

Product Specification

DC Flexible LED Strip

Luminaire CC Driven

2835 Top LED 14mm FPC 114LEDs/M

WW-FLS102T29XW114B-CC(WCP)(14)-0XXX-XR-DS(XXmA)

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WW-FLS102T29XW114B-CC(WCP)(14)-0XXX-XR-DS-EP(XXmA)



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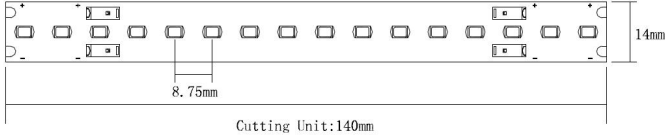
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<p>Product Features</p> <ul style="list-style-type: none"> • High quality FPC, authentic 3M tape; • Self-encapsulated design 2835 LED; • Light source lifetime:50K hours(L70); • Meet (EU)2019/2020 ErP regulations. • Min. Bending Diameter: Φ60mm • Max. length(M): 5.04M 	 
<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 • EN61547:2009 • EN60598-1:2015 • EN60598-2-20:2015 • EN62493:2015 • EN62471:2008

<p>Non-ErP Waterproof of Type</p>	
	
	<p>Naked Strip</p>
<p>5 Years Warranty</p>	

<p>ErP Waterproof Type</p>	
	
	<p>Naked Strip</p>
<p>5 Years Warranty</p>	

WW-FLS102T29XW114B-CC(WCP)(14)-0XXX-XR-DS(XXmA)

Parameters for non-Erp

IP Grade	Strip length (mm)*	CRI (Ra)	Rf	Rg	Typical Current (A)	Typical Power (W)	Max. Power (W)	Color	LED Color Temp.(K) Wavelength(nm)**	3SDCM LED Color Temp.(K) Wavelength(nm)***	Typ. Luminous Flux (LM)	Rated voltage
B 20	560	80	82	96	0.1	4.4	4.84	Warm White	2700K	/	660	DC42-48
								Warm White	3000K	/	705	
								Natural White	4000K	/	725	
								Standard White	6000K	/	715	
	560	90	90	100	0.1	4.4	4.84	Warm White	2700K	/	560	DC42-48
								Warm White	3000K	/	578	
								Natural White	4000K	/	620	
								Standard White	6000K	/	650	
	560	80	82	96	0.2	9.2	10.12	Warm White	2700K	/	1240	DC42-48
								Warm White	3000K	/	1330	
								Natural White	4000K	/	1355	
								Standard White	6000K	/	1345	
	560	90	90	100	0.2	9.2	10.12	Warm White	2700K	/	1060	DC42-48
								Warm White	3000K	/	1090	
								Natural White	4000K	/	1180	
								Standard White	6000K	/	1230	
	560	80	82	96	0.3	14.3	15.73	Warm White	2700K	/	1775	DC42-48
								Warm White	3000K	/	1910	
								Natural White	4000K	/	1960	
								Standard White	6000K	/	1930	
	560	90	90	100	0.3	14.3	15.73	Warm White	2700K	/	1535	DC42-48
								Warm White	3000K	/	1570	
								Natural White	4000K	/	1705	
								Standard White	6000K	/	1780	
	560	80	82	96	0.4	19.5	21.45	Warm White	2700K	/	2250	DC42-48
								Warm White	3000K	/	2430	
								Natural White	4000K	/	2490	
								Standard White	6000K	/	2450	
560	90	90	100	0.4	19.5	21.45	Warm White	2700K	/	1950	DC42-48	
							Warm White	3000K	/	2085		
							Natural White	4000K	/	2085		
							Standard White	6000K	/	2275		

Remarks:

- *The above strip length value is 4 units(560 mm).
- **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 °C.
- Test while turning on.

WW-FLS102T29XW114B-CC(WCP)(14)-0XXX-XR-DS-EP(XXmA)

Parameters for Erp

IP Grade	Strip length (mm)*	Rate Voltage (V)	Typical Current (A)	Typical Power (W)	CRI (Ra)	Color	LED Color Temp.(K) Wavelength(nm)**	Luminous Flux (LM)	Efficacy (Lm/W)	Energy Efficiency class
B 20	560	DC42-48	0.1	4.4	80	Warm White	2700K	660	150.0	D
						Warm White	3000K	700	159.1	D
						Natural White	4000K	730	165.9	C
						Standard White	6000K	710	161.4	C
	560	DC42-48	0.1	4.4	90	Warm White	2700K	560	127.3	E
						Warm White	3000K	580	131.8	E
						Natural White	4000K	620	140.9	D
						Standard White	6000K	650	147.7	D
	560	DC42-48	0.2	9.1	80	Warm White	2700K	1220	134.1	E
						Warm White	3000K	1310	144.0	D
						Natural White	4000K	1350	148.4	D
						Standard White	6000K	1320	145.1	D
	560	DC42-48	0.2	9.1	90	Warm White	2700K	1040	114.3	E
						Warm White	3000K	1070	117.6	E
						Natural White	4000K	1160	127.5	E
						Standard White	6000K	1220	134.1	E
	560	DC42-48	0.3	14.1	80	Warm White	2700K	1750	124.1	E
						Warm White	3000K	1890	134.0	E
						Natural White	4000K	1940	137.6	D
						Standard White	6000K	1910	135.5	D
	560	DC42-48	0.3	14.1	90	Warm White	2700K	1500	106.4	F
						Warm White	3000K	1540	109.2	F
						Natural White	4000K	1670	118.4	E
						Standard White	6000K	1760	124.8	E
560	DC42-48	0.4	19.3	80	Warm White	2700K	2210	114.5	E	
					Warm White	3000K	2390	123.8	E	
					Natural White	4000K	2460	127.5	E	
					Standard White	6000K	2420	125.4	E	
560	DC42-48	0.4	19.3	90	Warm White	2700K	1900	98.4	F	
					Warm White	3000K	1950	101.0	F	
					Natural White	4000K	2120	109.8	F	
					Standard White	6000K	2230	115.5	E	

Remarks:

- * The above strip length value is 4 units(560 mm).
- **The above color temperature is the color temperature of LED source.
- Indicates SDCM<3 model is available, part number will add the suffix "-3S".

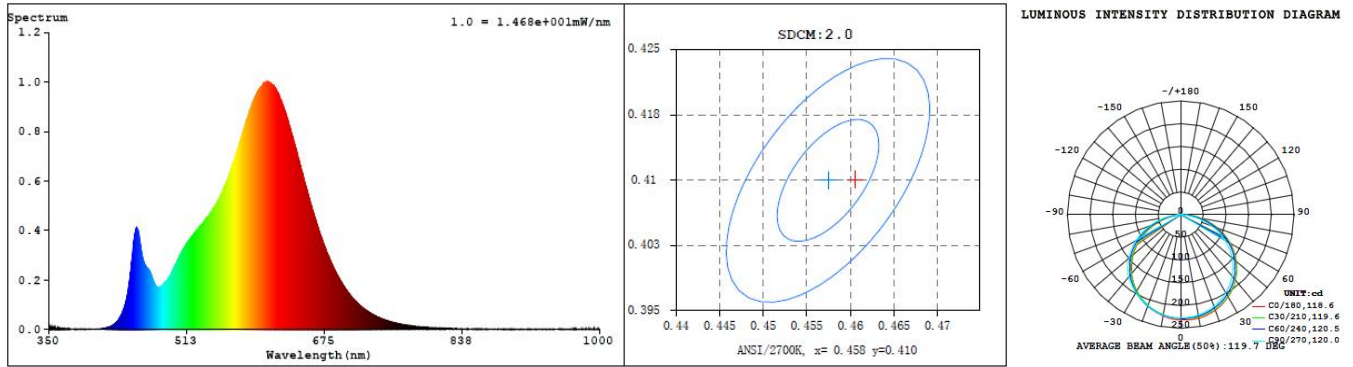
Test condition of above technical data:

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

Note:

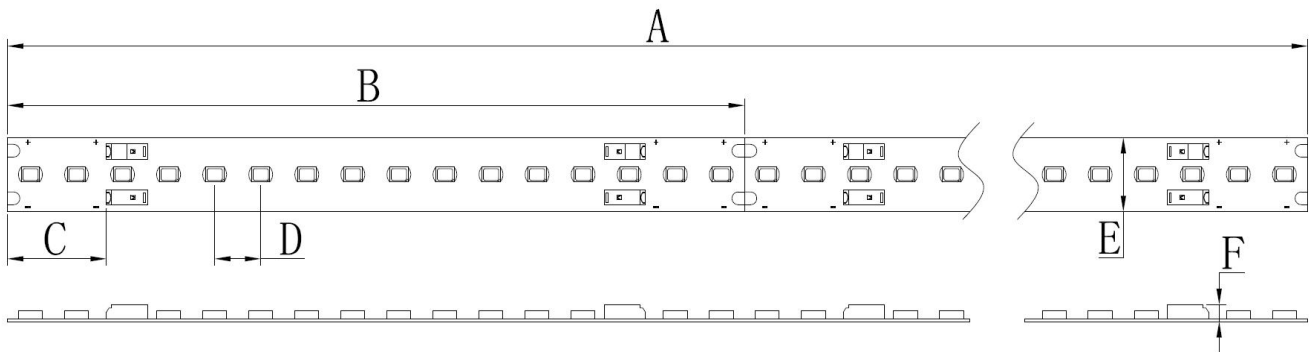
- According to the new ErP 2019/2020 regulation for each 0.5m or nearest 0.5m strip, the regulation allows the following tolerance:
- Measured power ≤ Declared Nominal Wattage +5% ;
- Measured lumen ≥ Declared Useful luminous flux -10%;
- Measured CRI ≥ Declared CRI-2
- Advised on mode power $P_{on} (0.56m) = \text{Typical power} (0.56m) = 0.14 \text{ m}^* 4$
 Advised declared Useful Luminous Flux $\Phi_{used} (0.56m) = \text{Luminous Flux}$

Optical Test Diagram



Remark: 0.56m test parameter

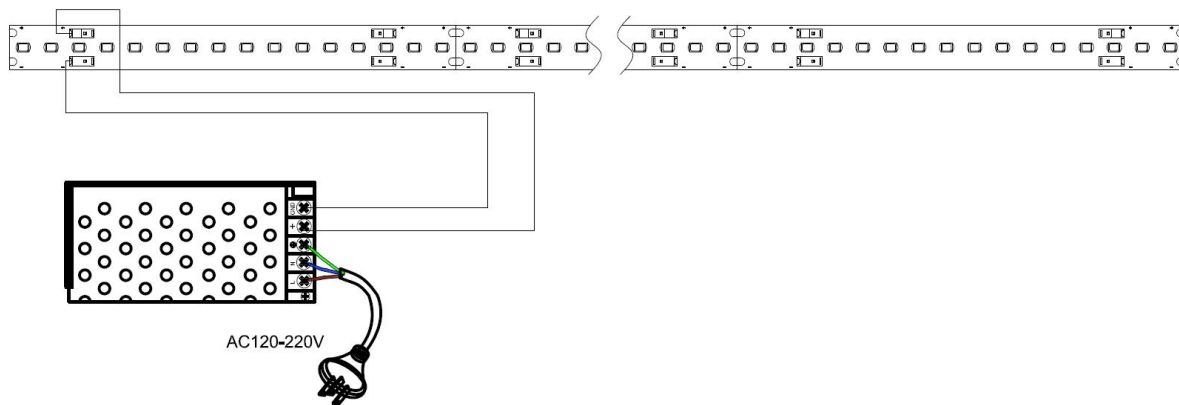
Dimension Drawing



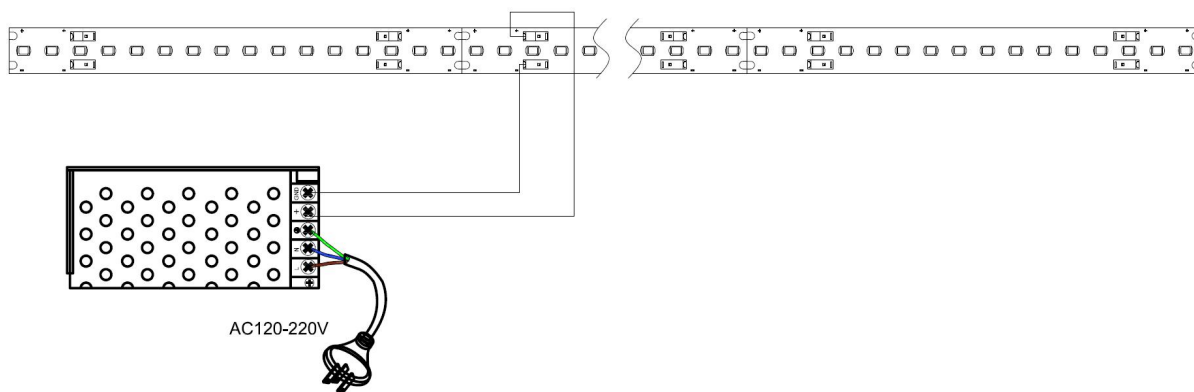
IP Grade	A Strip length	B Cutting unit length	C Terminals length	D Strip width	E Strip width	F Strip thickness
E20	5040±50mm	140±0.5mm	18.8±0.5mm	8.75±0.5mm	14±0.2mm	3.6±0.2mm
	198.43±1.97in	5.51±0.02in	0.74±0.02in	0.34±0.02in	0.55±0.008in	0.14±0.008in

Circuit Diagram

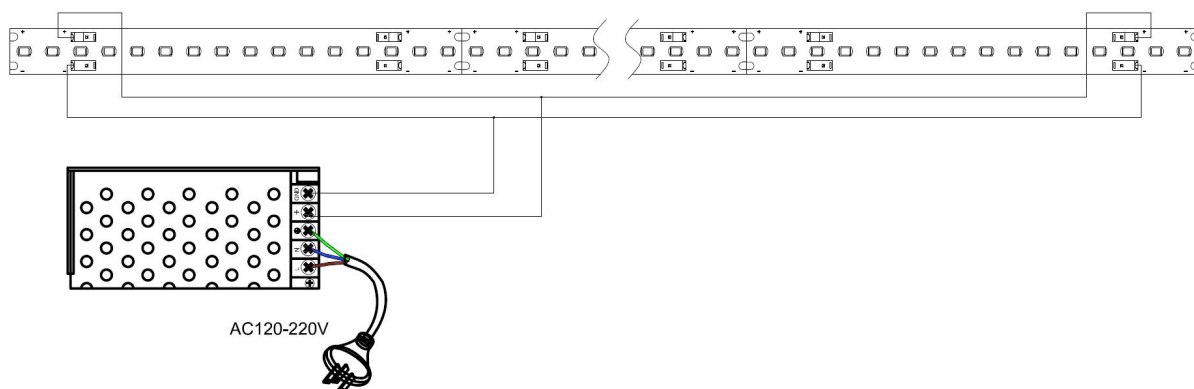
Connection at one side



Connection at middle



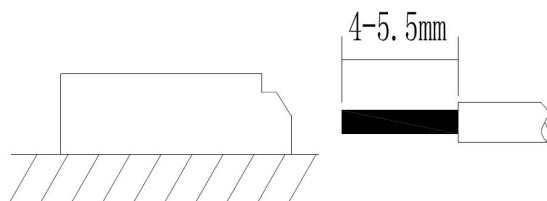
Connection at both sides



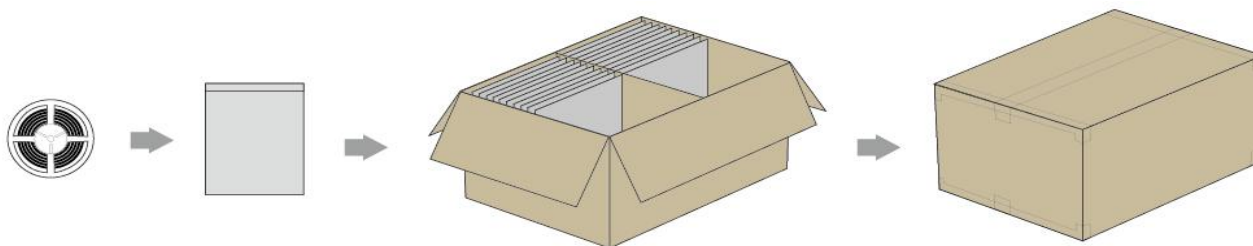
Model No.	Typical Unit Current	Max. Continues Length
WW-FLS102T29XW114B-CC(WCP)(14)-0XXX-XR-DS(XXmA) & WW-FLS102T29XW114B-CC(WCP)(14)-0XXX-XR-DS-EP(XXmA)	25 mA	36 units (5.04M)
	50 mA	36 units (5.04M)
	75 mA	24 units (3.36M)
	100 mA	24 units (3.36M)

Wiring type and cross section

The wiring must be solid with a cross section of 0.14 – 0.5 mm² (AWG26–20).
For the push-wire connection you have to strip the insulation 4–5.5 mm



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	36	5.04 KG ±10%	8.25 KG ±10%	0.04576m ³
	9.84*10.63*0.0056 in	/	/	17.32*15.75*10.24 in	36	11.11 Lbs ±10%	18.19 Lbs ±10%	1.616ft ³

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.**