

## 12.0 RGBW AND RGBA DOUBLE ROW RIBBONLYTE

This LED tape is twice as nice! RGBW and RGBA Double Row RibbonLyte provide powerful light output for our widest channels. Doubling the number of diodes helps light blend for superior dot-free solutions. Design custom channel fixtures with our aluminum extrusions and RGBW or RGBA Double Row RibbonLyte that lets you tune your light to more than 16 million unique colors! RGBW is available with White LEDs at 2700K, 3000K or 4000K for brightness. RGBA uses Amber LEDs for rich pastels.

- RGBW (White LEDs at 2700K, 3000K, 4000K)
- RGBA (uses Amber LEDs for rich pastels)
- 72 LEDs/ft (240 LEDs/m)
- 1.3 in. (33 mm) cut lengths
- IP20 for interior use
- Provides premium color blending
- 12.0 W/ft (39.4 W/m)
- RGBW all on: Up to 86 lm/W
- RGBA all on: 63 lm/W
- RGBW all on: Up to 1029.88 lm/ft (3378.01 lm/m)
- RGBA all on: 761.28 lm/ft (2497 lm/m)

### Applications:

Commercial	Hospitality	Residential
Entertainment	Museums	Retail
Healthcare	Public Spaces	



RoHS

IP20

Declare.



## ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage + Color
RB	0	RGBWADR20	
RB - Ribbonlyte	0 - Color Changing	RGBWADR20 - RGBW and RGBA Double Row IP20	<b>12.0RGB27</b> - 12.0 W/ft (39.4 W/m) RGB+2700K <b>12.0RGB30</b> - 12.0 W/ft (39.4 W/m) RGB+3000K <b>12.0RGB40</b> - 12.0 W/ft (39.4 W/m) RGB+4000K <b>12.0RGBA</b> - 12.0 W/ft (39.4 W/m) RGB+Amber

## CONNECTION OPTIONS

### 1. End Feed Bare Wire Connection (Default Option)



### 2. IP67 Connector Input



### 3. Soldered Daisy Chain



### 4. Daisy Chain with IP67 Connectors



### 5. Bare Wire on Both Ends



### Standard cable length if not specified:

1. 12 in. cable with bare wire (custom length up to 20 feet)
2. Standard 12 in. cable with IP67 connectors (custom length up to 10 feet)
3. Daisy chain with 3 in. cable between runs (custom length up to 36 in.)
4. 3 in. cable between IP67 connector and RibbonLyte (custom length up to 18 in.)
5. Standard 12 in. cable with bare wire (custom length up to 10 feet)

## AVAILABLE COLORS



RGBA



RGBW

SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

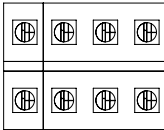

12.0 RGBW AND RGBA DOUBLE ROW RIBBONLYTE	
Operating Voltage	24 V
Colors	RGBW (2700K, 3000K, 4000K), RGBA (Amber)
Current (mA)	500 mA/ft (1410 mA/m)
LED Pitch	72 LEDs/ft (240 LED/m)
Protection Rating	IP20
Dimming/Control	DMX, DALI
Operating Temperature	-22 — 140 °F (-30 — 60 °C)
LED Beam Angle	120°
Lifetime (L70 reported)	50,000 Hours
Cutable Length	1.3 in (33 mm)
Constant Voltage	✓
Cable Length	12 in (30.5 cm)
Certifications	UL 2108 Issued: 2016/06/17 Ed: 1 Rev: 2021/10/16 Low Voltage Lighting Systems. CSA C22.2 No. 250.0, General Requirements for Luminaires. ROHS compliant. CE

RGBW (2700K)					
	Red	Green	Blue	White (2700K)	All On
Power Consumption	3.0 W/ft (9.84 W/m)	3.0 W/ft (9.84 W/m)	3.0 W/ft (9.84 W/m)	3.0 W/ft (9.84 W/m)	12.0 W/ft (39.4 W/m)
Lumen	194.72 lm/ft (638.68 lm/m)	488.07 lm/ft (1600.87 lm/m)	121.04 lm/ft (397.01 lm/m)	340.25 lm/ft (1116.02 lm/m)	874.98 lm/ft (2869.93 lm/m)
Efficacy	65 lm/W	163 lm/W	40 lm/W	113 lm/W	73 lm/W

RGBW (3000K)					
	Red	Green	Blue	White (3000K)	All On
Power Consumption	3.0 W/ft (9.84 W/m)	3.0 W/ft (9.84 W/m)	3.0 W/ft (9.84 W/m)	3.0 W/ft (9.84 W/m)	12.0 W/ft (39.4 W/m)
Lumen	156.4 lm/ft (512.99 lm/m)	438.17 lm/ft (1437.2 lm/m)	102.68 lm/ft (336.79 lm/m)	367.99 lm/ft (1207.01 lm/m)	1029.88 lm/ft (3378.01 lm/m)
Efficacy	52 lm/W	146 lm/W	34 lm/W	123 lm/W	86 lm/W

RGBW (4000K)					
	Red	Green	Blue	White (4000K)	All On
Power Consumption	3.0 W/ft (9.84 W/m)	3.0 W/ft (9.84 W/m)	3.0 W/ft (9.84 W/m)	3.0 W/ft (9.84 W/m)	12.0 W/ft (39.4 W/m)
Lumen	156.83 lm/ft (514.4 lm/m)	521.65 lm/ft (1711.01 lm/m)	109.02 lm/ft (357.59 lm/m)	458.84 lm/ft (1505 lm/m)	1004.57 lm/ft (3294.99 lm/m)
Efficacy	52 lm/W	174 lm/W	36 lm/W	153 lm/W	84 lm/W

RGBA (Amber)					
	Red	Green	Blue	Amber	All On
Power Consumption	3.0 W/ft (9.84 W/m)	3.0 W/ft (9.84 W/m)	3.0 W/ft (9.84 W/m)	3.0 W/ft (9.84 W/m)	12.0 W/ft (39.4 W/m)
Lumen	132.23 lm/ft (433.71 lm/m)	439.02 lm/ft (1439.99 lm/m)	95.85 lm/ft (314.39 lm/m)	133.26 lm/ft (437.09 lm/m)	761.28 lm/ft (2497 lm/m)
Efficacy	44 lm/W	146 lm/W	32 lm/W	44 lm/W	63 lm/W

24V DIMENSIONS	Top View	Side View	Dimensions
IP20			<b>Width:</b> 1.02 in. (26 mm) <b>Max Length:</b> 14 ft 9 in. (4.5 m) <b>Height:</b> 0.09 in. (2.3 mm)
	CUTTABLE EVERY: 1.3 in (33 mm)		

OPTIONAL ACCESSORY

1 in. VHB Tape
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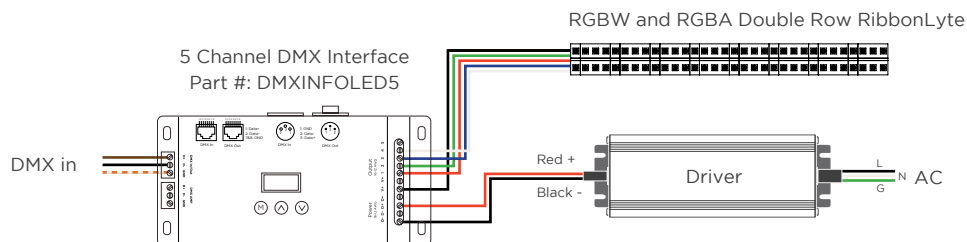


Provides superior holding power in surface mounted applications  
Part Number: VHBTAPE1.OBK

Note: RibbonLyte comes with an adhesive backing, but Acolyte recommends using VHB Tape for extra support in surface mounted applications.

WIRING DIAGRAMS / CHANNEL COMPATIBILITY / ACTUAL POWER CONSUMPTION / USAGE GUIDELINES

DMX



WIRE COLORS PER  
RIBBONLYTE COLOR

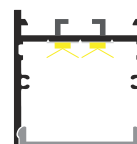
RGBW/A

Black (+) Positive  
Green Wire (-) goes to Green Channel  
Red Wire (-) goes to Red Channel  
Blue Wire (-) goes to Blue Channel  
White Wire (-) goes to White Channel

CHANNEL COMPATIBILITY / CHANNEL OPTIONS

CHANNEL	IP20	CHANNEL	IP20	CHANNEL	IP20
AC1		AS1		AS22	
AC2		AS2		AT4	
AC3		AS3		AT5	
AC4		AS6		B1	
AC5		AS11		SC3	
AR1		AS18		WH35	✓
AR3		AS20G			

SURFACE CHANNELS



WH35

W: 1.37 in. / 35 mm  
H: 1.47 in. / 37.5 mm  
Inside W: 1.23 in. / 31.2 mm

ACTUAL POWER CONSUMPTION

Length (ft)	Length (m)	Actual Power Consumed (W)	Average Wattage (W/ft)	Average Wattage (W/m)	Actual Current Drawn (A)
5	1.52	49.65	9.93	32.57	2.069
10	3.05	98.39	9.84	32.27	4.100
14.8	4.51	135.69	9.17	30.07	5.654

**NOTE:** Quotes use nominal values. We highly recommend using nominal wattages for all customer calculations. Allow for a 15% buffer (10% driver, 5% fixture) in these calculations as performance may vary. Acolyte is not liable for product performance if these tables are used instead of nominal values when orders are placed.

USAGE GUIDELINES

- When installing this product, consider the surface temperature of the material where it will be mounted. Many building surfaces which are exposed to direct sunlight exceed the 60 °C / 140 °F maximum for which our product is rated. High-risk locations like this should be avoided.
- IP20 RibbonLyte products are for indoor use in dry areas only. IP20 products are not intended to be submerged in pools and fountains and do not carry UL676 certification to do so.
- Please refer to the RibbonLyte Proper Usage Guide in our Application Guide for more information. Available for download at AcolyteLED.com.
- This product is compatible with a wide variety of control products including the entire line of Lutron dimming systems.
- For use with Acolyte drivers, 0-10V dimming modules and interface controllers (DMXINF models).
- Use with non-Acolyte supplied drivers is not supported or warrantied.
- Due to the nature of RibbonLyte products, cuttable lengths are generally longer or shorter than the customer requested length. Unless specified, RibbonLyte is factory cut at the shorter cuttable point.
- We reserve the right to make changes to product lineup, specifications, design and finishes at any time without notice.

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