

# Product Specification

## SMD LV Strip PRO 2835 24V 140 LEDs/M Special

WW-FLS102T28XW140X-24(WCP)-1000-XR-ME-IC  
&  
WW-FLS102T28XW140X-24(WCP)-1000-XR-ME-IC-EP

Apply to ERP Regulation (EU) 2019/2020



HK Office :

Unit 1901, 19th Floor, NanYang Plaza, No. 57 Hung To Road  
Kwun Tong, Kowloon, Hong Kong

Tel : (852) 3152 3059 (10 lines)

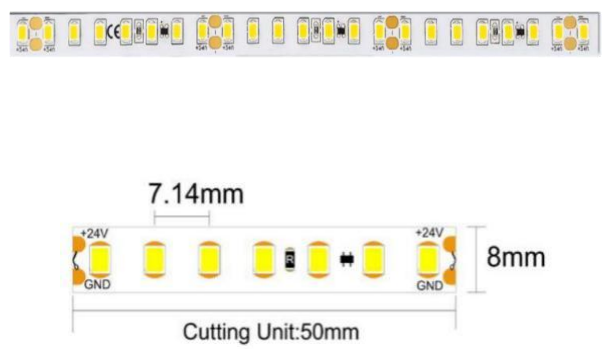
Fax : (852) 3152 3039






China Factory :



Zhiyang Science and Technology Park, 10 Zhiyang Road, Zhangge,  
Fucheng Street, Longhua District, Shenzhen, Guangdong, China

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): 10M</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 Drooping	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-FLS102T28XW140X-24(WCP)-1000-XR-ME-IC

### 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-FLS102T28XW140B-24(WCP)-1000-HR-ME-IC	80	82	96	12.00	13.20	Warm White	2300-2600K	/	1390	DC 24V
							Warm White	2600-2900K	2650-2770K	1440	
							Warm White	2900-3200K	2960-3110K	1485	
							Natural White	3700-4250K	3840-4080K	1600	
							Standard White	5700-6500K	/	1585	
	WW-FLS102T28XW140B-24(WCP)-1000-UR-ME-IC	90	96	100	12.00	13.20	Warm White	2600-2900K	2650-2770K	1180	DC 24V
							Warm White	2900-3200K	2960-3110K	1255	
							Natural White	3700-4250K	3840-4080K	1310	
							Standard White	5700-6500K	/	1375	
							Warm White	2300-2600K	/	1305	
Warm White	2600-2900K	2650-2770K	1325								
Warm White	2900-3200K	2960-3110K	1350								
Natural White	3700-4250K	3840-4080K	1370								
Standard White	5700-6500K	/	1270								
<b>S 54</b>	WW-FLS102T28XW140S-24(WCP)-1000-HR-ME-IC	80	82	96	12.00	13.20	Warm White	2300-2600K	/	1065	DC 24V
							Warm White	2600-2900K	2650-2770K	1065	
							Warm White	2900-3200K	2960-3110K	1065	
							Natural White	3700-4250K	3840-4080K	1185	
							Standard White	5700-6500K	/	1185	
	WW-FLS102T28XW140S-24(WCP)-1000-UR-ME-IC	90	96	100	12.00	13.20	Warm White	2300-2600K	/	1400	DC 24V
							Warm White	2600-2900K	2650-2770K	1400	
							Warm White	2900-3200K	2960-3110K	1490	
							Natural White	3700-4250K	3840-4080K	1550	
							Standard White	5700-6500K	/	1545	
<b>R 67</b>	WW-FLS102T28XW140R-24(WCP)-1000-HR-ME-IC	80	82	96	12.00	13.20	Warm White	2300-2600K	/	1290	DC 24V
							Warm White	2600-2900K	2650-2770K	1340	
							Warm White	2900-3200K	2960-3110K	1365	
							Natural White	3700-4250K	3840-4080K	1500	
							Standard White	5700-6500K	/	1485	
	WW-FLS102T28XW140R-24(WCP)-1000-UR-ME-IC	90	96	100	12.00	13.20	Warm White	2300-2600K	/	1235	DC 24V
							Warm White	2600-2900K	2650-2770K	1295	
							Warm White	2900-3200K	2960-3110K	1320	
							Natural White	3700-4250K	3840-4080K	1450	
							Standard White	5700-6500K	/	1450	
<b>RW 67</b>	WW-FLS102T28XW140R-24(WCP)-1000-HR-ME-IC	80	82	96	12.00	13.20	Warm White	2300-2600K	/	1030	DC 24V
							Warm White	2600-2900K	2650-2770K	1030	
							Warm White	2900-3200K	2960-3110K	1055	
							Natural White	3700-4250K	3840-4080K	1185	
							Standard White	5700-6500K	/	1185	
	WW-FLS102T28XW140R-24(WCP)-1000-UR-ME-IC	90	96	100	12.00	13.20	Warm White	2300-2600K	/	1235	DC 24V
							Warm White	2600-2900K	2650-2770K	1295	
							Warm White	2900-3200K	2960-3110K	1320	
							Natural White	3700-4250K	3840-4080K	1450	
							Standard White	5700-6500K	/	1450	
<b>RM 67</b>	WW-FLS102T28XW140R-24(WCP)-1000-HR-ME-IC	80	82	96	12.00	13.20	Warm White	2300-2600K	/	1235	DC 24V
							Warm White	2600-2900K	2650-2770K	1295	
							Warm White	2900-3200K	2960-3110K	1320	
							Natural White	3700-4250K	3840-4080K	1450	
							Standard White	5700-6500K	/	1450	
	WW-FLS102T28XW140R-24(WCP)-1000-UR-ME-IC	90	96	100	12.00	13.20	Warm White	2300-2600K	/	1235	DC 24V
							Warm White	2600-2900K	2650-2770K	1295	
							Warm White	2900-3200K	2960-3110K	1320	
							Natural White	3700-4250K	3840-4080K	1450	
							Standard White	5700-6500K	/	1450	

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 ±10% (subject to the manufacturer's instrument test).

Test condition of above technical data:

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

## WW-FLS102T28XW140X-24(WCP)-1000-XR-ME-IC-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
	WW-FLS102T28XW140B-24(WCP)-1000-HR-ME-IC-EP	80	82	96	11.62	12.78	Warm White	2700K	1485	128	E	DC 24V
							Warm White	3000K	1593	137	D	
							Natural White	4000K	1675	144	D	
							Standard White	6000K	1641	141	D	
E 20	WW-FLS102T28XW140B-24(WCP)-1000-UR-ME-IC-EP	90	90	100	11.62	12.78	Warm White	2700K	1238	107	F	DC 24V
							Warm White	3000K	1307	122	E	
							Natural White	4000K	1363	117	E	
							Standard White	6000K	1449	125	E	
R 67	WW-FLS102T28XW140R-24(WCP)-1000-HR-ME-IC-EP	80	82	96	11.62	12.78	Warm White	2700K	1423	122	E	DC 24V
							Warm White	3000K	1511	130	E	
							Natural White	4000K	1574	135	D	
							Standard White	6000K	1574	135	D	
	WW-FLS102T28XW140R-24(WCP)-1000-UR-ME-IC-EP	90	90	100	11.62	12.78	Warm White	2700K	1177	101	F	DC 24V
							Warm White	3000K	1233	106	F	
							Natural White	4000K	1291	111	E	
							Standard White	6000K	1356	117	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".

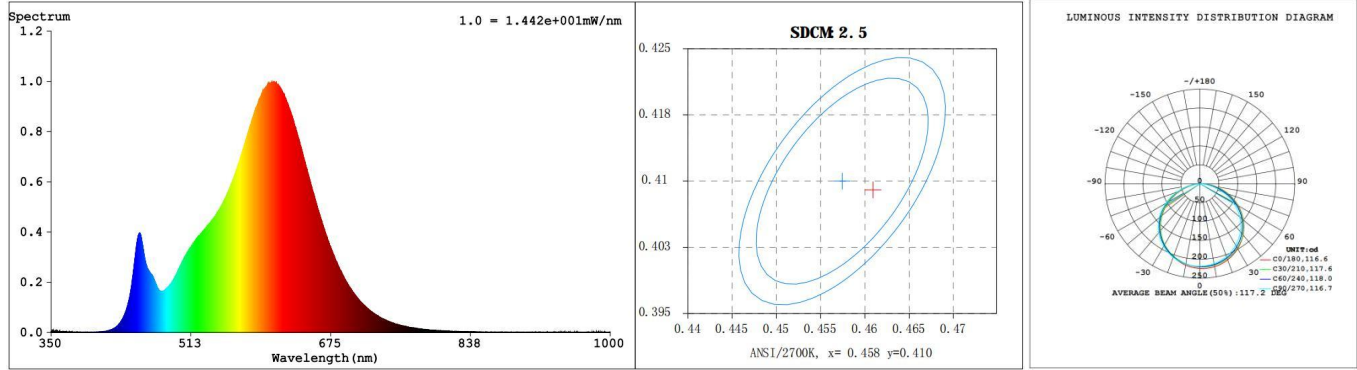
Test condition of above technical data:

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

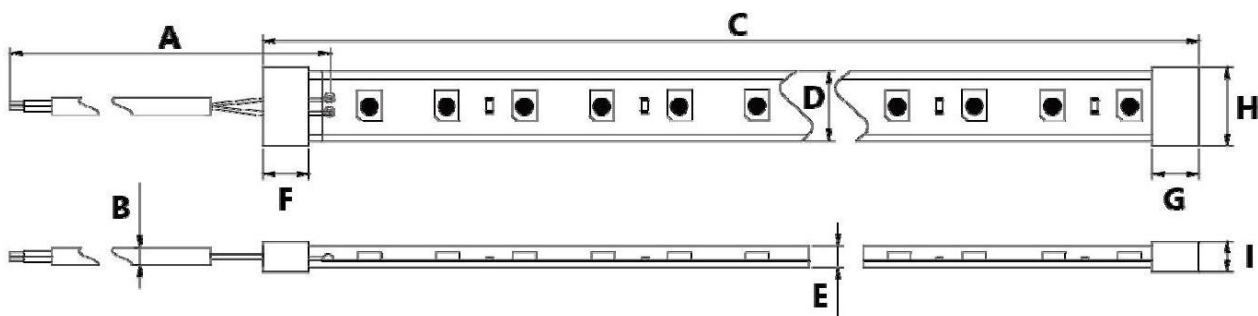
ErP Note:

- 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  $\leq$  Pon +5% ;
- Measured lumen  $\geq$  Useful luminous flux -10%;
- Measured CRI  $\geq$  Declared CRI-2
- The above technical data, including typical power are based on the test of 0.5m.

Optical Test Diagram



## Dimension Drawing

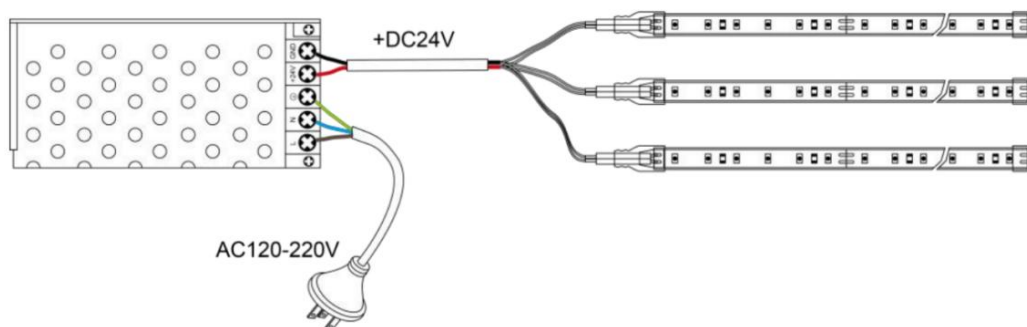


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Front cap length	G End cap length	H Cap width	I Cap thickness
E 20	300±10mm	Φ6.0±0.2mm	10000±50mm	8±0.5mm	1.2±0.2mm	/	/	/	/
	11.81±0.39in	0.236±0.01in	393.7±1.97in	0.32±0.02in	0.047±0.02in	/	/	/	/
S 54	300±10mm	Φ6.0±0.2mm	10000±50mm	8±0.5mm	2.3±0.5mm	/	/	/	/
	11.81±0.39in	0.236±0.01in	393.7±1.97in	0.32±0.02in	0.091±0.02in	/	/	/	/
R 67	300±10mm	Φ6.0±0.2mm	10020±50mm	10±0.5mm	5±0.5mm	30±0.5mm	11±0.5mm	12±0.5mm	7.0±0.5mm
	11.81±0.39in	0.236±0.01in	594.48±1.97in	0.39±0.02in	0.2±0.02in	1.18±0.02in	0.43±0.02in	0.47±0.02in	0.28±0.02in
RW 67	300±10mm	Φ6.0±0.2mm	10020±50mm	10±0.5mm	5±0.5mm	30±0.5mm	11±0.5mm	12±0.5mm	7.0±0.5mm
	11.81±0.39in	0.236±0.01in	594.48±1.97in	0.39±0.02in	0.2±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	10020±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±0.01in	594.48±1.97in	0.39±0.02in	0.2±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



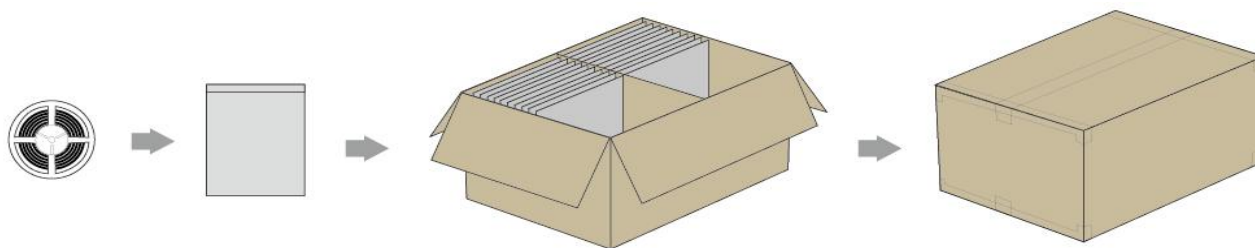
## Standard Accessories

IP Grade	Category	Description	Picture	Part No.	Application
E 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 wire Connector	2PIN Strip to wire Connector		WW-FLS102B-2FS2 (10mm)	≤120LEDs/M
	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2B-PWP2T-10	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS102B-2DD2(10MM)	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		FLS102B-2FD2(10mm)	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2B-POP2T-10	≤120LEDs/M
R 67	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2R-SW02T-10-300(22)	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2R-SOP2T-10	≤120LEDs/M

## 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	8.55 KG ±10%	12.55 KG ±10%	0.0458m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24 in	50	18.85 Lbs ±10%	27.67 Lbs ±10%	1.616 ft³
R 67	380*350*0.14mm	/	/	330*320*330mm	14	8.77 KG ±10%	12.58 KG ±10%	0.0348m³
	14.96*13.78*0.0056 in	/	/	12.99*12.6 *12.99 in	14	19.34 Lbs ±10%	27.74 Lbs ±10%	1.23 ft³

















### 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.**