Product Specification

DC Flexible LED Strip

Dim to Warm 2835 Series

2835 Top LED 10mm FPC 140LEDs/M

WW-FLS102T28WS140X-24(WCP)-HR-DTW
&
WW-FLS102T28WS140X-24(WCP)-HR-DTW-EP

CE ETL (Intertek) c UL us RoHS GS UKCA LM 80

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Product Features

● High quality FPC, authentic 3M tape;

● 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

14.28mm

10mm

100mm

Technology info

● Lighting Technology: LED

● DLS or NDLS: NDLS

● MLS or NMLS: NMLS

Certification Standards

● EN55015:2019
● EN61547:2009
● EN60598-1:2015
● EN60598-2-20:2015
● EN62493:2015
● EN62471:2008

Non-ErP Waterproof Type	B 20	F 65	R 67
	Naked Strip	Silicone Tube	Silicone Extrusion
	5 Years Warranty	5 Years Warranty	5 Years Warranty

ErP Waterproof Type	B 20	F 65	R 67
	Naked Strip	Silicone Tube	Silicone Extrusion
	5 Years Warranty	5 Years Warranty	5 Years Warranty

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WW-FLS102T28WS140X-24(WCP)-HR-DTW

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-FLS102T28WS140B-24(WCP)-HR-DTW	80	82	96	12.20	13.42	Warm White	1800-2000K	/	1268	DC 24V
							Standard White	5700-6500K	/		
F 65	WW-FLS102T28WS140F-24(WCP)-HR-DTW	80	82	96	12.20	13.42	Warm White	1800-2000K	/	1235	DC 24V
							Standard White	5700-6500K	/		
R 67	WW-FLS102T28WS140R-24(WCP)-HR-DTW	80	82	96	12.20	13.42	Warm White	1800-2000K	/	1220	DC 24V
							Standard White	5700-6500K	/		

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℃.
- Test while turning on.

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WW-FLS102T28WS140X-24(WCP)-HR-DTW-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
B 20	WW-FLS102T28WS140B-24(WCP)-HR-DTW-EP	80	82	96	12.76	14.04	Warm White	3000K	1388	109	F	DC 24V
							Standard White					
F 65	WW-FLS102T28WS140F-24(WCP)-HR-DTW-EP	80	82	96	12.76	14.04	Warm White	3000K	1352	106	F	DC 24V
							Standard White					
R 67	WW-FLS102T28WS140R-24(WCP)-HR-DTW-EP	80	82	96	12.76	14.04	Warm White	3000K	1348	106	F	DC 24V
							Standard White					

Remarks:

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

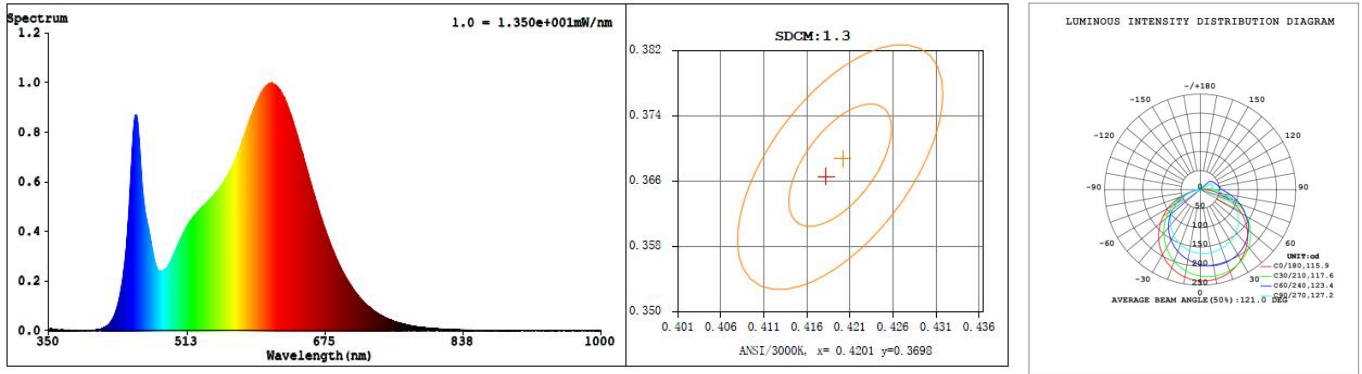● While SDCM<3 model is available, part number will add the suffix "-3S".

Test condition of above technical data:

● Surrounding temperature: 26 ℃.
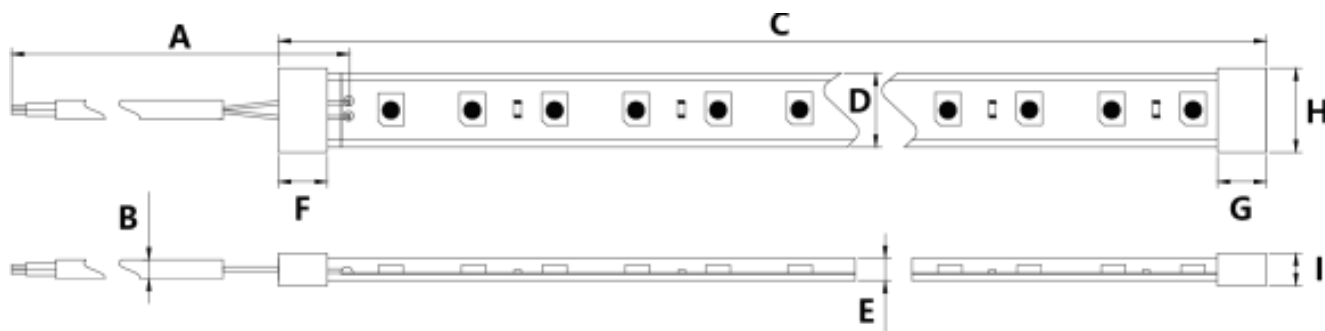
● Test after 15 mins turned on.

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

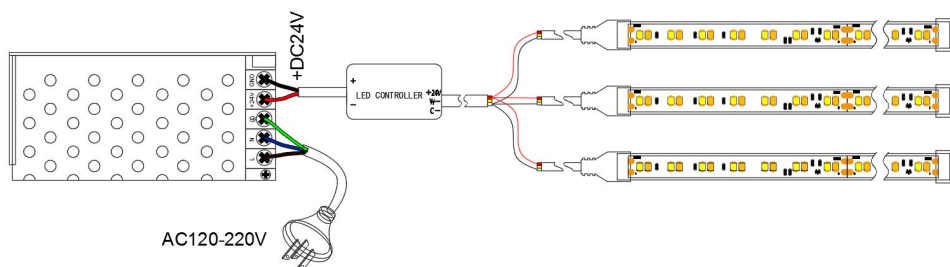• The above technical data, including typical power are based on the test of 0.5m.

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Optical Test Diagram

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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	10±0.5mm	1.5±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.39±0.02in	0.06±0.02in	/	/	/	/
F 65	300±10mm	Φ4.0±0.2mm	5020±50mm	12±0.5mm	3.2±0.25mm	12±0.5mm	12±0.5mm	7.3±0.5mm	4.8±0.5mm
	11.81±0.39in	0.16±0.01in	197.64±1.97in	0.47±0.02in	0.13±0.01in	0.47±0.02in	0.47±0.02in	0.29±0.02in	0.19±0.02in
R 67	300±10mm	Φ4.0±0.2mm	5020±50mm	12±0.5mm	3.5±0.25mm	10±2mm	10±0.5mm	7.5±0.5mm	5.5±0.5mm
	11.81±0.39in	0.16±0.01in	197.64±1.97in	0.47±0.02in	0.14±0.01in	0.39±0.08in	0.39±0.02in	0.23±0.02in	0.22±0.02in

Remarks:

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

Circuit Diagram

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Standard Accessories

IP Level	Category	Description	Picture	Part No.	Application
20	/	/	/	/	/
	/	/	/	/	/
65	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
67	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip

Optional Accessories

IP Grade	Category	Description	Picture	Part No.	Application
20	Strip to wire Connector	2PIN Strip to wire Connector		WW-FLS102BPWP-10	≤ 240LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS102BPOP-10	≤ 240LEDs/M
65	/	/	/	/	/
67	/	/	/	/	/

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Packaging Diagram
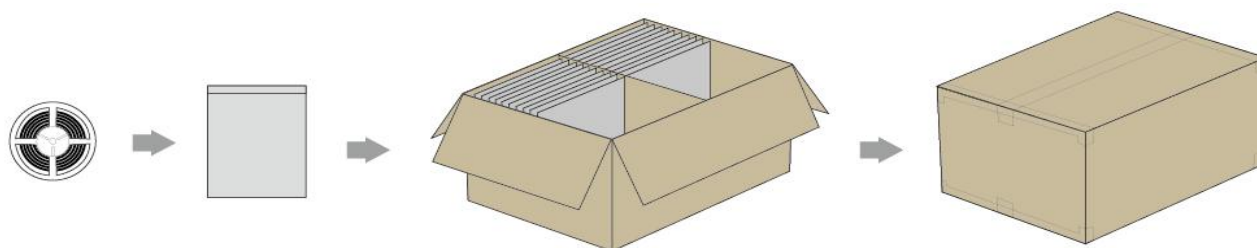
Packaging information

IP Grade	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
B 20	250*270*0.14mm	/	/	440*400 *260mm	50	4.75KG ±10%	8.37 KG ±10%	0.045m³
	9.84*10.63*0.0055 in	/	/	17.32*15.75 *10.24 in	50	10.46 Lbs ±10%	18.44 Lbs ±10%	1.62ft³
F 65	250*270*0.14mm	/	/	440*400 *260mm	40	8.8 KG ±10%	12.47 KG ±10%	0.045m³
	9.84*10.63*0.0055 in	/	/	17.32*15.75 *10.24 in	40	15.09 Lbs ±10%	22.14 Lbs ±10%	1.62ft³
R 67	270*300*0.14mm	/	/	520*370 *300mm	36	10.73 KG ±10%	17.04 KG ±10%	0.06m³
	10.63*11.81*0.0055 in	/	/	20.47*14.57*11.81 in	36	22.47 Lbs ±10%	29.6 Lbs ±10%	2.04 ft³

Remarks :

● Please contact our sales manager for customized package (color box, blister etc.)

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⚠ 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℃~+45℃ (-4℉~+113℉)	Storage temperature 0℃~+60℃ (32℉~+140℉)	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 (5M)	Power supply must be connected to ground(GND)	The minumum 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.