

#### 4.4 RGB + WHITE & RGB + AMBER RIBBONLYTE

4.4 RGBW and RGBA RibbonLyte are DMX controlled using 3-in-1 RGB LEDs plus white or amber for a brighter or more pastel color. Use with Acolyte channel profiles to create an excellent fixture with no color refraction.

**RGB + WHITE:** Adds 3000K or 6000K to RGB to replicate tungsten and daylight.

**RGB + AMBER:** Adds 590 nanometer Amber for warm accents.

- Use with Acolyte channel profiles to create a custom fixture
- Flexible
- 24 Volt input
- 4.4 W/ft (14.4 W/m)
- RGBW all on: Up to 60 lm/W
- RGBA all on: 20 lm/W
- RGBW all on: Up to 263.93 lm/ft (865.69 lm/m)
- RGBA all on: 87.2 lm/ft (286.02 lm/m)



#### Applications:

Commercial	Hospitality	Residential
Entertainment	Museums	Retail
Healthcare	Public Spaces	



#### ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage + Color
<b>RB</b>	<b>0</b>		
RB - Ribbonlyte	0 - Color Changing	<b>RGBWA20</b> - RGBW/A IP20 <b>RGBWA65</b> - RGBW/A IP65 <b>RGBWA68</b> - RGBW/A IP68	<b>4.4RGB30</b> - 4.4 W/ft (14.4 W/m) RGB+3000K <b>4.4RGB60</b> - 4.4 W/ft (14.4 W/m) RGB+6000K <b>4.4RGBA</b> - 4.4 W/ft (14.4 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

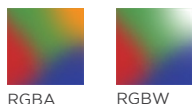


#### Standard cable length if not specified:

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)

Note: IP67 connectors are used for both IP20 and IP65/IP68 RibbonLyte

#### AVAILABLE COLORS



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SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

4.4 RGBW / 4.4 RGBA	
Operating Voltage	24 V
Color	RGBW (3000K, 6000K), RGBA (Amber)
Current (mA) - 24V	183 mA/ft (600.2 mA/m)
LED Pitch	18 LEDs/ft (60 LED/m)
Protection Rating	IP20, IP65, IP68
Dimming/Control	DMX
Operating Temperature	-40° F to 158° F (-40° C to 70° C)
LED Beam Angle	120°
Lamp Life	50,000 Hours
Cutable Length - 24V	6.55 in (166.4 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 (3000K)					
	Red	Green	Blue	White (3000K)	All On
Power Consumption	1.1 W/ft (3.6 W/m)	1.1 W/ft (3.6 W/m)	1.1 W/ft (3.6 W/m)	1.1 W/ft (3.6 W/m)	4.4 W/ft (14.4 W/m)
Lumen	25.82 lm/ft (84.69 lm/m)	54.02 lm/ft (177.19 lm/m)	16.02 lm/ft (52.55 lm/m)	177.99 lm/ft (583.81 lm/m)	263.93 lm/ft (865.7 lm/m)
Efficacy	23 lm/W	49 lm/W	15 lm/W	162 lm/W	60 lm/W

RGBW (6000K)					
	Red	Green	Blue	White (6000K)	All On
Power Consumption	1.1 W/ft (3.6 W/m)	1.1 W/ft (3.6 W/m)	1.1 W/ft (3.6 W/m)	1.1 W/ft (3.6 W/m)	4.4 W/ft (14.4 W/m)
Lumen	16.2 lm/ft (53.14 lm/m)	35.8 lm/ft (117.42 lm/m)	8.4 lm/ft (27.55 lm/m)	136 lm/ft (446.1 lm/m)	199.9 lm/ft (655.67 lm/m)
Efficacy	15 lm/W	33 lm/W	8 lm/W	124 lm/W	45 lm/W

RGBA (Amber)					
	Red	Green	Blue	Amber	All On
Power Consumption	1.1 W/ft (3.6 W/m)	1.1 W/ft (3.6 W/m)	1.1 W/ft (3.6 W/m)	1.1 W/ft (3.6 W/m)	4.4 W/ft (14.4 W/m)
Lumen	15.44 lm/ft (50.64 lm/m)	32.53 lm/ft (106.7 lm/m)	7.99 lm/ft (26.21 lm/m)	36.55 lm/ft (119.88 lm/m)	87.2 lm/ft (286 lm/m)
Efficacy	14 lm/W	30 lm/W	7 lm/W	33 lm/W	20 lm/W

24V DIMENSIONS	Top View	Side View	Dimensions
IP20	 CUTTABLE EVERY: 6.55 in (166.4 mm)		Width 0.47 in (12 mm) Max Length* 19 ft 7.9 in (6 m) Height 0.09 in (2.3 mm)
IP65	 CUTTABLE EVERY: 6.55 in (166.4 mm)		Width 0.47 in (12 mm) Max Length* 19 ft 7.9 in (6 m) Height 0.12 in (3.0 mm)
IP68	 CUTTABLE EVERY: 6.55 in (166.4 mm)		Width 0.57 in (14.4 mm) Max Length* 19 ft 7.9 in (6 m) Height 0.20 in (5 mm)

OPTIONAL ACCESSORY

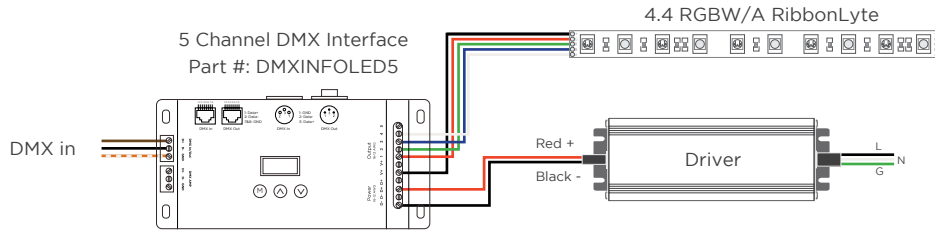
0.5 in. VHB Tape	Flat Mounting Clip	Silicone Clip
 Provides superior holding power in surface mounted applications Part Number: VHBTAPE0.5BK	 For mounting IP20/IP65 RibbonLyte Part Number: RBMNTSIL	 For mounting IP68 RibbonLyte Part Number: RBMNTSILW

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



**WIRING DIAGRAMS**

**DMX**



**WIRE COLORS PER RIBBONLYTE COLOR**

- RGBW & RGBA**  
 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

**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	21.50	4.30	14.10	0.896
10	3.05	42.42	4.24	13.91	1.768
15	4.57	62.14	4.14	13.59	2.589
19.7	6.01	80.05	4.06	13.33	3.335

**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**

- IP65 and IP68 RibbonLyte cannot be cut in the field. All custom cuts and connections for these models must be performed at the factory to ensure waterproofing standards are met. Any modification of the waterproofing will result in a void warranty.
- 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 70° C / 158° 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. IP65 RibbonLyte products can be used in indoor dry/damp locations such as bathrooms and kitchens. IP68 RibbonLyte products can be used in wet, outdoor locations around pools and spa tubs, but our 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.