

PRODUCT:
SINGLE COLOR LED FLEX STRIP

FEATURES:
10 mm width flexible PCB with adhesive backing
5-meter length per roll
R / G / B / Violet
24V constant voltage compatible
Cutttable

DESCRIPTION
YUJILEDS® single color LED flexible strips are extremely versatile and can be installed in a variety of linear and curved surfaces alike. Enhanced copper traces with precision SMT resistors provide consistently high power and brightness.



ELECTRICAL-OPTICAL CHARACTERISTICS (T _A = 25 °C)							
PARAMETER	SYMBOL	VALUE			UNIT	TOLERANCE	CONDITION
		MIN.	TYP.	MAX.			
Luminous flux per meter	Red	--	950	--	lm	--	V _f = 24V
	Green	--	2100	--			
	Blue	--	310	--			
	Violet	--	30	--			
Dominant wavelength	Red	619	--	625	nm	±5	V _f = 24V
	Green	515	--	535			
	Blue	450	--	460			
	Violet	--	431	--			
Peak wavelength	Red	--	630	--	nm	±5	V _f = 24V
	Green	--	520	--			
	Blue	--	453	--			
	Violet	400	--	415			
Viewing angle	2θ1/2	--	120	--	Deg	±5	V _f = 24V

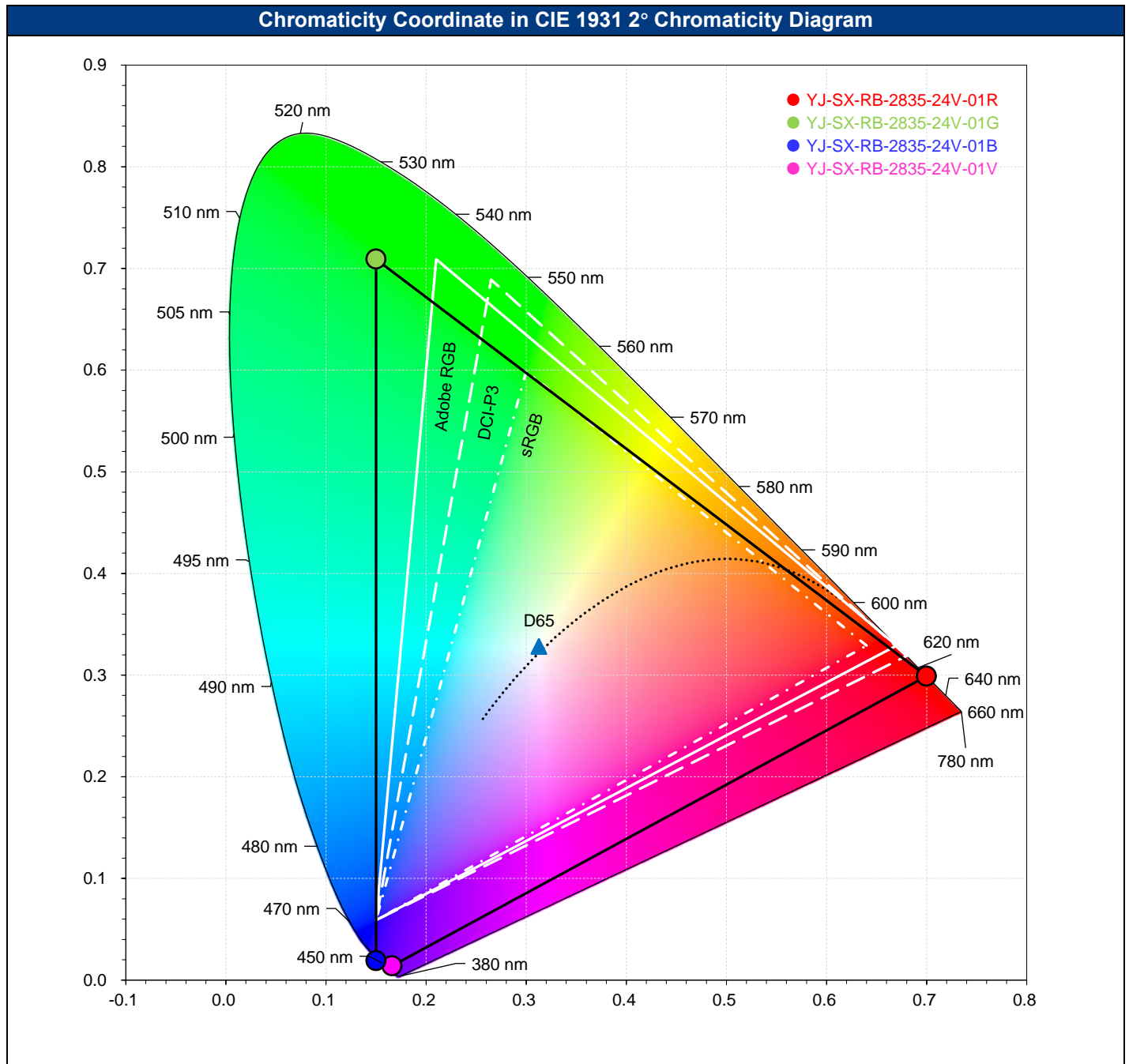
*Unless otherwise noted, specifications are based on a 1 meter segment.

**CCT range is tested under Yuji Everfine standard equipment which shall prevail, CIE1931 chromaticity coordinate tolerance ±0.0015 as reference.

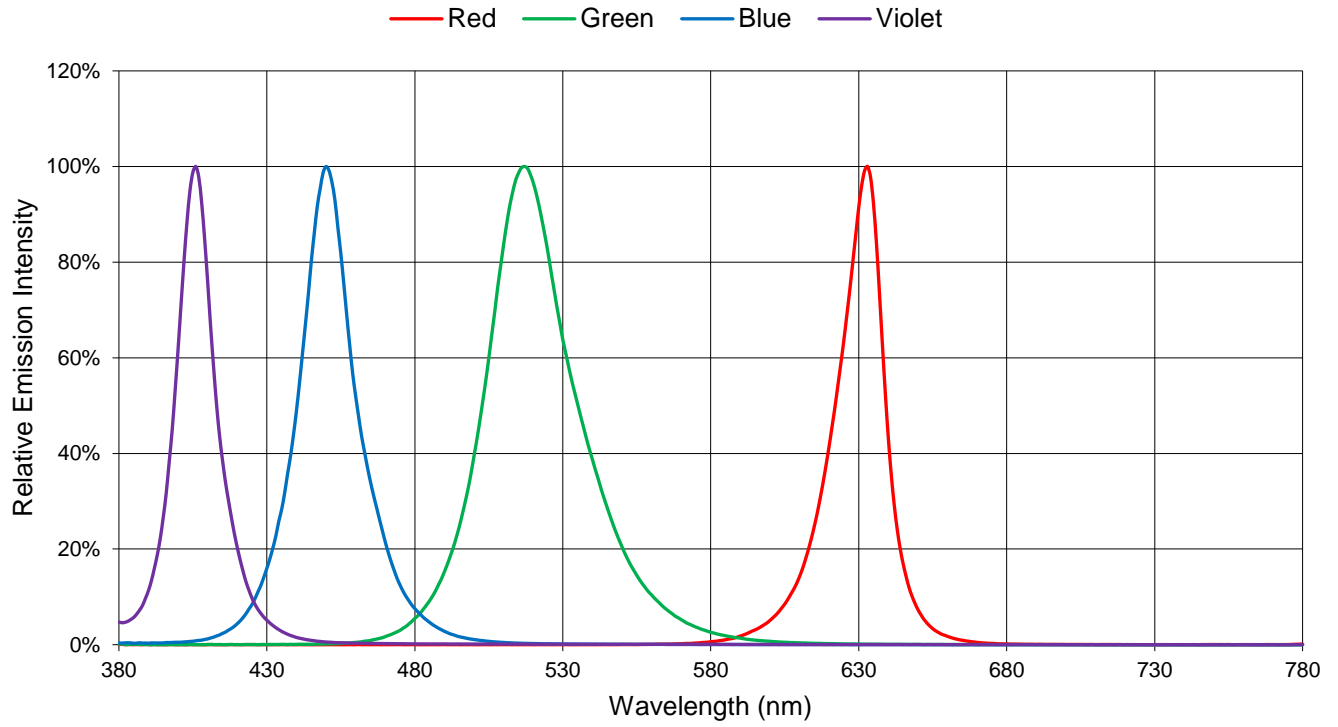
ORDERING INFORMATION	
PART NUMBER	COLOR
YJ-SX-RB-2835-24V-01R	Red
YJ-SX-RB-2835-24V-01G	Green
YJ-SX-RB-2835-24V-01B	Blue
YJ-SX-RB-2835-24V-01V	Violet

ABSOLUTE MAXIMUM RATING ($T_A = 25\text{ }^\circ\text{C}$)			
PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P_D	18*	W/m
Operating Temperature	T_{opr}	-40 ~ +85	$^\circ\text{C}$
Storage Temperature	T_{stg}	-30 ~ +85	$^\circ\text{C}$

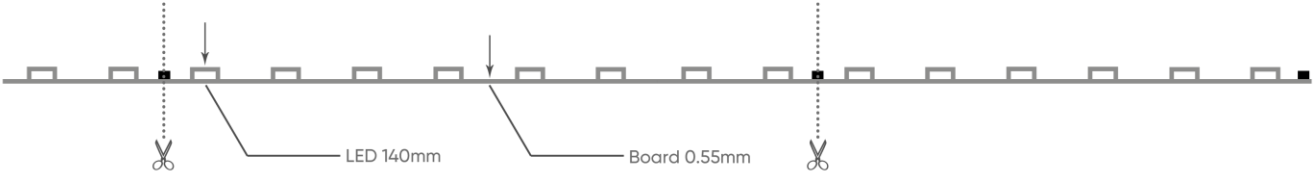
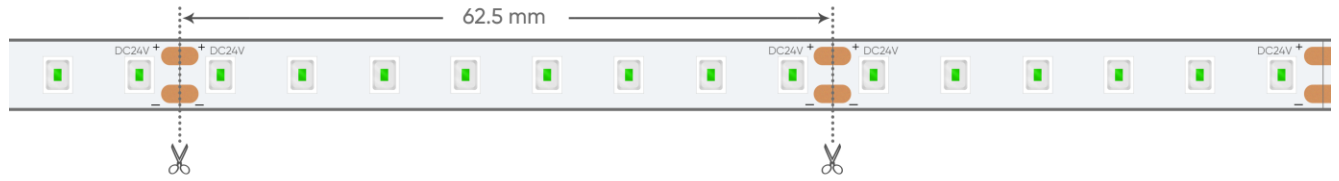
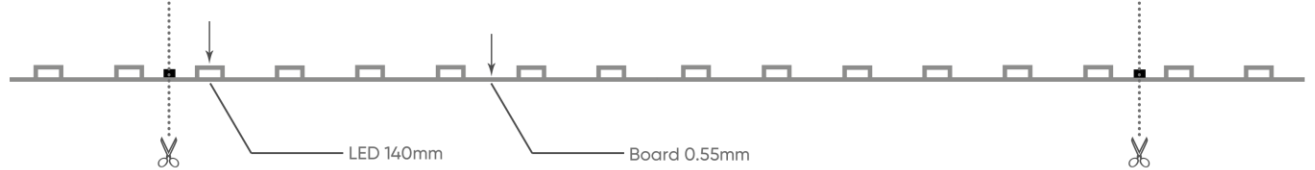
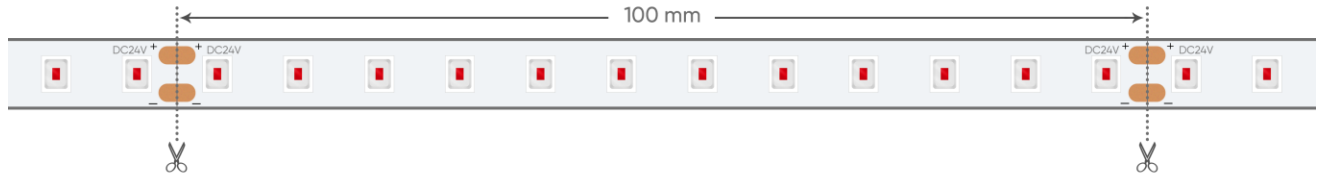
*This data is for reference only.



TYPICAL SPECTRAL DISTRIBUTION GRAPHS



DIMENSIONAL DRAWING





ADDITIONAL NOTES

SELECTING A POWER SUPPLY

The wattage/ampere 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 ampere 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 18 W / meter = 90W; for power supply stability, we would recommend a power supply that is capable of supplying at least W (90W + 25% x 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 $T_a = 25^\circ\text{C}$ shows LED solder point temperatures stabilizing at 68°C. Maximum allowed LED solder point temperature is 105°C.