73	9.60	Warm White	2700K	2700K	870	DC 24V
							Warm White	3000K	3000K	900	
							Natural White	4000K	4000K	972	
							Standard White	6000K	/	996	
							Standard White	6000K	/	996	
F 65	WW-FLS102T23XW140F-24(WCP)-HR-ME	80	82	96	8.73	9.60	Warm White	2500K	/	960	DC 24V
							Warm White	2700K	2700K	1000	
							Warm White	3000K	3000K	1035	
							Natural White	4000K	4000K	1090	
							Standard White	6000K	/	1080	
	WW-FLS102T23XW140F-24(WCP)-UR-ME	90	90	100	8.73	9.60	Warm White	2700K	2700K	840	DC 24V
							Warm White	3000K	3000K	890	
							Natural White	4000K	4000K	930	
							Standard White	6000K	/	950	
							Standard White	6000K	/	950	
K 54/65	WW-FLS102T23XW140K-24(WCP)-HR-ME	80	82	96	8.73	9.60	Warm White	2500K	/	933	DC 24V
							Warm White	2700K	2700K	960	
							Warm White	3000K	3000K	979	
							Natural White	4000K	4000K	1074	
							Standard White	6000K	/	1074	
	WW-FLS102T23XW140K-24(WCP)-UR-ME	90	90	100	8.73	9.60	Warm White	2700K	2700K	785	DC 24V
							Warm White	3000K	3000K	816	
							Natural White	4000K	4000K	859	
							Standard White	6000K	/	859	
							Standard White	6000K	/	859	
S 54	WW-FLS102T23XW140S-24(WCP)-HR-ME	80	82	96	8.73	9.60	Warm White	2500K	/	923	DC 24V
							Warm White	2700K	2700K	919	
							Warm White	3000K	3000K	937	
							Natural White	4000K	4000K	949	
							Standard White	6000K	/	881	
	WW-FLS102T23XW140S-24(WCP)-UR-ME	90	90	100	8.73	9.60	Warm White	2700K	2700K	761	DC 24V
							Warm White	3000K	3000K	774	
							Natural White	4000K	4000K	806	
							Standard White	6000K	/	806	
							Standard White	6000K	/	806	
R 67	WW-FLS102T23XW140R-24(WCP)-HR-ME	80	82	96	8.73	9.60	Warm White	2500K	/	920	DC 24V
							Warm White	2700K	2700K	990	
							Warm White	3000K	3000K	1020	
							Natural White	4000K	4000K	1090	
							Standard White	6000K	/	1065	
	WW-FLS102T23XW140XR-24(WCP)-UR-ME	90	90	100	8.73	9.60	Warm White	2700K	2700K	815	DC 24V
							Warm White	3000K	3000K	875	
							Natural White	4000K	4000K	935	
							Standard White	6000K	/	965	
							Standard White	6000K	/	965	
RW 67	WW-FLS102T23XW140R-24(WCP)-HR-W-ME	80	82	96	8.73	9.60	Warm White	2500K	/	913	DC 24V
							Warm White	2700K	2700K	929	
							Warm White	3000K	3000K	948	
							Natural White	4000K	4000K	1040	
							Standard White	6000K	/	1028	
	WW-FLS102T23XW140R-24(WCP)-UR-W-ME	90	90	100	8.73	9.60	Warm White	2700K	2700K	810	DC 24V
							Warm White	3000K	3000K	799	
							Natural White	4000K	4000K	823	
							Standard White	6000K	/	823	
							Standard White	6000K	/	823	

RM 67	WW-FLS102T23XW140R-24(WCP)-HR-M-ME	80	82	96	8.73	9.60	Warm White	2500K	/	874	DC 24V
							Warm White	2700K	2700K	899	
							Warm White	3000K	3000K	917	
							Natural White	4000K	4000K	1006	
							Standard White	6000K	/	1006	
	WW-FLS102T23XW140R-24(WCP)-UR-M-ME	90	90	100	8.73	9.60	Warm White	2700K	2700K	736	DC 24V
							Warm White	3000K	3000K	765	
							Natural White	4000K	4000K	806	

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°C.
- Test while turning on.

WW-FLS102T23XW140X-24(WCP)-XR-ME-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-FLS102T23XW140B-24(WCP)-HR-ME-EP	80	82	96	8.86	9.74	Warm White	2700K	1072	121	E	DC 24V
							Warm White	3000K	1104	125	E	
							Natural White	4000K	1168	132	E	
							Standard White	6000K	1146	129	E	
	WW-FLS102T23XW140B-24(WCP)-UR-ME-EP	90	90	100	8.86	9.74	Warm White	2700K	872	98	F	DC 24V
							Warm White	3000K	904	102	F	
							Natural White	4000K	1000	113	E	
							Standard White	6000K	1010	114	E	
F 65	WW-FLS102T23XW140F-24(WCP)-HR-ME-EP	80	82	96	8.86	9.74	Warm White	2700K	1010	114	E	DC 24V
							Warm White	3000K	1042	118	E	
							Natural White	4000K	1094	124	E	
							Standard White	6000K	1084	122	E	
	WW-FLS102T23XW140F-24(WCP)-UR-ME-EP	90	90	100	8.86	9.74	Warm White	2700K	842	95	F	DC 24V
							Warm White	3000K	894	101	F	
							Natural White	4000K	936	106	F	
							Standard White	6000K	956	108	F	
R 67	WW-FLS102T23XW140R-24(WCP)-HR-ME-EP	80	82	96	8.86	9.74	Warm White	2700K	1010	114	E	DC 24V
							Warm White	3000K	1052	119	E	
							Natural White	4000K	1146	129	E	
							Standard White	6000K	1094	124	E	
	WW-FLS102T23XW140R-24(WCP)-UR-ME-EP	90	90	100	8.86	9.74	Warm White	2700K	842	95	F	DC 24V
							Warm White	3000K	894	101	F	
							Natural White	4000K	956	108	F	
							Standard White	6000K	968	109	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".

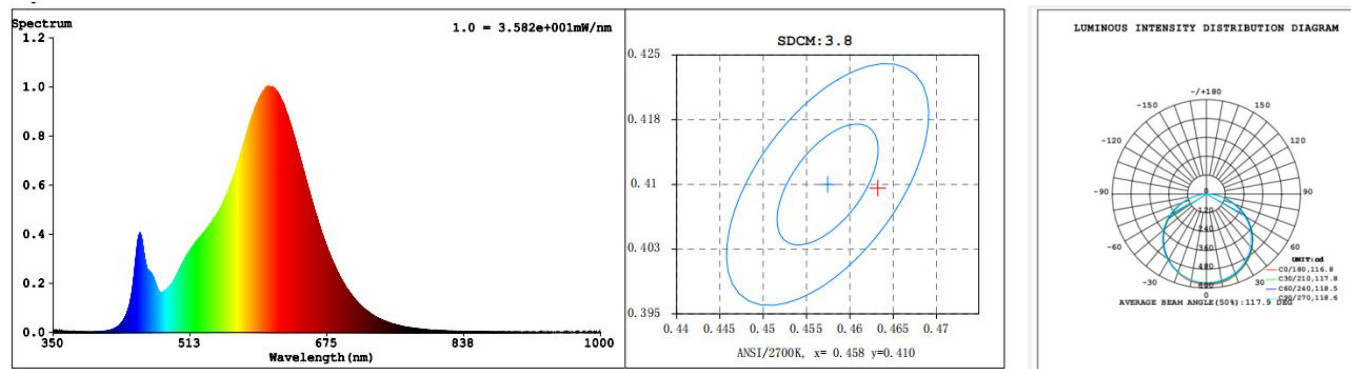
Test condition of above technical data:

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

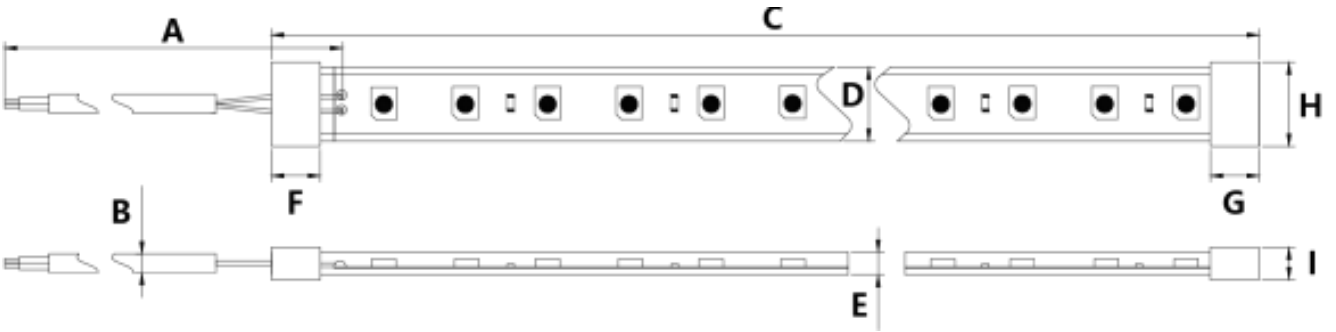
ErP Note:

- 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



Dimension Drawing

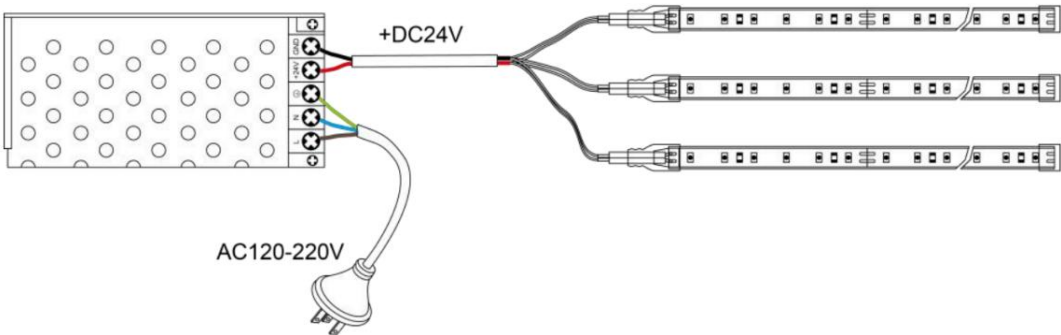


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Front cap length	G End cap length	H Cap width	I Cap thickness
20	300±10mm	Φ4.0±0.2mm	5000±50mm	8±0.5mm	1.2±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.32±0.02in	0.047±0.02in	/	/	/	/
54	300±10mm	Φ4.0±0.2mm	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	/	/	/	/
54/65	300±10mm	Φ4.0±0.2mm	5020±50mm	9.2±0.5mm	4±0.2mm	10.5±0.5mm	10.5±0.5mm	11.2±0.5mm	6±0.5mm
	11.81±0.39in	0.16±0.01in	197.64±1.97in	0.36±0.02in	0.16±0.01in	0.41±0.02in	0.41±0.02in	0.44±0.02in	0.34±0.02in
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
67	300±10mm	Φ5.8±0.2mm	5020±50mm	10±0.5mm	5±0.5mm	30±0.5mm	11±0.5mm	12±0.5mm	7.0±0.5mm
	11.81±0.39in	0.23±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
RW 67	300±10mm	Φ5.8±0.2mm	5020±50mm	10±0.5mm	5±0.5mm	30±0.5mm	11±0.5mm	12.0±0.5mm	7.0±0.5mm
	11.81±0.39in	0.23±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
RM 67	300±10mm	Φ5.8±0.2mm	5020±50mm	10±0.5mm	5±0.5mm	30±0.5mm	11±0.5mm	12.0±0.5mm	7.0±0.5mm
	11.81±0.39in	0.23±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



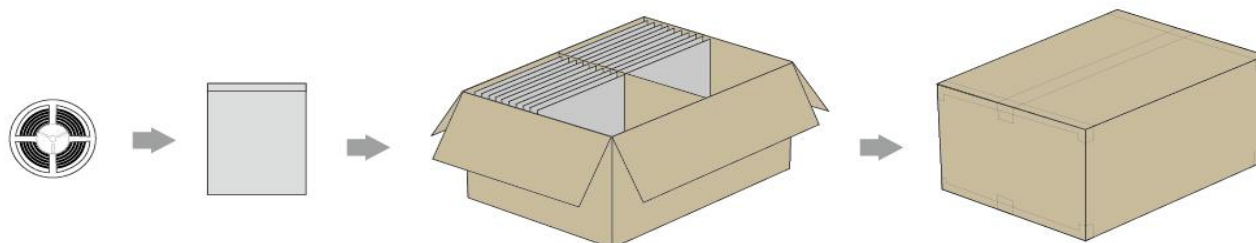
Standard Accessories

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

Optional Accessories

IP Level	Category	Description	Picture	Part No.	Density
S 20	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2B-P0W20-08	≤140LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2B-POP20-08	≤140LEDs/M
S 54	/	/	/	/	/
	/	/	/	/	/
K 54/65	/	/	/	/	/
	/	/	/	/	/
F 65	/	/	/	/	/
	/	/	/	/	/
R 67	/	/	/	/	/
	/	/	/	/	/
RW 67	/	/	/	/	/
	/	/	/	/	/
RM 67	/	/	/	/	/
	/	/	/	/	/

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	250*270*0.14mm	/	/	440*400*260mm	60	4.8KG ±10%	9.53KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.748*10.236in	60	10.58 Lbs ±10%	20.966Lbs ±10%	1.62ft³
S 54	250*270*0.14mm	/	/	440*400*260mm	60	7.98KG ±10%	12.41KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.748*10.236in	60	17.59Lbs ±10%	27.36 Lbs ±10%	1.62ft³
F 65	250*270*0.14mm	/	/	440*400*260mm	40	7.25KG ±10%	10.13KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75*10.24in	40	15.95Lbs ±10%	22.29Lbs ±10%	1.62ft³
K 54/65	250*270*0.14mm	/	/	440*400*260mm	50	6.95KG ±10%	13.30KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.748*10.236in	50	15.32Lbs ±10%	29.23Lbs ±10%	1.616ft³
R 67	270*300*0.14mm	/	/	520*370*300mm	36	9.99 KG ±10%	14.99 KG ±10%	0.06m³
	10.63*11.81*0.0056 in	/	/	20.5*14.6*11.81in	36	22.02 Lbs ±10%	33.05 Lbs ±10%	2.04ft³
RW 67	270*300*0.14mm	/	/	520*370*300mm	36	10.71KG ±10%	15.71KG ±10%	0.06m³
	10.63*11.81*0.0056 in	/	/	20.47*14.57*11.81in	36	23.61Lbs ±10%	34.63Lbs ±10%	2.04ft³
RM 67	270*300*0.14mm	/	/	520*370*300mm	36	6.3KG ±10%	11.73KG ±10%	0.06m³
	10.63*11.81*0.0056 in	/	/	20.47*14.57*11.81in	36	13.89 Lbs ±10%	25.86Lbs ±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.**