

# Product Specification

## DC Flexible LED Strip

### 2835 8LEDs/unit Series

2835 Top LED 12mm FPC 128LEDs/M

WW-FLS102T29XW128X-24(WCP)-XR-M-HE

&

WW-FLS102T29XW128X-24(WCP)-XR-M-HE-EP



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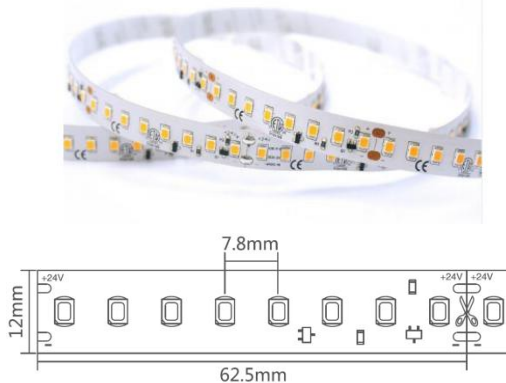
Fax : (852) 3152 3039











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>• EN55015:2013+A1</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>F 65</b>	 <b>R 67</b>	 <b>RW 67</b>
	Naked Strip	Silicone Dropping	Silicone Tube	Silicone Extrusion	Silicone Extrusion
	3 Years Warranty	3 Years Warranty	3 Years Warranty	3 Years Warranty	3 Years Warranty

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

WW-FLS102T29XW128X-24(WCP)-XR-M-HE

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-FLS102T29XW128B-24(WCP)-HR-M-HE	80	82	96	25.00	27.50	Warm White	2500K	/	3110	DC 24V
							Warm White	2700K	/	3160	
							Warm White	3000K	/	3184	
							Natural White	4000K	/	3440	
							Standard White	6000K	/	3556	
	WW-FLS102T29XW128B-24(WCP)-UR-M-HE	90	90	100	25.00	27.50	Warm White	2500K	/	2550	DC 24V
							Warm White	2700K	/	2610	
							Warm White	3000K	/	2770	
							Natural White	4000K	/	3000	
							Standard White	6000K	/	3060	
S 54	WW-FLS102T29XW128S-24(WCP)-HR-M-HE	80	82	96	25.00	27.50	Warm White	2500K	/	2923	DC 24V
							Warm White	2700K	/	2876	
							Warm White	3000K	/	2935	
							Natural White	4000K	/	2904	
							Standard White	6000K	/	2696	
	WW-FLS102T29XW128S-24(WCP)-UR-M-HE	90	90	100	25.00	27.50	Warm White	2500K	/	2289	DC 24V
							Warm White	2700K	/	2334	
							Warm White	3000K	/	2348	
							Natural White	4000K	/	2475	
							Standard White	6000K	/	2558	
F 65	WW-FLS102T29XW128F-24(WCP)-HR-M-HE	80	82	96	25.00	27.50	Warm White	2500K	/	3200	DC 24V
							Warm White	2700K	/	3150	
							Warm White	3000K	/	3410	
							Natural White	4000K	/	3540	
							Standard White	6000K	/	3200	
	WW-FLS102T29XW128F-24(WCP)-UR-M-HE	90	90	100	25.00	27.50	Warm White	2500K	/	2266	DC 24V
							Warm White	2700K	/	2435	
							Warm White	3000K	/	2503	
							Natural White	4000K	/	2640	
							Standard White	6000K	/	2668	
R 67	WW-FLS102T29XW128R-24(WCP)-HR-M-HE	80	82	96	25.00	27.50	Warm White	2500K	/	3190	DC 24V
							Warm White	2700K	/	3100	
							Warm White	3000K	/	3400	
							Natural White	4000K	/	3530	
							Standard White	6000K	/	3190	
	WW-FLS102T29XW128R-24(WCP)-UR-M-HE	90	90	100	25.00	27.50	Warm White	2500K	/	2148	DC 24V
							Warm White	2700K	/	2485	
							Warm White	3000K	/	2425	
							Natural White	4000K	/	2530	
							Standard White	6000K	/	2558	

RW 67	WW-FLS102T29XW128R-24(WCP)-HR-W-M-HE	80	82	96	25.00	27.50	Warm White	2500K	/	2892	DC 24V
							Warm White	2700K	/	2907	
							Warm White	3000K	/	2967	
							Natural White	4000K	/	3180	
							Standard White	6000K	/	3146	
	WW-FLS102T29XW128R-24(WCP)-UR-W-M-HE	90	90	100	25.00	27.50	Warm White	2500K	/	2148	DC 24V
							Warm White	2700K	/	2485	
							Warm White	3000K	/	2425	
							Natural White	4000K	/	2530	
							Standard White	6000K	/	2558	

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-FLS102T29XW128B-24(WCP)-XR-M-HE-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-FLS102T29XW128B-24(WCP)-HR-M-HE-EP	80	82	96	22.86	25.14	Warm White	2700K	3126	137	D	DC 24V
							Warm White	3000K	3163	138	D	
							Natural White	4000K	3350	147	D	
							Standard White	6000K	3463	151	D	
	WW-FLS102T29XW128B-24(WCP)-UR-M-HE-EP	90	90	100	22.86	25.14	Warm White	2700K	2535	111	E	DC 24V
							Warm White	3000K	2650	116	E	
							Natural White	4000K	2896	127	E	
							Standard White	6000K	2930	128	E	
F 65	WW-FLS102T29XW128F-24(WCP)-HR-M-HE-EP	80	82	96	22.86	25.14	Warm White	2700K	3066	134	E	DC 24V
							Warm White	3000K	3074	134	E	
							Natural White	4000K	3273	143	D	
							Standard White	6000K	3381	147	D	
	WW-FLS102T29XW128F-24(WCP)-UR-M-HE-EP	90	90	100	22.86	25.14	Warm White	2700K	/	/	/	DC 24V
							Warm White	3000K	/	/	/	
							Natural White	4000K	/	/	/	
							Standard White	6000K	/	/	/	
R 67	WW-FLS102T29XW128R-24(WCP)-HR-M-HE-EP	80	82	96	22.86	25.14	Warm White	2700K	3077	134	E	DC 24V
							Warm White	3000K	3090	135	D	
							Natural White	4000K	3294	144	D	
							Standard White	6000K	3394	148	D	
	WW-FLS102T29XW128R-24(WCP)-UR-M-HE-EP	90	90	100	22.86	25.14	Warm White	2700K	/	/	/	DC 24V
							Warm White	3000K	/	/	/	
							Natural White	4000K	/	/	/	
							Standard White	6000K	/	/	/	

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".

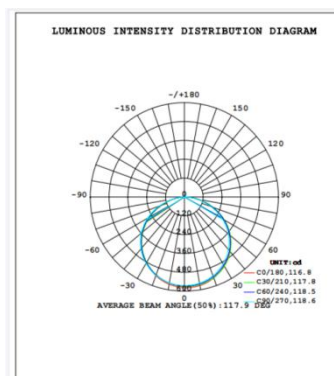
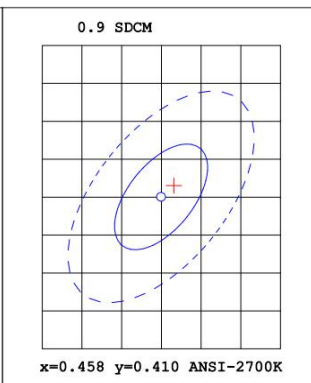
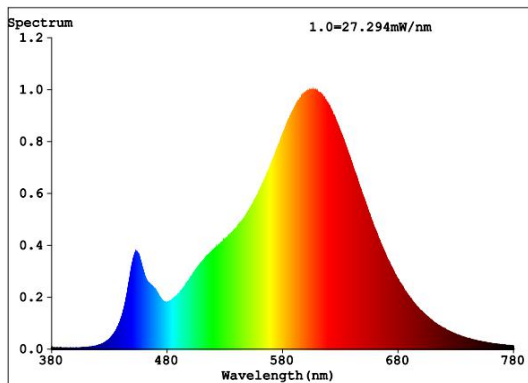
Test condition of above technical data:

- Surrounding temperature: 26 °C.
- Test after 15 mins turned on.

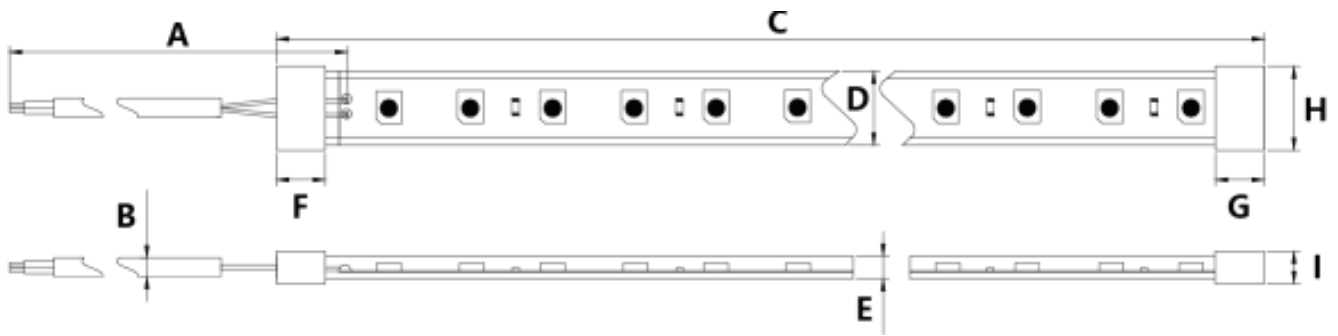
ErP Note:

- 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

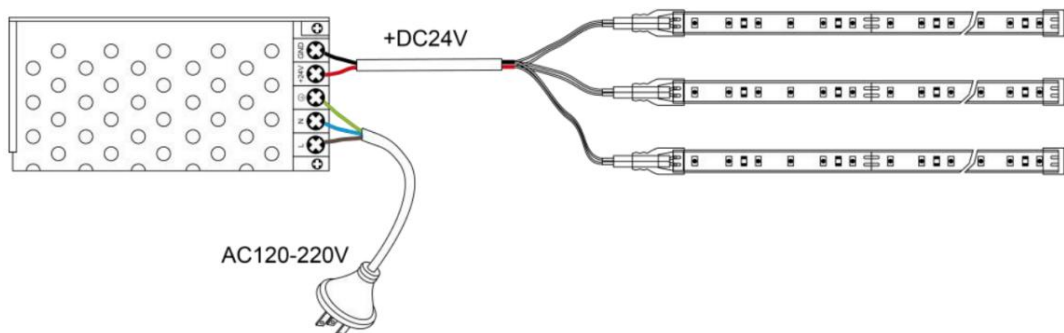


IP Grade	A	B	C	D	E	F	G	H	I
	Cable Length	cable diameter	Strip length	Strip width	Strip thickness	Front cap length	End cap length	Cap width	Cap thickness
E 20	300±10mm	Φ6±0.5mm	5000±50mm	12±0.5mm	1.2±0.5mm	/	/	/	/
	11.81±0.39in	0.24±0.02in	196.85±1.97in	0.473±0.02in	0.047±0.02in	/	/	/	/
S 54	300±10mm	Φ4.0±0.2mm	5000±50mm	12±0.5mm	2.1±0.2mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.473±0.02in	0.083±0.008in	/	/	/	/
F 65	300±10mm	Φ6±0.5mm	5000±50mm	14.5±0.5mm	4.0±0.5mm	10±0.5mm	10±0.5mm	16.5±0.5mm	6.0±0.5mm
	11.81±0.39in	0.24±0.02in	196.85±1.97in	0.57±0.02in	0.16±0.02in	0.39±0.02in	0.39±0.02in	0.649±0.02in	0.24±0.02in
R 67	300±10mm	Φ6±0.5mm	5000±50mm	14±0.5mm	4.5±0.5mm	30±0.5mm	10±0.5mm	16±0.5mm	6.5±0.5mm
	11.81±0.39in	0.24±0.02in	196.85±1.97in	0.55±0.02in	0.178±0.02in	1.18±0.02in	0.39±0.02in	0.63±0.02in	0.256±0.02in
RW 67	300±10mm	Φ6±0.5mm	5000±50mm	14±0.5mm	4.5±0.5mm	30±0.5mm	10±0.5mm	16±0.5mm	6.5±0.5mm
	11.81±0.39in	0.24±0.02in	196.85±1.97in	0.55±0.02in	0.178±0.02in	1.18±0.02in	0.39±0.02in	0.63±0.02in	0.256±0.02in







**Remarks:**

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

## Circuit Diagram





## Standard Accessories

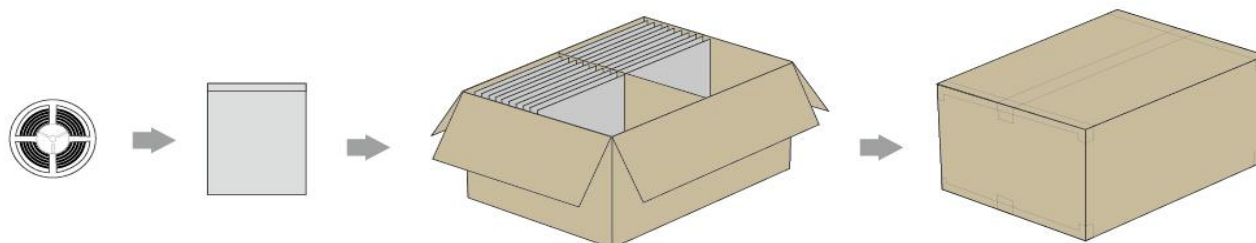
IP Grade	Category	Description	Picture	Part No.	Application
<b>E 20</b>	/	/	/	/	/
<b>S 54</b>	/	/	/	/	/
<b>F 65</b>	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (14mm)	12mm Type F
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
<b>R 67</b>	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (14mm)	12mm 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 (14mm)	12mm Type RW
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip



## Optional Accessories

IP Grade	Category	Description	Picture	Part No.	Application
<b>B 20</b>	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2B-PWP2O-12-0-18	≤240LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2B-POP2O-12-0-0	≤240LEDs/M
<b>S 54</b>	/	/	/	/	/
	/	/	/	/	/
<b>F 65</b>	/	/	/	/	/
<b>R 67</b>	/	/	/	/	/
	/	/	/	/	/
<b>RW 67</b>	/	/	/	/	/
	/	/	/	/	/

## 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			
E 20	250*270*0.14mm	/	/	440*400*260mm	50	8.6KG±10%	9.923KG±10%	0.05m <sup>3</sup>
	9.84*10.63*0.0056in	/	/	17.32*15.748*10.236in	50	18.96Lbs±10%	21.88Lbs±10%	1.62 ft <sup>3</sup>
S 54	250*270*0.14mm	/	/	440*400*260mm	40	8.19KG±10%	13.08KG±10%	0.05m <sup>3</sup>
	9.84*10.63*0.0056in	/	/	17.32*15.75*10.24 in	40	18.056Lbs±10%	28.84Lbs±10%	1.62 ft <sup>3</sup>
F 65	250*270*0.14mm	/	/	440*400*260mm	36	10.86KG±10%	12.19KG±10%	0.05m <sup>3</sup>
	9.84*10.63*0.0056in	/	/	17.32*15.748*10.236in	36	23.94Lbs±10%	26.87Lbs±10%	1.62 ft <sup>3</sup>
R 67	270*300*0.14mm	/	/	520*370*300mm	36	13.056KG±10%	25.056KG±10%	0.06m <sup>3</sup>
	10.63*11.81*0.0056in	/	/	20.5*14.6*11.81in	36	28.784Lbs±10%	55.239Lbs±10%	2.04ft <sup>3</sup>
RW 67	270*300*0.14mm	/	/	520*370*300mm	36	6.30KG±10%	11.73KG±10%	0.06m <sup>3</sup>
	10.63*11.81*0.0056in	/	/	20.47*14.57*11.81in	36	13.89 Lbs±10%	25.86Lbs±10%	2.04ft <sup>3</sup>


**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.**