

# Product Specification

## DC Flexible LED Strip

### 2835 7LEDs/unit Series

2835 Top LED 8mm FPC 210LEDs/M

WW-FLS102T28XW210X-24(WCP)-XR-ME

&

WW-FLS102T28XW210X-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)

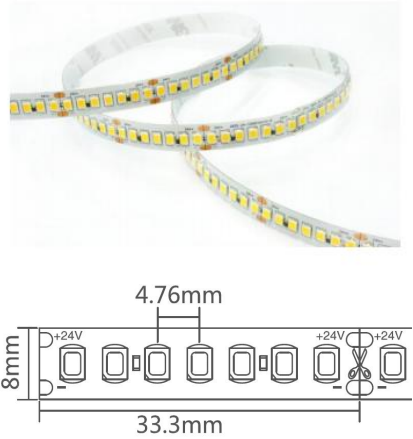
Fax : (852) 3152 3039










Tel : (86) 755 8601 9190



Fax : (86) 755 8601 9197

<p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>• High quality FPC, authentic 3M tape;</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): 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>S 54</b>	 <b>R 67</b>	 <b>RW 67</b>	 <b>RM 67</b>
	Naked Strip	Silicone Dropping	Silicone Extrusion	Silicone Extrusion	Silicone Extrusion
	5 Years Warranty	3 Years Warranty	5 Years Warranty	5 Years Warranty	5 Years Warranty

<b>ErP Waterproof Type</b>	 <b>B 20</b>	 <b>R 67</b>
	Naked Strip	Silicone Extrusion
	5 Years Warranty	5 Years Warranty

**WW-FLS102T28XW210X-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>B 20</b>	WW-FLS102T28XW210B-24(WCP)-HR-ME	80	82	96	17.45	19.20	Warm White	2300-2600K	/	2080	DC 24V
							Warm White	2600-2900K	2650-2770K	2200	
							Warm White	2900-3200K	2960-3110K	2260	
							Natural White	3700-4250K	3840-4080K	2430	
							Standard White	5700-6500K	/	2380	
	WW-FLS102T28XW210B-24(WCP)-UR-ME	90	90	100	17.45	19.20	Warm White	2600-2900K	2650-2770K	1780	DC 24V
							Warm White	2900-3200K	2960-3110K	1950	
							Natural White	3700-4250K	3840-4080K	2020	
<b>S 54</b>	WW-FLS102T28XW210S-24(WCP)-HR-ME	80	82	96	17.45	19.20	Warm White	2300-2600K	/	1344	DC 24V
							Warm White	2600-2900K	2650-2770K	1356	
							Warm White	2900-3200K	2960-3110K	1392	
							Natural White	3700-4250K	3840-4080K	1361	
							Standard White	5700-6500K	/	1264	
	WW-FLS102T28XW210S-24(WCP)-UR-ME	90	90	100	17.45	19.20	Warm White	2600-2900K	2650-2770K	1125	DC 24V
							Warm White	2900-3200K	2960-3110K	1158	
							Natural White	3700-4250K	3840-4080K	1242	
<b>R 67</b>	WW-FLS102T28XW210R-24(WCP)-HR-ME	80	82	96	17.45	19.20	Warm White	2300-2600K	/	1975	DC 24V
							Warm White	2600-2900K	2650-2770K	2090	
							Warm White	2900-3200K	2960-3110K	2145	
							Natural White	3700-4250K	3840-4080K	2305	
							Standard White	5700-6500K	/	2260	
	WW-FLS102T28XW210R-24(WCP)-UR-ME	90	90	100	17.45	19.20	Warm White	2600-2900K	2650-2770K	1690	DC 24V
							Warm White	2900-3200K	2960-3110K	1850	
							Natural White	3700-4250K	3840-4080K	1915	
<b>RW 67</b>	WW-FLS102T28XW210R-24(WCP)-HR-W-ME	80	82	96	17.45	19.20	Warm White	2300-2600K	/	1330	DC 24V
							Warm White	2600-2900K	2650-2770K	1371	
							Warm White	2900-3200K	2960-3110K	2108	
							Natural White	3700-4250K	3840-4080K	1490	
							Standard White	5700-6500K	/	1474	
	WW-FLS102T28XW210R-24(WCP)-UR-W-ME	90	90	100	17.45	19.20	Warm White	2600-2900K	2650-2770K	1198	DC 24V
							Warm White	2900-3200K	2960-3110K	1197	
							Natural White	3700-4250K	3840-4080K	1270	
<b>RM 67</b>	WW-FLS102T28XW210R-24(WCP)-HR-W-M-ME	80	82	96	17.45	19.20	Warm White	2300-2600K	/	1273	DC 24V
							Warm White	2600-2900K	2650-2770K	1326	
							Warm White	2900-3200K	2960-3110K	1362	
							Natural White	3700-4250K	3840-4080K	1442	
							Standard White	5700-6500K	/	1442	
	WW-FLS102T28XW210R-24(WCP)-UR-W-M-ME	90	90	100	17.45	19.20	Warm White	2600-2900K	2650-2770K	1089	DC 24V
							Warm White	2900-3200K	2960-3110K	1146	
							Natural White	3700-4250K	3840-4080K	1242	

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).

Test condition of above technical data:

- Surrounding temperature: 26°C.
- Test while turning on.

**WW-FLS102T28XW210X-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-FLS102T28XW210B-24(WCP)-HR-ME-EP	80	82	96	18.60	20.46	Warm White	2700K	2240	120	E	DC 24V
							Warm White	3000K	2300	124	E	
							Natural White	4000K	2460	132	E	
							Standard White	6000K	2390	128	E	
	WW-FLS102T28XW210B-24(WCP)-UR-ME-EP	90	90	100	18.60	20.46	Warm White	2700K	1820	98	F	DC 24V
							Warm White	3000K	1990	107	F	
							Natural White	4000K	2040	110	F	
							Standard White	6000K	2060	111	E	
R 67	WW-FLS102T28XW210R-24(WCP)-HR-ME-EP	80	82	96	18.60	20.46	Warm White	2700K	2120	114	E	DC 24V
							Warm White	3000K	2180	117	E	
							Natural White	4000K	2330	125	E	
							Standard White	6000K	2270	122	E	
	WW-FLS102T28XW210R-24(WCP)-UR-ME-EP	90	90	100	18.60	20.46	Warm White	2700K	/	/	/	DC 24V
							Warm White	3000K	1890	102	F	
							Natural White	4000K	1930	104	F	
							Standard White	6000K	1950	105	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".

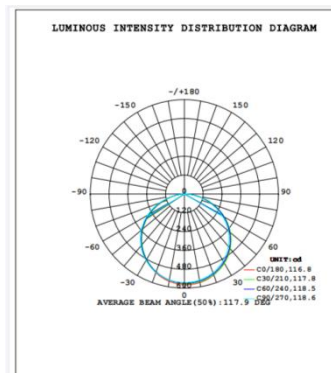
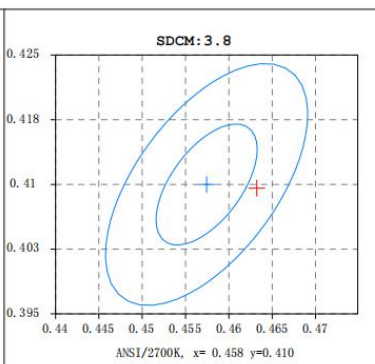
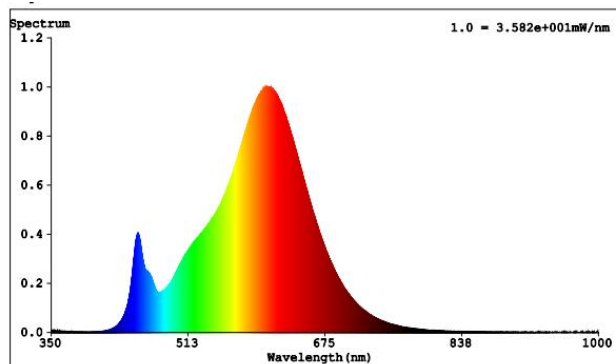
Test condition of above technical data:

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

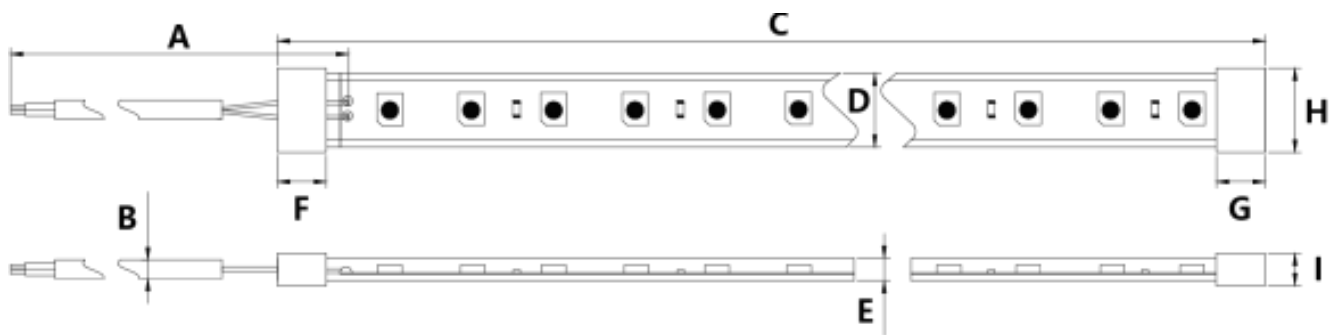
ErP Note:

- 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

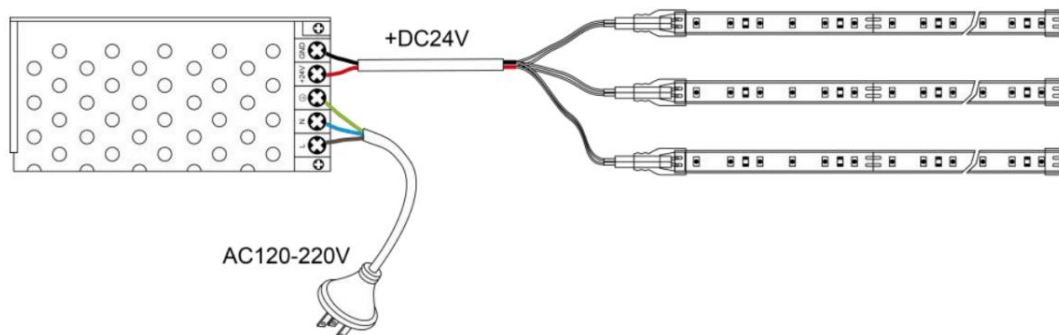


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Front cap length	G End cap length	H Cap width	I Cap thickness
S 20	300±10mm	Φ4.0±0.2mm	5000±50mm	8±0.5mm	1.2±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.32±0.02in	0.047±0.02in	/	/	/	/
S 54	300±10mm	Φ4.0±0.2mm	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	/	/	/	/
R 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.

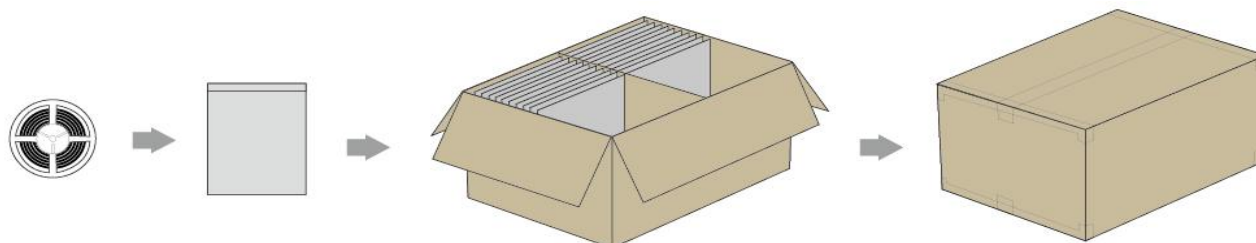
## Circuit Diagram



## Standard Accessories

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

## 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	4.8KG ±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
<b>S 54</b>	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
<b>R 67</b>	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
<b>RW 67</b>	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
<b>RM 67</b>	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.**