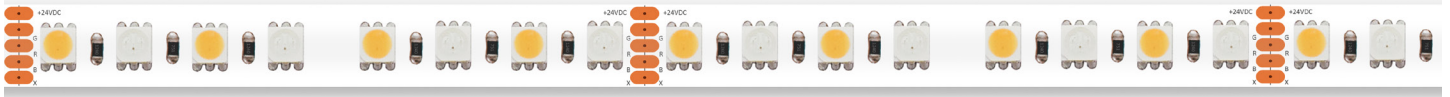# LED Strip Light -- RGBW

This flexible RGBW LED light strip is perfect for cabinet lighting, under-cabinet lighting, toe-kick lighting, cove lighting, task lighting, bookshelf lighting, showcase lighting, cupboard lighting, bias lighting, or for other indoor applications where space is limited. The 5m (16.4′) LED Strip can be easily cut into 6-LED segments and installed with its peel-and-stick adhesive backing.

Features

• Slim, flexible and cuttable design allows for easy installation and illuminates every edge with light.
• Low power consumption without heat.
• Easy installation featuring 3M VHB adhesive backing.

• High brightness with color changing output, suitable for party, entertainment and decoration.
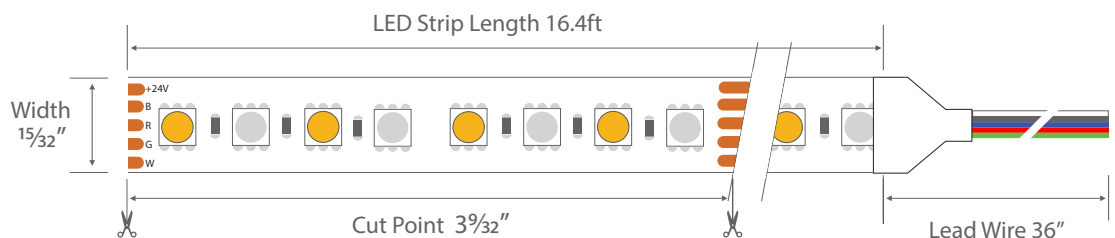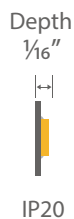• 50,000h long lifespan with 5 years limited warranty.
• UL listed.

IP 20 | RGB+W | UL E478614 | 5 YEAR WARRANTY

Specification

Input Voltage	24VDC		**LED Quantity**	29 LEDs/ft
Controller	RGB color changing controller		**No Voltage Drop**	16.4 ft Max
Lead Wire	20 AWG, 3ft (5 wires)		**LED Chip**	5050
Color	RGB + 3000K		**Operating Temperature**	-13°F~104°F
Brightness	Up to 295lm/ft		**Lumen Maintenance**	50,000 hrs
Light Efficacy	Up to 42lm/W		**IP Rating**	IP20 (Dry location)
Power Consumption	7W/ft			

Dimension

Depth 1⁄16″

IP20

Width 15⁄32″

LED Strip Length 16.4ft

+24V / B / R / G / W

Cut Point 3⁹⁄₃₂″

Lead Wire 36″

Order Information

	LED Type	LED Quantity per Meter	Color Temperature		Voltage	IP Rate
GL				+		
	5050	**96**	**RGB**-Color Changing	**3000K**	**24**-24VDC	**IP20**-Nonwaterproof

Voltage Drop Guidance Chart

This table provides general guidelines for determining Wire Gauge based on total load and distance from LED transformer to beginning of luminaire.

24V Voltage Drop & Wire Length Distance Chart (3% Drop or 23.28V)

Wire Gauge (AWG)	10W 0.42A	20W 0.83A	30W 1.3A	40W 1.7A	50W 2.1A	60W 2.5A	70W 2.9A	80W 3.3A	90W 3.75A	100W 4.2A
20	85ft	43ft	27ft	21ft	17ft	14ft	12ft	11ft	9ft	8ft
18	134ft	68ft	45ft	33ft	27ft	22ft	19ft	17ft	15ft	14ft
16	215ft	109ft	72ft	54ft	43ft	36ft	31ft	27ft	24ft	22ft

Step 1: Calculate Total Load: Check the power consumption of the LED light (e.g. 3W/ft). Calculate the total load of the LED light based on the light length (e.g. 10ft). The total load is 3W/ft x 10ft = 30W.

Step 2: Find Distance from Transformer to the Light Beginning: Check the distance between the transformer to the beginning of the light onsite. Let's assume it is 40ft. Round up to the nearest one on the table (Column 30W), which is 45ft.

Step 3: Choose Suitable Wire Gauge: According to the table (Column 30W & Row 45ft), it's recommended to use 18AWG or up wire between the transformer and LED light to eliminate voltage drop.

Note: This table is calculated based on the theoretical voltage drop formula. The wire quality, the LED light technology and environment conditions affect the result also. This table is only for reference.

LED Strip Light Comparison

	Series	Features	Color	Input Voltage	Lumen Output	No Voltage Drop	Power
	RGB HIGH BRIGHT	12V/24V	RGB	24VDC	Up to 144 lm/ft	16.4ft Max	4.4W/ft
	RGB SUPER BRIGHT	Brightest High Density	RGB	24VDC	Up to 221 lm/ft	16.4ft Max	7W/ft
	RGBW	RGB with White	RGB+ 2900K ~ 3200K, RGB+ 6000K ~ 6500K	24VDC	Up to 295 lm/ft	16.4ft Max	7W/ft
	RGB DIGITAL	Color Chasing	RGB	12VDC	Up to 144 lm/ft	16.4ft Max	4.4W/ft

G.L. LED US LIGHTING

Recommended Transformer (Sold Separately)

LED Non-Dimmable Transformer

| Model No.	Output Voltage	Wattage	Dimensions (L x W x H)	Certificates
APV-8W-24V	24V	8W	2.30x1.20x0.90in	CE, RU, Class 2
APV-35W-24V	24V	35W	3.30x2.20x1.20in	CE, RU, Class 2
XLG-150W-24V	24V	150W	5.51x2.48x1.26in	CE, RU
XLG-200W-24V	24V	200W	7.09x2.48x1.40in	CE, RU
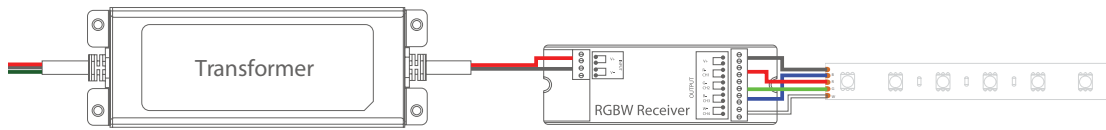
Non-Dimmable Transformer Wiring Diagram (with RGBW Receiver)

Recommended Controller (Sold Separately)

DMX RGBW Wall Mount Controller
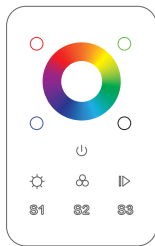
Model No.	Dimensions (L x W x H)	Certificates
DMX-RGB-WM-T-1Z-W	4.7x2.9x1.1in	TUV, CE, FC, ROHS
DMX-RGB-WM-T-3Z-W	4.7x2.9x1.1in	TUV, CE, FC, ROHS
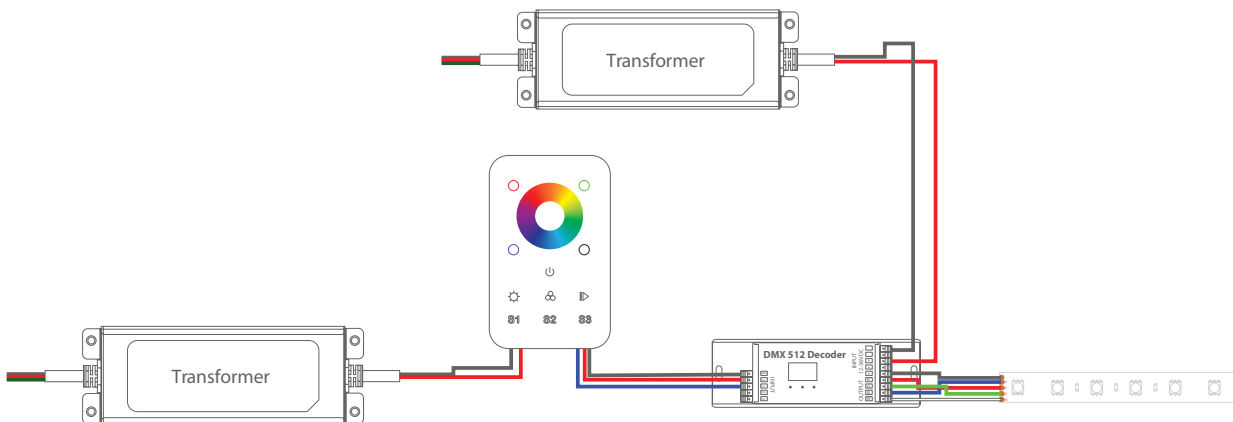
Non-Dimmable Transformer Wiring Diagram (with DMX RGBW Wall Mount Controller)

*This diagram is for references only. Please see the DMX RGB Wall Mount Controller Specification for a more accurate diagram.

Aluminum Channel Options (Sold Separately)

ES 1709 / YD 1205

YD 2002

ES 1715

YD 1806

ES 1616 / YD 1002

YD 2004

YD 1418

YD 1604

A 2033

A 2525

ES 3535

ES 5035

ES 7535

GL 079

YD 7615

GL 081

ES 2309

ES 2315 / YD 1201

ES 3011

GL 031

GL 034

JH 1716

JH 1722

JH 1713

JH 1686

YD 2601

A 2319

YD 1401

LX 1410

LX 1420

BY 5324

GL 024

GL 050

BY 5026

GL 049

BY 9819

GL 085