

Product Specification

DC Flexible LED Strip

Multi color RGBW Series

5050RGBW Top LED 12mm FPC 60LEDs/M

WW-FLS103T55FX060X-24(WCP)-HR

&

WW-FLS103T55FX060X-24(WCP)-HR-EP



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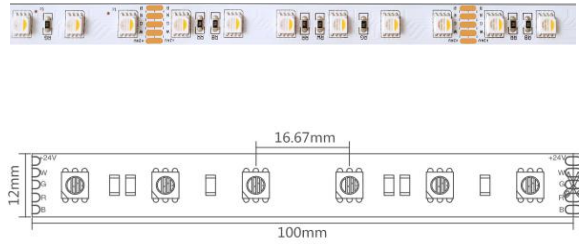
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



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<p>Product Features</p> <ul style="list-style-type: none"> • High quality FPC, authentic 3M tape; • Self-encapsulated design 5050 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	 F 65
	Naked Strip	Silicone Tube
	3 Years Warranty	3 Years Warranty

ErP Waterproof Type	 B 20	 F 65	 R 67
	Naked Strip	Silicone Tube	Silicone Extrusion
	3 Years Warranty	3 Years Warranty	3 Years Warranty

WW-FLS103T55FX060X-24(WCP)-HR

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-FLS103T55FW060B-24(WCP)-HR	80	80	96	16.32	19.6	RGB+ Warm White	RGB+ 2300-2600K	/	570	DC 24V
	RGB+ Warm White						RGB+ 2600-2900K	/	570		
	RGB+ Warm White						RGB+ 2900-3200K	/	570		
	RGB+ Natural White						RGB+ 3700-4250K	/	685		
	RGB+ Standard White						RGB+ 5700-6500K	/	685		
F 65	WW-FLS103T55FW060F-24(WCP)-HR	80	82	96	16.32	19.6	RGB+ Warm White	RGB+ 2300-2600K	/	547	DC 24V
	RGB+ Warm White						RGB+ 2600-2900K	/	547		
	RGB+ Warm White						RGB+ 2900-3200K	/	547		
	RGB+ Natural White						RGB+ 3700-4250K	/	658		
	RGB+ Standard White						RGB+ 5700-6500K	/	658		

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 ±20% (subject to the manufacturer's instrument test).

Test condition of above technical data:

- Surrounding temperature: 26°C.
- Test while turning on.
- The above technical data, including typical power are based on the test of 0.5m.

WW-FLS103T55FX060X-24(WCP)-HR-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-FLS103T55FX060B-24(WCP)-HR-EP	/	/	/	3.6	4.32	RED	625-635nm	88	24	/	DC 24V
	WW-FLS103T55FX060B-24(WCP)-HR-EP	/	/	/	4.46	5.35	GREEN	515-525nm	272	61	/	
	WW-FLS103T55FX060B-24(WCP)-HR-EP	/	/	/	4.61	5.53	BLUE	465-475nm	68	15	/	
	WW-FLS103T55FW060B-24(WCP)-HR-EP	80	82	96	5.5	6.05	Warm White	2500K	410	75	G	
	WW-FLS103T55FW060B-24(WCP)-HR-EP						Warm White	2700K	410	75	G	
	WW-FLS103T55FW060B-24(WCP)-HR-EP						Warm White	3000K	440	80	G	
	WW-FLS103T55FN060B-24(WCP)-HR-EP						Natural White	4000K	440	80	G	
WW-FLS103T55FS060B-24(WCP)-HR-EP	Standard White						6000K	480	87	F		
F 65	WW-FLS103T55FX060F-24(WCP)-HR-EP	/	/	/	3.6	4.32	RED	625-635nm	82	23	/	DC 24V
	WW-FLS103T55FX060F-24(WCP)-HR-EP	/	/	/	4.46	5.35	GREEN	515-525nm	262	59	/	
	WW-FLS103T55FX060F-24(WCP)-HR-EP	/	/	/	4.61	5.53	BLUE	465-475nm	66	14	/	
	WW-FLS103T55FW060F-24(WCP)-HR-EP	80	82	96	5.5	6.05	Warm White	2500K	392	71	G	
	WW-FLS103T55FW060F-24(WCP)-HR-EP						Warm White	2700K	392	71	G	
	WW-FLS103T55FW060F-24(WCP)-HR-EP						Warm White	3000K	430	78	G	
	WW-FLS103T55FN060F-24(WCP)-HR-EP						Natural White	4000K	436	79	G	
WW-FLS103T55FS060F-24(WCP)-HR-EP	Standard White						6000K	474	86	F		
R 67	WW-FLS103T55FX060R-24(WCP)-HR-EP	/	/	/	3.6	4.32	RED	625-635nm	82	23	/	DC 24V
	WW-FLS103T55FX060R-24(WCP)-HR-EP	/	/	/	4.46	5.35	GREEN	515-525nm	260	58	/	
	WW-FLS103T55FX060R-24(WCP)-HR-EP	/	/	/	4.61	5.53	BLUE	465-475nm	66	14	/	
	WW-FLS103T55FW060R-24(WCP)-HR-EP	80	82	96	5.5	6.05	Warm White	2500K	392	71	G	
	WW-FLS103T55FW060R-24(WCP)-HR-EP						Warm White	2700K	392	71	G	
	WW-FLS103T55FW060R-24(WCP)-HR-EP						Warm White	3000K	422	76	G	
	WW-FLS103T55FN060R-24(WCP)-HR-EP						Natural White	4000K	434	79	G	
WW-FLS103T55FS060R-24(WCP)-HR-EP	Standard White						6000K	470	85	F		

Remarks:

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

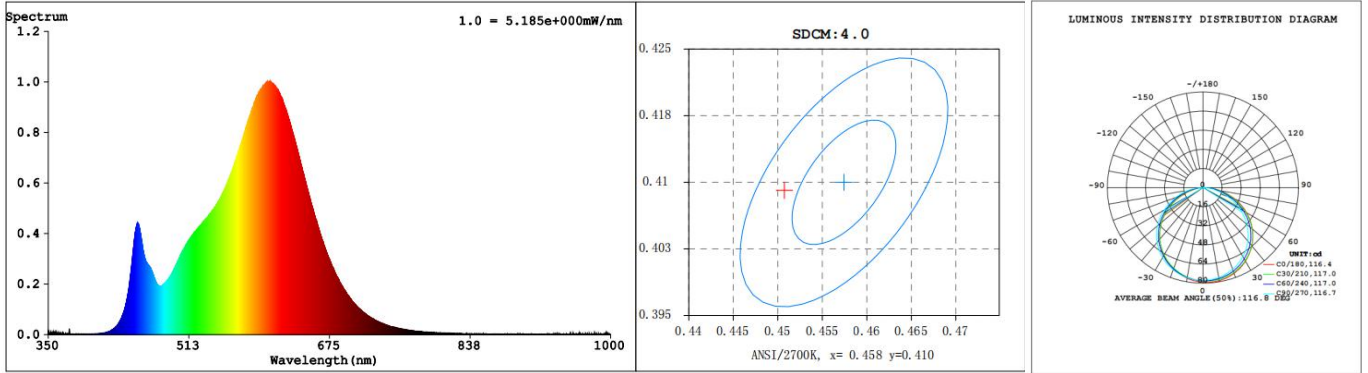
Test condition of above technical data:

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

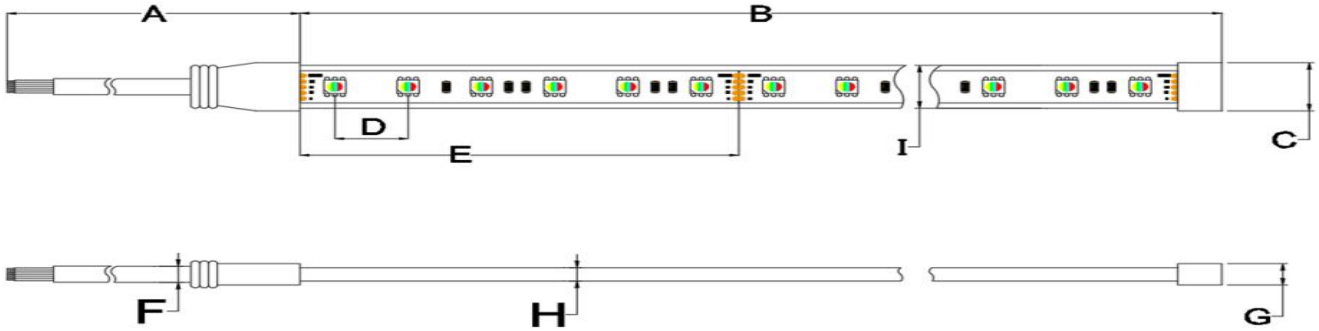
ErP Note:

- 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 \leq Pon +5% ;
 - Measured lumen \geq Useful luminous flux -10%;
 - Measured CRI \geq Declared CRI-2
- The above technical data, including typical power are based on the test of 0.5m.
- The tolerance range of Power and Luminous Flux is $\pm 20\%$ (RGB Light) (subject to the manufacturer's instrument test).

Optical Test Diagram



Dimension Drawing

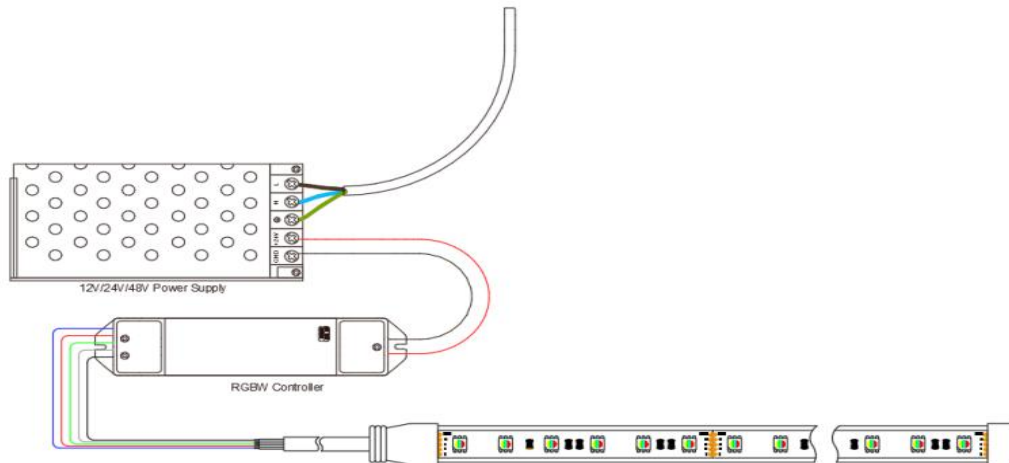


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Cap thickness	G End cap length	H Cap width
E 20	300±10mm	5000±50mm	/	16.7±0.2mm	100±0.2mm	6±0.2mm	/	2.1±0.5mm
	11.81±0.39in	196.85±1.97in	/	0.66±0.01in	3.94±0.01in	0.24±0.01in	/	0.083±0.02in
F 65	300±10mm	5020±50mm	16.5±0.5mm	16.7±0.2mm	100±0.2mm	6±0.2mm	6±0.5mm	4.0±0.5mm
	11.81±0.39in	197.64±1.97in	0.65±0.02in	0.66±0.01in	3.94±0.01in	0.24±0.01in	0.24±0.02in	0.16±0.02in
R 67	300±10mm	5020±50mm	16±0.5mm	16.7±0.2mm	100±0.2mm	6±0.2mm	6.5±0.5mm	4.5±0.5mm
	11.81±0.39in	197.64±1.97in	0.63±0.02in	0.66±0.01in	3.94±0.01in	0.24±0.01in	0.26±0.02in	0.18±0.02in



Remarks:

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




Circuit Diagram



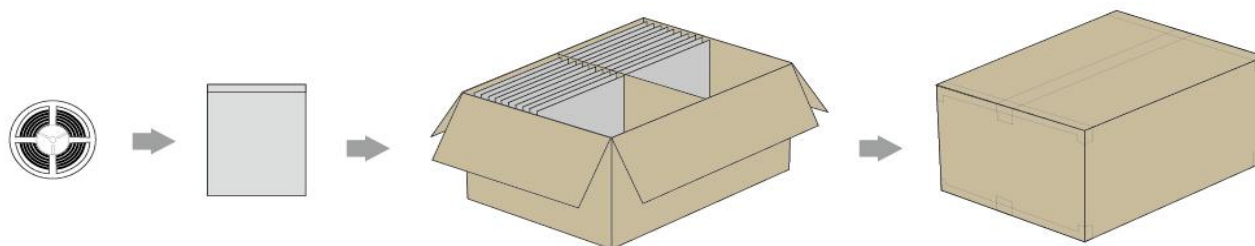
Standard Accessories

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

Optional Accessories

IP Grade	Category	Description	Picture	Part No.	Application
B 20	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS201B-2FS5(12MM)	≤84LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS201B-2DD5(12MM)	≤84LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS201B-2FD5(12MM)	≤84LEDs/M

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	5.8 KG ±10%	9.75 KG ±10%	0.045m³
	9.84*10.63*0.0055 in	/	/	17.32*15.75 *10.24 in	50	12.78 Lbs ±10%	20.48 Lbs ±10%	1.62ft³
F 65	250*270*0.14mm	/	/	440*400 *260mm	36	9.4 KG ±10%	12.64 KG ±10%	0.045m³
	9.84*10.63*0.0055 in	/	/	17.32*15.75 *10.24 in	36	20.70 Lbs ±10%	27.84 Lbs ±10%	1.62ft³
R 67	250*270*0.14mm	/	/	440*400 *260mm	36	12.74 KG ±10%	15.95 KG ±10%	0.045m³
	9.84*10.63*0.0055 in	/	/	17.32*15.75 *10.24 in	36	28.06 Lbs ±10%	35.13 Lbs ±10%	1.62ft³

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.**