

Product Specification

DC Flexible LED Strip

2835 8LEDs/unit Series

2835 Top LED 12mm FPC 064LEDs/M

WW-FLS102T29XW064X-24(WCP)-XR-M-HE

&

WW-FLS102T29XW064X-24(WCP)-XR-M-HE-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	 F 65	 R 67	 RW 67
	Naked Strip	Silicone Dropping	Silicone Tube	Silicone Extrusion	Silicone Extrusion
	5 Years Warranty	3 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-FLS102T29XW064X-24(WCP)-XR-M-HE

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
E 20	WW-FLS102T29XW064B-24(WCP)-HR-M-HE	80	82	96	13.00	14.30	Warm White	2500K	/	1330	DC 24V
							Warm White	2700K	/	1672	
							Warm White	3000K	/	1696	
							Natural White	4000K	/	1794	
							Standard White	6000K	/	1832	
	WW-FLS102T29XW064B-24(WCP)-UR-M-HE	90	90	100	13.00	14.30	Warm White	2500K	/	1090	DC 24V
							Warm White	2700K	/	1366	
							Warm White	3000K	/	1438	
							Natural White	4000K	/	1548	
							Standard White	6000K	/	1590	
S 54	WW-FLS102T29XW064S-24(WCP)-HR-M-HE	80	82	96	13.00	14.30	Warm White	2500K	/	1250	DC 24V
							Warm White	2700K	/	1283	
							Warm White	3000K	/	1365	
							Natural White	4000K	/	1320	
							Standard White	6000K	/	1225	
	WW-FLS102T29XW064S-24(WCP)-UR-M-HE	90	90	100	13.00	14.30	Warm White	2500K	/	1025	DC 24V
							Warm White	2700K	/	1065	
							Warm White	3000K	/	1101	
							Natural White	4000K	/	1126	
							Standard White	6000K	/	1045	
F 65	WW-FLS102T29XW064F-24(WCP)-HR-M-HE	80	82	96	13.00	14.30	Warm White	2500K	/	1579	DC 24V
							Warm White	2700K	/	1645	
							Warm White	3000K	/	1665	
							Natural White	4000K	/	1770	
							Standard White	6000K	/	1800	
	WW-FLS102T29XW064F-24(WCP)-UR-M-HE	90	90	100	13.00	14.30	Warm White	2500K	/	1046	DC 24V
							Warm White	2700K	/	1350	
							Warm White	3000K	/	1420	
							Natural White	4000K	/	1530	
							Standard White	6000K	/	1560	
R 67	WW-FLS102T29XW064R-24(WCP)-HR-M-HE	80	82	96	13.00	14.30	Warm White	2500K	/	1515	DC 24V
							Warm White	2700K	/	1630	
							Warm White	3000K	/	1650	
							Natural White	4000K	/	1750	
							Standard White	6000K	/	1780	
	WW-FLS102T29XW064R-24(WCP)-UR-M-HE	90	90	100	13.00	14.30	Warm White	2500K	/	1014	DC 24V
							Warm White	2700K	/	1340	
							Warm White	3000K	/	1400	
							Natural White	4000K	/	1500	
							Standard White	6000K	/	1540	
RW 67	WW-FLS102T29XW064R-24(WCP)-HR-W-M-HE	80	82	96	13.00	14.30	Warm White	2500K	/	1237	DC 24V
							Warm White	2700K	/	1297	
							Warm White	3000K	/	1380	
							Natural White	4000K	/	1445	
							Standard White	6000K	/	1430	
	WW-FLS102T29XW064R-24(WCP)-UR-W-M-HE	90	90	100	13.00	14.30	Warm White	2500K	/	1014	DC 24V
							Warm White	2700K	/	1076	
							Warm White	3000K	/	1113	
							Natural White	4000K	/	1233	
							Standard White	6000K	/	1219	

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-FLS102T29XW064X-24(WCP)-XR-M-HE-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-FLS102T29XW064B-24(WCP)-HR-M-HE-EP	80	82	96	12.57	13.83	Warm White	2700K	1720	137	D	DC 24V
							Warm White	3000K	1770	141	D	
							Natural White	4000K	1807	144	D	
							Standard White	6000K	1882	150	D	
	WW-FLS102T29XW064B-24(WCP)-UR-M-HE-EP	90	90	100	12.57	13.83	Warm White	2700K	1384	110	E	DC 24V
							Warm White	3000K	1483	118	E	
							Natural White	4000K	1593	127	E	
							Standard White	6000K	1628	129	E	
F 65	WW-FLS102T29XW064F-24(WCP)-HR-M-HE-EP	80	82	96	12.57	13.83	Warm White	2700K	1645	131	E	DC 24V
							Warm White	3000K	1664	132	E	
							Natural White	4000K	1746	139	D	
							Standard White	6000K	1820	145	D	
	WW-FLS102T29XW064F-24(WCP)-UR-M-HE-EP	90	90	100	12.57	13.83	Warm White	2700K	1326	105	F	DC 24V
							Warm White	3000K	1427	114	E	
							Natural White	4000K	1554	124	E	
							Standard White	6000K	1565	125	E	
R 67	WW-FLS102T29XW064R-24(WCP)-HR-M-HE-EP	80	82	96	12.57	13.83	Warm White	2700K	1680	134	E	DC 24V
							Warm White	3000K	1692	135	E	
							Natural White	4000K	1792	143	D	
							Standard White	6000K	1846	147	D	
	WW-FLS102T29XW064R-24(WCP)-UR-M-HE-EP	90	90	100	12.57	13.83	Warm White	2700K	1352	108	F	DC 24V
							Warm White	3000K	1445	115	E	
							Natural White	4000K	1567	125	E	
							Standard White	6000K	1591	127	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".

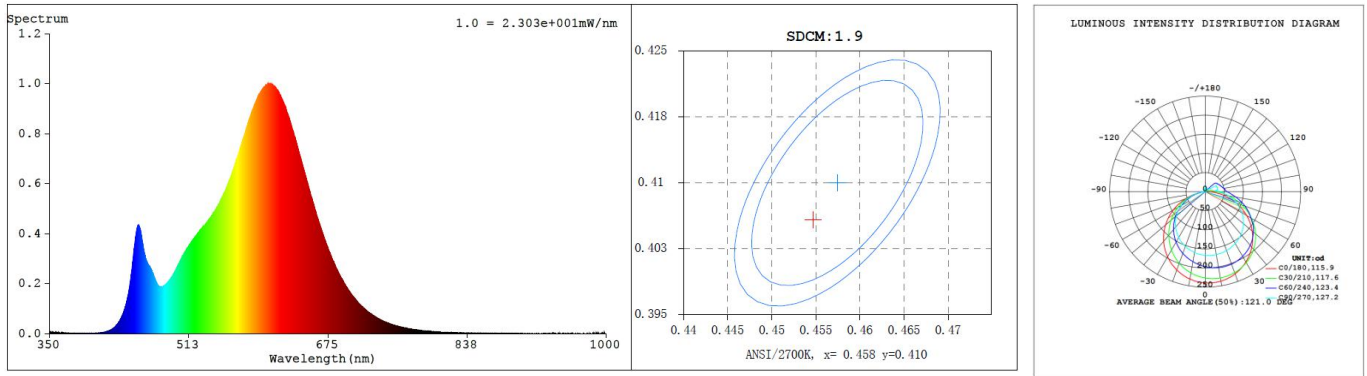
Test condition of above technical data:

- Surrounding temperature: 26 °C.
- Test after 15 mins turned on.

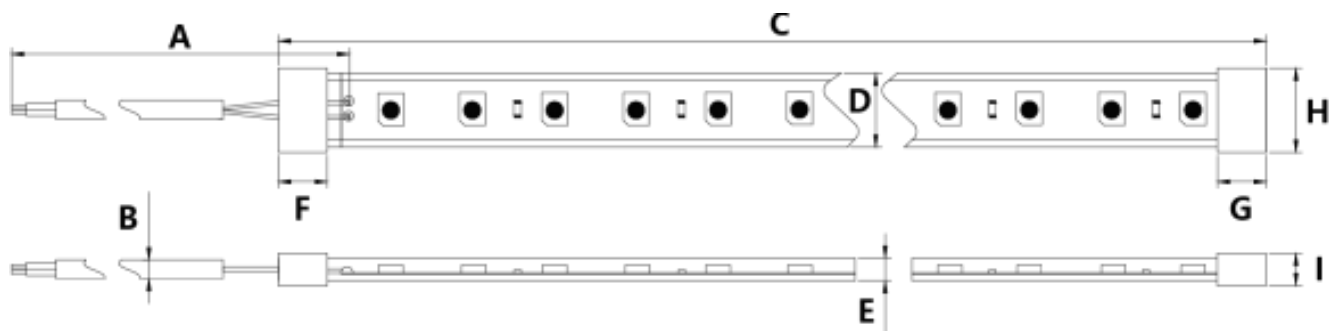
ErP Note:

- 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.

Optical Test Diagram



Dimension Drawing

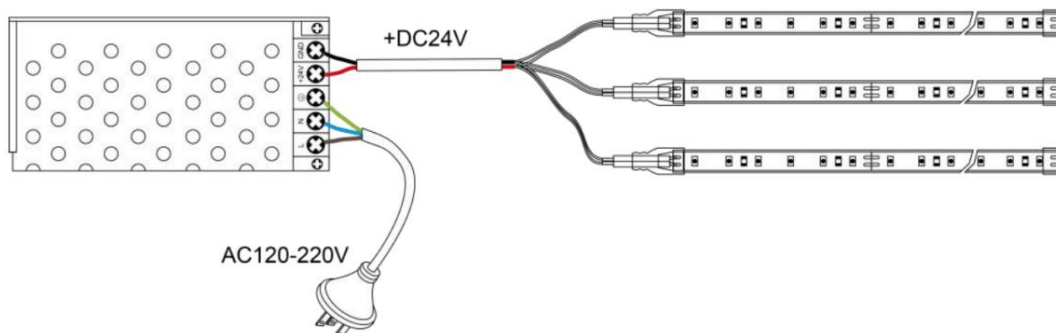


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Front cap length	G End cap length	H Cap width	I Cap thickness
E 20	300±10mm	Φ6.0±0.2mm	5000±50mm	12±0.5mm	1.2±0.5mm	/	/	/	/
	11.81±0.39in	0.23±0.1in	196.85±1.97in	0.47±0.02in	0.047±0.02in	/	/	/	/
F 65	300±10mm	Φ6.0±0.2mm	5000±50mm	14.5±0.5mm	4±0.5mm	10±0.5mm	10±0.5mm	16.5±0.5mm	6±0.5mm
	11.81±0.39in	0.23±0.1in	196.85±1.97in	0.57±0.02in	0.16±0.02in	0.39±0.02in	0.39±0.02in	0.649±0.02in	0.236±0.02in
S 54	300±10mm	Φ6.0±0.2mm	5000±50mm	12±0.5mm	2.2±0.5mm	/	/	/	/
	11.81±0.39in	0.23±0.1in	196.85±1.97in	0.473±0.02in	0.087±0.02in	/	/	/	/
R 67	300±10mm	Φ5.8±0.2mm	5020±50mm	12±0.5mm	4.5±0.5mm	30±0.5mm	10±0.5mm	16±0.5mm	6.5±0.5mm
	11.81±0.39in	0.23±0.008 in	197.64±1.97in	0.47±0.02in	0.178±0.02in	1.18±0.02in	0.39±0.02in	0.63±0.02in	0.256±0.02in
RW 67	300±10mm	Φ5.8±0.2mm	5020±50mm	12±0.5mm	4.5±0.5mm	30±0.5mm	10±0.5mm	16±0.5mm	6.5±0.5mm
	11.81±0.39in	0.23±0.008 in	197.64±1.97in	0.47±0.02in	0.178±0.02in	1.18±0.02in	0.39±0.02in	0.63±0.02in	0.256±0.02in







Remarks:

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







Circuit Diagram



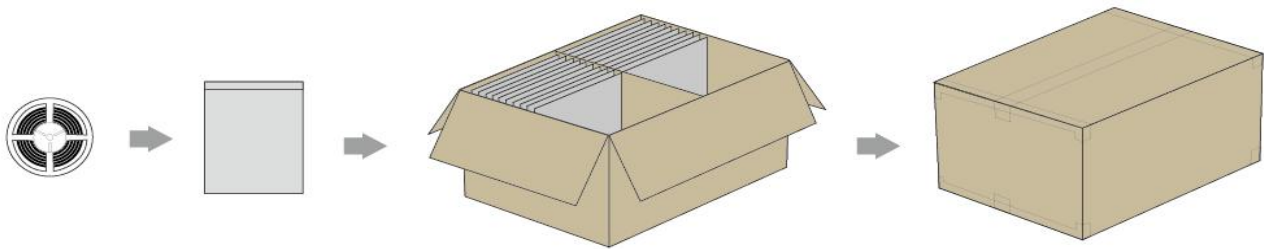
Standard Accessories

IP Level	Category	Description	Picture	Part No.	Application
E 20	/	/	/	/	/
	/	/	/	/	/
F 65	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW(14mm)	12mm Type F
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
S 54	/	/	/	/	/
	/	/	/	/	/
R 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW(14mm)	12mm Type R
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
RW 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW(14mm)	12mm Type RW
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip

Optional Accessories

IP Level	Category	Description	Picture	Part No.	Density
E 20	Strip to wire Connector	2PIN Strip to strip Connector		WW-F2B-PWP2O-12-0-18	≤240LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		A.F2B-POP2O-12-00	≤240LEDs/M
F 65	/	/	/	/	/
S 54	/	/	/	/	/
F 65	/	/	/	/	/
R 67	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2R-SWO2T-12	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2R-SOP2T-12	≤120LEDs/M
RW 67	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2R-SWO2T-12	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2R-SOP2T-12	≤120LEDs/M

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	50	8.6KG ±10%	9.923 KG ±10%	0.04576 m ³
	9.84*10.63*0.0056 in	/	/	17.32*15.748 *10.236 in	50	18.96Lbs ±10%	21.88Lbs ±10%	1.616 ft ³
F 65	250*270*0.14mm	/	/	440*400 *260mm	36	10.66KG ±10%	11.99 KG ±10%	0.04576 m ³
	9.84*10.63*0.0056 in	/	/	17.32*15.748 *10.236 in	36	23.5Lbs ±10%	26.44Lbs ±10%	1.616 ft ³
S 54	250*270*0.14mm	/	/	440*400 *260mm	40	8.315KG ±10%	13.18KG ±10%	0.04576 m ³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24 in	40	18.33Lbs ±10%	29.06Lbs ±10%	1.616 ft ³
R 67	270*300*0.14mm	/	/	L520*W370*H300mm	36	11.916KG ±10%	22.84KG ±10%	0.0578m ³
	10.63*11.81*0.0056 in	/	/	20.5*14.6*11.81in	36	26.27Lbs ±10%	50.354Lbs ±10%	2.04ft ³
RW 67	270*300*0.14mm	/	/	L520*W370*H300mm	36	11.916KG ±10%	22.84KG ±10%	0.0578m ³
	10.63*11.81*0.0056 in	/	/	20.5*14.6*11.81in	36	26.27Lbs ±10%	50.354Lbs ±10%	2.04ft 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.**