

PROLUX 5050 RGBW LED STRIP

PL-FS5050-RGBW-60-12/24

DATA SHEET



Prolux 5050 60/m RGBW LED strip combines the colour-changing features of our Prolux 5050 RGB strip with the addition of a single white colour in the same diode. The standard white is 6000K cool white; other colour temperatures are available on request. Prolux 5050 offers the potential to construct displays with a wide range of static colours, colour-changing effects and a pure, bright white when required.

PRODUCT FEATURES

- 60 LEDs/m flexible LED strip
- Easy installation
- Input 12V or 24V DC
- Certified to UL, TUV, CE, RoHS and comes with a 3 year warranty
- Suitable for use in many different conditions; weather resistant with IP65 rating optional
- Prolux 5050 60/m RGBW LED strip has 3M adhesive backing tape along its entire length, a high-quality double layer PCB and gold wire bonding
- Also available as finish assembled, plug & play Prolux 5050 60/m RGBW LED strip kits

Note:

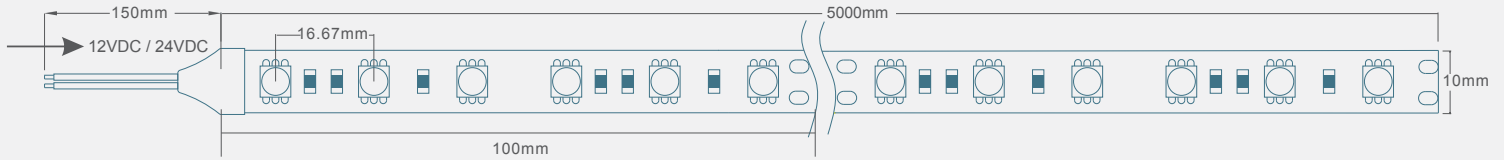
1. Luminous Flux test tolerance: $\pm 10\%$
2. CRI test tolerance: ± 1
3. Voltage test tolerance: $\pm 1V$
4. The CCT value of IP65 rated LED strip may vary
5. Luminous Flux value is the brightness per meter of strip

PRODUCT PROPERTIES

Properties	Rated Value
Forward Voltage DC	12V/24V
Forward Current	1200mA/m
Power	14.4W/m
PCB Width	10mm
Copper Thickness	3oz
Min. Element Size	100mm
Min. Buckling Radius	$\geq 50\text{mm}$
Beam Angle	120°
Static Electricity	800V
Working Temp.	-20~+40°C
Working Humidity	90%
Storage Temp.	-40~+80°C
Junction Temperature	115°C
IP Grade	<ul style="list-style-type: none"> • IP20 nonwaterproof • IP65 silicon coated • IP67 silicon tube only • IP68 silicon tube+inject silicon glue
LED Colour Temperature	<ul style="list-style-type: none"> • RGB+WW2700-2900K,2900-3200K • RGB+NW3800-4300K • RGB+PW6000-6500K

Absolute Maximum Rating at Ta (Ambient Temperature)=25°C

TECHNICAL DATA



- Dimensions in mm
- Width tolerance: $\pm 0.2\text{mm}$

- Thickness tolerance: $\pm 0.1\text{mm}$ (except for IP65 rated LED strips)
- Can be cut every 100mm at the scissor sign

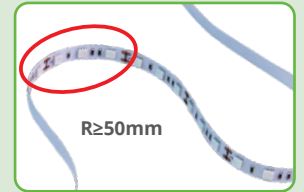
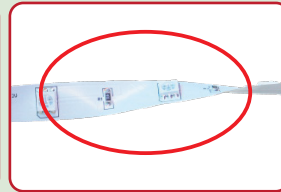
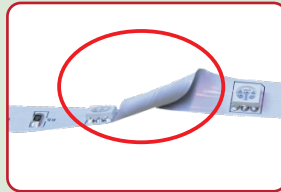
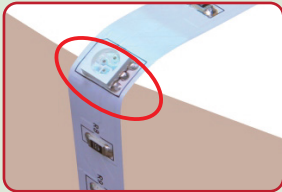
INSTALLATION

Installation Technique

- The flexible LED strip can be bonded to a smooth surface of many different materials.
- Cut the LED strip to the required length (every 25mm or 50mm at the 'scissor' sign).
- Use the appropriate end-connection accessories or solder wire to the copper soldering joints for combining lengths, making connections around corners and/or connecting the LED strip to a transformer/driver.

- Degrease the bonding surface with a surface cleaner before attaching the LED strip.
- Remove the protective film from the back surface of the LED strip and bond to the bonding surface to complete the installation.

Note: Addlux also supplies ready finished kits for a hassle-free, plug & play installation. Please enquire.



DISTORTION (WRONG)

BEND (CORRECT)

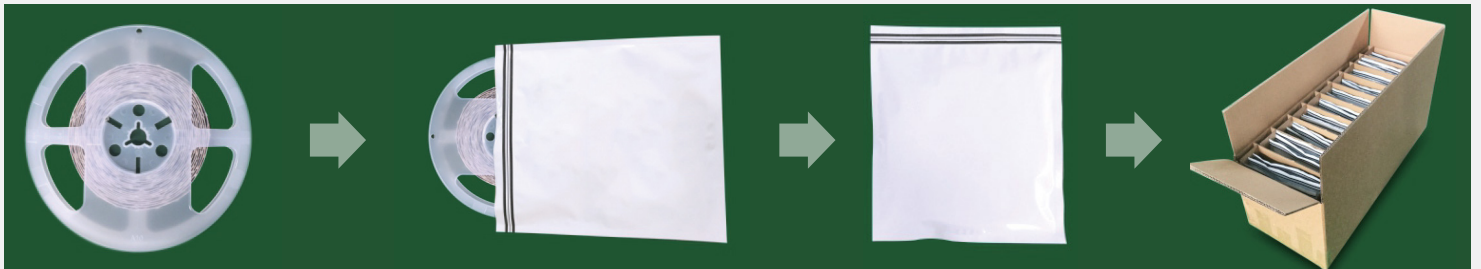
WARNINGS

- The LED strip can be bent to a minimum radius of 50mm. DO NOT bend sharply, twist the strip or mishandle the diode, see diagram.
- Connect only to the appropriate 12V or 24V transformer/driver. Do NOT connect the strip directly to 240V or 110V mains power. It

will permanently damage the LEDs.

- We recommend that electrical connections should only be made by a trained person.

PACKAGING



Carton Option 1

70 × 27 × 27cm

Quantity:

IP20 50 rolls (250m)
IP65 40 rolls (200m)

Carton Option 2

39.5 × 39.5 × 24cm

Quantity:

IP20 60 rolls (300m)
IP65 60 rolls (300m)

Note:

1. LED strip in 5m lengths is coiled on a spool and packed in a single protective aluminium foil bag. Two different carton quantities are available
2. All the packaging materials are RoHS certified
3. Do not place heavy loads on the cartons containing the rolls of LED strip