

Product Specification

Flexible LED Strip

COB Series

12mm FPC COB 672LEDs/m RGBW Flexible LED Strip

WW-FLS103T89FX672X-24(WCP)-UR
&
WW-FLS103T89FX672X-24(WCP)-UR-EP



HK Office :

Unit 1901, 19th Floor, NanYang Plaza, No. 57 Hung To Road
Kwun Tong, Kowloon, Hong Kong

China Factory :

Zhiyang Science and Technology Park, 10 Zhiyang Road, Zhangge,
Fucheng Street, Longhua District, Shenzhen, Guangdong, China

Tel : (852) 3152 3059 (10 lines)

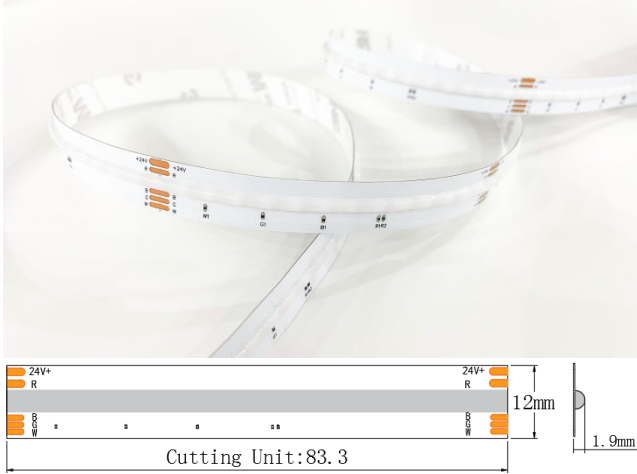
Fax : (852) 3152 3039









Tel : (86) 755 8601 9190



Fax : (86) 755 8601 9197

<p>Product Features</p> <ul style="list-style-type: none"> • High quality FPC, authentic 3M tape; • Dot free; • Min. Bending Diameter: $\Phi 60\text{mm}$; • Meet (EU) 2019/2020 ErP regulations • 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> <p>EN55015 EN61547 EN60598-1 EN60598-2-20 EN62493 EN62471</p>

Non - ErP Waterproof Type			
	FCOB Strip	Silicone Tube	Silicone Extrusion
	3 Years Warranty	3 Years Warranty	3 Years Warranty
ErP Waterproof Type			
	FCOB Strip	Silicone Tube	Silicone Extrusion
	3 Years Warranty	3 Years Warranty	3 Years Warranty

WW-FLS103T89FX672X-24(WCP)-UR

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)	Typ. Luminous Flux Lm/m(39.37in)	Beam Angle (°, 1/2 θ)	Rated voltage
E 20	WW-FLS103T89FW672B-24(WCP)-UR	90	90	100	RGBW:18 R:5 G:4.4 B:3 W:5.6	RGBW:21.6 R:6 G:5.28 B:3.6 W:6.72	RGB + Warm White	RGB + 2700K	R:120 G:400 B:44 W:390	140	DC 24V
	RGB + Warm White						RGB + 3000K	R:120 G:400 B:44 W:400			
	RGB + Natural White						RGB + 4000K	R:120 G:400 B:44 W:430			
	RGB + Standard White						RGB + 6500K	R:120 G:400 B:44 W:440			
E 65	WW-FLS103T89FW672F-24(WCP)-UR	90	90	100	RGBW:18 R:5 G:4.4 B:3 W:5.6	RGBW:21.6 R:6 G:5.28 B:3.6 W:6.72	RGB + Warm White	RGB + 2700K	R:116 G:364 B:40 W:380	140	DC 24V
	RGB + Warm White						RGB + 3000K	R:116 G:364 B:40 W:390			
	RGB + Natural White						RGB + 4000K	R:116 G:364 B:40 W:420			
	RGB + Standard White						RGB + 6500K	R:116 G:364 B:40 W:430			
E 67	WW-FLS103T89FW672R-24(WCP)-UR	90	90	100	RGBW:18 R:5 G:4.4 B:3 W:5.6	RGBW:21.6 R:6 G:5.28 B:3.6 W:6.72	RGB + Warm White	RGB + 2700K	R:116 G:364 B:40 W:380	140	DC 24V
	RGB + Warm White						RGB + 3000K	R:116 G:364 B:40 W:390			
	RGB + Natural White						RGB + 4000K	R:116 G:364 B:40 W:420			
	RGB + Standard White						RGB + 6500K	R:116 G:364 B:40 W:430			

Remarks:

- The typ.Luminous flux tolerance range is ±20%(subject to the manufacturer's instrument test).

Test condition of above technical data:

- Surrounding temperature: 26 ℃.
- Test while turned on.

WW-FLS103T89FX672X-24(WCP)-UR-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)	Typ. Luminous Flux LM/M(39.37in)	Lumen/watt	EEC	Beam Angle (°,1/2 θ)	Rated voltage
B 20	WW-FLS103T89FX672B-24(WCP)-UR-EP	/	/	/	5	6	Red	615-625nm	120	24	/	140	24
	WW-FLS103T89FX672B-24(WCP)-UR-EP	/	/	/	4.4	5.28	Green	520-530nm	400	90.9	/		
	WW-FLS103T89FX672B-24(WCP)-UR-EP	/	/	/	3	3.6	Blue	455-465nm	44	14.7	/		
	WW-FLS103T89FW672B-24(WCP)-UR-EP	90	90	100	6	6.6	Warm White	2700K	400	66.7	G		
	WW-FLS103T89FW672B-24(WCP)-UR-EP				6	6.6	Warm White	3000K	410	68.3	G		
	WW-FLS103T89FN672B-24(WCP)-UR-EP				6	6.6	Natural White	4000K	440	73.3	G		
	WW-FLS103T89FS672B-24(WCP)-UR-EP				6	6.6	Standard White	6500K	450	75	G		
F 65	WW-FLS103T89FX672F-24(WCP)-UR-EP	/	/	/	5	6	Red	615-625nm	116	23.2	/	140	24
	WW-FLS103T89FX672F-24(WCP)-UR-EP	/	/	/	4.4	5.28	Green	520-530nm	364	82.7	/		
	WW-FLS103T89FX672F-24(WCP)-UR-EP	/	/	/	3	3.6	Blue	455-465nm	40	13.3	/		
	WW-FLS103T89FW672F-24(WCP)-UR-EP	90	90	100	6	6.6	Warm White	2700K	390	65	G		
	WW-FLS103T89FW672F-24(WCP)-UR-EP				6	6.6	Warm White	3000K	400	66.7	G		
	WW-FLS103T89FN672F-24(WCP)-UR-EP				6	6.6	Natural White	4000K	430	71.7	G		
	WW-FLS103T89FS672F-24(WCP)-UR-EP				6	6.6	Standard White	6500K	440	73.3	G		
R 67	WW-FLS103T89FX672R-24(WCP)-UR-EP	/	/	/	5	6	Red	615-625nm	116	23.2	/	140	24
	WW-FLS103T89FX672R-24(WCP)-UR-EP	/	/	/	4.4	5.28	Green	520-530nm	364	82.7	/		
	WW-FLS103T89FX672R-24(WCP)-UR-EP	/	/	/	3	3.6	Blue	455-465nm	40	13.3	/		
	WW-FLS103T89FW672R-24(WCP)-UR-EP	90	90	100	6	6.6	Warm White	2700K	390	65	G		
	WW-FLS103T89FW672R-24(WCP)-UR-EP				6	6.6	Warm White	3000K	400	66.7	G		
	WW-FLS103T89FN672R-24(WCP)-UR-EP				6	6.6	Natural White	4000K	430	71.1	G		
	WW-FLS103T89FS672R-24(WCP)-UR-EP				6	6.6	Standard White	6500K	440	73.3	G		

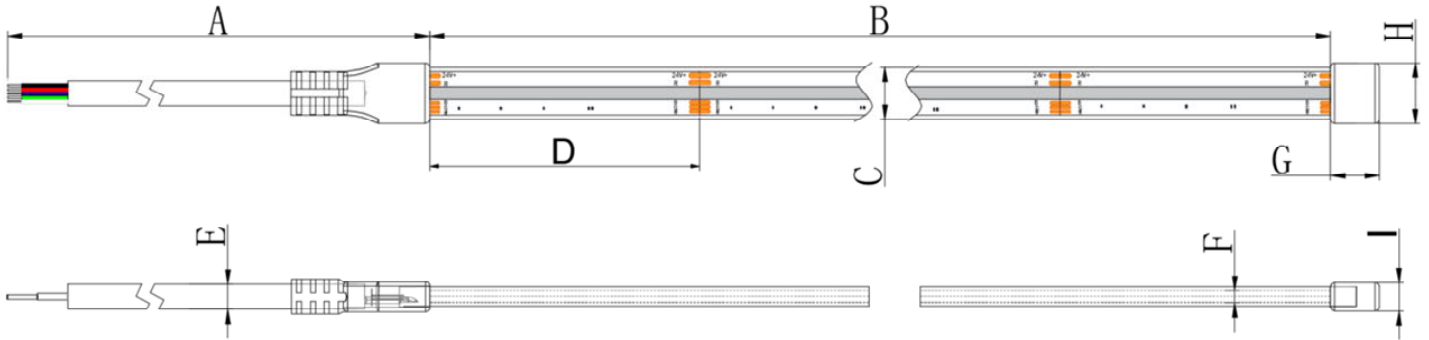
Test condition of above technical data:

- 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 following requirements must be met:
- Measured powers ≤ P_{on}+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.
- The tolerance range of Power and Luminous Flux is ±20% (R,G,B Light) (Subject to the manufacturer's instrument test).

Dimension Drawing



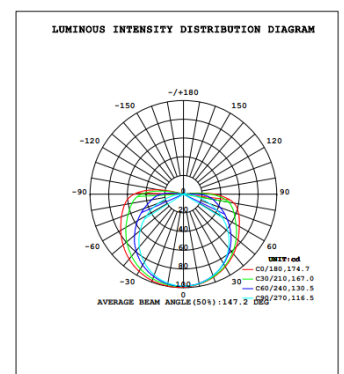
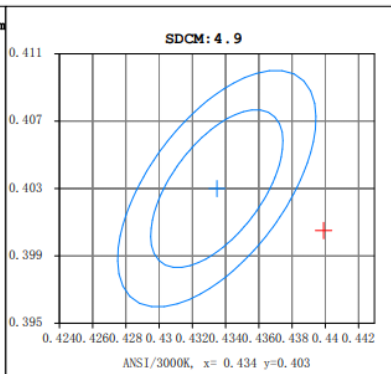
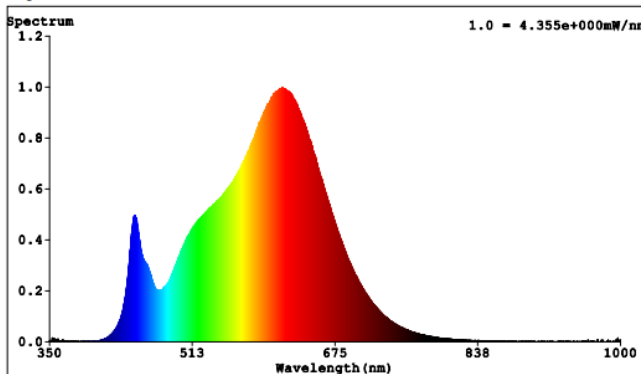
IP Grade	A. Power cable length	B. Strip length	C. Strip width	D. Unit Length	E. Power cable diameter	F.Strip thickness	G. End cap length	H. End cap width	I. End cap thickness
B 20	300±10mm	5000±50mm	12±0.5mm	83.33±1mm	Φ6.0±0.5mm	1.9±0.5mm	/	/	/
	11.8±0.39in	196.85±1.97in	0.47±0.02in	3.28±0.04in	Φ0.236±0.02in	0.074±0.020in	/	/	/
F 65	300±10mm	5020±50mm	14±1mm	83.33±1mm	Φ6.0±0.5mm	Φ4.0±1mm	12±1mm	16±1mm	Φ6.0±1mm
	11.8±0.39in	197.64±1.97in	0.55±0.02in	3.28±0.04in	Φ0.236±0.02in	Φ0.157±0.04in	0.55±0.04in	0.63±0.04in	Φ0.236±0.04in
R 67	300±10mm	5020±50mm	14±1mm	83.33±1mm	Φ6.0±0.5mm	Φ4.5±1mm	12±1mm	16±1mm	Φ6.5±1mm
	11.8±0.39in	197.64±1.97in	0.55±0.02in	3.28±0.04in	Φ0.236±0.02in	Φ0.177±0.04in	0.55±0.04in	0.63±0.04in	Φ0.256±0.04in

Remarks :

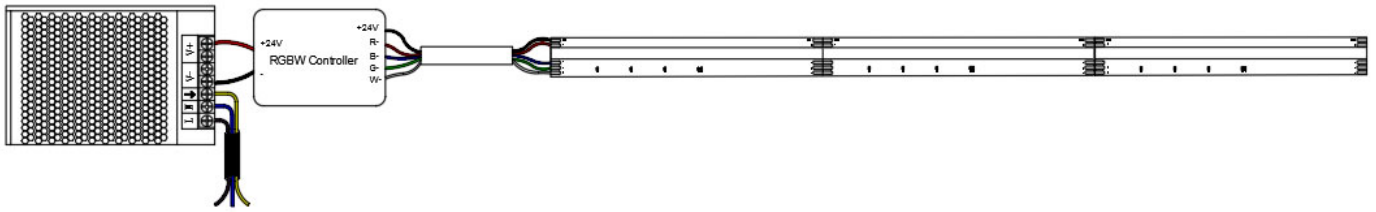
- If you need further information, please contact our sales account manager..

Optical Test Diagram

Spectrum



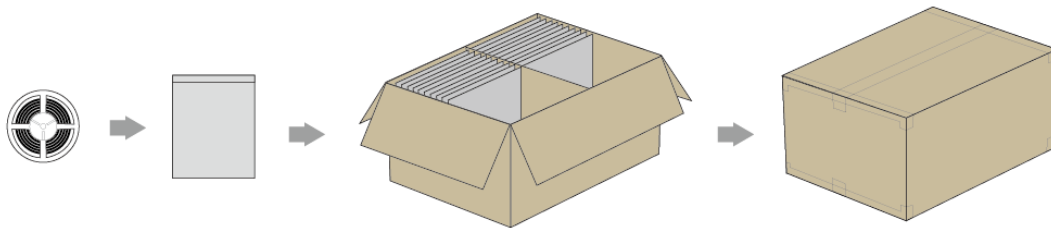
Circuit Diagram



Standard Accessories

IP Grade	Category	Description	Picture	Part No.	Application
F 65 R 67	Connection Accessories	Front cap + End cap + Cable		WW-FLS103F-CW (RGBW)	Waterproof strip
	Installation Accessories	Installation: Buckle +Screws		WW-FLS102JJA-MC	

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	4.77 KG ±10%	8.23 KG ±10%	0.04576 m ³
	9.84*10.63*0.0055in	/	/	17.32*15.75 *10.24in	50	10.52 lb ±10%	18.14 lb ±10%	1.62ft ³
F 65	250*270*0.14mm	/	/	440*400 *260mm	36	8.4 KG ±10%	11.5 KG ±10%	0.045m ³
	9.84*10.63*0.0055 in	/	/	17.32*15.75 *10.24 in	36	18.52 Lbs ±10%	25.35 Lbs ±10%	1.62ft ³
R 67	270*300*0.14mm	/	/	520*370*300mm	36	11.8KG ±10%	14.95KG ±10%	0.0577 m ³
	10.63*11.81*0.0055 in	/	/	20.47*14.57*11.81mm	36	26.01 Lbs ±10%	32.96 Lbs ±10%	2.037ft ³

Remarks :

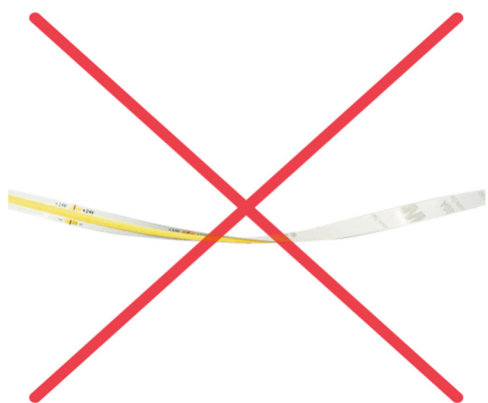
- Please contact our sales account manager for customized package (color box, blister etc.)



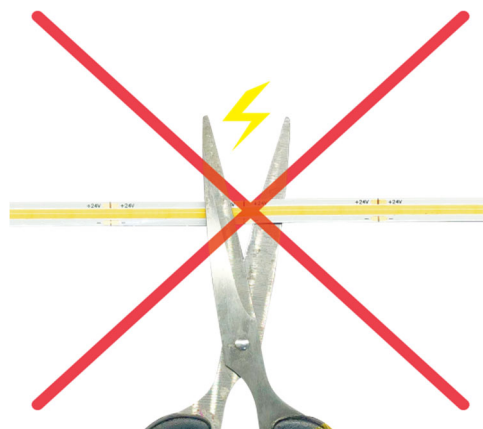
In the process of product installation and use, it is forbidden to knot



In the process of product installation and use, it is forbidden to wind













In the process of product installation and use, it is forbidden to twist




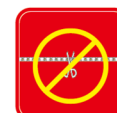















In the process of product installation and use, it is forbidden to cut


1. In the process of product installation and use, it is forbidden to reinstall and use.
2. It is forbidden to put the product back into the reel after removed from it.


 **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.**