

# Product Specification

## DC Flexible LED Strip

### 3528 6LEDs/unit Series

3528 Top LED 8mm FPC 120LEDs/M

WW-FLS102T35XW120X-24(WCP)-XR



HK Office :


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








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China Factory :

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Fucheng Street, Longhua District, Shenzhen, Guangdong, China

Tel : (86) 755 8601 9190  
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<p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>• High quality FPC, authentic 3M tape;</li> <li>• Self-encapsulated design 3528 LED;</li> <li>• Light source lifetime:50K hours(L70);</li> <li>• Min. Bending Diameter: Φ60mm</li> <li>• Max. length(M): 5M</li> <li>• LED SDCM≤6</li> </ul>	
<p><b>Technology info</b></p> <ul style="list-style-type: none"> <li>• Lighting Technology: LED</li> <li>• DLS or NDLS: NDLS</li> <li>• MLS or NMLS: NMLS</li> </ul>	<p><b>Certification Standards</b></p> <ul style="list-style-type: none"> <li>• EN55015:2019</li> <li>• EN61547:2009</li> <li>• EN60598-1:2015</li> <li>• EN60598-2-20:2015</li> <li>• EN62493:2015</li> <li>• EN62471:2008</li> </ul>

<b>Waterproof Type</b>	 <b>B 20</b>	 <b>S 54</b>	 <b>K 54/65</b>	 <b>F 65</b>	 <b>R 67</b>	 <b>RW 67</b>	 <b>C 68</b>	 <b>E 67</b>	 <b>D 54</b>
	Naked Strip	Silicone Dropping	Silicone Extrusion	Silicone Tube	Silicone Extrusion	Silicone Extrusion	PU Dropping +PVC Extrusion	PVC Extrusion	PU Dropping
	3 Years Warranty	3 Years Warranty	3 Years Warranty	3 Years Warranty	3 Years Warranty	3 Years Warranty	1 Years Warranty	2 Years Warranty	2 Years Warranty

WW-FLS102T35XW120X-24(WCP)-XR

Parameters

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-FLS102T35XW120B-24(WCP)-HR	80	82	96	8.73	9.60	Warm White	2500K	/	725	DC 24V
							Warm White	2700K	2700K	750	
							Warm White	3000K	3000K	770	
							Natural White	4000K	4000K	805	
							Standard White	6000K	/	805	
	WW-FLS102T35XW120B-24(WCP)-UR	90	90	100	8.73	9.60	Warm White	2700K	2700K	600	DC 24V
Warm White							3000K	3000K	620		
Natural White							4000K	4000K	655		
D 54	WW-FLS102T35XW120D-24(WCP)-HR	80	82	96	8.73	9.60	Warm White	2500K	/	696	DC 24V
							Warm White	2700K	2700K	713	
							Warm White	3000K	3000K	701	
							Natural White	4000K	4000K	652	
							Standard White	6000K	/	628	
	WW-FLS102T35XW120D-24(WCP)-UR	90	90	100	8.73	9.60	Warm White	2700K	2700K	576	DC 24V
Warm White							3000K	3000K	595		
Natural White							4000K	4000K	583		
S 54	WW-FLS102T35XW120S-24(WCP)-HR	80	82	96	8.73	9.60	Warm White	2500K	/	682	DC 24V
							Warm White	2700K	2700K	683	
							Warm White	3000K	3000K	701	
							Natural White	4000K	4000K	676	
							Standard White	6000K	/	628	
	WW-FLS102T35XW120S-24(WCP)-UR	90	90	100	8.73	9.60	Warm White	2700K	2700K	558	DC 24V
Warm White							3000K	3000K	564		
Natural White							4000K	4000K	590		
K 54	WW-FLS102T35XW120K-24(WCP)-HR-TT	80	82	96	8.73	9.60	Warm White	2500K	/	689	DC 24V
							Warm White	2700K	2700K	713	
							Warm White	3000K	3000K	732	
							Natural White	4000K	4000K	765	
							Standard White	6000K	/	765	
	WW-FLS102T35XW120K-24(WCP)-UR-TT	90	90	100	8.73	9.60	Warm White	2700K	2700K	576	DC 24V
Warm White							3000K	3000K	595		
Natural White							4000K	4000K	629		
K 65	WW-FLS102T35XW120K-24(WCP)-HR	80	82	96	8.73	9.60	Warm White	2500K	/	689	DC 24V
							Warm White	2700K	2700K	713	
							Warm White	3000K	3000K	732	
							Natural White	4000K	4000K	765	
							Standard White	6000K	/	765	
	WW-FLS102T35XW120K-24(WCP)-UR	90	90	100	8.73	9.60	Warm White	2700K	2700K	576	DC 24V
Warm White							3000K	3000K	595		
Natural White							4000K	4000K	629		
F 65	WW-FLS102T35XW120F-24(WCP)-HR	80	82	96	8.73	9.60	Warm White	2500K	/	696	DC 24V
							Warm White	2700K	2700K	713	
							Warm White	3000K	3000K	724	
							Natural White	4000K	4000K	765	
							Standard White	6000K	/	773	
	WW-FLS102T35XW120F-24(WCP)-UR	90	90	100	8.73	9.60	Warm White	2700K	2700K	582	DC 24V
Warm White							3000K	3000K	601		
Natural White							4000K	4000K	629		

E 67	WW-FLS102T35XW120E-24(WCP)-HR	80	82	96	8.73	9.60	Warm White	2500K	/	638	DC 24V
							Warm White	2700K	2700K	653	
							Warm White	3000K	3000K	670	
							Natural White	4000K	4000K	708	
							Standard White	6000K	/	700	
	WW-FLS102T35XW120E-24(WCP)-UR	90	90	100	8.73	9.60	Warm White	2700K	2700K	504	DC 24V
							Warm White	3000K	3000K	515	
							Natural White	4000K	4000K	550	
R 67	WW-FLS102T35XW120R-24(WCP)-HR	80	82	96	8.73	9.60	Warm White	2500K	/	674	DC 24V
							Warm White	2700K	2700K	690	
							Warm White	3000K	3000K	708	
							Natural White	4000K	4000K	741	
							Standard White	6000K	/	733	
	WW-FLS102T35XW120R-24(WCP)-UR	90	90	100	8.73	9.60	Warm White	2700K	2700K	594	DC 24V
							Warm White	3000K	3000K	583	
							Natural White	4000K	4000K	603	
RW 67	WW-FLS102T35XW120R-24(WCP)-HR-W	80	82	96	8.73	9.60	Warm White	2500K	/	674	DC 24V
							Warm White	2700K	2700K	690	
							Warm White	3000K	3000K	708	
							Natural White	4000K	4000K	741	
							Standard White	6000K	/	733	
	WW-FLS102T35XW120R-24(WCP)-UR-W	90	90	100	8.73	9.60	Warm White	2700K	2700K	594	DC 24V
							Warm White	3000K	3000K	583	
							Natural White	4000K	4000K	603	
C 68	WW-FLS102T35XW120C-24(WCP)-HR	80	82	96	8.73	9.60	Warm White	2500K	/	638	DC 24V
							Warm White	2700K	2700K	645	
							Warm White	3000K	3000K	647	
							Natural White	4000K	4000K	620	
							Standard White	6000K	/	555	
	WW-FLS102T35XW120C-24(WCP)-UR	90	90	100	8.73	9.60	Warm White	2700K	2700K	528	DC 24V
							Warm White	3000K	3000K	546	
							Natural White	4000K	4000K	531	

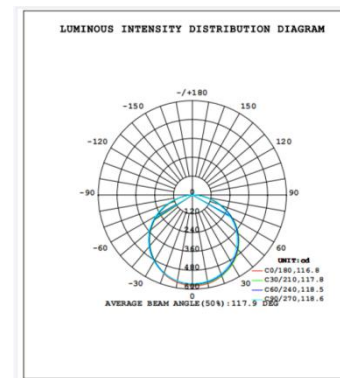
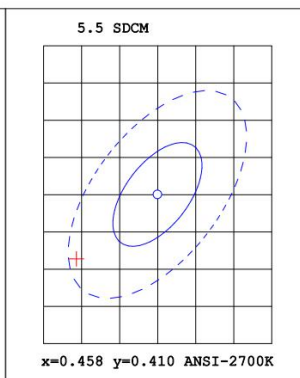
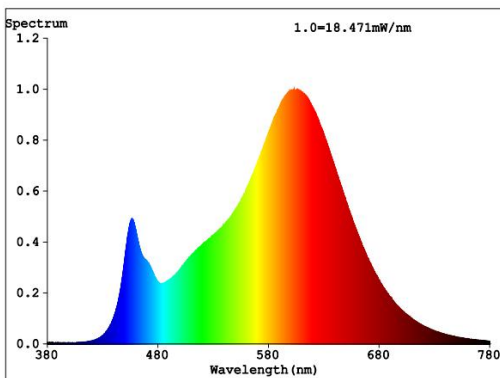
Remarks:

- \*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).

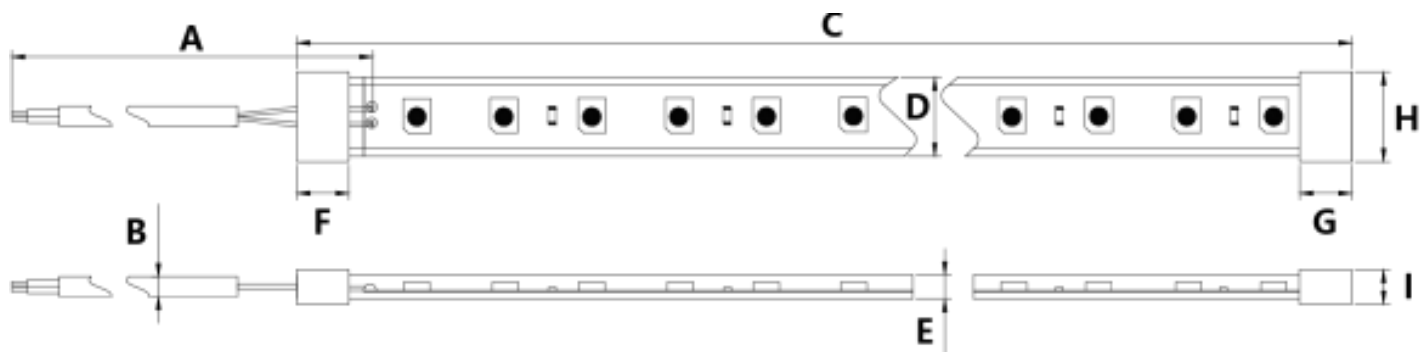
Test condition of above technical data:

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

**Optical Test Diagram**



## Dimension Drawing

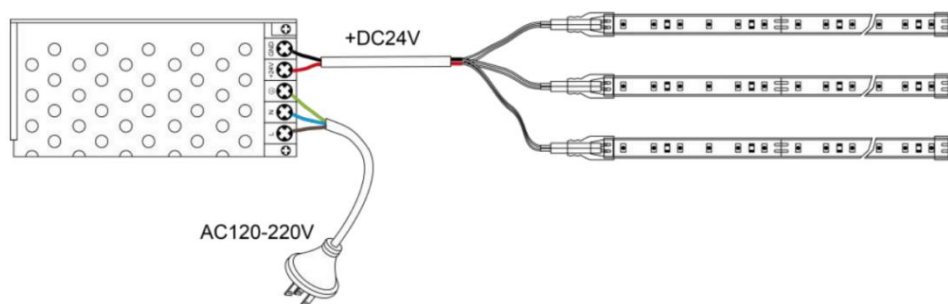


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Front cap length	G End cap length	H Cap width	I Cap thickness
E 20	300±10mm	Φ4.0±0.2mm	5000±50mm	8±0.5mm	2.1±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.32±0.02in	0.083±0.02in	/	/	/	/
D 54	300±10mm	Φ4.0±0.2mm	5000±50mm	8±0.5mm	2.6±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.32±0.02in	0.102±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	300±10mm	Φ4.0±0.2mm	5020±50mm	9.2±0.2mm	4±0.2mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	197.64±1.97in	0.36±0.01in	0.16±0.01in	/	/	/	/
K 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
E 67	300±10mm	Φ4.0±0.2mm	5020±50mm	10.5±0.5mm	5.5±0.5mm	27.5±0.5mm	12.5±0.5mm	13.5±0.5mm	7.5±0.5mm
	11.81±0.39in	0.16±0.01in	197.64±1.97in	0.41±0.02in	0.22±0.02in	1.08±0.02in	0.49±0.02in	0.53±0.02in	0.30±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
C 68	300±10mm	Φ4.0±0.2mm	5020±50mm	11.5±0.5mm	4.5±0.5mm	27.5±0.5mm	12.5±0.5mm	13.5±0.5mm	7.5±0.5mm
	11.81±0.39in	0.16±0.008in	197.64±1.97in	0.45±0.02in	0.18±0.02in	1.08±0.02in	0.49±0.02in	0.53±0.02in	0.30±0.02in








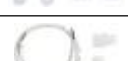


**Remarks:**

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




















## Circuit Diagram





## Standard Accessories

IP Level	Category	Description	Pict ure	Part No.	Application
<b>E 20</b>	/	/	/	/	/
<b>D 54</b>	/	/	/	/	/
<b>S 54</b>	/	/	/	/	/
<b>K 54/65</b>	/	/	/	/	/
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
<b>F 65</b>	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	8mm Type F
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
<b>E 67</b>	Connection Accessories	Front cap+End cap+Cable		WW-FLS102E-CW (10mm)	8mm Type E
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
<b>R 67</b>	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	8mm Type R
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
<b>RW 67</b>	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	8mm Type RW
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
<b>C 68</b>	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	8mm Type C
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip

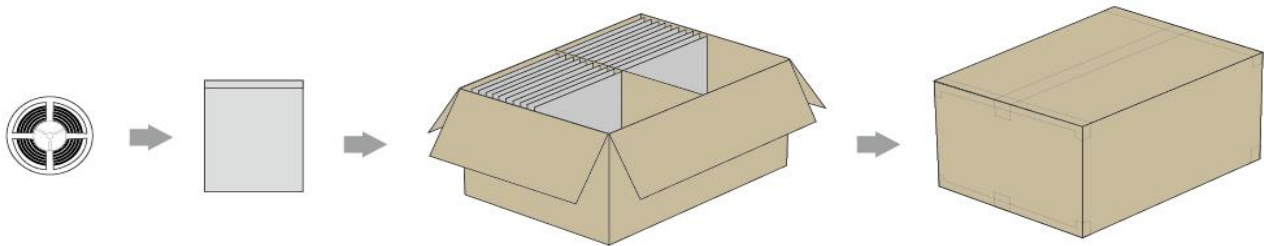
## Optional Accessories

IP Level	Category	Description	Picture	Part No.	Density
E 20	Strip to wire Connector	2PIN Strip to wire Connector		WW-FLS102B-FS2 (8mm)	≤120LEDs/M
	Strip to wire Connector	2PIN Strip to wire Connector		WW-MLB-00SE2XB-08	≤120LEDs/M
	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2B-PWP2T-08	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS102B-DD2(8MM)	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		FLS102B-2FD2(8mm)	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-MLB-00SE2BB-08	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2B-POP2T-08	≤120LEDs/M
D 54	Quick Connector	2PIN Connector		WW-FLS102D-2DD2(8MM)	≤120LEDs/M
	Quick Connector	2PIN Transparent Connector		WW-MLB-00DJ2BB-08	≤120LEDs/M
	Strip to wire Connector	2PIN Transparent Strip to wire Connector		WW-MLB-00SE2XB-08	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS102D-FD2(8MM)	≤120LEDs/M
S 54	Quick Connector	2PIN Connector		WW-FLS102D-2DD2(8mm)	≤120LEDs/M
	Quick Connector	2PIN Transparent Connector		WW-MLB-00DJ2BB-08	≤120LEDs/M
	Strip to wire Connector	2PIN Transparent Strip to wire Connector		WW-MLB-00SE2XB-08	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-FLS102D-FD2(8mm)	≤120LEDs/M
K 54/65	Quick Connector	2PIN Transparent Connector		WW-MLB-00DJ2BB-8K	≤120LEDs/M
	Strip to wire Connector	2PIN Transparent Strip to wire Connector		WW-MLB-00DJ2XB-8K	≤120LEDs/M
F 65	/	/	/	/	/
E 67	/	/	/	/	/
R 67	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2R-SW02T-08-300(22)	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2R-SOP2T-08	≤120LEDs/M



IP Level	Category	Description	Picture	Part No.	Density
RW 67	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2R-SW02T-08-300(22)	≤120LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2R-SOP2T-08	≤120LEDs/M
68	/	/	/	/	/

## 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			
<b>E 20</b>	250*270*0.14mm	/	/	440*400*260mm	60	4.2KG ±10%	9.13 KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75*10.24 in	60	9.26 Lbs ±10%	20.08Lbs ±10%	1.62ft³
<b>D 54</b>	250*270*0.14mm	/	/	440*400*260mm	60	9.78KG ±10%	14.53 KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75*10.24 in	60	21.56 Lbs ±10%	32.03Lbs ±10%	1.62ft³
<b>S 54</b>	250*270*0.14mm	/	/	440*400*260mm	50	5.6KG ±10%	11.09 KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75*10.24 in	50	12.32 Lbs ±10%	24.398Lbs ±10%	1.62ft³
<b>K 54/65</b>	250*270*0.14mm	/	/	440*400*260mm	50	7.47KG ±10%	13.819KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75*10.24 in	50	16.469Lbs ±10%	30.466Lbs ±10%	16.2ft³
<b>F 65</b>	250*270*0.14mm	/	/	440*400*260mm	40	9.2KG ±10%	11.73KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75*10.24 in	40	20.24 Lbs ±10%	25.81Lbs ±10%	1.62ft³
<b>E 67</b>	270*300*0.14mm	/	/	520*370*300mm	36	10.8KG ±10%	14.29KG ±10%	0.06m³
	10.63*11.81*0.0056 in	/	/	20.47*14.57*11.81in	36	23.76Lbs ±10%	31.44Lbs ±10%	2.04ft³
<b>R 67</b>	270*300*0.14mm	/	/	520*370*300mm	36	8.23KG ±10%	12.03 KG ±10%	0.06m³
	10.63*11.81*0.0056 in	/	/	20.47*14.57*11.81in	36	18.106 Lbs ±10%	26.466Lbs ±10%	2.04ft³
<b>RW 67</b>	270*300*0.14mm	/	/	520*370*300mm	36	8.784KG ±10%	15.634KG ±10%	0.06m³
	10.63*11.81*0.0056 in	/	/	20.47*14.57*11.81in	36	19.365 Lbs ±10%	34.467Lbs ±10%	2.04ft³
<b>C 68</b>	270*300*0.14mm	/	/	520*370*300mm	36	11.88KG ±10%	16.81KG ±10%	0.06m³
	10.63*11.81*0.0056 in	/	/	20.47*14.57*11.81in	36	26.19Lbs ±10%	36.98Lbs ±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.**