

Product Specification

DC Flexible LED Strip

Luminaire CC Driven

2835 Top LED 14mm FPC 114LEDs/M

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

&

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



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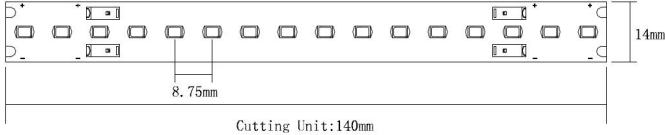
Fax : (852) 3152 3039







Tel : (86) 755 8601 9190



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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 Waterpro 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-P(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
E 20	560	80	82	96	0.1	4.2	4.62	Warm White	2700K	/	700	DC42-48
								Warm White	3000K	/	740	
								Natural White	4000K	/	760	
								Standard White	6000K	/	795	
	560	90	90	100	0.1	4.2	4.62	Warm White	2700K	/	600	DC42-48
								Warm White	3000K	/	610	
								Natural White	4000K	/	650	
								Standard White	6000K	/	690	
	560	80	82	96	0.2	8.7	9.57	Warm White	2700K	/	1380	DC42-48
								Warm White	3000K	/	1460	
								Natural White	4000K	/	1515	
								Standard White	6000K	/	1570	
	560	90	90	100	0.2	8.7	9.57	Warm White	2700K	/	1190	DC42-48
								Warm White	3000K	/	1220	
								Natural White	4000K	/	1285	
								Standard White	6000K	/	1375	
	560	80	82	96	0.3	13.2	14.52	Warm White	2700K	/	2070	DC42-48
								Warm White	3000K	/	2200	
								Natural White	4000K	/	2240	
								Standard White	6000K	/	2355	
	560	90	90	100	0.3	13.2	14.52	Warm White	2700K	/	1790	DC42-48
								Warm White	3000K	/	1825	
								Natural White	4000K	/	1925	
								Standard White	6000K	/	2065	
	560	80	82	96	0.4	17.9	19.69	Warm White	2700K	/	2715	DC42-48
								Warm White	3000K	/	2895	
								Natural White	4000K	/	2950	
								Standard White	6000K	/	3105	
	560	90	90	100	0.4	17.9	19.69	Warm White	2700K	/	2330	DC42-48
								Warm White	3000K	/	2390	
								Natural White	4000K	/	2510	
								Standard White	6000K	/	2700	
	560	80	82	96	0.5	22.60	24.86	Warm White	2700K	/	3395	DC42-48
								Warm White	3000K	/	3630	
								Natural White	4000K	/	3670	
								Standard White	6000K	/	3870	
560	90	90	100	0.5	22.60	24.86	Warm White	2700K	/	2885	DC42-48	
							Warm White	3000K	/	2950		
							Natural White	4000K	/	3105		
							Standard White	6000K	/	3340		
560	80	82	96	0.6	27.60	30.36	Warm White	2700K	/	4015	DC42-48	
							Warm White	3000K	/	4290		
							Natural White	4000K	/	4380		
							Standard White	6000K	/	4595		
560	90	90	100	0.6	27.60	30.36	Warm White	2700K	/	3425	DC42-48	
							Warm White	3000K	/	3515		
							Natural White	4000K	/	3705		
							Standard White	6000K	/	3985		

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 $\pm 15\%$ (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-P-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
E 20	560	DC42-48	0.1	4.2	80	Warm White	2700K	710	169.0	C
						Warm White	3000K	750	178.6	C
						Natural White	4000K	770	183.3	C
						Standard White	6000K	800	190.5	B
	560	DC42-48	0.1	4.2	90	Warm White	2700K	600	142.9	D
						Warm White	3000K	620	147.6	D
						Natural White	4000K	650	154.8	D
						Standard White	6000K	700	166.7	C
	560	DC42-48	0.2	8.58	80	Warm White	2700K	1390	162.0	C
						Warm White	3000K	1480	172.5	C
						Natural White	4000K	1520	177.2	C
						Standard White	6000K	1585	184.7	C
	560	DC42-48	0.2	8.58	90	Warm White	2700K	1190	138.7	D
						Warm White	3000K	1200	139.9	D
						Natural White	4000K	1270	148.0	D
						Standard White	6000K	1370	159.7	D
	560	DC42-48	0.3	13.12	80	Warm White	2700K	2040	155.5	D
						Warm White	3000K	2200	167.7	C
						Natural White	4000K	2210	168.4	C
						Standard White	6000K	2340	178.4	C
	560	DC42-48	0.3	13.12	90	Warm White	2700K	1765	134.5	E
						Warm White	3000K	1820	138.7	D
						Natural White	4000K	1910	145.6	D
						Standard White	6000K	2060	157.0	D
	560	DC42-48	0.4	17.76	80	Warm White	2700K	2680	150.9	D
						Warm White	3000K	2890	162.7	C
						Natural White	4000K	2900	163.3	C
						Standard White	6000K	3080	173.4	C
	560	DC42-48	0.4	17.76	90	Warm White	2700K	2310	130.1	E
						Warm White	3000K	2380	134.0	E
						Natural White	4000K	2500	140.8	D
						Standard White	6000K	2700	152.0	D
	560	DC42-48	0.5	22.5	80	Warm White	2700K	3300	146.7	D
						Warm White	3000K	3560	158.2	D
						Natural White	4000K	3590	159.6	D
						Standard White	6000K	3800	168.9	C
560	DC42-48	0.5	22.5	90	Warm White	2700K	2840	126.2	E	
					Warm White	3000K	2930	130.2	E	
					Natural White	4000K	3070	136.4	D	
					Standard White	6000K	3320	147.6	D	
560	DC42-48	0.6	27.4	80	Warm White	2700K	3900	142.3	D	
					Warm White	3000K	4220	154.0	D	
					Natural White	4000K	4250	155.1	D	
					Standard White	6000K	4500	164.2	C	
560	DC42-48	0.6	27.4	90	Warm White	2700K	3360	122.6	E	
					Warm White	3000K	3450	125.9	E	
					Natural White	4000K	3630	132.5	E	
					Standard White	6000K	3930	143.4	D	

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".

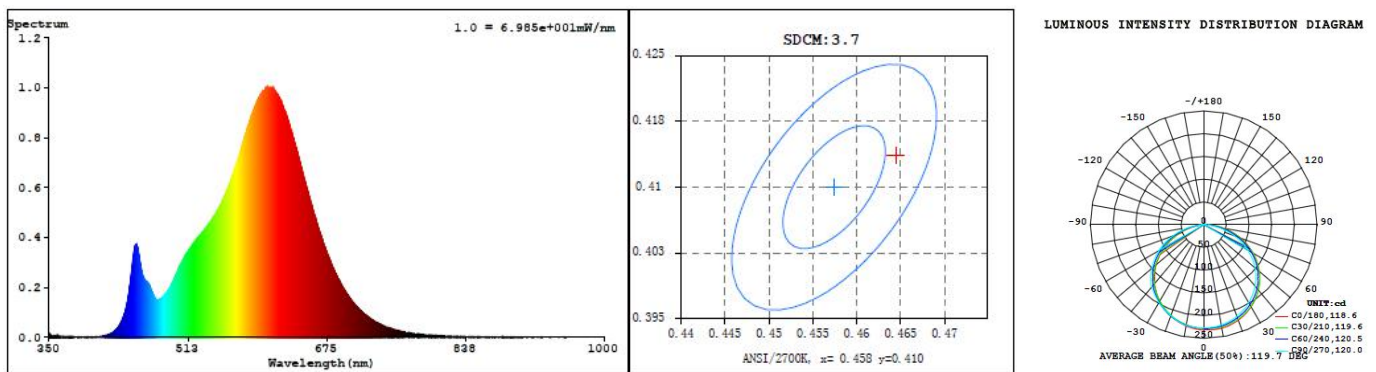
Test condition of above technical data:

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

Note:

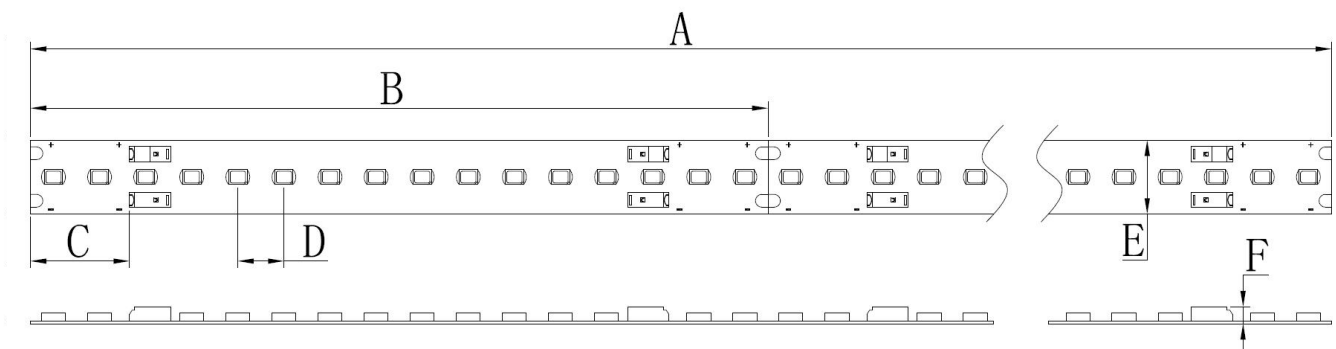
- According to the new ErP 2019/2020 regulation for each 0.5m or nearest 0.5m strip, the regulation allows the following tolerance:
- Measured power ≤ Declared Nominal Wattage +5% ;
- Measured lumen ≥ Declared Useful luminous flux -10%;
- Measured CRI ≥ Declared CRI-2
- Advised on mode power $P_{on}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

Optical Test Diagram



Remark: 0.56m test parameter

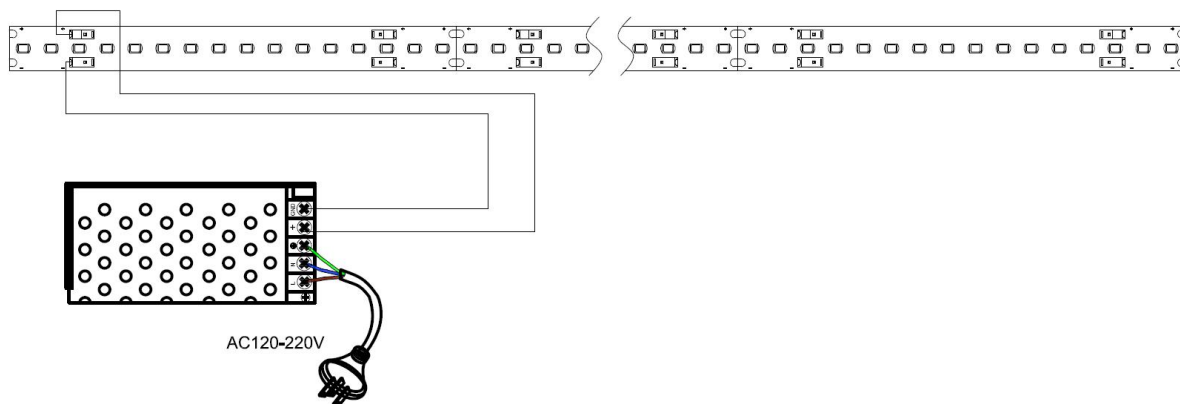
Dimension Drawing



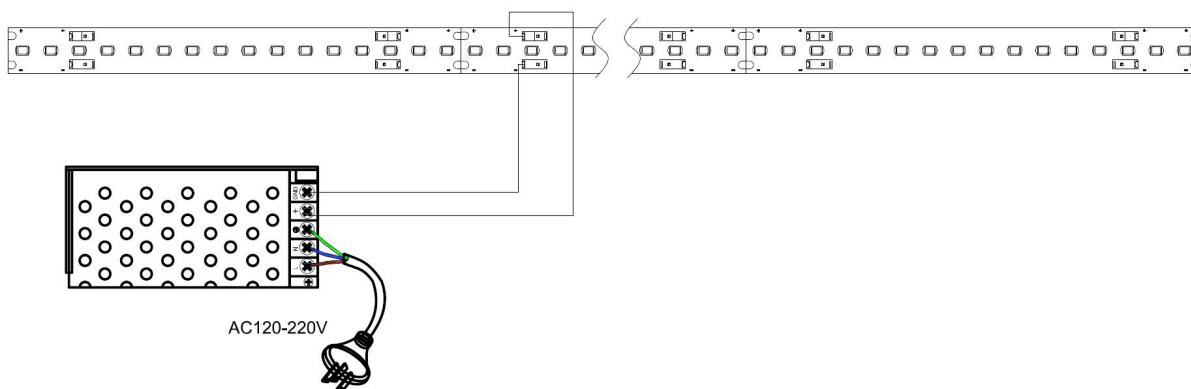
IP Grade	A Strip length	B Cutting unit length	C Terminals length	D Strip width	E Strip width	F Strip thickness
B 20	5040±50mm	140±0.5mm	18.8±0.5mm	8.75±0.5mm	14±0.2mm	3.6±0.2mm
	198.43±1.97in	5.51±0.02in	0.74±0.02in	0.34±0.02in	0.55±0.008in	0.14±0.008in

Circuit Diagram

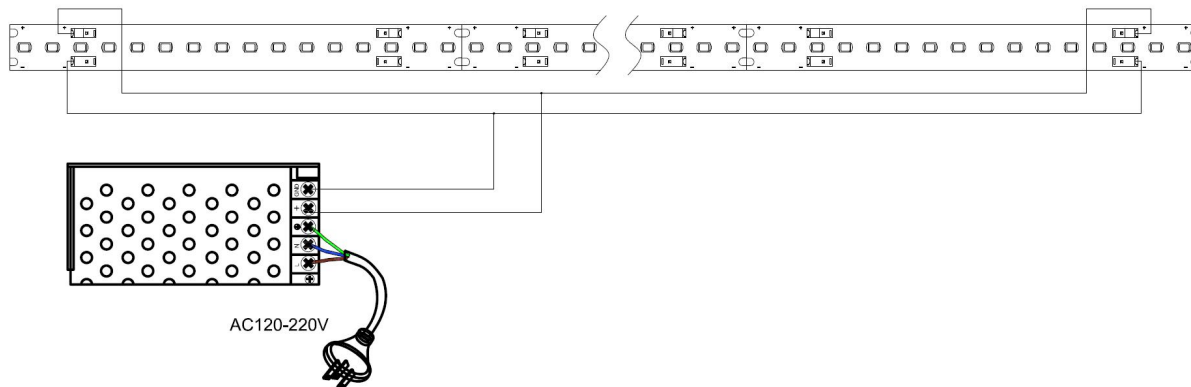
Connection at one side



Connection at middle



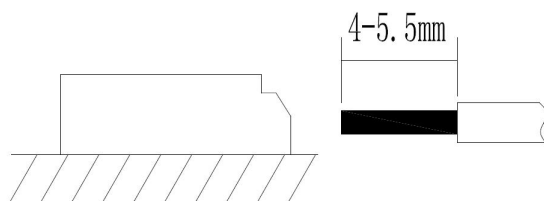
Connection at both sides



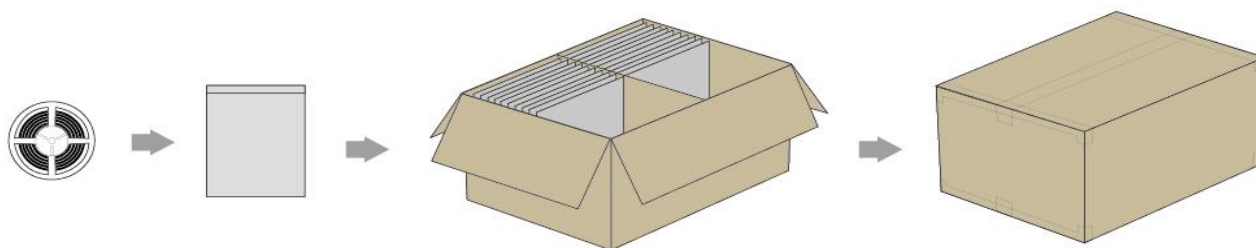
Model No.	Typical Unit Current	Max. Continues Length
WW-FLS102T29XW114B-CC(WCP)(14)-0XXX-XR-P(XXmA) & WW-FLS102T29XW114B-CC(WCP)(14)-0XXX-XR-P-EP(XXmA)	25 mA	36 units (5.04M)
	50 mA	36 units (5.04M)
	75 mA	24 units (3.36M)
	100 mA	24 units (3.36M)
	125 mA	20 units (2.8M)
	150 mA	20 units (2.8M)

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			
B 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.**