

Product Specification

DC Flexible LED Strip

2835 7LEDs/unit Series

2835 Top LED 8mm FPC 070LEDs/M

WW-FLS102T28XW070X-24(WCP)-XR-ME

&

WW-FLS102T28XW070X-24(WCP)-XR-ME-EP



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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 2835 LED; • Light source lifetime:50K hours(L70); • Meet (EU)2019/2020 ErP regulations. • Min. Bending Diameter: $\Phi 60\text{mm}$ • 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	 RM 67
	Naked Strip	Silicone Dropping	Silicone Tube	Silicone Extrusion	Silicone Extrusion	Silicone Extrusion
	5 Years Warranty	3 Years Warranty	5 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-FLS102T28XW070X-24(WCP)-XR-ME

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	
B 20	WW-FLS102T28XW070B-24(WCP)-HR-ME	80	82	96	6.55	7.21	Warm White	2500K	/	730	DC 24V	
							Warm White	2700K	2700K	750		
							Warm White	3000K	3000K	795		
							Natural White	4000K	4000K	830		
							Standard White	6000K	/	830		
	WW-FLS102T28XW070B-24(WCP)-UR-ME	90	90	100	6.55	7.21	Warm White	2700K	2700K	642	DC 24V	
							Warm White	3000K	3000K	684		
							Natural White	4000K	4000K	722		
							Standard White	6000K	/	748		
	F 65	WW-FLS102T28XW070F-24(WCP)-HR-ME	80	82	96	6.55	7.21	Warm White	2500K	/	715	DC 24V
Warm White								2700K	2700K	745		
Warm White								3000K	3000K	770		
Natural White								4000K	4000K	825		
Standard White								6000K	/	810		
WW-FLS102T28XW070F-24(WCP)-UR-ME		90	90	100	6.55	7.21	Warm White	2700K	2700K	625	DC 24V	
							Warm White	3000K	3000K	660		
							Natural White	4000K	4000K	715		
							Standard White	6000K	/	730		
S 54		WW-FLS102T28XW070S-24(WCP)-HR-ME	80	82	96	6.55	7.21	Warm White	2500K	/	686	DC 24V
	Warm White							2700K	2700K	683		
	Warm White							3000K	3000K	723		
	Natural White							4000K	4000K	697		
	Standard White							6000K	/	647		
	WW-FLS102T28XW070S-24(WCP)-UR-ME	90	90	100	6.55	7.21	Warm White	2700K	2700K	572	DC 24V	
							Warm White	3000K	3000K	579		
							Natural White	4000K	4000K	639		
	R 67	WW-FLS102T28XW070R-24(WCP)-HR-ME	80	82	96	6.55	7.21	Warm White	2500K	/	688	DC 24V
								Warm White	2700K	2700K	740	
Warm White								3000K	3000K	760		
Natural White								4000K	4000K	820		
Standard White								6000K	/	790		
WW-FLS102T28XW070R-24(WCP)-UR-ME		90	90	100	6.55	7.21	Warm White	2700K	2700K	615	DC 24V	
							Warm White	3000K	3000K	625		
							Natural White	4000K	4000K	690		
							Standard White	6000K	/	720		
RM 67		WW-FLS102T28XW070R-24(WCP)-HR-M-ME	80	82	96	6.55	7.21	Warm White	2500K	/	650	DC 24V
	Warm White							2700K	2700K	668		
	Warm White							3000K	3000K	708		
	Natural White							4000K	4000K	739		
	Standard White							6000K	/	739		
	WW-FLS102T28XW070R-24(WCP)-UR-M-ME	90	90	100	6.55	7.21	Warm White	2700K	2700K	554	DC 24V	
							Warm White	3000K	3000K	572		
							Natural White	4000K	4000K	539		
	RW 67	WW-FLS102T28XW070R-24(WCP)-HR-W-ME	80	82	96	6.55	7.21	Warm White	2500K	/	679	DC 24V
								Warm White	2700K	2700K	690	
Warm White								3000K	3000K	731		
Natural White								4000K	4000K	764		
Standard White								6000K	/	755		
WW-FLS102T28XW070R-24(WCP)-UR-W-ME		90	90	100	6.55	7.21	Warm White	2700K	2700K	609	DC 24V	
							Warm White	3000K	3000K	598		
							Natural White	4000K	4000K	653		

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-FLS102T28XW070X-24(WCP)-XR-ME-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-FLS102T28XW070B-24(WCP)-HR-ME-EP	80	82	96	6.86	7.54	Warm White	2700K	788	115	E	DC 24V
							Warm White	3000K	810	118	E	
							Natural White	4000K	862	126	E	
							Standard White	6000K	852	124	E	
	WW-FLS102T28XW070B-24(WCP)-UR-ME-EP	90	90	100	6.86	7.54	Warm White	2700K	652	95	F	DC 24V
							Warm White	3000K	704	103	F	
							Natural White	4000K	746	109	F	
							Standard White	6000K	756	110	E	
F 65	WW-FLS102T28XW070F-24(WCP)-HR-ME-EP	80	82	96	6.86	7.54	Warm White	2700K	756	110	E	DC 24V
							Warm White	3000K	778	113	E	
							Natural White	4000K	820	120	E	
							Standard White	6000K	820	120	E	
	WW-FLS102T28XW070F-24(WCP)-UR-ME-EP	90	90	100	6.86	7.54	Warm White	2700K	630	92	F	DC 24V
							Warm White	3000K	672	98	F	
							Natural White	4000K	726	106	F	
							Standard White	6000K	746	109	F	
R 67	WW-FLS102T28XW070R-24(WCP)-HR-ME-EP	80	82	96	6.86	7.54	Warm White	2700K	756	110	E	DC 24V
							Warm White	3000K	768	112	E	
							Natural White	4000K	830	121	E	
							Standard White	6000K	800	117	E	
	WW-FLS102T28XW070R-24(WCP)-UR-ME-EP	90	90	100	6.86	7.54	Warm White	2700K	630	92	F	DC 24V
							Warm White	3000K	630	92	F	
							Natural White	4000K	694	101	F	
							Standard White	6000K	726	106	F	

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".

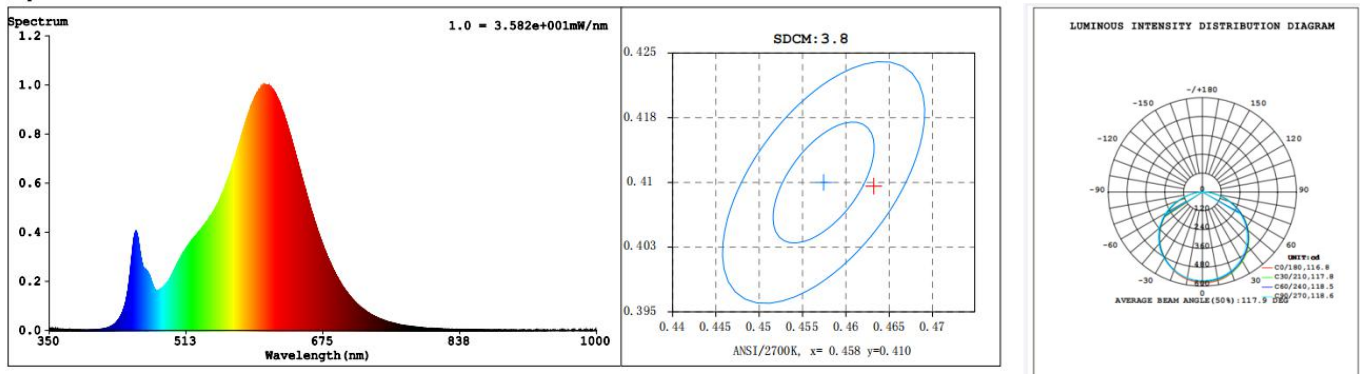
Test condition of above technical data:

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

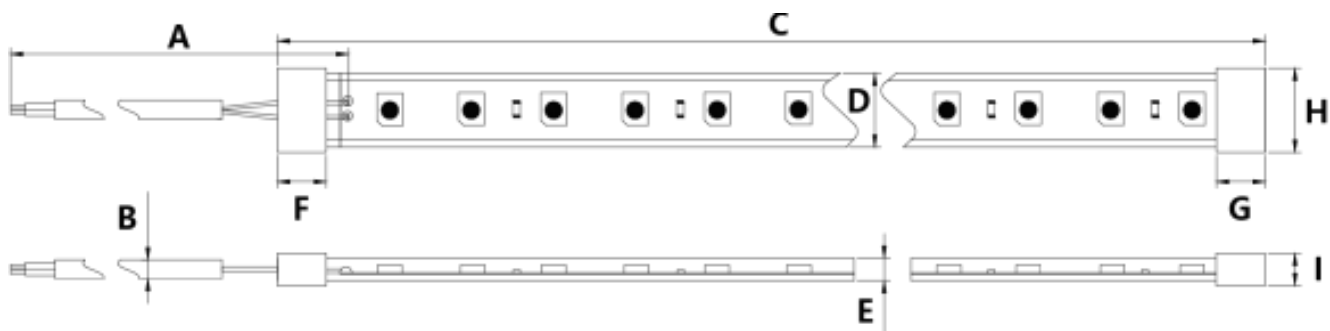
ErP Note:

- 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 ≤ 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

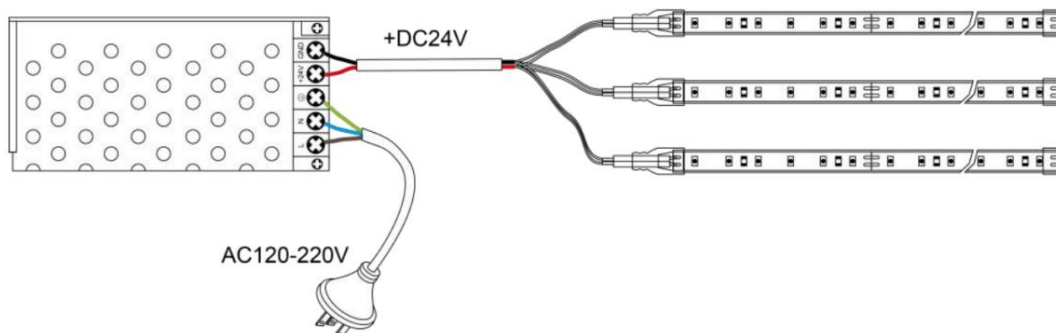


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Front cap length	G End cap length	H Cap width	I Cap thickness
B 20	300±10mm	Φ4.0±0.2mm	5000±50mm	8±0.5mm	1.2±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.32±0.02in	0.047±0.02in	/	/	/	/
F 65	300±10mm	Φ4.0±0.2mm	5020±50mm	10±0.5mm	4±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
S 54	300±10mm	Φ6.0±0.2mm	5000±50mm	8±0.5mm	2.2±0.5mm	/	/	/	/
	11.81±0.39in	0.23±0.1in	196.85±1.97in	0.32±0.02in	0.087±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±0.5mm	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
RM 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



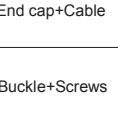




Remarks:

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











Circuit Diagram



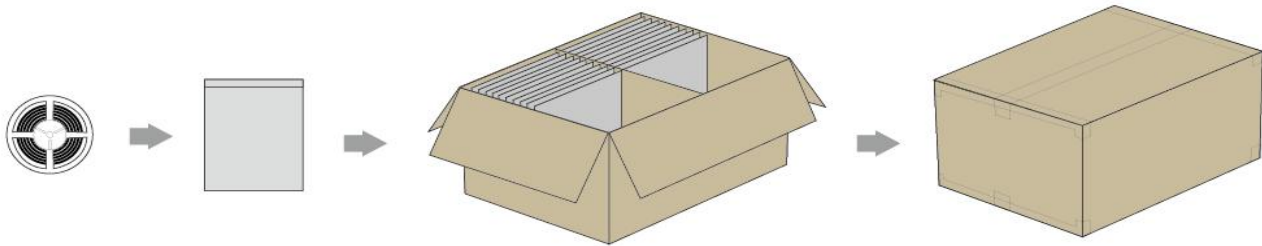
Standard Accessories

IP Level	Category	Description	Picture	Part No.	Application
E 20	/	/	/	/	/
	/	/	/	/	/
F 65	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	8mm 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 (10mm)	8mm Type R
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
RW 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	8mm Type RW
	Installation Accessories	Installation Buckle+Screws		WW-FLS102JJA-MC	Waterproof strip
RM 67	Connection Accessories	Front cap+End cap+Cable		WW-FLS102F-CW (10mm)	8mm Type RM
	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
F 65	/	/	/	/	/
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
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
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
RM 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

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	60	4.2KG ±10%	8.53 KG ±10%	0.04576 m ³
	9.84*10.63*0.0056 in	/	/	17.32*15.748 *10.236 in	60	9.26 Lbs ±10%	18.8Lbs ±10%	1.616 ft ³
F 65	250*270*0.14mm	/	/	440*400 *260mm	40	7.25KG ±10%	10.13KG ±10%	0.04576 m ³
	9.84*10.63*0.0056 in	/	/	17.32*15.748 *10.236 in	40	15.95Lbs ±10%	22.286Lbs ±10%	1.616 ft ³
S 54	250*270*0.14mm	/	/	440*400 *260mm	60	9.9KG ±10%	15.29KG ±10%	0.04576 m ³
	9.84*10.63*0.0056 in	/	/	17.32*15.75 *10.24 in	60	21.78Lbs ±10%	33.64 Lbs ±10%	1.616 ft ³
R 67	270*300*0.14mm	/	/	L520*W370*H300mm	36	6.3KG ±10%	11.73KG ±10%	0.0578m ³
	10.63*11.81*0.0056 in	/	/	20.5*14.6*11.81in	36	13.89 Lbs ±10%	25.86Lbs ±10%	2.04ft ³
RW 67	270*300*0.14mm	/	/	L520*W370*H300mm	36	6.3KG ±10%	11.73KG ±10%	0.0578m ³
	10.63*11.81*0.0056 in	/	/	20.5*14.6*11.81in	36	13.89 Lbs ±10%	25.86Lbs ±10%	2.04ft ³
RM 67	270*300*0.14mm	/	/	L520*W370*H300mm	36	6.3KG ±10%	11.73KG ±10%	0.0578m ³
	10.63*11.81*0.0056 in	/	/	20.5*14.6*11.81in	36	13.89 Lbs ±10%	25.86Lbs ±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.**