

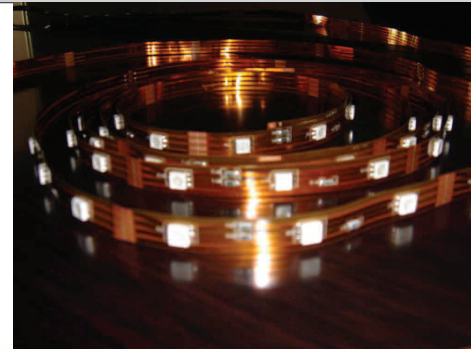
# RGB LED FLEX STRIP LIGHT

FSX-5060-5M-150-12V-RGB (X = A, B, C)

LED WORLD INC™  
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www.ledworldlighting.com

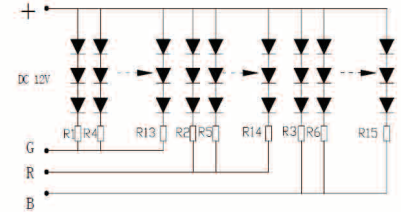
## Product Features:

- Full Color Spectrum Dynamic RGB Light in 5 meter (16.4ft) roll
- Adjustable Length - Can be trimmed at series point (100mm) 4" and rejoined
- Flexibility for Different Shapes
- Low Operation Voltage at 12V DC
- Indoor Applications
- Environment Friendly - No Mercury or Lead
- Lifetime: 30,000 Operating Hours\*
- 1 Years Limited Warranty\*



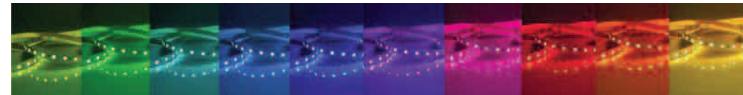
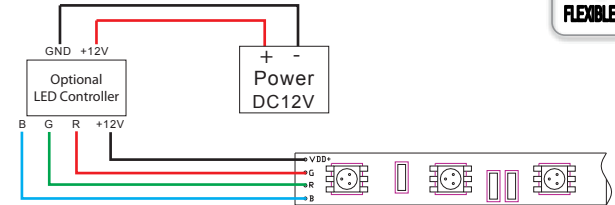
## Specification:

Model Number:	FSA-5060-5M-150-12V-RGB		
<b>Photometric Characteristics</b>			
Light Source:	150 pcs SMD 5050 RGB LEDs (5 meter roll)		
Color Wave Length:	Red - 625 nm	Green - 530 nm	Blue - 470 nm
Intensity Output:	600 mcd / chip	1300 mcd / chip	400 mcd / chip
Beam Angle:	120° (Each Spot)		
Effective Lifetime:	>30,000 hrs (70% Lumen Maintenance)		
<b>Mechanical Characteristics</b>			
Dimension (Type A):	FPC: 5000 mm (L) x 10 mm (W) x 2.5 mm (H)		
Mounting	Adhesive Tape Backing		
Pitch Distance of LEDs	33.3 mm		
No. of Segment & Length:	50 Segments (Coupon) x 100 mm (3.94")		
Bend Radius:	25mm		
Protection Rating:	IP 54 Type C, IP 44 Type B, IP 22 Type A (indoor, dry)		
Package:	5 m / Reel (16.4ft)		
<b>Electrical Characteristics</b>			
Total Wattage:	36W per Reel		
Input Voltage:	12V DC		
Input Current:	3A per Reel		
Current per Segment:	60mA per Segment		
LED Controller:	12V RGB LEDs Controller (Sold Separately)		
LED Power Supplier:	CLASS II DC 12V Power Adapter (Sold Separately)		
<b>Temperature Range</b>			
Operation Temperature:	-35°C to 45°C		
Storage Temperature:	-40°C to 50°C		



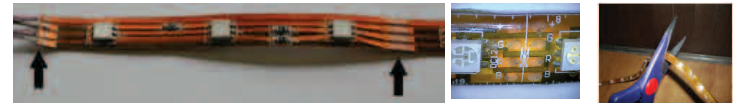
Model  
FSX-5060-5M-150-12V-RGB

- Color
- Voltage
- LED Amount
- Roll size in meters
- LED type, SMD used
- Flex Strip IP type (A, B, C)
- X = (A = IP22, B = IP44 C = IP54)

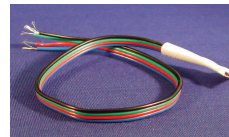


### Changes color VIA controller!

Solder connection points are spaced at 50 cm (19.7"). Cut points are at every 3 LEDs (for 12v), 100mm (3.9"). After cutting, area must be protected and resealed against possible contact with conductive material.



### Q-Connectors:



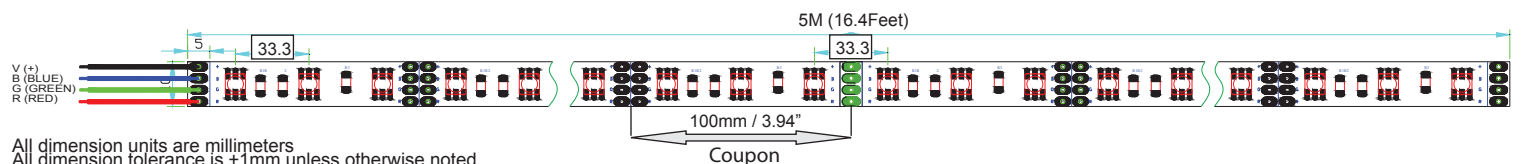
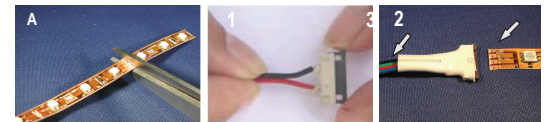
ITEM: MF1D  
Four wire connector for connecting to RGB LED Flex Strip to controller.



ITEM: MF2 (RGB color 4 wire)  
Mini Splice connector. Connect two pieces of LED Flex Strip.



ITEM: MF2W  
Connect two pieces of LED RGB Flex Strip with four wire.



All dimension units are millimeters  
All dimension tolerance is ±1mm unless otherwise noted.

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### Theory of Color and RGB Lighting:

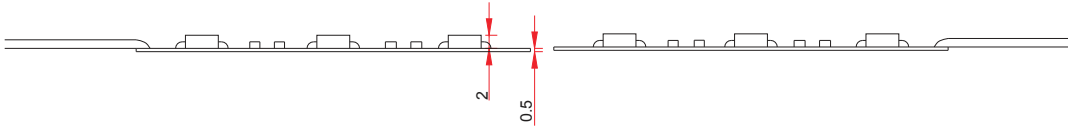
When the three primary colors (red, green and blue) of light are mixed, the intensities of the colored light is being added. The mixing of colored light is called additive color mixing and in a nutshell, this is the purpose of the RGB LED Controller. It mixes the three colors to create other colors. White light is perceived where all three additive primaries overlap. Since the white mixture results from the adding of three color light sources, the white light appears to be the brightest of all. By varying the intensities of the individual light sources, a full range of colors can be obtained



### Note:

Exceeding maximum voltage may damage LED and create a potential electrical hazard.  
\* Actual life of LED will vary with application. Operation temperature must not exceed (Tc) 45C.  
Maximum bend radius is 25mm at tape point or connection point (no electronic components at bend).

Notes: 1. All dimension units are millimeters.  
2. All dimension tolerance is ±1mm unless otherwise noted



### WARNING: INSTALLATION FOR QUALIFIED PERSONNEL ONLY

Install LED Flex Strip in accordance with the National Electric Code (NEC), all applicable Federal, Provincial, State and local electric codes. Follow all instructions enclosed with product as other important safety instructions may not be mentioned in this document.  
Licensed electricians should provide all installation services for connection of both primary and secondary of the power supplies (class II type).  
During installation, do not damage the printed circuit. Exposed wires can cause short circuit damaging product and creating a serious hazard. Make sure connection points are seal with non-conductive material electrical material.

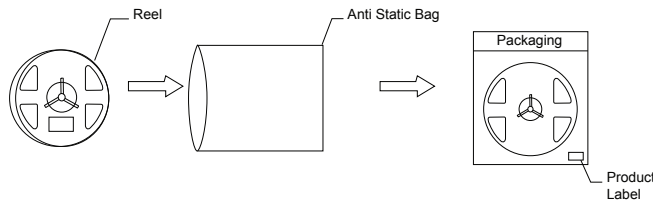
Only qualified electrician can perform installation. Correct polarity is imperative (+/- is marked on printed circuit). Parallel connection only.

- Voltage must not exceed 12VDC and must be regulated. The Voltage is printed every 3 LEDs. Check that it is the correct voltage before apply power.
- For professional and commercial use only.
- Power source must be able to provide adequate power for operating load.
- Maximum length is 5 meters in one run. DO NOT EXCEED OR EXTEND!
- Keep out of children's reach. This is not a toy.
- Static electricity can damage LEDs.
- Keep away from flammable material(s) or possibility of in the future. DO NOT install on flammable material.
- Keep away from water or wet areas.
- Carefully check that there is no wire cross-over or possibility in the future in area of installation.
- Inspect installation after one hour and regularly thereafter.
- Keep Flex strip spaced 1" apart with adequate cooling provisions.
- Not for use in mission critical applications such as, aircraft or life saving equipment or Exit signs.
- Connection soldering can be made on selected soldering area 50 cm (19.7") marks.
- The light and all its components cannot be mechanically pressed.
- Max. Soldering temperature cannot exceed 250 Celsius degree for a max of 6 seconds at marked solder points.
- Caution: LED Flex Strip may be hot to touch when powered.
- Power source must have protection against; short circuit, overload and overheat.

DO NOT POWER ON WHEN ON ROLL. Lighting must be installed in a straight line. DO NOT CURL OR TWIST with power on. Roll out completely straight before applying power. Product may overheat if power is applied when rolled. Do not install in walls or through walls. For stationary use only not subjected to movement.

### Packaging: Anti Static Bag

Quantity: roll  
Size: 24x21.5 (cm)  
Weight: 0.2kg



Type/Color

Project:

Item:

Length: