

Product Specification

DC Flexible LED Strip

2835 8LEDs/unit Series

2835 Top LED 8mm FPC 128LEDs/M

WW-FLS102T28XW128X-24(WCP)-XR-S-CV-HE
&
WW-FLS102T28XW128X-24(WCP)-XR-S-CV-HE-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: 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"> • EN55015:2013+A1 • 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-FLS102T28XW128X-24(WCP)-XR-S-CV-HE

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-FLS102T28XW128B-24(WCP)-HR-S-CV-HE	80	82	96	8.73	9.60	Warm White	2500K	/	1150	DC 24V
							Warm White	2700K	2700K	1190	
							Warm White	3000K	3000K	1220	
							Natural White	4000K	4000K	1270	
							Standard White	6000K	/	1270	
	WW-FLS102T28XW128B-24(WCP)-UR-S-CV-HE	90	90	100	8.73	9.60	Warm White	2700K	2700K	1014	DC 24V
							Warm White	3000K	3000K	1008	
							Natural White	4000K	4000K	1110	
							Standard White	6000K	/	1142	
							Warm White	2500K	/	993	
F 65	WW-FLS102T28XW128F-24(WCP)-HR-S-CV-HE	80	82	96	8.73	9.60	Warm White	2700K	2700K	1135	DC 24V
							Warm White	3000K	3000K	1170	
							Natural White	4000K	4000K	1240	
							Standard White	6000K	/	1220	
							Warm White	2500K	/	993	
	WW-FLS102T28XW128F-24(WCP)-UR-S-CV-HE	90	90	100	8.73	9.60	Warm White	2700K	2700K	955	DC 24V
							Warm White	3000K	3000K	1020	
							Natural White	4000K	4000K	1090	
							Standard White	6000K	/	1110	
							Warm White	2500K	/	1081	
S 54	WW-FLS102T28XW128S-24(WCP)-HR-S-CV-HE	80	82	96	8.73	9.60	Warm White	2700K	2700K	1083	DC 24V
							Warm White	3000K	3000K	1110	
							Natural White	4000K	4000K	1067	
							Standard White	6000K	/	991	
							Warm White	2500K	/	1081	
	WW-FLS102T28XW128S-24(WCP)-UR-S-CV-HE	90	90	100	8.73	9.60	Warm White	2700K	2700K	949	DC 24V
							Warm White	3000K	3000K	965	
							Natural White	4000K	4000K	1017	
							Warm White	2500K	/	1041	
							Warm White	2700K	2700K	1120	
R 67	WW-FLS102T28XW128R-24(WCP)-HR-S-CV-HE	80	82	96	8.73	9.60	Warm White	3000K	3000K	1170	DC 24V
							Natural White	4000K	4000K	1240	
							Standard White	6000K	/	1200	
							Warm White	2500K	/	1041	
							Warm White	2700K	2700K	1120	
	WW-FLS102T28XW128R-24(WCP)-UR-S-CV-HE	90	90	100	8.73	9.60	Warm White	2700K	2700K	940	DC 24V
							Warm White	3000K	3000K	1000	
							Natural White	4000K	4000K	1070	
							Standard White	6000K	/	1110	
							Warm White	2500K	/	1024	
RM 67	WW-FLS102T28XW128R-24(WCP)-HR-S-M-CV-HE	80	82	96	8.73	9.60	Warm White	2700K	2700K	1059	DC 24V
							Warm White	3000K	3000K	566	
							Natural White	4000K	4000K	589	
							Standard White	6000K	/	582	
							Warm White	2500K	/	1024	
	WW-FLS102T28XW128R-24(WCP)-UR-S-M-CV-HE	90	90	100	8.73	9.60	Warm White	2700K	2700K	515	DC 24V
							Warm White	3000K	3000K	498	
							Natural White	4000K	4000K	513	
							Warm White	2500K	/	1070	
							Warm White	2700K	2700K	1059	
RW 67	WW-FLS102T28XW128R-24(WCP)-HR-S-W-CV-HE	80	82	96	8.73	9.60	Warm White	3000K	3000K	1086	DC 24V
							Natural White	4000K	4000K	1130	
							Standard White	6000K	/	1130	
							Warm White	2500K	/	1070	
							Warm White	2700K	2700K	1059	
	WW-FLS102T28XW128R-24(WCP)-UR-S-W-CV-HE	90	90	100	8.73	9.60	Warm White	2700K	2700K	918	DC 24V
							Warm White	3000K	3000K	954	
							Natural White	4000K	4000K	1017	
							Warm White	2500K	/	1070	
							Warm White	2700K	2700K	1059	

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-FLS102T28XW128X-24(WCP)-XR-S-CV-HE-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-FLS102T28XW128B-24(WCP)-HR-S-CV-HE-EP	80	82	96	9.10	10.02	Warm White	2700K	1281	141	D	DC 24V
							Warm White	3000K	1326	146	D	
							Natural White	4000K	1406	154	D	
							Standard White	6000K	1384	152	D	
	WW-FLS102T28XW128B-24(WCP)-UR-S-CV-HE-EP	90	90	100	9.10	10.02	Warm White	2700K	1134	125	E	DC 24V
							Warm White	3000K	1123	123	E	
							Natural White	4000K	1246	137	D	
							Standard White	6000K	1246	137	D	
F 65	WW-FLS102T28XW128F-24(WCP)-HR-S-CV-HE-EP	80	82	96	9.10	10.02	Warm White	2700K	1235	136	D	DC 24V
							Warm White	3000K	1315	144	D	
							Natural White	4000K	1406	154	D	
							Standard White	6000K	1360	149	D	
	WW-FLS102T28XW128F-24(WCP)-UR-S-CV-HE-EP	90	90	100	9.10	10.02	Warm White	2700K	1054	116	E	DC 24V
							Warm White	3000K	1123	123	E	
							Natural White	4000K	1225	135	E	
							Standard White	6000K	1214	133	E	
R 67	WW-FLS102T28XW128R-24(WCP)-HR-S-CV-HE-EP	80	82	96	9.10	10.02	Warm White	2700K	1259	138	D	DC 24V
							Warm White	3000K	1315	144	D	
							Natural White	4000K	1360	149	D	
							Standard White	6000K	1350	148	D	
	WW-FLS102T28XW128R-24(WCP)-UR-S-CV-HE-EP	90	90	100	9.10	10.02	Warm White	2700K	1078	118	E	DC 24V
							Warm White	3000K	1134	125	E	
							Natural White	4000K	1225	135	E	
							Standard White	6000K	1225	135	E	

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".

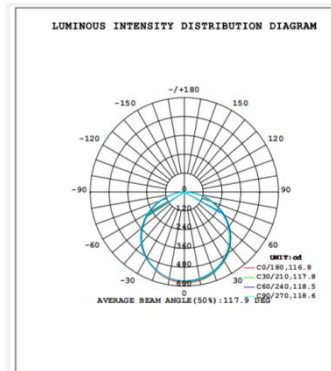
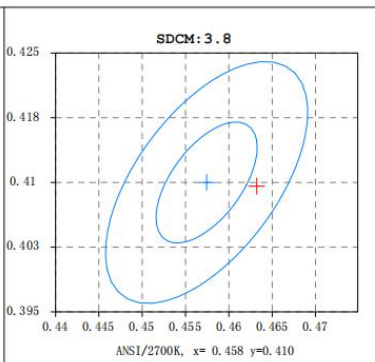
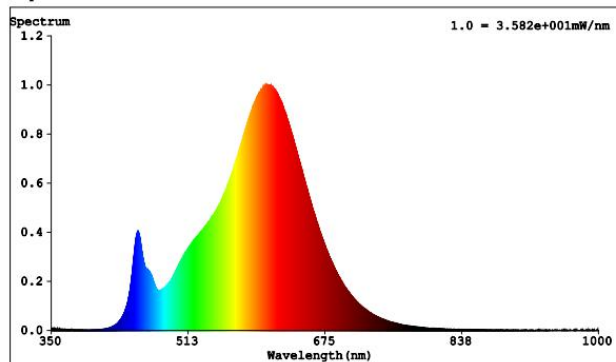
Test condition of above technical data:

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

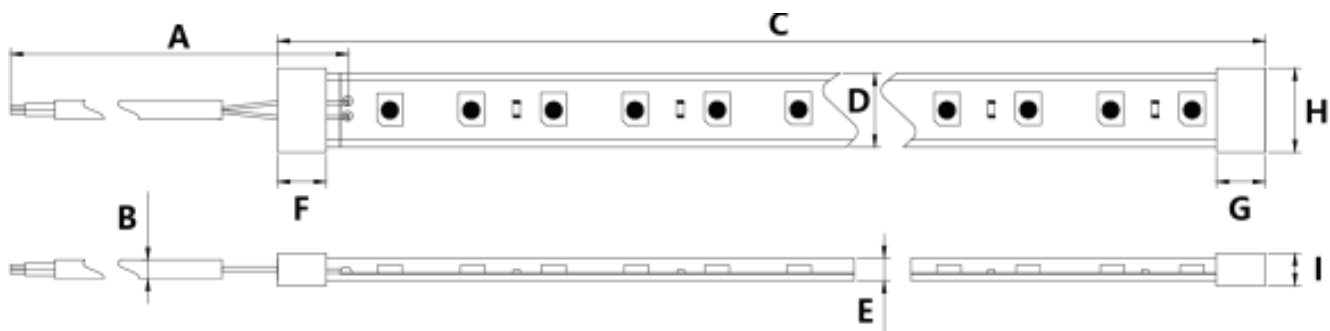
ErP Note:

- 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

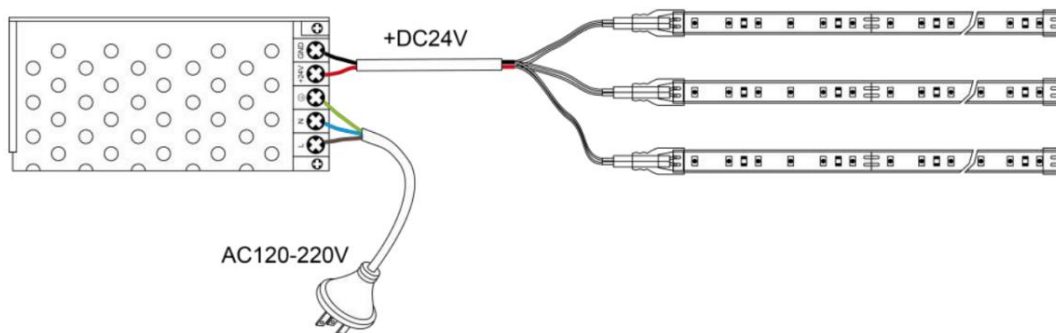


IP Grade	A Cable Length	B cable diameter	C Strip length	D Strip width	E Strip thickness	F Front cap length	G End cap length	H Cap width	I Cap thickness
B 20	300±10mm	Φ4.0±0.2mm	5000±50mm	8±0.5mm	1.2±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.32±0.02in	0.047±0.02in	/	/	/	/
S 54	300±10mm	Φ4.0±0.2mm	5000±50mm	8±0.5mm	2.8±0.5mm	/	/	/	/
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.32±0.02in	0.11±0.028in	/	/	/	/
F 65	300±10mm	Φ4.0±0.2mm	5000±50mm	8±0.5mm	4.0±0.5mm	10±0.5mm	10±0.5mm	10±0.5mm	6.0±0.5mm
	11.81±0.39in	0.16±0.01in	196.85±1.97in	0.32±0.02in	0.16±0.02in	0.39±0.02in	0.39±0.02in	0.39±0.02in	0.24±0.02in
R 67	300±10mm	Φ6±0.5mm	5000±50mm	10±0.5mm	5±0.5mm	30±0.5mm	11±0.5mm	12±0.5mm	7±0.5mm
	11.81±0.39in	0.236±0.02in	196.85±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	Φ6±0.5mm	5000±50mm	10±0.5mm	5±0.5mm	30±0.5mm	11±0.5mm	12±0.5mm	7±0.5mm
	11.81±0.39in	0.236±0.02in	196.85±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	Φ6±0.5mm	5000±50mm	10±0.5mm	5±0.5mm	30±0.5mm	11±0.5mm	12±0.5mm	7±0.5mm
	11.81±0.39in	0.236±0.02in	196.85±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



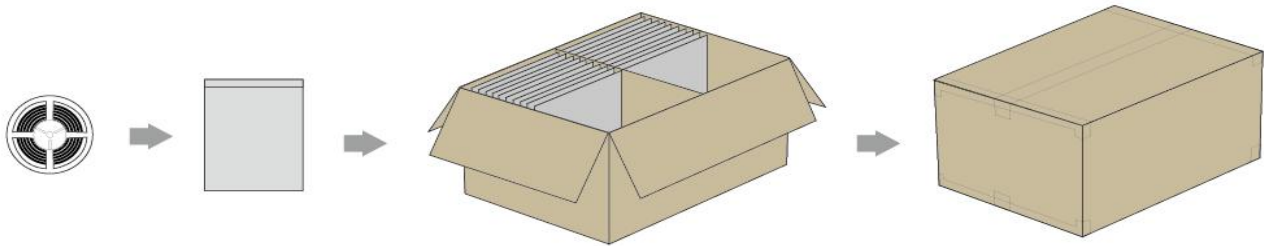
Standard Accessories

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
B 20	Strip to wire Connector	2PIN Strip to wire Connector		WW-F2B-P0W20-08	≤160LEDs/M
	Strip to strip Connector	2PIN Strip to strip Connector		WW-F2B-POP20-08	≤160LEDs/M
S 54	/	/	/	/	/
	/	/	/	/	/
F 65	/	/	/	/	/
	/	/	/	/	/
R 67	/	/	/	/	/
	/	/	/	/	/
RW 67	/	/	/	/	/
	/	/	/	/	/
RM 67	/	/	/	/	/
	/	/	/	/	/

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%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.748*10.236 in	60	9.26 Lbs ±10%	18.8Lbs ±10%	1.62ft³
S 54	250*270*0.14mm	/	/	440*400*260mm	60	9.9KG ±10%	15.29KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.748*10.236in	60	21.78Lbs ±10%	33.64 Lbs ±10%	1.62ft³
F 65	250*270*0.14mm	/	/	440*400*260mm	40	7.25KG ±10%	10.13KG ±10%	0.05m³
	9.84*10.63*0.0056 in	/	/	17.32*15.75*10.24 in	40	15.95Lbs ±10%	22.29Lbs ±10%	1.62ft³
R 67	270*300*0.14mm	/	/	520*370*300mm	36	10.71 KG ±10%	15.7 KG ±10%	0.06m³
	10.63*11.81*0.0056 in	/	/	20.5*14.6*11.81in	36	23.61 Lbs ±10%	34.61 Lbs ±10%	2.04ft³
RW 67	270*300*0.14mm	/	/	520*370*300mm	36	10.71KG ±10%	15.71KG ±10%	0.06m³
	10.63*11.81*0.0056 in	/	/	20.47*14.57*11.81in	36	23.61Lbs ±10%	34.63Lbs ±10%	2.04ft³
RM 67	270*300*0.14mm	/	/	520*370*300mm	36	6.3KG ±10%	11.73KG ±10%	0.06m³
	10.63*11.81*0.0056 in	/	/	20.47*14.57*11.81in	36	13.89 Lbs ±10%	25.86Lbs ±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.**