



YJ-RB-RGB-12V

YJ-RB-RGB-24V

LED Flexible Ribbon

Applications

- High-end architectural/residential lighting
- Architectural displays/sides of buildings
- Ambient lighting



Features

- Full control on color combinations
- 12V DC, 60 LEDs per meter, can be cut every 3 LEDs
- 24V DC, 60 LEDs per meter, can be cut every 6 LEDs
- 5000mm (length) × 10mm (width), 140g per reel
- Improved adhesive backing for easy installation

[About Yujileads®](#)

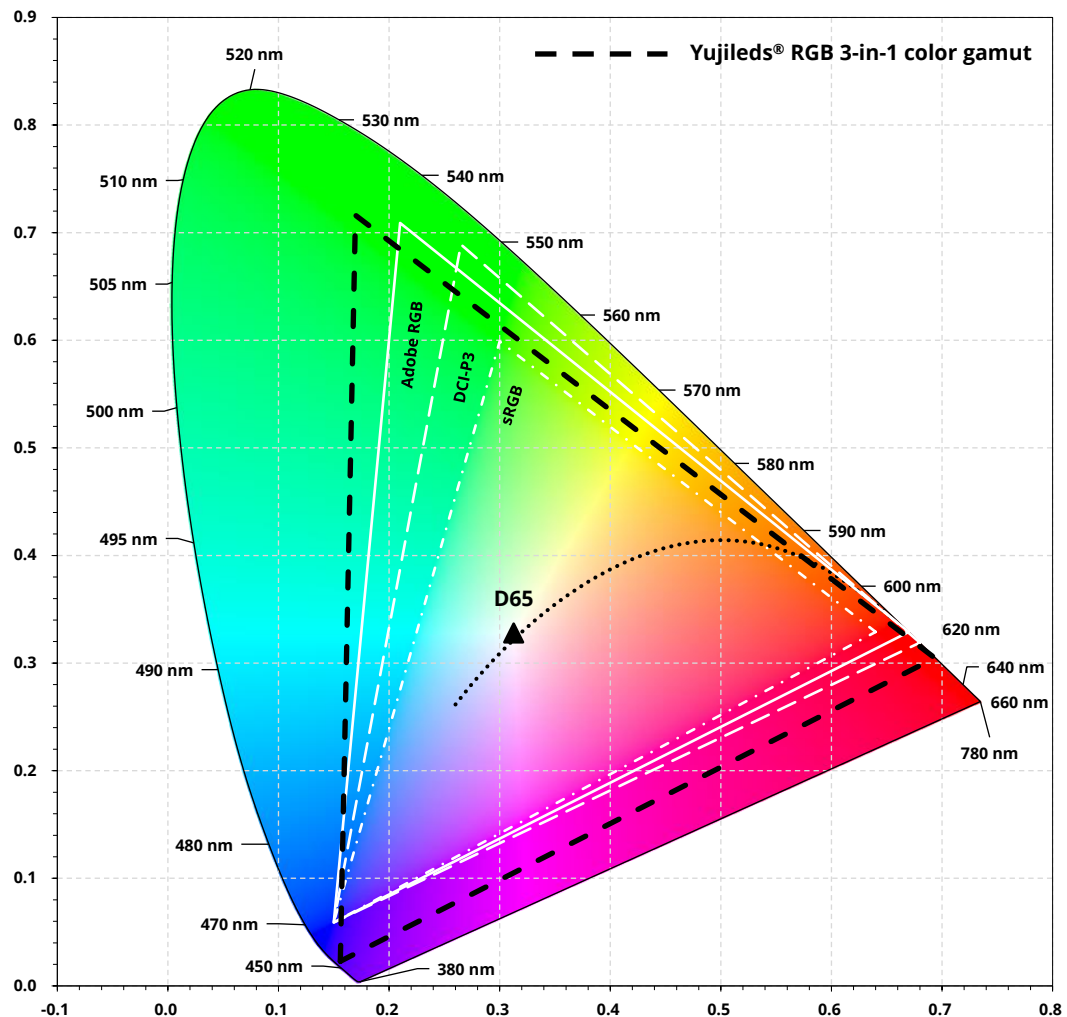
Rev Version: 2.0

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General description

Yujileads® RGB 3-in-1 LED flexible strip lights are RGB linear color changing LEDs mounted on the flexible strips with the full flexibility of color tuning, it provides wide color gamut coverage, high accuracy and chromaticity consistency.



Ordering information

PART NUMBER	PRODUCT CODE	Voltage (DC)	COLOR
YJ-RB-RGB-12V	F3190015.01	12V	Red, Green, Blue
YJ-RB-RGB-24V	F3190016.01	24V	Red, Green, Blue

Characteristic

Electrical-optical characteristics ($T_A = 25^\circ\text{C}$, 12V DC)

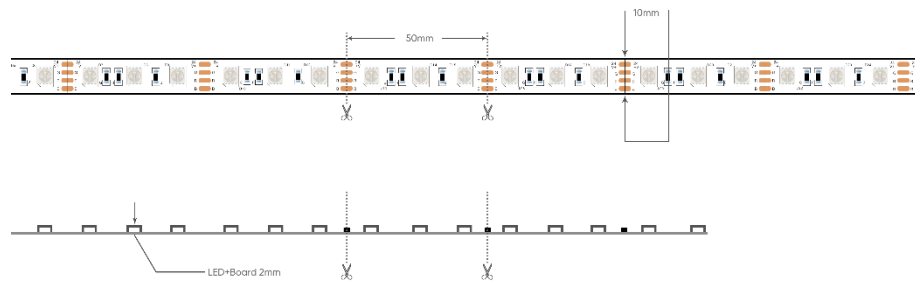
PARAMETER	SYMBOL	VALUE			UNIT
		MIN.	TYP.	MAX.	
Power per meter	-	-	5.8	-	W
Luminous flux per meter	Φ_{Blue}	-	70	-	lm
	Φ_{Green}	-	250	-	
	Φ_{Red}	-	100	-	
View angle	$2\theta_{1/2}$	-	120	-	Deg

Electrical-optical characteristics ($T_A = 25^\circ\text{C}$, 24V DC)

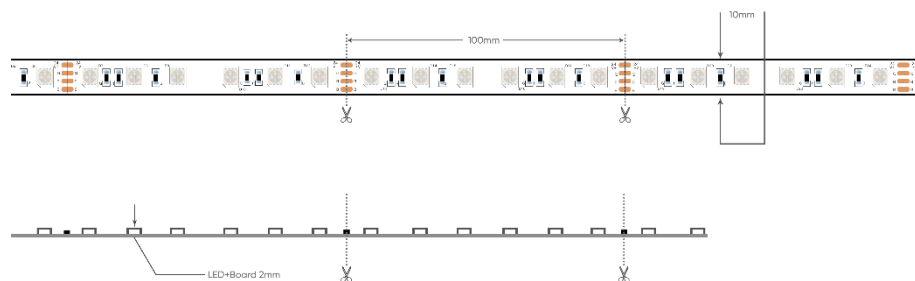
PARAMETER	SYMBOL	VALUE			UNIT
		MIN.	TYP.	MAX.	
Power per meter	-	-	5.8	-	W
Luminous flux per meter	Φ_{Blue}	-	70	-	lm
	Φ_{Green}	-	250	-	
	Φ_{Red}	-	100	-	
View angle	$2\theta_{1/2}$	-	120	-	Deg

Dimensions

12V



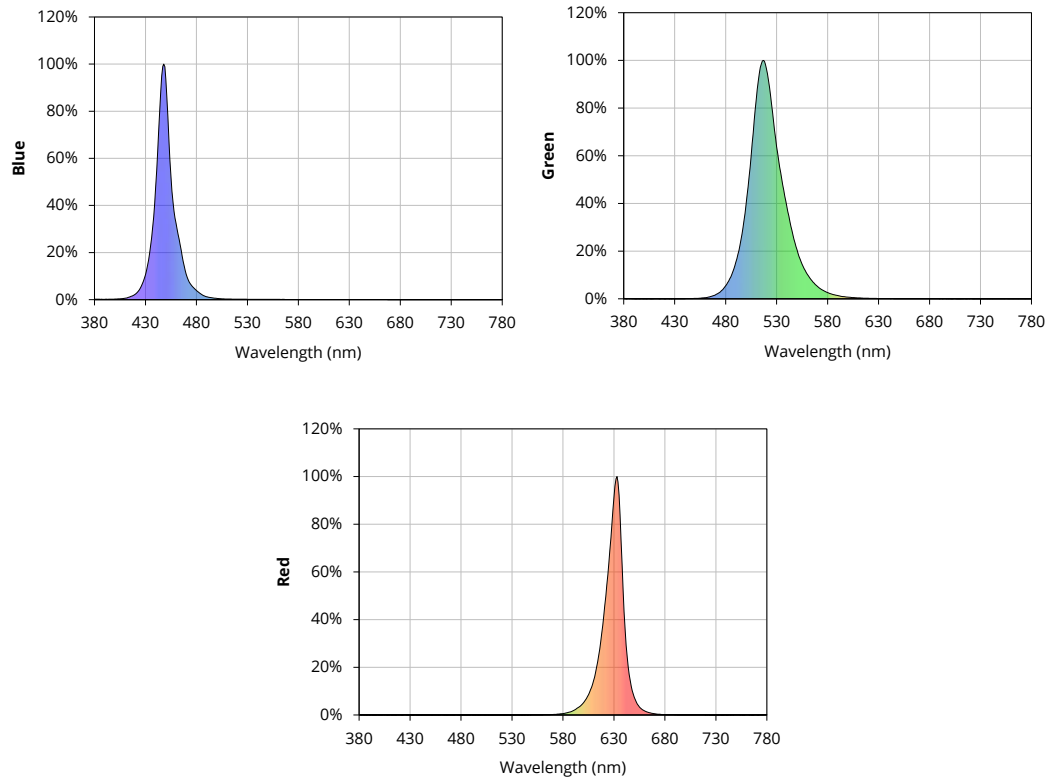
24V



Characteristic graph

Typical spectral power distribution (normalized)

All characteristic curves are for reference only and not guaranteed.



Additional notes

Selecting power supply

The wattage / amperage requirement is directly proportional to the length of LED flexible strip installed. Calculate the power requirement by multiplying the total length in meters by the maximum wattage or amperage per meter. For additional power supply stability, we recommend specifying 25% additional power capacity above the requirement. For example, a 5 meter length would require 5 meters x 18W / meter = 90W; for power supply stability, we would recommend a power supply that is capable of supplying at least 112.5W (90W + 25% * 90W).

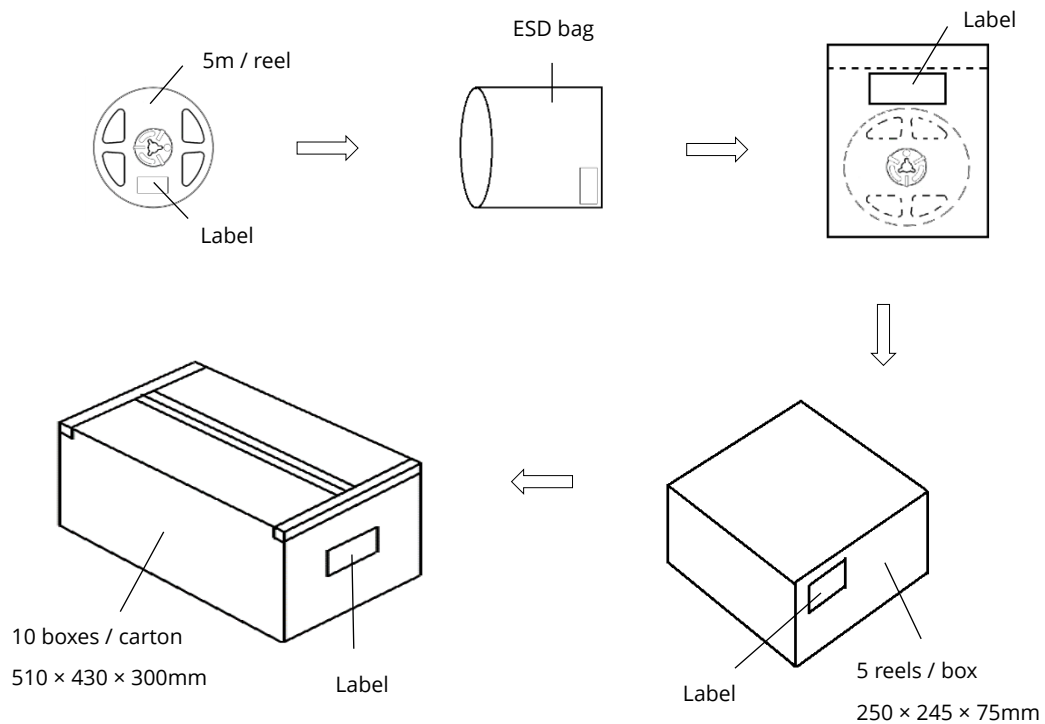
Dimming

Our LED flex strips are compatible with 1-10V and PWM dimming systems.

Heat management

Heatsinking is not necessary if product is used in standard indoor environments where ambient temperatures do not exceed 50°C. Our testing at Ta = 25°C shows LED solder point temperatures stabilizing at 50-60°C. Maximum allowed LED solder point temperature is 105°C.

Box packaging



- Each inner box contains up to 5 reels (total maximum length is 25m). Box package size: 250 mm × 245 mm × 75 mm.
- Each outer package contains 10 inner boxes. Box size: 510 mm × 430 mm × 300 mm.
- Outer package is sealed with protective bubble wrap and foam. (Part numbers, lot numbers, quantity should appear on the label on the moisture-proof bag, part numbers).
- This packaging merely intended as a reference for standard quantity orders only – please note that actual packaging can differ depending on the order circumstances.

About Yujileads



Our story - Start from the superior stable red LED phosphor.

We started to make LED phosphor materials in 2006. White LEDs were still in very early stage, the industry focused on improving device brightness and efficiency via yellow phosphor very much. No one cared about the light quality. Based on this situation, we took a different approach and focused on red phosphor technology, which is the most important phosphor recipe for high CRI and/or low CCT LEDs, and it made Yuji become a JV partner with Mitsubishi Chemical from 2012.

Today, we are well known for our comprehensive research and full line-up production of LED phosphor from ultra-violet to near-infrared, and we are proud to commit to providing superior stable and efficient phosphors to the worldwide markets.

Our technology - Focus on LED spectrum innovation.

The industrial structure of both phosphor and LED gives us a unique view to develop our spectrum recipes. Compared to the general LED manufacturers, we have comprehensive information in evaluating the feasibility for both technical and commercial aspects. LED spectrum technology is not only about the quality of white LEDs, but also for different applications which have specialized requirements in lighting.

Yuji is one of the few companies that provide the service of designing or customizing a specific spectrum for clients, our confidence comes from the years of accumulation in focusing on the spectrum technologies and the control of LED phosphor and LED die supply-chain with thousands of successful cases in the past years. Innovating LED technologies and giving them commercial values are our eternal driving forces.

Our product - Yujileads®, stands for high-performance LED.

The trademark of Yujileads® is the identification of the LED products developed and manufactured by Yuji. We put our understanding of the LED technologies and the standard of our quality control into every LED we make. Regardless of any product series, we pay attention to expressing the high-performance feature and achieving the product value for clients and never compromise in pursuing the true performance.

Furthermore, we also care about every detail of any documentation we prepare for the product because we understand the importance to transmit accurate information to clients. It is even more critical for clients to obtain

the truth to decide the solution, rather than just a nominal high-performance.

Our client - Outstanding game players in different fields.

Clients are our proudest achievements, now over 200 of our clients are the best game players in their fields in more than 33 countries. We regard the clients' successes as our biggest accomplishments and appreciate their contribution in different fields, clients use our LEDs not just for simple lighting, but to design the lighting for plants, cameras, sensors, health, circadian rhythm, animals, and other industries that we have never imagined that our technologies can be utilized, that makes our work so meaningful.

Our service - Professional supporting team.

There is a group of people in Yuji passionate about creating maximum value for our clients. We have accumulated experience in different projects. Currently, the company gathers more than 30 experts from various fields of semiconductor, chemistry, optics, photoelectricity, circuitry, materials and color science.

Our sales team is well trained in deep LED technologies and has skilled global communication experience. Not just for sales, our team is more like a specialized consultancy to help every client succeed in different projects, and we do not only provide professional business service, but also support in the supply chain, logistics, marketing and technical discussions.

Contact us - We look forward to providing our efficient service for you.

LED website: www.yujiintl.com

Find Yujileds® high-performance LEDs, read our insights into a variety of advanced technologies and applications.

Contact: info@yujigroup.com

LED lighting website: www.yujilighting.com

Find our state-of-art LED lamps and luminaires designed for improving the lighting experience with the vision of illuminating the future.

Contact: lighting@yujigroup.com

Online shop: store.yujiintl.com

Shop your favorite Yuji Lighting product with rapid and professional service.

Contact: webstore@yujigroup.com