

# Product Specification

## DC Flexible LED Strip

### 2835 8LEDs/unit Series

2835 Top LED 12mm FPC 128LEDs/M

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



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



Fax : (852) 3152 3039






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<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>E 20</b>	 <b>F 65</b>	 <b>R 67</b>	 <b>RW 67</b>
	Naked Strip	Silicone Tube	Silicone Extrusion	Silicone Extrusion
	5 Years Warranty	5 Years Warranty	5 Years Warranty	5 Years Warranty

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WW-FLS102T29XW128X-24(WCP)-XR-M-CV-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
E 20	WW-FLS102T29XW128B-24(WCP)-HR-M-CV-HE	80	82	96	20.00	22.00	Warm White	2300-2600K	/	2820	DC 24V
							Warm White	2600-2900K	/	2940	
							Warm White	2900-3200K	/	3020	
							Natural White	3700-4250K	/	3240	
							Standard White	5700-6500K	/	3200	
	WW-FLS102T29XW128B-24(WCP)-UR-M-CV-HE	90	90	100	20.00	22.00	Warm White	2300-2600K	/	2250	DC 24V
							Warm White	2600-2900K	/	2470	
							Warm White	2900-3200K	/	2580	
							Natural White	3700-4250K	/	2640	
							Standard White	5700-6500K	/	2730	
F 65	WW-FLS102T29XW128F-24(WCP)-HR-M-CV-HE	80	82	96	20.00	22.00	Warm White	2300-2600K	/	2700	DC 24V
							Warm White	2600-2900K	/	2820	
							Warm White	2900-3200K	/	2890	
							Natural White	3700-4250K	/	3110	
							Standard White	5700-6500K	/	3070	
	WW-FLS102T29XW128F-24(WCP)-UR-M-CV-HE	90	90	100	20.00	22.00	Warm White	2300-2600K	/	2160	DC 24V
							Warm White	2600-2900K	/	2370	
							Warm White	2900-3200K	/	2470	
							Natural White	3700-4250K	/	2530	
							Standard White	5700-6500K	/	2620	
R 67	WW-FLS102T29XW128R-24(WCP)-HR-M-CV-HE	80	82	96	20.00	22.00	Warm White	2300-2600K	/	2670	DC 24V
							Warm White	2600-2900K	/	2790	
							Warm White	2900-3200K	/	2860	
							Natural White	3700-4250K	/	3070	
							Standard White	5700-6500K	/	3040	
	WW-FLS102T29XW128R-24(WCP)-UR-M-CV-HE	90	90	100	20.00	22.00	Warm White	2300-2600K	/	2130	DC 24V
							Warm White	2600-2900K	/	2340	
							Warm White	2900-3200K	/	2450	
							Natural White	3700-4250K	/	2500	
							Standard White	5700-6500K	/	2590	
RW 67	WW-FLS102T29XW128R-24(WCP)-HR-W-M-CV-HE	80	82	96	20.00	22.00	Warm White	2300-2600K	/	2670	DC 24V
							Warm White	2600-2900K	/	2790	
							Warm White	2900-3200K	/	2860	
							Natural White	3700-4250K	/	3070	
							Standard White	5700-6500K	/	3040	
	WW-FLS102T29XW128R-24(WCP)-UR-W-M-CV-HE	90	90	100	20.00	22.00	Warm White	2300-2600K	/	2130	DC 24V
							Warm White	2600-2900K	/	2340	
							Warm White	2900-3200K	/	2450	
							Natural White	3700-4250K	/	2500	
							Standard White	5700-6500K	/	2590	

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℃.
- Test while turning on.

WW-FLS102T29XW128X-24(WCP)-XR-M-CV-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-CV-HE-EP	80	82	96	21.82	24.00	Warm White	2500K	3040	139	D	DC 24V
							Warm White	2700K	3137	144	D	
							Warm White	3000K	3202	147	D	
							Natural White	4000K	3428	157	D	
							Standard White	6000K	3353	154	D	
	WW-FLS102T29XW128B-24(WCP)-UR-M-CV-HE-EP	90	90	100	21.82	24.00	Warm White	2500K	2382	109	F	DC 24V
							Warm White	2700K	2620	120	E	
							Warm White	3000K	2749	126	E	
							Natural White	4000K	2824	129	E	
							Standard White	6000K	2900	133	E	
F 65	WW-FLS102T29XW128F-24(WCP)-HR-M-CV-HE-EP	80	82	96	21.82	24.00	Warm White	2500K	2911	133	E	DC 24V
							Warm White	2700K	3008	138	D	
							Warm White	3000K	3072	141	D	
							Natural White	4000K	3288	151	D	
							Standard White	6000K	3212	147	D	
	WW-FLS102T29XW128F-24(WCP)-UR-M-CV-HE-EP	90	90	100	21.82	24.00	Warm White	2500K	2285	105	F	DC 24V
							Warm White	2700K	2512	115	E	
							Warm White	3000K	2630	121	E	
							Natural White	4000K	2706	124	E	
							Standard White	6000K	2781	127	E	
R 67	WW-FLS102T29XW128R-24(WCP)-HR-M-CV-HE-EP	80	82	96	21.82	24.00	Warm White	2500K	2878	132	E	DC 24V
							Warm White	2700K	2975	136	D	
							Warm White	3000K	3040	139	D	
							Natural White	4000K	3256	149	D	
							Standard White	6000K	3169	145	D	
	WW-FLS102T29XW128R-24(WCP)-UR-M-CV-HE-EP	90	90	100	21.82	24.00	Warm White	2500K	2264	104	F	DC 24V
							Warm White	2700K	2490	114	E	
							Warm White	3000K	2598	119	E	
							Natural White	4000K	2673	123	E	
							Standard White	6000K	2749	126	E	

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".

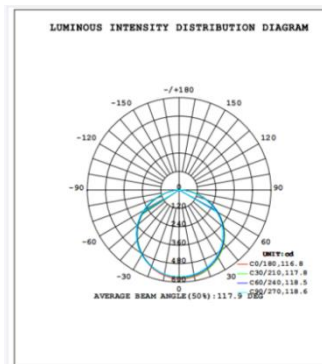
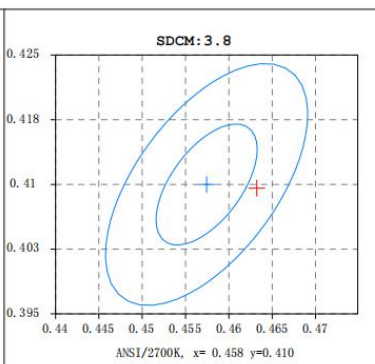
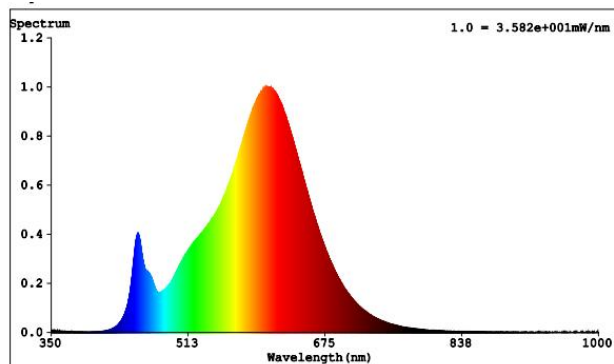
Test condition of above technical data:

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

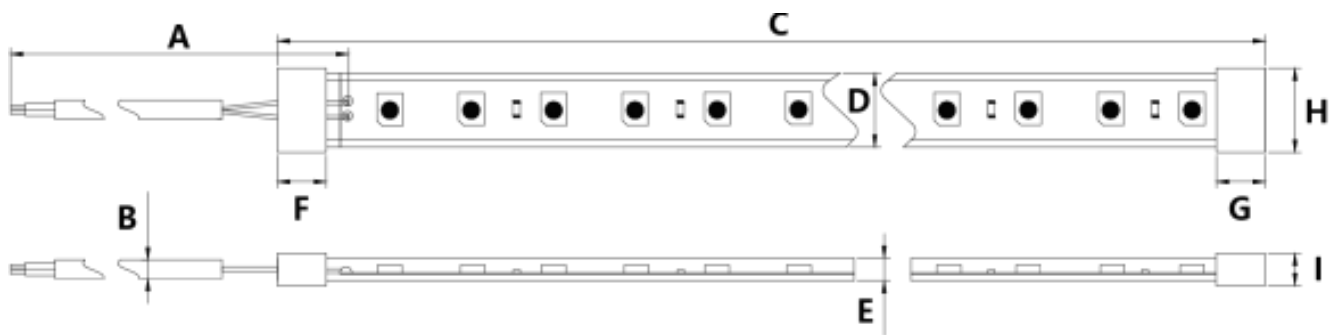
ErP Note:

- 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 ≤ 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

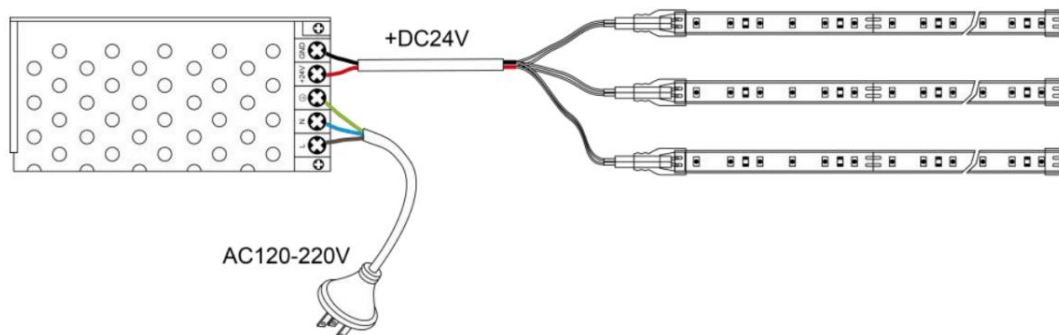


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Front cap length	G End cap length	H Cap width	I Cap thickness
B 20	300±10mm	Φ4.0±0.2mm	5000±50mm	12±0.5mm	1.2±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.473±0.02in	0.047±0.02in	/	/	/	/
F 65	300±10mm	Φ4.0±0.2mm	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	0.16±0.01in	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



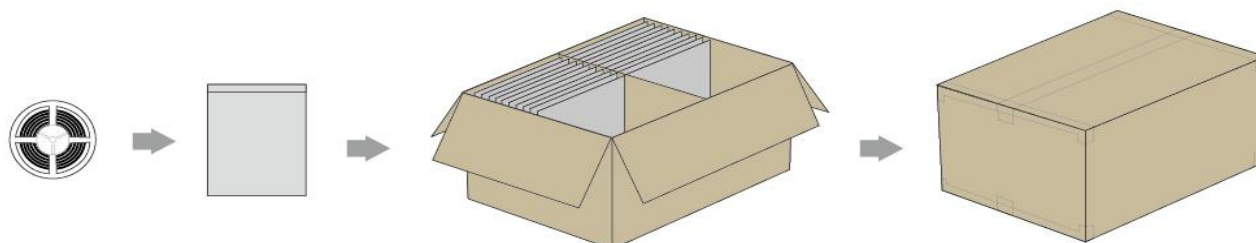
## Standard Accessories

IP Grade	Category	Description	Picture	Part No.	Application
B 20	/	/	/	/	/
F 65	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (14mm)	12mm Type F
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
R 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (14mm)	12mm Type R
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
RW 67	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 20	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2B-PWP20-12-0-18	≤240LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2B-POP20-12-0-0	≤240LEDs/M
F 65	/	/	/	/	/
	/	/	/	/	/
R 67	/	/	/	/	/
	/	/	/	/	/
RW 67	/	/	/	/	/
	/	/	/	/	/

## 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>B 20</b>	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*10.236 in	50	18.96Lbs±10%	21.88Lbs±10%	1.62 ft <sup>3</sup>
<b>F 65</b>	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*10.236 in	36	23.94Lbs±10%	26.87Lbs±10%	1.62 ft <sup>3</sup>
<b>R 67</b>	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>
<b>RW 67</b>	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.**