

Product Specification

SMD LV Strip

PRO 2835 24V 238LEDs/M

Single color

WW-FLS102T28XW238X-24(WCP)-XR-ME-RTR
&
WW-FLS102T28XW238X-24(WCP)-XR-ME-EP-RTR

Apply to ERP Regulation (EU) 2019/2020



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China Factory :



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<p>Product Features</p> <ul style="list-style-type: none"> • High quality FPC, authentic 3M tape; • PCB board connection without soldering • Self-encapsulated design 2835 LED; • Light source lifetime:50K hours(L70); • Meet (EU)2019/2020 ErP regulations. • Min. Bending Diameter: Φ60mm • Max. length(M): 5M 	
<p>Technology info</p> <ul style="list-style-type: none"> • Lighting Technology: LED • DLS or NDLS: NDLS • MLS or NMLS: NMLS 	<p>Certification Standards</p> <ul style="list-style-type: none"> • EN55015:2019 • EN61547:2023 • EN60598-1:2021 • EN60598-2-21 • EN62493:2015 • EN62471:2008

Non-ErP Waterproof Type	 B 20	 R 67
	Naked Strip	Silicone Extrusion
	5 Years Warranty	5 Years Warranty

ErP Waterproof Type	 B 20	 R 67
	Naked Strip	Silicone Extrusion
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WW-FLS102T28XW238X-24(WCP)-XR-ME-RTR

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-FLS102T28XW238B-24(WCP)-HR-ME-RTR	80	82	96	18	19.8	Warm White	2600-2900K	/	2340	DC24V
							Warm White	2900-3200K	/	2440	
							Natural White	3700-4250K	/	2560	
							Standard White	5700-6500K	/	2500	
	WW-FLS102T28XW238B-24(WCP)-UR-ME-RTR	90	90	100	18	19.8	Warm White	2600-2900K	/	1900	DC24V
							Warm White	2900-3200K	/	2000	
							Natural White	3700-4250K	/	2160	
							Standard White	5700-6500K	/	2090	
R 67	WW-FLS102T28XW238R-24(WCP)-HR-ME-RTR	80	82	96	18	19.8	Warm White	2600-2900K	/	2250	DC24V
							Warm White	2900-3200K	/	2340	
							Natural White	3700-4250K	/	2460	
							Standard White	5700-6500K	/	2400	
	WW-FLS102T28XW238R-24(WCP)-UR-ME-RTR	90	90	100	18	19.8	Warm White	2600-2900K	/	1820	DC24V
							Warm White	2900-3200K	/	1920	
							Natural White	3700-4250K	/	2070	
							Standard White	5700-6500K	/	2000	

Remarks:

- *The above color temperature is the color temperature of LED source.
- 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-FLS102T28XW238X-24(WCP)-XR-ME-EP-RTR

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-FLS102T28XW238B-24(WCP)-HR-ME-EP-RTR	80	82	96	19.6	21.56	Warm White	2700K	2380	121	E	DC 24V
							Warm White	3000K	2480	127	E	
							Natural White	4000K	2600	133	E	
							Standard White	6000K	2550	130	E	
E 20	WW-FLS102T28XW238B-24(WCP)-UR-ME-EP-RTR	90	90	100	19.6	21.56	Warm White	2700K	1930	98	F	DC 24V
							Warm White	3000K	2040	104	F	
							Natural White	4000K	2200	112	E	
							Standard White	6000K	2120	108	F	
R 67	WW-FLS102T28XW238R-24(WCP)-HR-ME-EP-RTR	80	82	96	19.6	21.56	Warm White	2700K	2280	116	E	DC 24V
							Warm White	3000K	2380	121	E	
							Natural White	4000K	2490	127	E	
							Standard White	6000K	2440	124	E	
R 67	WW-FLS102T28XW238R-24(WCP)-UR-ME-EP-RTR	90	90	100	19.6	21.56	Warm White	2700K	1860	95	F	DC 24V
							Warm White	3000K	1950	99	F	
							Natural White	4000K	2110	108	F	
							Standard White	6000K	2030	104	F	

Remarks:

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

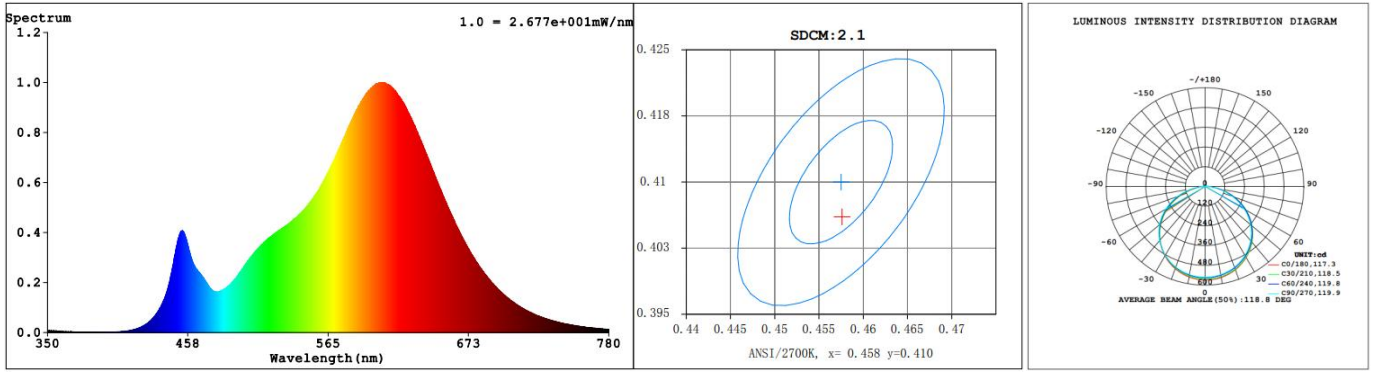
Test condition of above technical data:

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

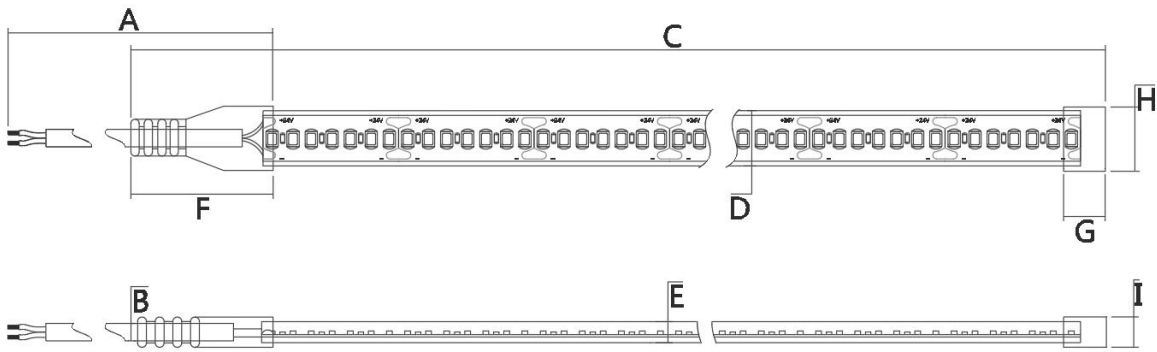
ErP Note:

- 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 \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

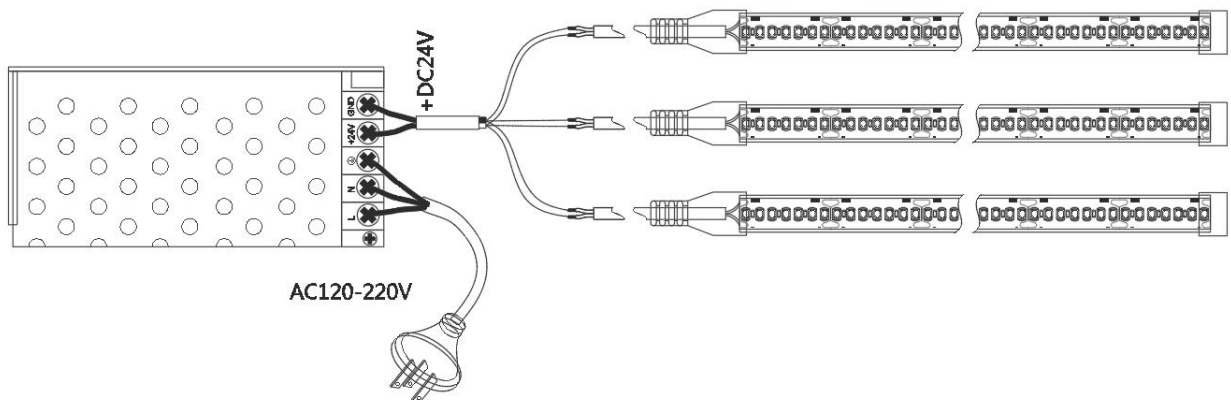


IP Grade	A	B	C	D	E	F	G	H	I
	Cable Length	cable diameter	Strip length	Strip width	Strip thickness	Front cap length	End cap length	Cap width	Cap thickness
B 20	300±10mm	Φ4.0±0.2mm	5000±50mm	10±0.5mm	1.2±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.39±0.02in	0.047±0.02in	/	/	/	/
R 67	300±10mm	Φ6±0.5mm	5020±50mm	12±0.5mm	5±0.25mm	30±2mm	11±0.5mm	12±0.5mm	7.0±0.5mm
	11.81±0.39in	0.236±0.02 in	197.64±1.97in	0.47±0.02in	0.20±0.01in	1.18±0.08in	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



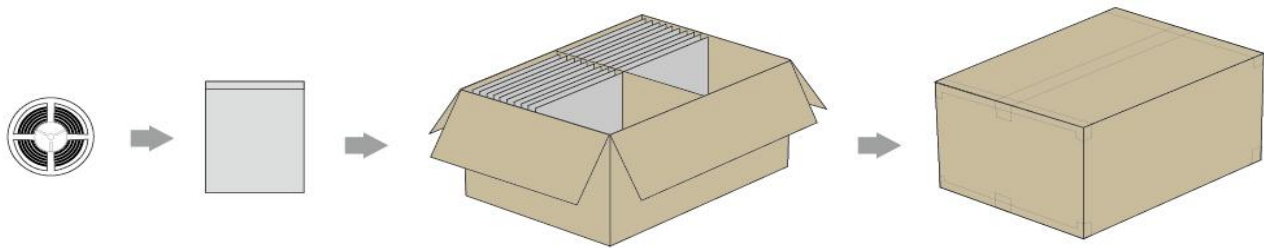
Standard Accessories

IP Level	Category	Description	Picture	Part No.	Application
E 20	/	/	/	/	/
	/	/	/	/	/
R 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW(12mm)	12mm Type R
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip

Optional Accessories

IP Level	Category	Description	Picture	Part No.	Density
E 20	Strip to Strip Connector	2PIN Strip to Strip Connector		WW-FLS102B-MUCN-10	COB
	Strip to Strip Connector	2PIN Strip to Strip Connector		WW-F2B-POP2T-10(COB)	COB
	Strip to Wire Connector	2PIN Strip to Wire Connector		WW-F2B-OWP2T-10(COB)	COB
	Strip to Wire Connector	2PIN Strip to Wire Connector		WW-F2B-PWP2T-10(COB)	COB
	L-shape Strip to strip Connector	2PIN L-shape Strip to strip Connector		WW-FLS102B-3DD2G-L(10MM)	COB
	T-shape Strip to wire Connector	2PIN T-shape Strip to wire Connector		WW-FLS102B-3DD2G-T(10MM)	COB
	T-shape Strip to strip Connector	2PIN T-shape Strip to strip Connector		WW-FLS102B-3FS2G-T(10MM)	COB
	+ -shape Strip to strip Connector	2PIN + -shape Strip to strip Connector		WW-FLS102B-3DD2G-X(10MM)	COB
R 67	/	/	/	/	/

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			
IP20	250*270*0.14mm	/	/	440*400*260mm	50	4.1 KG ±10%	7.12 KG ±10%	0.04576 m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75*10.24 in	50	9.04 Lbs ±10%	15.7 Lbs ±10%	1.616 ft³
IP67	270*300*0.14mm	/	/	520*370*300mm	36	10.98 KG ±10%	16.55 KG ±10%	0.05772 m³
	10.63*11.81*0.0055 in	/	/	20.47*14.57*11.81 in	36	24.21 Lbs ±10%	36.49 Lbs ±10%	0.04576 m³


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.**