

# **Product Specification**

# Flexible LED Strip **COB Series**

10mm FPC COB 528LEDs/M IP20 Flexible LED Strip WW-FLS102T83XW528X-24(WCP)-UR WW-FLS102T83XW528X-24(WCP)-UR-EP













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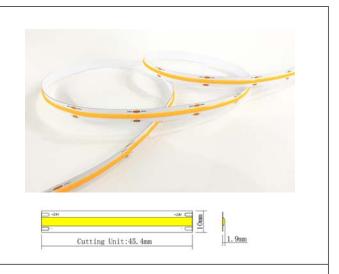
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#### **Product Features**

- High quality FPC, authentic 3M tape;
- 2700/3000/4000/6000K four color temperature are available for selection;
- Dot free
- Warranty: 5 Years;
- Min. Bending Diameter: Ф60mm;
- Meet (EU) 2019/2020 ErP regulations
- •Max.length(M):5M



#### **Technology info**

• Lighting Technology: LED

• DLS or NDLS: NDLS

• MLS or NMLS: NMLS

#### **Certification Standards**

EN55015:2019

EN61547:2009

EN60598-1:2015

EN60598-2-20:2015

EN62493:2015

EN62471:2008

Non-ErP Waterproof	B 20	<b>a</b> 65	R 67		
Туре	Naked Strip	Silicone Tube	Silicone Extrusion		
	5 Years Warranty	5 Years Warranty	5 Years Warranty		
ErP	₽ 20	<b>■</b> 85	R 67		
Waterproof Type	Naked Strip	Silicone Tube	Silicone Extrusion		
	5 Years Warranty	5 Years Warranty	5 Years Warranty		



### WW-FLS102T83XW528X-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
	WW-FLS102T83WW528B- 24(WCP)-UR					5.72	Warm White	2700K	480	- 140	
B 20	WW-FLS102T83WW528B- 24(WCP)-UR	90	90	100	5.2		Warm White	3000K	510		
20	WW-FLS102T83NW528B- 24(WCP)-UR	90	90	100	5.2		Natural White	4000K	550		DC 24V
	WW-FLS102T83SW528B- 24(WCP)-UR						Standard White	6000K	590		
	WW-FLS102T83WW528F- 24(WCP)-UR	- 90		100	5.2	5.72	Warm White	2700K	460	- 140	DC 24V
E 65	WW-FLS102T83WW528F- 24(WCP)-UR						Warm White	3000K	490		
<b>= 60</b>	WW-FLS102T83NW528F- 24(WCP)-UR		90				Natural White	4000K	520		
	WW-FLS102T83SW528F- 24(WCP)-UR						Standard White	6000K	560		
	WW-FLS102T83WW528R- 24(WCP)-UR					5.72	Warm White	2700K	460		
<b>267</b>	WW-FLS102T83WW528R- 24(WCP)-UR	90	90	100	5.0		Warm White	3000K	490	140	DC 24V
R 67	WW-FLS102T83NW528R- 24(WCP)-UR	90	90	100	5.2		Natural White	4000K	520		
	WW-FLS102T83SW528R- 24(WCP)-UR						Standard White	6000K	560		

- ullet The typ.Luminous flux tolerance range is  $\pm 10\%$  (subject to the manufacturer's instrument test).
- •\* Indicates that SDCM3 is optional in the B type strip, and the suffix "-3S" needs to be added at the end of the product model No.

Test condition of above technical data:

- Surrounding temperature: 26  $^{\circ}$ C.
- Test while turned on.



### WW-FLS102T83XW528X-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(n m)*	Typ. Luminous Flux LM/M(39.37in)	Lumen/watt	Energy Efficiency class	Beam Angle (°,1/2 θ)	Chromaticity Coordinate ( X,Y )	Rated voltage
	WW-FLS102T83WW528B- 24(WCP)-UR-EP						Warm White	2700K	490	87.5	F		0.4578,0.4101	DC 24V
₿ 20	WW-FLS102T83WW528B- 24(WCP)-UR-EP	90	90	100	5.6	6.16	Warm White	3000K	520	82.9	F	140	0.4339,0.4033	
- 20	WW-FLS102T83NW528B- 24(WCP)-UR-EP	90	90	100	5.0	6.16	Natural White	4000K	560	100	F	140	0.3818,0.3797	
	WW-FLS102T83SW528B- 24(WCP)-UR-EP						Standard White	6000K	600	107.1	F		0.3214,0.3360	
	WW-FLS102T83WW528F- 24(WCP)-UR-EP				5.6	6.16	Warm White	2700K	470	83.9	G		0.4578,0.4101	DC 24V
<b>a</b> 65	WW-FLS102T83WW528F- 24(WCP)-UR-EP	90	00				Warm White	3000K	500	89.3	F	- 140	0.4339,0.4033	
- OO	WW-FLS102T83NW528F- 24(WCP)-UR-EP	90	90	100			Natural White	4000K	530	94.6	F		0.3818,0.3797	
	WW-FLS102T83SW528F- 24(WCP)-UR-EP						Standard White	6000K	570	101.8	F		0.3214,0.3360	
	WW-FLS102T83WW528R- 24(WCP)-UR-EP						Warm White	2700K	470	83.9	G		0.4578,0.4101	- DC 24V
R 67	WW-FLS102T83WW528R- 24(WCP)-UR-EP	00			5.0	0.40	Warm White	3000K	500	89.3	F	440	0.4339,0.4033	
₩ 67	WW-FLS102T83NW528R- 24(WCP)-UR-EP	90	90	100	5.6	6.16	Natural White	4000K	530	94.6	F	140	0.3818,0.3797	
	WW-FLS102T83SW528R- 24(WCP)-UR-EP						Standard White	6000K	570	101.8	F		0.3214,0.3360	

#### Remarks:

• \* Indicates that SDCM3 is optional in the B type strip, and the suffix "-3S" needs to be added at the end of the product model No.

Test condition of above technical data:

- Surrounding temperature: 26  $^{\circ}$ C.
- Test after 10 mins turned on.

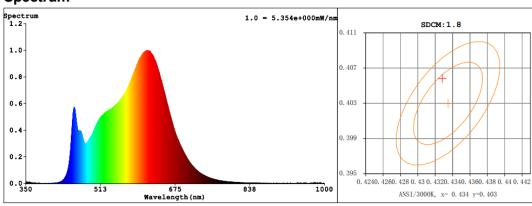
#### Note:

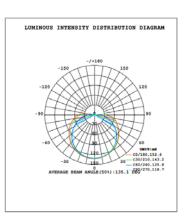
- According to the new ErP 2019/2020 regulation for each 0.5m or nearest 0.5m strip, the following requirements must be met:
- Measured power≤Pon+5%;
- Measured lumen ≥ Useful luminous flux -10%;
- Measured CRI ≥ Declared CRI-2
- The above technical data, including typical power are based on the test of 0.5m.



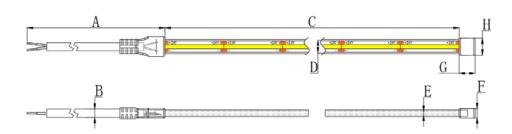
# Optical Test Diagram

#### **Spectrum**





# **Dimension Drawing**



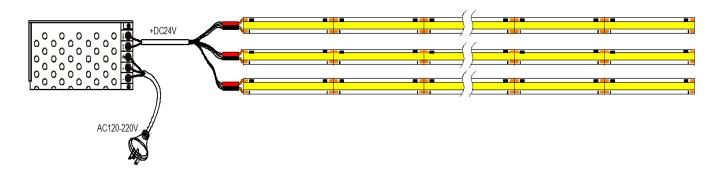
IP Grade	A. cable length	B. cable diameter	C. Strip length	D. Strip width	E. Strip thickness	E. Strip thickness	G. End cap length	H. End cap width
₿ 20	300±10mm	1.8±0.2mm	5000±50mm	10±0.5mm	1.9±0.5mm	/	1	/
	11.81±0.39in	0.07±0.008in	196.85±1.97in	0.394±0.02in	0.075±0.02in	1	1	1
<b>□</b> 65	300±10mm	φ4±0.2mm	5020±50mm	12±0.5mm	4±0.5mm	6±0.5mm	12±0.5mm	14±0.5mm
	11.81±0.39in	φ0.157±0.008in	197.6±1.97in	0.47±0.02in	0.157±0.02in	0.236±0.02in	0.472±0.02in	0.55±0.02in
R 67	315±10mm	φ6±0.2mm	5020±50mm	12±0.5mm	4.5±0.5mm	6.5±0.5mm	12±0.5mm	14±0.5mm
	12.4±0.39in	φ0.236±0.008in	197.6±1.97in	0.47±0.02in	0.177±0.02in	0.256±0.02in	0.472±0.02in	0.55±0.02in

#### Remarks:

 $\bullet$  If you need further information, please contact our sales account manager..



# Circuit Diagram



# Standard Accessories

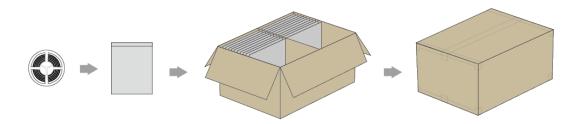
IP Grade	Category	Description	Picture	Part No.	Application	
₿ 20	/	1	1	1	1	
5 20	1	1	1	1	1	
F 65	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	10mm Type F	
	Installation Accessories	Installation Buckle+Screws	1 2 2	WW-FLS102JJA-MC	Waterproof strip	
R 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	10mm Type F	
₩ 67	Installation Accessories	Installation Buckle+Screws	2 ~ ~	WW-FLS102JJA-MC	Waterproof strip	

# **Optional Accessories**

IP Grade	Category	Description	Picture	Part No.	Density
	Quick Connector	2PIN Quick Connector	E)	WW-F2B-P0P2T-10(COB)	1
□ 20	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2B-0WP2T-10(COB)	1
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2B-PWP2T-10(COB)	1



# Packaging Diagram



# **Packaging Information**

IP Grade Bag size		Inner carton		Outer carton		N.W	G.W	Outer carton
	249 0120	Size	Reel/ctn		Reel/ctn		J	volume
■ 20	250*270*0.14mm	1	1	440*400*260mm	50	4.05 KG ±10%	7.95 KG ±10%	0.04576 m <sup>3</sup>
- 20	9.84*10.63*0.0055in	1	1	17.32*15.75 *10.24in	50	8.93 Lbs ±10%	17.53Lbs ±10%	1.616 ft <sup>3</sup>
Flor	250*270*0.14mm	1	1	440*400*260mm	40	8.44KG ±10%	13.75KG ±10%	0.04576 m <sup>3</sup>
<b>■</b> 65	9.84*10.63*0.0055in	1	1	17.32*15.75 *10.24in	40	18.61 Lbs ±10%	30.31Lbs ±10%	1.616 ft <sup>3</sup>
B 67	270*300*0.14mm	1	1	520*370 *300mm	36	10.08KG ±10%	15.87KG ±10%	0.05772m³
R 67	10.63*11.81*0.0056 in	1	1	20.47*14.57 *11.81 in	36	22.22KG ±10%	35.0KG ±10%	2.038ft³

#### 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 twist



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 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.



# Dilux 迪亞士



### Cautions



























Do not tie a knot



Do not twist



Do not cut when Recommended the continuous working time do not exceed 12 hours daily it is working

-20°C ··· +45°C ( 4"F ~ + 113"F)



Operated by professionals



















Do not pull and crash

Connected to power supply every 5 meters Power supply must be connected to ground(GND)

The minumum bending diameter > 60mm

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..

<sup>\*\*</sup> If you do not follow the above "Cautions" to operate and result in damaging the product, the factory will not accept maintenance and return.

<sup>\*\*</sup>The right of final interpretation is owned by Dilux.