

# Product Specification

## SMD LV Strip PRO 2835 24V 98 LEDs/M Single color Ultra Long

WW-FLS102T28XW098X-24(WCP)-2000-XR-JK-ME-TR  
&  
WW-FLS102T28XW098X-24(WCP)-2000-XR-JK-ME-TR-EP

Apply to ERP Regulation (EU) 2019/2020



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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): 20m</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>R 67</b>
	Naked Strip	Silicone Extrusion
	5 Years Warranty	5 Years Warranty

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	Naked Strip	Silicone Extrusion
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# WW-FLS102T28XW098X-24(WCP)-2000-XR-JK-ME-TR

## 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-FLS102T28XW098B-24(WCP)-2000-HR-JK-ME-TR	80	82	96	9.60	10.56	Warm White	2600-2900K	/	1270	DC 24V
							Warm White	2900-3200K	/	1310	
							Natural White	3700-4250K	/	1300	
							Standard White	5700-6500K	/	1290	
	WW-FLS102T28XW098B-24(WCP)-2000-UR-JK-ME-TR	90	96	100	9.60	10.56	Warm White	2600-2900K	/	1130	
							Warm White	2900-3200K	/	1160	
							Natural White	3700-4250K	/	1200	
							Standard White	5700-6500K	/	1190	
R 67	WW-FLS102T28XW098R-24(WCP)-2000-HR-JK-ME-TR	80	82	96	9.60	10.56	Warm White	2600-2900K	/	1200	DC 24V
							Warm White	2900-3200K	/	1240	
							Natural White	3700-4250K	/	1220	
							Standard White	5700-6500K	/	1210	
	WW-FLS102T28XW098R-24(WCP)-2000-UR-JK-ME-TR	90	96	100	9.60	10.56	Warm White	2600-2900K	/	1070	
							Warm White	2900-3200K	/	1100	
							Natural White	3700-4250K	/	1120	
							Standard White	5700-6500K	/	1110	

Remarks:

- \* The above color temperature is the color temperature of LED source.
- The typ. Luminous flux tolerance range is ±10% (subject to the manufacturer's instrument test).

Test condition of above technical data:

- Surrounding temperature: 26°C.
- Test while turning on.
- The above technical data, including typical power are based on the test of 0.5m.

# WW-FLS102T28XW098X-24(WCP)-2000-XR-JK-ME-TR-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-FLS102T28XW098B-24(WCP)-2000-HR-JK-ME-TR-EP	80	82	96	9.60	10.56	Warm White	2700K	1294	135	E	DC 24V
							Warm White	3000K	1348	140	D	
							Natural White	4000K	1348	140	D	
							Standard White	6000K	1326	138	D	
	WW-FLS102T28XW098B-24(WCP)-2000-UR-JK-ME-TR-EP	90	96	100	9.60	10.56	Warm White	2700K	1153	120	E	
							Warm White	3000K	1186	124	E	
							Natural White	4000K	1250	130	E	
							Standard White	6000K	1272	133	E	
R 67	WW-FLS102T28XW098R-24(WCP)-2000-HR-JK-ME-TR-EP	80	82	96	9.60	10.56	Warm White	2700K	1229	128	E	DC 24V
							Warm White	3000K	1272	133	E	
							Natural White	4000K	1261	131	E	
							Standard White	6000K	1240	129	E	
	WW-FLS102T28XW098R-24(WCP)-2000-UR-JK-ME-TR-EP	90	96	100	9.60	10.56	Warm White	2700K	1089	113	E	
							Warm White	3000K	1121	117	E	
							Natural White	4000K	1175	122	E	
							Standard White	6000K	1186	124	E	

Remarks:

- \*The above color temperature is the color temperature of LED source.

Test condition of above technical data:

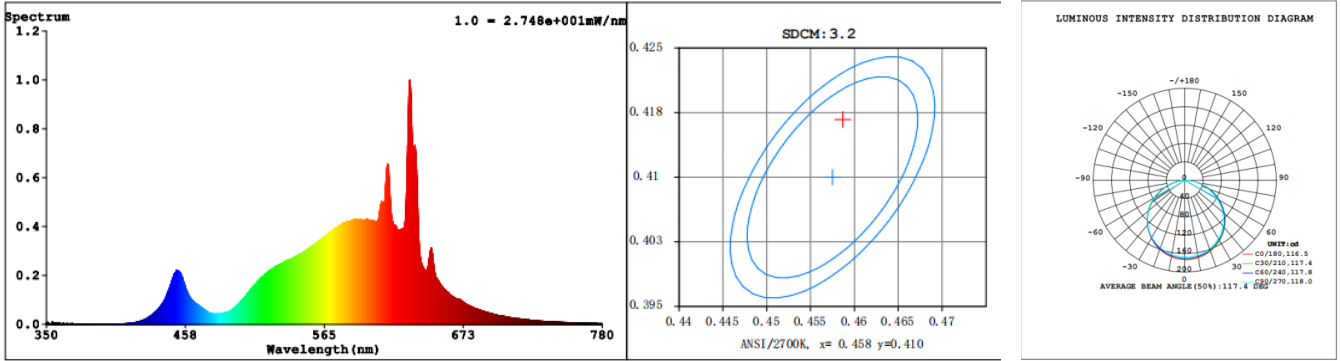
- Surrounding temperature: 26 °C.
- Test after 10 mins turned on.

ErP Note:

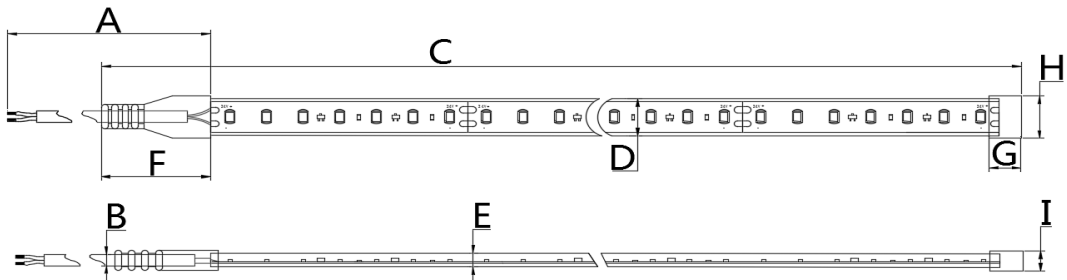
- According to the new ErP 2019/2020 regulation for each 0.5m or nearest 0.5m strip, the following requirements must be met:
- Measured power ≤ Pon +5% ;
- Measured lumen ≥ Useful luminous flux -10%;
- Measured CRI ≥ Declared CRI-2
- The above technical data, including typical power are based on the test of 0.5m.

Optical Test Diagram

Spectrum



Dimension Drawing

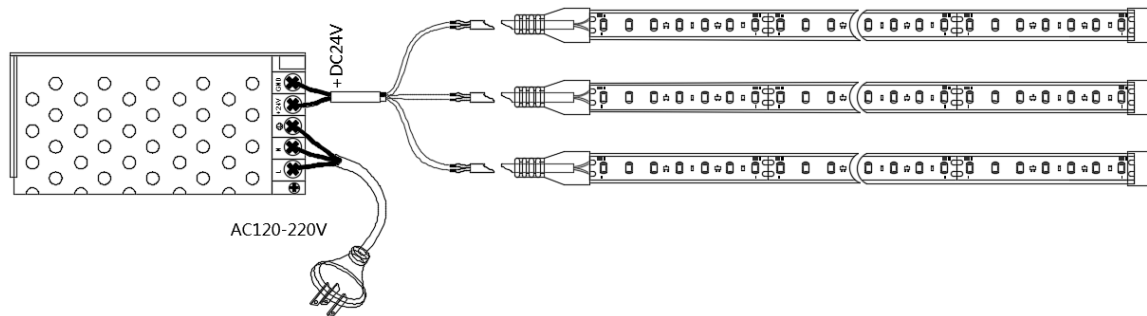


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Cap thickness	G End cap length	H Cap width
E20	300±10mm	Φ6.0±0.2mm	20,000±50mm	10±0.5mm	1.2±0.2mm	/	/	/
	11.81±0.39in	0.236±0.008in	787.4±1.97in	0.32±0.02in	0.047±0.02in	/	/	/
R67	315±10mm	Φ6.0±0.2mm	20,020±50mm	12±0.5mm	4.5±0.5mm	7.0±1mm	11±0.5mm	14±0.5mm
	12.40±0.39in	0.236±0.008in	788.19±1.97in	0.39±0.02in	0.20±0.02in	0.28±0.02in	0.43±0.02in	0.47±0.02in

Remarks:

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

## Circuit Diagram



Noted: As the brightness difference between the two ends of the 20-meter LED strip is great than 30%, it is recommended not to exceed 19 meters for single-ended power supply.

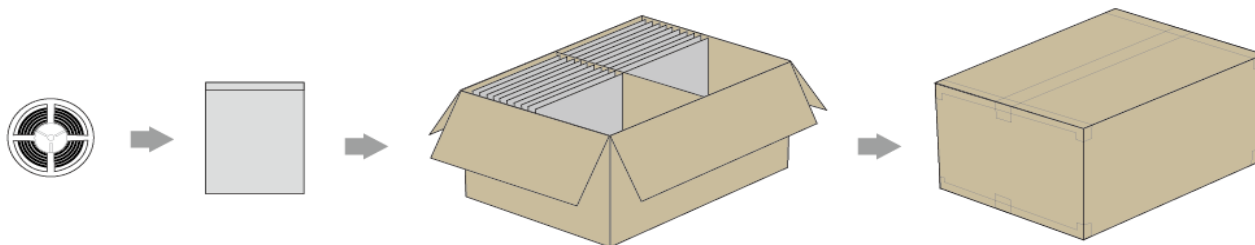
## Standard Accessories

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

## Optional Accessories

IP Grade	Category	Description	Picture	Part No.	Application
E 20	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS102BPWP-10(10MM)	≤240LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS102BPOP-10(10MM)	≤240LEDs/M

**Packaging Diagram**













**Packaging Diagram**

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>	380*350*0.14mm	/	/	330*320*330mm	17	5.95 KG ±10%	10.83 KG ±10%	0.035m³
	14.96*13.78*0.0056 in	/	/	12.99*12.60 *12.99 in	17	13.12 Lbs ±10%	23.88 Lbs ±10%	1.231ft³
<b>R 67</b>	/	345*330*61mm	1	362*265*350mm	4	4.8 KG ±10%	8.26 KG ±10%	0.034m³
	/	13.58*12.99*2.4 in	1	14.25*10.43*13.78 in	4	10.58 Lbs ±10%	18.21 Lbs ±10%	1.19ft³


**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	 Operating temperature -20°C~+45°C (-4°F~+113°F)	 Storage temperature 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 19 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.