

Product Specification

DC Flexible LED Strip

2835 7LEDs/unit Series

2835 Top LED 8mm FPC 210LEDs/M

WW-FLS102T23XW210X-24(WCP)-XR-ME
&
WW-FLS102T23XW210X-24(WCP)-XR-ME-EP



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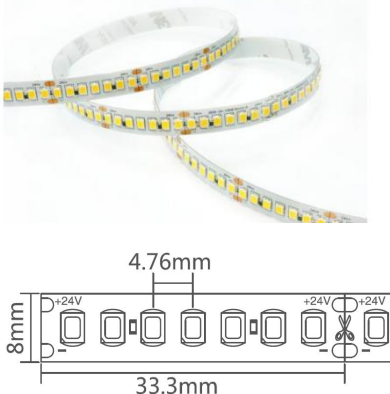
Fax : (852) 3152 3039













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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): 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 • EN61547:2009 • EN60598-1:2015 • EN60598-2-20:2015 • EN62493:2015 • EN62471:2008

Non-ErP Waterproof Type	 B 20	 S 54	 K 54/65	 F 65	 R 67	 RW 67	 RM 67
	Naked Strip	Silicone Dropping	Silicone Extrusion	Silicone Tube	Silicone Extrusion	Silicone Extrusion	Silicone Extrusion
	5 Years Warranty	3 Years Warranty	5 Years Warranty	5 Years Warranty	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

WW-FLS102T23XW210X-24(WCP)-XR-ME

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-FLS102T23XW210B-24(WCP)-HR-ME	80	82	96	13.09	14.40	Warm White	2500K	/	1510	DC 24V
							Warm White	2700K	2700K	1580	
							Warm White	3000K	3000K	1660	
							Natural White	4000K	4000K	1750	
							Standard White	6000K	/	1750	
	WW-FLS102T23XW210B-24(WCP)-UR-ME	90	90	100	13.09	14.40	Warm White	2700K	2700K	1320	DC 24V
							Warm White	3000K	3000K	1380	
							Natural White	4000K	4000K	1510	
							Standard White	6000K	/	1500	
							Warm White	2500K	/	1478	
F 65	WW-FLS102T23XW210F-24(WCP)-HR-ME	80	82	96	13.09	14.40	Warm White	2700K	2700K	1540	DC 24V
							Warm White	3000K	3000K	1585	
							Natural White	4000K	4000K	1680	
							Standard White	6000K	/	1650	
							Warm White	2500K	/	1478	
	WW-FLS102T23XW210F-24(WCP)-UR-ME	90	90	100	13.09	14.40	Warm White	2700K	2700K	1275	DC 24V
							Warm White	3000K	3000K	1355	
							Natural White	4000K	4000K	1445	
							Standard White	6000K	/	1470	
							Warm White	2500K	/	1435	
K 54/65	WW-FLS102T23XW210K-24(WCP)-HR-ME	80	82	96	13.09	14.40	Warm White	2700K	2700K	1501	DC 24V
							Warm White	3000K	3000K	1577	
							Natural White	4000K	4000K	1663	
							Standard White	6000K	/	1663	
							Warm White	2500K	/	1435	
	WW-FLS102T23XW210K-24(WCP)-UR-ME	90	90	100	13.09	14.40	Warm White	2700K	2700K	1190	DC 24V
							Warm White	3000K	3000K	1277	
							Natural White	4000K	4000K	1373	
							Warm White	2500K	/	1419	
							Warm White	2700K	2700K	1438	
S 54	WW-FLS102T23XW210S-24(WCP)-HR-ME	80	82	96	13.09	14.40	Warm White	3000K	3000K	1511	DC 24V
							Natural White	4000K	4000K	1470	
							Standard White	6000K	/	1365	
							Warm White	2700K	2700K	1153	
							Warm White	3000K	3000K	1210	
	WW-FLS102T23XW210S-24(WCP)-UR-ME	90	90	100	13.09	14.40	Natural White	4000K	4000K	1287	DC 24V
							Warm White	2500K	/	1404	
							Warm White	2700K	2700K	1510	
							Warm White	3000K	3000K	1570	
							Standard White	6000K	/	1625	
R 67	WW-FLS102T23XW210R-24(WCP)-HR-ME	80	82	96	13.09	14.40	Warm White	2700K	2700K	1260	DC 24V
							Warm White	3000K	3000K	1340	
							Natural White	4000K	4000K	1420	
							Standard White	6000K	/	1460	
							Warm White	2500K	/	1404	
	WW-FLS102T23XW210XR-24(WCP)-UR-ME	90	90	100	13.09	14.40	Warm White	2700K	2700K	1228	DC 24V
							Warm White	3000K	3000K	1250	
							Natural White	4000K	4000K	1316	
							Warm White	2500K	/	1404	
							Warm White	2700K	2700K	1454	
RW 67	WW-FLS102T23XW210R-24(WCP)-HR-W-ME	80	82	96	13.09	14.40	Warm White	3000K	3000K	1527	DC 24V
							Natural White	4000K	4000K	1610	
							Standard White	6000K	/	1593	
							Warm White	2500K	/	1404	
							Warm White	2700K	2700K	1454	
	WW-FLS102T23XW210R-24(WCP)-UR-W-ME	90	90	100	13.09	14.40	Warm White	3000K	3000K	1250	DC 24V
							Natural White	4000K	4000K	1316	
							Warm White	2500K	/	1404	
							Warm White	2700K	2700K	1454	
							Warm White	3000K	3000K	1527	

	WW-FLS102T23XW210R-24(WCP)-HR-M-ME	80	82	96	13.09	14.40	Warm White	2500K	/	1344	DC 24V
							Warm White	2700K	2700K	1406	
							Warm White	3000K	3000K	1477	
							Natural White	4000K	4000K	1558	
							Standard White	6000K	/	1558	
RM 67	WW-FLS102T23XW210R-24(WCP)-UR-M-ME	90	90	100	13.09	14.40	Warm White	2700K	2700K	1116	DC 24V
Warm White							3000K	3000K	1197		
Natural White							4000K	4000K	1287		

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 $\pm 10\%$ (subject to the manufacturer's instrument test).

Test condition of above technical data:

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

WW-FLS102T23XW210X-24(WCP)-XR-ME-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
E 20	WW-FLS102T23XW210B-24(WCP)-HR-ME-EP	80	82	96	13.52	14.88	Warm White	2700K	1712	127	E	DC 24V
							Warm White	3000K	1802	133	E	
							Natural White	4000K	1861	138	D	
							Standard White	6000K	1837	136	D	
	WW-FLS102T23XW210B-24(WCP)-UR-ME-EP	90	90	100	13.52	14.88	Warm White	2700K	1451	107	F	DC 24V
							Warm White	3000K	1520	112	E	
							Natural White	4000K	1645	122	E	
							Standard White	6000K	1656	122	E	
F 65	WW-FLS102T23XW210F-24(WCP)-HR-ME-EP	80	82	96	13.52	14.88	Warm White	2700K	1667	123	E	DC 24V
							Warm White	3000K	1736	128	E	
							Natural White	4000K	1837	136	D	
							Standard White	6000K	1792	132	E	
	WW-FLS102T23XW210F-24(WCP)-UR-ME-EP	90	90	100	13.52	14.88	Warm White	2700K	1395	103	F	DC 24V
							Warm White	3000K	1475	109	F	
							Natural White	4000K	1587	117	E	
							Standard White	6000K	1600	118	E	
R 67	WW-FLS102T23XW210R-24(WCP)-HR-ME-EP	80	82	96	13.52	14.88	Warm White	2700K	1656	122	E	DC 24V
							Warm White	3000K	1725	128	E	
							Natural White	4000K	1802	133	E	
							Standard White	6000K	1792	132	E	
	WW-FLS102T23XW210R-24(WCP)-UR-ME-EP	90	90	100	13.52	14.88	Warm White	2700K	1371	101	F	DC 24V
							Warm White	3000K	1451	107	F	
							Natural White	4000K	1542	114	E	
							Standard White	6000K	1587	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".

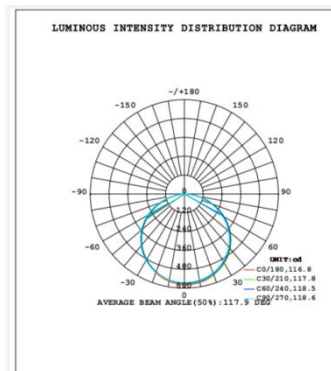
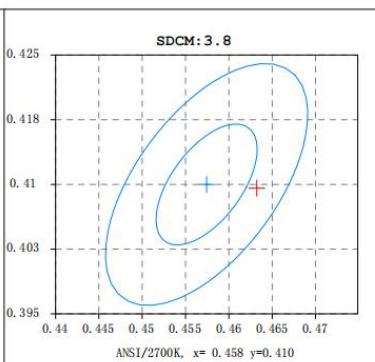
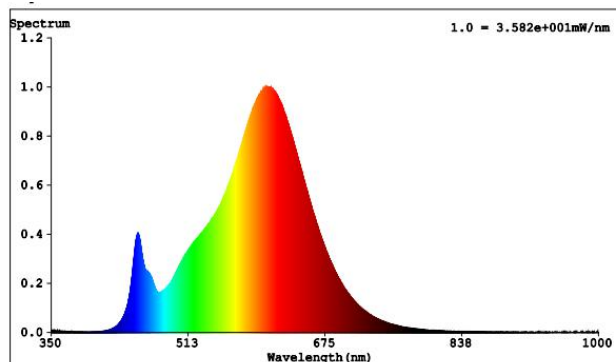
Test condition of above technical data:

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

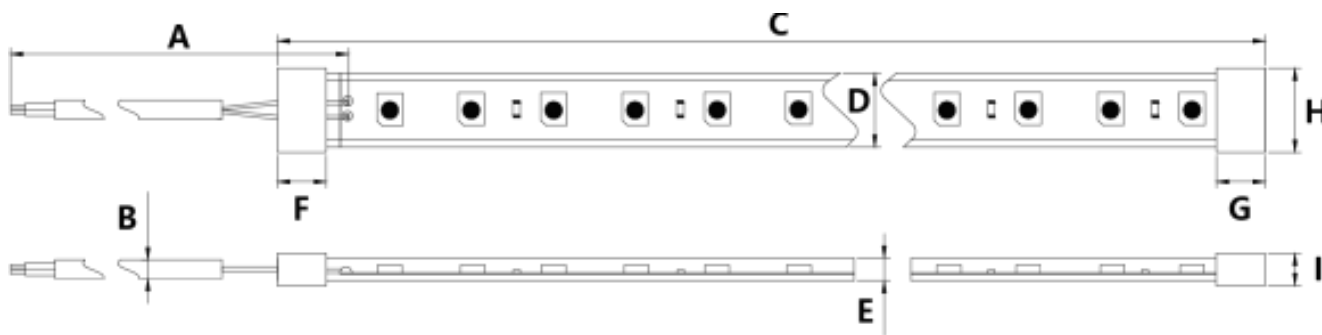
ErP Note:

- 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 ≤ 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.

Optical Test Diagram



Dimension Drawing

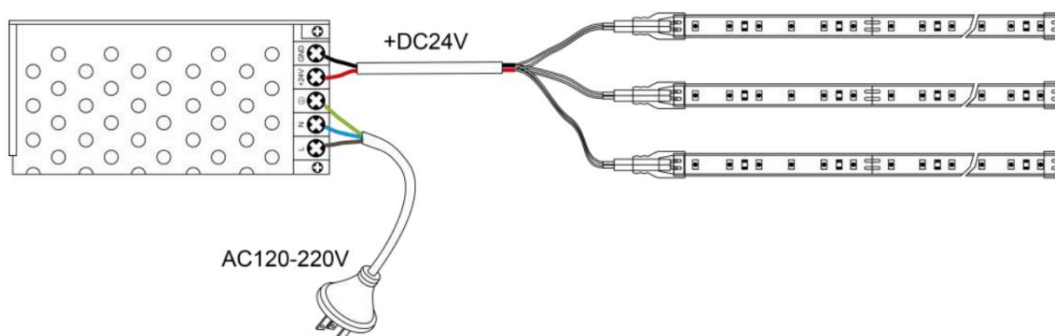


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Front cap length	G End cap length	H Cap width	I Cap thickness
S 20	300±10mm	Φ4.0±0.2mm	5000±50mm	8±0.5mm	1.2±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.32±0.02in	0.047±0.02in	/	/	/	/
S 54	300±10mm	Φ4.0±0.2mm	5000±50mm	8±0.5mm	2.3±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.32±0.02in	0.091±0.02in	/	/	/	/
K 54/65	300±10mm	Φ4.0±0.2mm	5020±50mm	9.2±0.5mm	4±0.2mm	10.5±0.5mm	10.5±0.5mm	11.2±0.5mm	6±0.5mm
	11.81±0.39in	0.16±0.01in	197.64±1.97in	0.36±0.02in	0.16±0.01in	0.41±0.02in	0.41±0.02in	0.44±0.02in	0.34±0.02in
F 65	300±10mm	Φ4.0±0.2mm	5020±50mm	10±0.5mm	4.0±0.5mm	22.5±0.5mm	10±0.5mm	12.5±0.5mm	6.0±0.5mm
	11.81±0.39in	0.16±0.01in	197.64±1.97in	0.39±0.02in	0.16±0.02in	0.89±0.02in	0.39±0.02in	0.49±0.02in	0.24±0.02in
R 67	300±10mm	Φ5.8±0.2mm	5020±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±0.008 in	197.64±1.97in	0.39±0.02in	0.20±0.02in	1.18±0.02in	0.43±0.02in	0.47±0.02in	0.28±0.02in
RW 67	300±10mm	Φ5.8±0.2mm	5020±50mm	10±0.5mm	5±0.5mm	30±0.5mm	11±0.5mm	12.0±0.5mm	7.0±0.5mm
	11.81±0.39in	0.23±0.008 in	197.64±1.97in	0.39±0.02in	0.20±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	5020±50mm	10±0.5mm	5±0.5mm	30±0.5mm	11±0.5mm	12.0±0.5mm	7.0±0.5mm
	11.81±0.39in	0.23±0.008 in	197.64±1.97in	0.39±0.02in	0.20±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



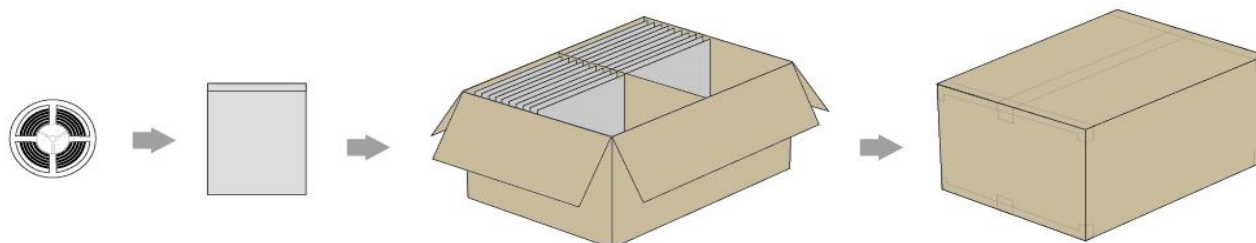
Standard Accessories

IP Level	Category	Description	Picture	Part No.	Application
B 20	/	/	/	/	/
	/	/	/	/	/
S 54	/	/	/	/	/
	/	/	/	/	/
K 54/65	/	/	/	/	/
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
F 65	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	8mm Type F
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
R 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	8mm Type R
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
RW 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	8mm Type RW
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
RM 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	8mm Type RM
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip

Optional Accessories

IP Level	Category	Description	Picture	Part No.	Density
B 20	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2B-P0W20-08	≤210LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2B-POP20-08	≤210LEDs/M
S 54	/	/	/	/	/
	/	/	/	/	/
F 65	/	/	/	/	/
	/	/	/	/	/
K 54/65	/	/	/	/	/
	/	/	/	/	/
R 67	/	/	/	/	/
	/	/	/	/	/
RW 67	/	/	/	/	/
	/	/	/	/	/
RM 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			
E 20	250*270*0.14mm	/	/	440*400*260mm	60	6.3KG ±10%	11.69 KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.748*10.236in	60	13.88Lbs ±10%	25.77Lbs ±10%	1.62ft³
S 54	250*270*0.14mm	/	/	440*400*260mm	60	9.18KG ±10%	13.61KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.748*10.236in	60	20.24Lbs ±10%	30.0Lbs ±10%	1.62ft³
F 65	250*270*0.14mm	/	/	440*400 *260mm	40	7.25KG ±10%	10.13KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24 in	40	15.95Lbs ±10%	22.29Lbs ±10%	1.62ft³
K 54/65	250*270*0.14mm	/	/	440*400*260mm	50	6.95KG ±10%	13.30KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.748*10.236 in	50	15.32Lbs ±10%	29.23Lbs ±10%	1.616ft³
R 67	270*300*0.14mm	/	/	520*370*300mm	36	10.71 KG ±10%	15.7 KG ±10%	0.06m³
	10.63*11.81*0.0056 in	/	/	20.5*14.6*11.81in	36	23.61 Lbs ±10%	34.61 Lbs ±10%	2.04ft³
RW 67	270*300*0.14mm	/	/	520*370*300mm	36	10.71KG ±10%	15.71KG ±10%	0.06m³
	10.63*11.81*0.0056 in	/	/	20.47*14.57*11.81in	36	23.61Lbs ±10%	34.63Lbs ±10%	2.04ft³
RM 67	270*300*0.14mm	/	/	520*370 *300mm	36	6.3KG ±10%	11.73KG ±10%	0.06m³
	10.63*11.81*0.0056 in	/	/	20.47*14.57 *11.81in	36	13.89 Lbs ±10%	25.86Lbs ±10%	2.04ft³


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.**