

Product Specification

DC Flexible LED Strip

Multi color RGB+W Series

5050RGB+3528W Top LED 12mm FPC 72LEDs/M

WW-FLS103T53FX072X-24(WCP)-XR

&

WW-FLS103T53FX072X-24(WCP)-XR-EP



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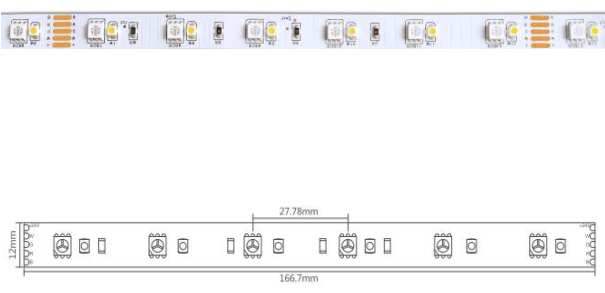
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





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| | |
|--|---|
| <p>Product Features</p> <ul style="list-style-type: none"> • High quality FPC, authentic 3M tape; • Self-encapsulated design 5050RGB+3528W 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"> • EN55015:2019 • EN61547:2009 • EN60598-1:2015 • EN60598-2-20:2015 • EN62493:2015 • EN62471:2008 |

| | | |
|--|--|--|
| Non-ErP Waterproof Type |  E 20 |  F 65 |
| | Naked Strip | Silicone Tube |
| | 3 Years Warranty | 3 Years Warranty |

| | | |
|------------------------------------|--|--|
| ErP Waterproof Type |  E 20 |  F 65 |
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WW-FLS103T53FX072X-24(WCP)-XR

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 |
|----------|-----------------------------|----------|----|-----|---------------------|------------------|--------------------|---------------------------------------|--|----------------------------------|---------------|
| E 20 | WW-FLS103T53FW072B-(WCP)-HR | 80 | 80 | 96 | 9.60 | 11.52 | RGB+ Warm White | RGB+ 2300-2600K | RGB+ 2300-2600K | 580 | DC 24V |
| | RGB+ War White | | | | | | RGB+ 2600-2900K | RGB+ 2650-2770K | 580 | | |
| | RGB+ Warm White | | | | | | RGB+ 2900-3200K | RGB+ 2960-3110K | 580 | | |
| | RGB+ Natural White | | | | | | RGB+ 3700-4250K | RGB+ 3840-4080K | 600 | | |
| | RGB+ Standard White | | | | | | RGB+ 5700-6500K | RGB+ 5800-6250K | 600 | | |
| | WW-FLS103T53FW072B-(WCP)-UR | 90 | 90 | 100 | 9.60 | 11.52 | RGB+ Warm White | RGB+ 2300-2600K | RGB+ 2300-2600K | 510 | DC 24V |
| | RGB+ Warm White | | | | | | RGB+ 2600-2900K | RGB+ 2650-2770K | 510 | | |
| | RGB+ Warm White | | | | | | RGB+ 2900-3200K | RGB+ 2960-3110K | 510 | | |
| | RGB+ Natural White | | | | | | RGB+ 3700-4250K | RGB+ 3840-4080K | 545 | | |
| | RGB+ Standard White | | | | | | RGB+ 5700-6500K | RGB+ 5800-6250K | 545 | | |
| F 65 | WW-FLS103T53FW072F-(WCP)-HR | 80 | 80 | 96 | 9.60 | 11.52 | RGB+ Warm White | RGB+ 2300-2600K | RGB+ 2300-2600K | 557 | DC 24V |
| | RGB+ Warm White | | | | | | RGB+ 2600-2900K | RGB+ 2650-2770K | 557 | | |
| | RGB+ Warm White | | | | | | RGB+ 2900-3200K | RGB+ 2960-3110K | 557 | | |
| | RGB+ Natural White | | | | | | RGB+ 3700-4250K | RGB+ 3840-4080K | 576 | | |
| | RGB+ Standard White | | | | | | RGB+ 5700-6500K | RGB+ 5800-6250K | 576 | | |
| | WW-FLS103T53FW072F-(WCP)-UR | 90 | 90 | 100 | 9.60 | 11.52 | RGB+ Warm White | RGB+ 2300-2600K | RGB+ 2300-2600K | 490 | DC 24V |
| | RGB+ Warm White | | | | | | RGB+ 2600-2900K | RGB+ 2650-2770K | 490 | | |
| | RGB+ Warm White | | | | | | RGB+ 2900-3200K | RGB+ 2960-3110K | 490 | | |
| | RGB+ Natural White | | | | | | RGB+ 3700-4250K | RGB+ 3840-4080K | 523 | | |
| | RGB+ Standard White | | | | | | RGB+ 5700-6500K | RGB+ 5800-6250K | 523 | | |

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 $\pm 20\%$ (subject to the manufacturer's instrument test).

Test condition of above technical data:

- Surrounding temperature: 26°C.
- Test while turning on.
- The above technical data, including typical power are based on the test of 0.5m.

WW-FLS103T53FX072X-24(WCP)-XR-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-FLS103T53FX072B-(WCP)-HR-EP | / | / | / | 2.44 | 2.92 | RED | 625-635nm | 66 | 27 | / | DC 24V |
| | WW-FLS103T53FX072B-(WCP)-HR-EP | / | / | / | 2.50 | 3.00 | GREEN | 515-525nm | 182 | 73 | / | |
| | WW-FLS103T53FX072B-(WCP)-HR-EP | / | / | / | 2.50 | 3.00 | BLUE | 465-475nm | 48 | 19 | / | |
| | WW-FLS103T53FW072B-(WCP)-HR-EP | 80 | 82 | 96 | 2.70 | 2.97 | Warm White | 2500K | 220 | 77 | G | |
| | WW-FLS103T53FW072B-(WCP)-HR-EP | | | | | | Warm White | 2700K | 230 | 81 | G | |
| | WW-FLS103T53FW072B-(WCP)-HR-EP | | | | | | Warm White | 3000K | 230 | 81 | G | |
| | WW-FLS103T53FN072B-(WCP)-HR-EP | | | | | | Natural White | 4000K | 250 | 88 | F | |
| | WW-FLS103T53FS072B-(WCP)-HR-EP | Standard White | 6000K | 250 | 88 | F | | | | | | |
| | WW-FLS103T53FX072B-(WCP)-UR-EP | / | / | / | 2.44 | 2.92 | RED | 625-635nm | 66 | 27 | / | DC 24V |
| | WW-FLS103T53FX072B-(WCP)-UR-EP | / | / | / | 2.50 | 3.00 | GREEN | 515-525nm | 182 | 73 | / | |
| | WW-FLS103T53FX072B-(WCP)-UR-EP | / | / | / | 2.50 | 3.00 | BLUE | 465-475nm | 48 | 19 | / | |
| | WW-FLS103T53FW072B-(WCP)-UR-EP | 90 | 90 | 100 | 2.70 | 2.97 | Warm White | 2500K | 190 | 67 | G | |
| | WW-FLS103T53FW072B-(WCP)-UR-EP | | | | | | Warm White | 2700K | 200 | 74 | G | |
| | WW-FLS103T53FW072B-(WCP)-UR-EP | | | | | | Warm White | 3000K | 200 | 74 | G | |
| WW-FLS103T53FN072B-(WCP)-UR-EP | Natural White | | | | | | 4000K | 218 | 81 | G | | |
| WW-FLS103T53FS072B-(WCP)-UR-EP | Standard White | 6000K | 218 | 81 | G | | | | | | | |
| E 65 | WW-FLS103T53FX072F-(WCP)-HR-EP | / | / | / | 2.44 | 2.92 | RED | 625-635nm | 64 | 26 | / | DC 24V |
| | WW-FLS103T53FX072F-(WCP)-HR-EP | / | / | / | 2.50 | 3.00 | GREEN | 515-525nm | 178 | 71 | / | |
| | WW-FLS103T53FX072F-(WCP)-HR-EP | / | / | / | 2.50 | 3.00 | BLUE | 465-475nm | 46 | 18 | / | |
| | WW-FLS103T53FW072F-(WCP)-HR-EP | 80 | 82 | 96 | 2.70 | 2.97 | Warm White | 2500K | 214 | 75.4 | G | |
| | WW-FLS103T53FW072F-(WCP)-HR-EP | | | | | | Warm White | 2700K | 226 | 79.6 | G | |
| | WW-FLS103T53FW072F-(WCP)-HR-EP | | | | | | Warm White | 3000K | 226 | 79.6 | G | |
| | WW-FLS103T53FN072F-(WCP)-HR-EP | | | | | | Natural White | 4000K | 244 | 85.9 | F | |
| | WW-FLS103T53FS072F-(WCP)-HR-EP | Standard White | 6000K | 244 | 85.9 | F | | | | | | |
| | WW-FLS103T53FX072B-(WCP)-UR-EP | / | / | / | 2.44 | 2.92 | RED | 625-635nm | 64 | 26 | / | DC 24V |
| | WW-FLS103T53FX072B-(WCP)-UR-EP | / | / | / | 2.50 | 3.00 | GREEN | 515-525nm | 178 | 71 | / | |
| | WW-FLS103T53FX072B-(WCP)-UR-EP | / | / | / | 2.50 | 3.00 | BLUE | 465-475nm | 46 | 18 | / | |
| | WW-FLS103T53FW072F-(WCP)-UR-EP | 90 | 90 | 100 | 2.70 | 2.97 | Warm White | 2500K | 184 | 64.8 | G | |
| | WW-FLS103T53FW072F-(WCP)-UR-EP | | | | | | Warm White | 2700K | 194 | 68.3 | G | |
| | WW-FLS103T53FW072F-(WCP)-UR-EP | | | | | | Warm White | 3000K | 194 | 68.3 | G | |
| WW-FLS103T53FN072F-(WCP)-UR-EP | Natural White | | | | | | 4000K | 210 | 73.9 | G | | |
| WW-FLS103T53FS072F-(WCP)-UR-EP | Standard White | 6000K | 210 | 73.9 | G | | | | | | | |

Remarks:

- *The above color temperature is the color temperature of LED source.

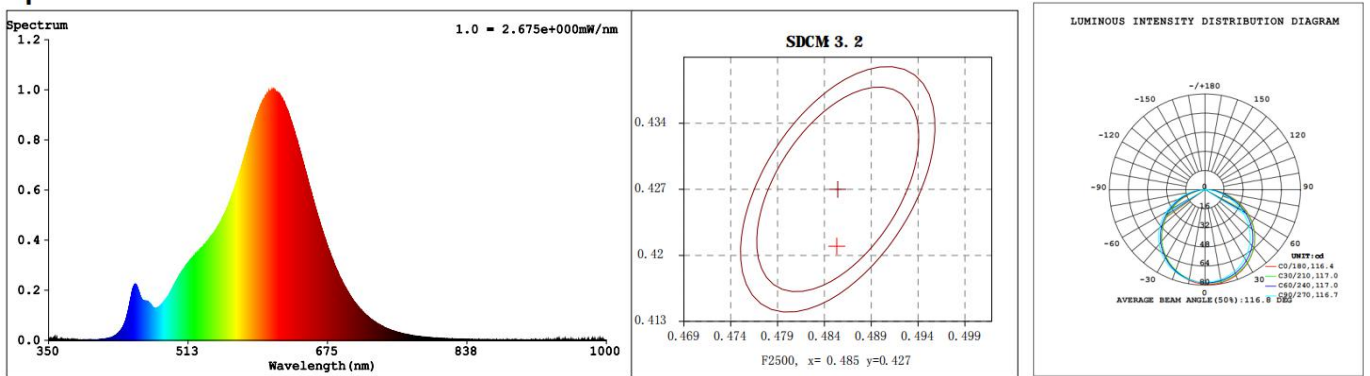
Test condition of above technical data:

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

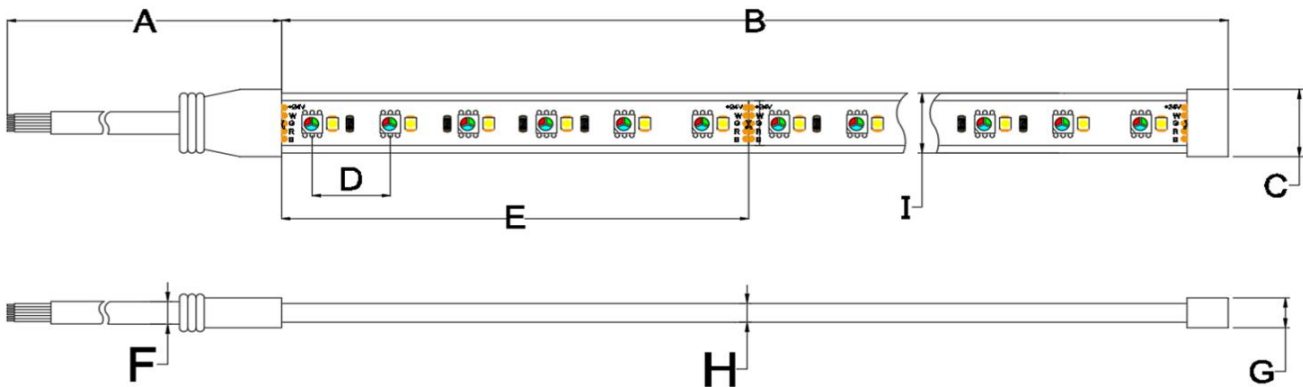
ErP Note:

- 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 \leq Pon +5% ;
- Measured lumen \geq Useful luminous flux -10%;
- Measured CRI \geq 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 $\pm 20\%$ (RGB Light) (subject to the manufacturer's instrument test).

Optical Test Diagram



Dimension Drawing

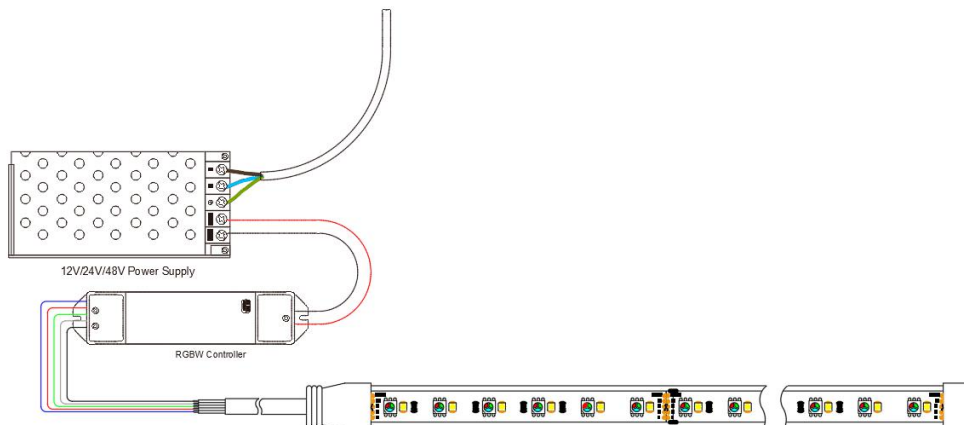


| IP Grade | A Cable Length | B Strip length | C Cap width | D Distance of LEDs | E Cutting unit length | F cable diameter | G Cap thickness | H Strip thickness | I Strip width |
|----------|-------------------|-------------------|----------------|-----------------------|--------------------------|---------------------|--------------------|----------------------|------------------|
| B 20 | 300±10mm | 5000±50mm | / | 27.78±0.2mm | 166.67±0.2mm | 6±0.2mm | / | 2.1±0.5mm | 12±0.5mm |
| | 11.81±0.39in | 196.85±1.97in | / | 1.09±0.01in | 6.56±0.01in | 0.24±0.01in | / | 0.083±0.02in | 0.47±0.02in |
| F 65 | 300±10mm | 5020±50mm | 16.5±0.5mm | 27.78±0.2mm | 166.67±0.2mm | 6±0.2mm | 6±0.5mm | 4.0±0.5mm | 14±0.5mm |
| | 11.81±0.39in | 197.64±1.97in | 0.65±0.02in | 1.09±0.01in | 6.56±0.01in | 0.24±0.01in | 0.24±0.02in | 0.16±0.02in | 0.55±0.02in |


Remarks:

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




Circuit Diagram



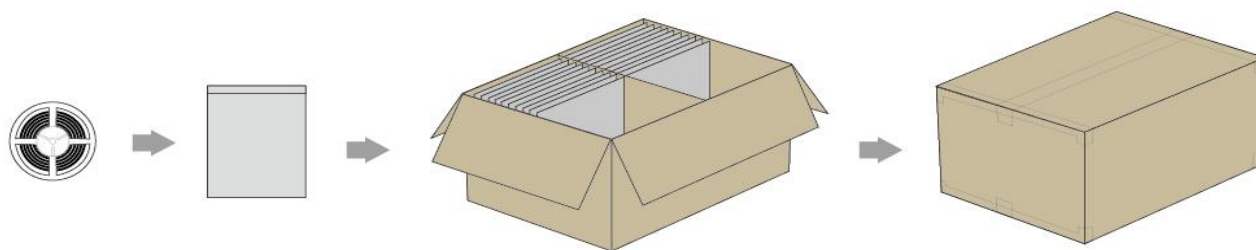
Standard Accessories

| IP Grade | Category | Description | Picture | Part No. | Application |
|----------|--------------------------|----------------------------|--|-----------------|------------------|
| B 20 | / | / | / | / | / |
| F 65 | Installation Accessories | Installation Buckle+Screws |  | WW-FLS102JJA-MC | Waterproof strip |

Optional Accessories

| IP Grade | Category | Description | Picture | Part No. | Application |
|----------|--------------------------|-------------------------------|--|-----------------------|-------------|
| B 20 | Strip to strip Connector | 2PIN Strip to strip Connector |  | WW-FLS201B-2FS5(12MM) | ≤84LEDs/M |
| | Strip to strip Connector | 2PIN Strip to strip Connector |  | WW-FLS201B-2DD5(12MM) | ≤84LEDs/M |
| | Strip to strip Connector | 2PIN Strip to strip Connector |  | WW-FLS201B-2FD5(12MM) | ≤84LEDs/M |

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 | 5.2 KG ±10% | 9.15 KG ±10% | 0.045m³ |
| | 9.84*10.63*0.0055 in | / | / | 17.32*15.75 *10.24 in | 50 | 11.45 Lbs ±10% | 20.15 Lbs ±10% | 1.62ft³ |
| F 65 | 250*270*0.14mm | / | / | 440*400 *260mm | 36 | 9.14 KG ±10% | 12.35 KG ±10% | 0.045m³ |
| | 9.84*10.63*0.0055 in | / | / | 17.32*15.75 *10.24 in | 36 | 20.13 Lbs ±10% | 27.2 Lbs ±10% | 1.62ft³ |


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.