

8.8 RGB + WHITE & RGB + AMBER RIBBONLYTE

8.8 RGBW and RGBA RibbonLyte are DMX controlled. Use with Acolyte channel profiles to create an excellent fixture with no color refraction.

RGB + WHITE: Adds 3000K and 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
- 8.8 W/ft (28.9 W/m)
- RGBW all on: Up to 70 lm/W
- RGBA all on: 22 lm/W
- RGBW all on: Up to 614.02 lm/ft (2013.99 lm/m)
- RGBA all on: 192.74 lm/ft (632.19 lm/m)



Applications:

Commercial	Hospitality	Residential
Entertainment	Museums	Retail
Healthcare	Public Spaces	



ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage + Color
RB	0		
RB - Ribbonlyte	0 - Color Changing	RGBWA20 - RGBW/A IP20 RGBWA65 - RGBW/A IP65 RGBWA68 - RGBW/A IP68	8.8RGB30 - 8.8 W/ft (28.9 W/m) RGB+3000K 8.8RGB60 - 8.8 W/ft (28.9 W/m) RGB+6000K 8.8RGBA - 8.8 W/ft (28.9 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



RGBA RGBW







SPECIFICATIONS / DIAGRAMS

8.8 RGBW / 8.8 RGBA	
Operating Voltage	24 V
Colors	RGBW (3000K, 6000K), RGBA (Amber)
Current (mA) - 24V	367 mA/ft (1203.8 mA/m)
LED Pitch	36 LEDs/ft (120 LEDs/m)
Protection Rating	IP20, IP65, IP68
Dimming/Control	DMX
Operating Temperature	-40° F to 158° F (-40° C to 70° C)
Binning Tolerance	+/- 100K (White)
LED Beam Angle	120°
Lamp Life	50,000 Hours
Cutable Length - 24V	3.94 in (100 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 UL. CE


RGBW (3000K)					
	Red	Green	Blue	White (3000K)	All On
Power Consumption	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	8.8 W/ft (28.9 W/m)
Lumen	56.22 lm/ft (184.4 lm/m)	120.68 lm/ft (395.83 lm/m)	36.98 lm/ft (121.29 lm/m)	444.55 lm/ft (1458.1 lm/m)	614.02 lm/ft (2013.99 lm/m)
Efficacy	26 lm/W	55 lm/W	17 lm/W	202 lm/W	70 lm/W

RGBW (6000K)					
	Red	Green	Blue	White (6000K)	All On
Power Consumption	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	8.8 W/ft (28.9 W/m)
Lumen	34.62 lm/ft (113.55 lm/m)	80.3 lm/ft (263.38 lm/m)	20.36 lm/ft (66.78 lm/m)	309.33 lm/ft (1014.6 lm/m)	436.77 lm/ft (1432.6 lm/m)
Efficacy	16 lm/W	37 lm/W	9 lm/W	141 lm/W	50 lm/W

RGBA (Amber)					
	Red	Green	Blue	Amber	All On
Power Consumption	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	8.8 W/ft (28.9 W/m)
Lumen	35.46 lm/ft (116.3 lm/m)	75.85 lm/ft (248.79 lm/m)	19.21 lm/ft (63 lm/m)	79.45 lm/ft (260.6 lm/m)	192.74 lm/ft (632.19 lm/m)
Efficacy	16 lm/W	34 lm/W	9 lm/W	36 lm/W	22 lm/W

24V DIMENSIONS	Top View	Side View	Dimensions
IP20	 CUTTABLE EVERY: 3.94 in (100 mm)		Width 0.80 in (20.2 mm) Max Length* 19 ft 7.9 in (6 m) Height 0.09 in (2.3 mm)
IP65	 CUTTABLE EVERY: 3.94 in (100 mm)		Width 0.80 in (20.2 mm) Max Length* 19 ft 7.9 in (6 m) Height 0.125 in (3.2 mm)
IP68	 CUTTABLE EVERY: 3.94 in (100 mm)		Width 0.93 in (23.6 mm) Max Length* 19 ft 7.9 in (6 m) Height 0.21 in (5.3 mm)

OPTIONAL ACCESSORY

1 in. VHB Tape	Wide Silicone Clip
 Provides superior holding power in surface mounted applications Part Number: VHBTAPE1.OBK	 For mounting IP20/IP65/IP68 RibbonLyte Part Number: RBMNTSILXL

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

CHANNEL COMPATIBILITY / CHANNEL OPTIONS

CHANNEL	IP20 IP65	IP68	SURFACE CHANNELS				
AC1							
AC2							
AC3							
AC4	✓	✓					
AC5	✓	✓					
AR1			AS13 / round milky W: 1.31 in. / 33.4 mm H: 1.29 in. / 32.7 mm Inside W: 1.22 in. / 31 mm Inside H: 1 in. / 25.3 mm				
AR3			AS13 / square milky W: 1.31 in. / 33.4 mm H: 1.37 in. / 34.8 mm Inside W: 1.22 in. / 31 mm Inside H: 1.07 in. / 27.3 mm				
AR10			AW38 W: 1.5 in. / 38 mm H: 1.31 in. / 33.4 mm Inside W: 1.22 in. / 31 mm Inside H: 1.17 in. / 29.8 mm				
AR16			AS30 W/H: 1.31 in. / 33.4 mm H: 1.17 in. / 29.6 mm Inside W: 1.17 in. / 29.8 mm Inside H: 0.93 in. / 23.6 mm				
AR20			WH35 W: 1.37 in. / 35 mm H: 1.47 in. / 37.5 mm Inside: 1.23 in. / 31.2 mm				
AR25	✓	✓	CORNER CHANNELS				
AR30	✓	✓					
AR33							
AS1			AC4 W: 1.17 in. / 29.72 mm H: 1.17 in. / 29.72 mm Inside W: 0.8 in. / 20.32 mm				
AS2			AC5 W: 1.11 in. / 28.19 mm H: 1.11 in. / 28.19 mm Inside W: 0.8 in. / 20.32 mm				
AS3			RECESSED CHANNELS				
AS6							
AS10							
AS13	✓	✓	AR25 W: 1.75 in. / 44.4 mm H: 0.94 in. / 24 mm Inside W: 1.22 in. / 31 mm Inside H: 0.91 in. / 23 mm				
AS16			AR30 W: 1.75 in. / 44.4 mm H: 0.55 in. / 14 mm Inside W: 1.22 in. / 31 mm Inside H: 0.51 in. / 13 mm				
AS20G							
AS23							
AS30	✓	✓	SC4 Overall W: 2.5 in. / 63.4 mm Visible W: 1.31 in. / 33.4 mm H: 0.63 in. / 15.9 mm Inside W: 1.22 in. / 31 mm Inside H: 0.5 in. / 12.9 mm				
AS53			SC5 Overall W: 2.5 in. / 63.4 mm Visible W: 1.31 in. / 33.4 mm H: 0.94 in. / 24 mm Inside W: 1.22 in. / 31 mm Inside H: 0.83 in. / 21 mm				
AT4			MUD-IN CHANNELS				
AT5							
AW12							
AW14			SC4 Overall W: 2.5 in. / 63.4 mm Visible W: 1.31 in. / 33.4 mm H: 0.63 in. / 15.9 mm Inside W: 1.22 in. / 31 mm Inside H: 0.5 in. / 12.9 mm				
AW38	✓	✓	SC5 Overall W: 2.5 in. / 63.4 mm Visible W: 1.31 in. / 33.4 mm H: 0.94 in. / 24 mm Inside W: 1.22 in. / 31 mm Inside H: 0.83 in. / 21 mm				
B1							
SC3							
SC4	✓	✓					
SC5	✓	✓					
WH35	✓	✓					

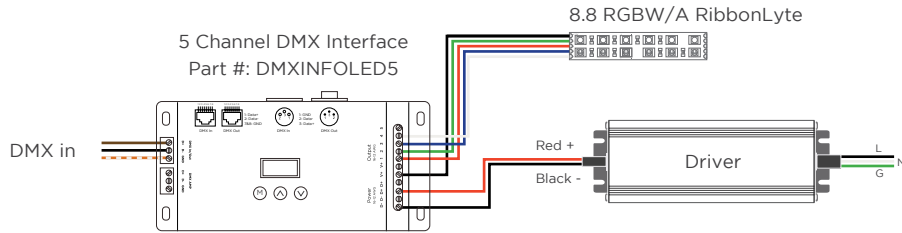
DISCLAIMER

When installing this product take into account the surface temperature of the material this product is mounted to. Many building surfaces which are exposed to direct sunlight exceed the 70°C/158°F maximum that our product is rated for. High risk locations like this should be avoided.

Our IP68 product is not intended to be submerged in pools and fountains and does not carry UL676 certification to do so.

WIRING DIAGRAMS / USAGE GUIDELINES

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	43.08	8.62	28.26	1.795
10	3.05	79.69	7.97	26.14	3.320
15	4.57	110.07	7.34	24.07	4.586
19.7	6.01	118.81	6.03	19.78	4.950

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.

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