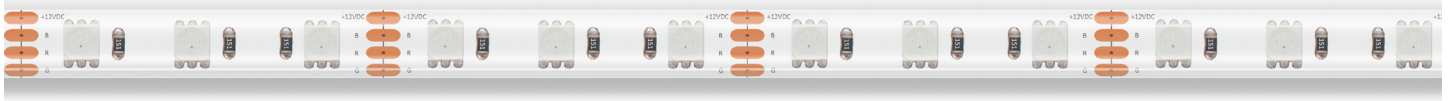# LED Strip Light -- RGB HIGH BRIGHT

This flexible RGB 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.

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.

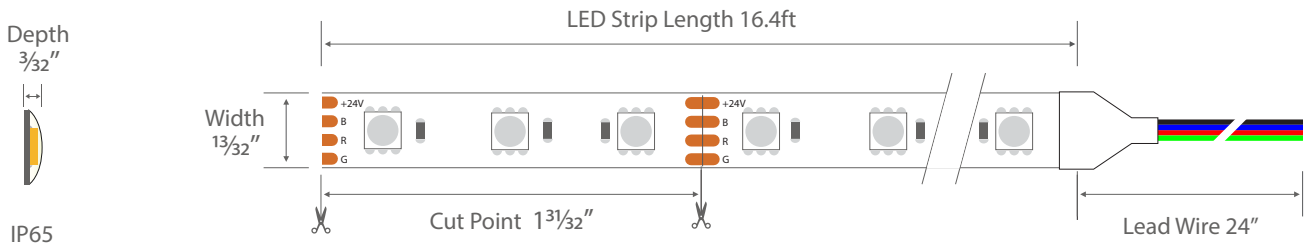• 50,000h long lifespan with 5 years limited warranty.

• UL listed.

IP 65 | E478614 | 5 YEAR WARRANTY

Specification

Input Voltage	12VDC		**LED Quantity**	18 LEDs/ft
Controller	RGB color changing controller		**No Voltage Drop**	16.4 ft Max
Lead Wire	20 AWG, 2ft (4 wires)		**LED Chip**	5050
Color	RGB		**Operating Temperature**	-13°F~104°F
Brightness	Up to 144lm/ft		**Lumen Maintenance**	50,000 hrs
Light Efficacy	Up to 33lm/W		**IP Rating**	IP65 (Wet location)
Power Consumption	4.4W/ft			

Dimension

Depth 3⁄32″

Width 13⁄32″

IP65

LED Strip Length 16.4ft

+24V B R G

Cut Point 1 31⁄32″

Lead Wire 24″

Order Information

	LED Type	LED Quantity per Meter	Color	Voltage	IP Rate
GL –					
	5050	**60**	**RGB**-Color Changing	**12**-12VDC	**IP65**-Wet location

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.

12V Voltage Drop & Wire Length Distance Chart (3% Drop or 11.64V)

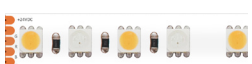| Wire Gauge (AWG)	10W 0.83A	20W 1.7A	30W 2.5A	40W 3.3A	50W 4.2A	60W 5A
20	18ft	9ft	6ft	5ft	4ft	3ft
18	34ft	17ft	11ft	8ft	6ft	5ft
16	54ft	27ft	18ft	13ft	10ft	9ft

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 10ft. Round up to the nearest one on the table (Column 30W), which is 11ft.

Step 3: Choose Suitable Wire Gauge: According to the table (Column 30W & Row 11ft), 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	12VDC	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

## Recommended Transformer (Sold Separately)

LED Non-Dimmable Transformer

| Model No.	Output Voltage	Wattage	Dimensions (L x W x H)	Certificates
APV-8W-12V	12V	8W	2.30x1.20x0.90in	CE, RU, Class 2
APV-35W-12V	12V	35W	3.30x2.20x1.20in	CE, RU, Class 2
XLG-100W-12V	12V	100W	5.51x2.48x1.26in	CE, RU
XLG-150W-12V	12V	150W	7.09x2.48x1.40in	CE, RU
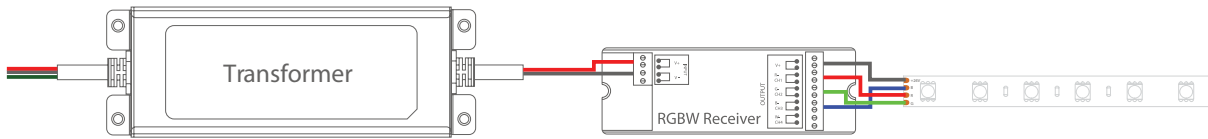
Non-Dimmable Transformer Wiring Diagram (with RGBW Receiver)

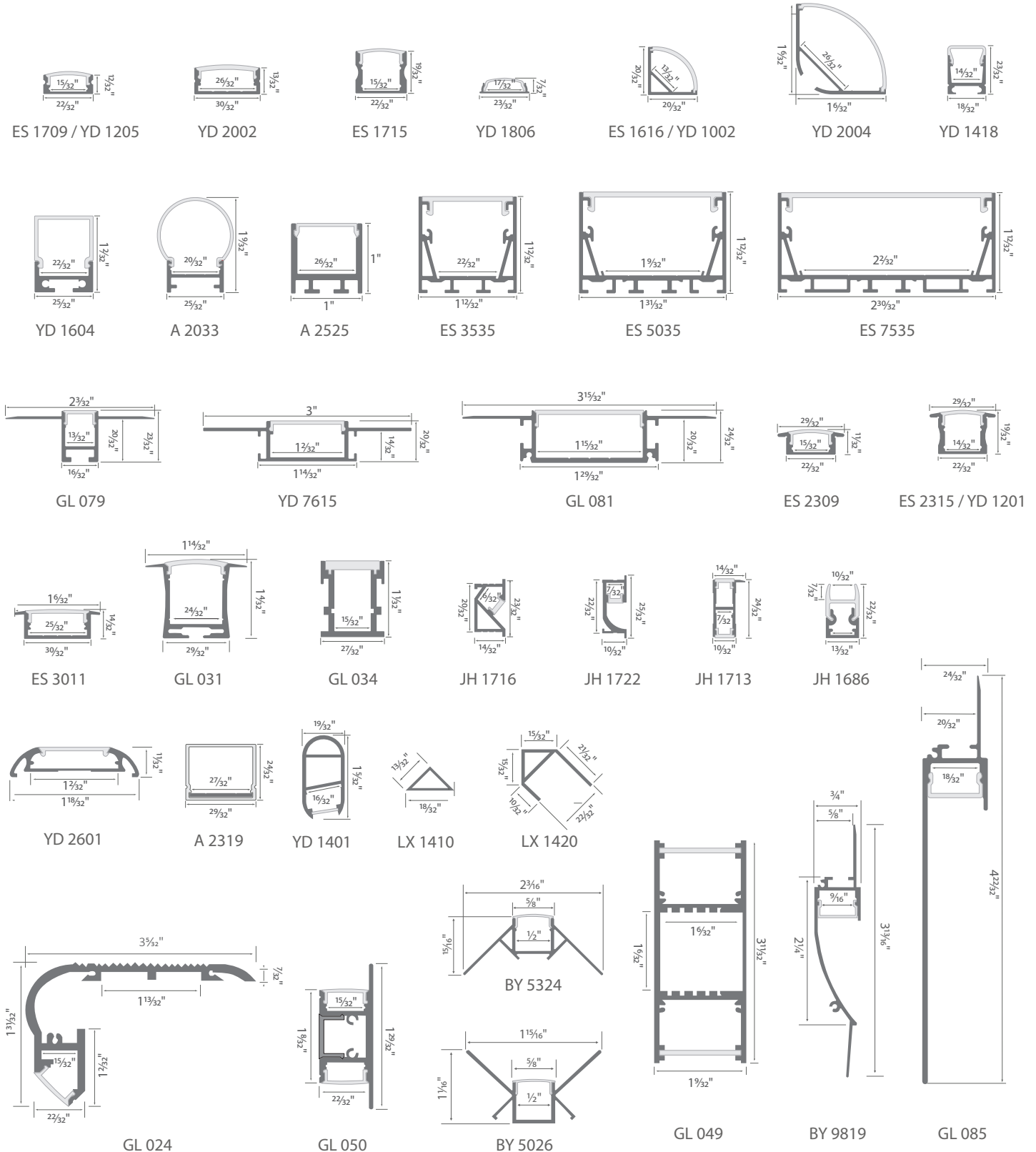## Recommended Controller (Sold Separately)

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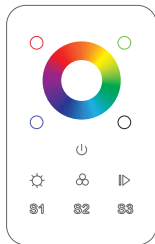
Model No.	Dimensions (L x W x H)	Certificates
DMX-RGB-WM-T-1Z-W	4.7x2.9x1.1in	TUV, CE, FC, ROHS
DMX-RGB-WM-T-3Z-W	4.7x2.9x1.1in	TUV, CE, FC, ROHS
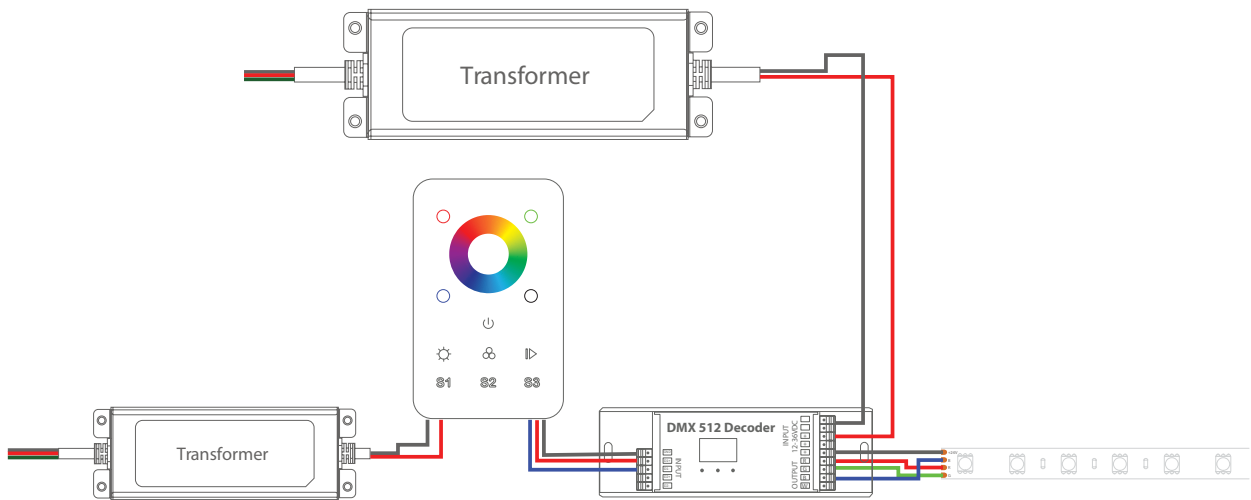
Non-Dimmable Transformer Wiring Diagram (with DMX RGBW Wall Mount Controller)

*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