

6.0 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
- 6.0 W/ft (19.7 W/m)
- RGBW all on: Up to 93 lm/W
- RGBA all on: 78 lm/W
- RGBW all on: Up to 553.73 lm/ft (1822.79 lm/m)
- RGBA all on: 467.61 lm/ft (1533.76 lm/m)

Applications:

Commercial
Entertainment
Healthcare

Hospitality
Museums
Public Spaces

Residential
Retail



RoHS

IP20

Declare.

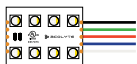


ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage + Color
RB	0	RGBWADR20	
RB - Ribbonlyte	0 - Color Changing	RGBWADR20 - RGBW and RGBA Double Row IP20	6.0RGB27 - 6.0 W/ft (19.7 W/m) RGB+2700K 6.0RGB30 - 6.0 W/ft (19.7 W/m) RGB+3000K 6.0RGB40 - 6.0 W/ft (19.7 W/m) RGB+4000K 6.0RGBA - 6.0 W/ft (19.7 W/m) RGB+Amber

CONNECTION OPTIONS

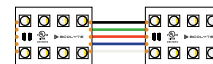
1. End Feed Bare Wire Connection (Default Option)



2. IP67 Connector Input



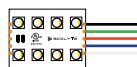
3. Soldered Daisy Chain



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

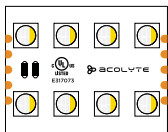


RGBW

SPECIFICATIONS / DIAGRAM

6.0 RGBW AND RGBA DOUBLE ROW RIBBONLYTE	
Operating Voltage	24 V
Colors	RGBW (2700K, 3000K, 4000K), RGBA (Amber)
Current (mA)	251.2 mA/ft (823.6 mA/m)
LED Pitch	72 LEDs/ft (240 LED/m)
Protection Rating	IP20
Dimming/Control	Controlled with an external multi-channel DALI driver / CASAMBI or by DMX with an external interface and driver
Operating Temperature	-22 — 140 °F (-30 — 60 °C)
LED Beam Angle	120°
Lifetime (L70 reported)	50,000 Hours
Cuttable 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	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	6.0 W/ft (19.7 W/m)
Lumen	93.82 lm/ft (307.73 lm/m)	275.74 lm/ft (904.43 lm/m)	74.72 lm/ft (245.08 lm/m)	186.19 lm/ft (610.7 lm/m)	553.85 lm/ft (1816.63 lm/m)
Efficacy	63 lm/W	184 lm/W	50 lm/W	124 lm/W	92 lm/W
RGBW (3000K)					
	Red	Green	Blue	White (3000K)	All On
Power Consumption	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	6.0 W/ft (19.7 W/m)
Lumen	93.69 lm/ft (307.3 lm/m)	289.64 lm/ft (950.02 lm/m)	75.71 lm/ft (248.33 lm/m)	210.18 lm/ft (689.39 lm/m)	555.73 lm/ft (1822.79 lm/m)
Efficacy	62 lm/W	193 lm/W	50 lm/W	140 lm/W	93 lm/W
RGBW (4000K)					
	Red	Green	Blue	White (4000K)	All On
Power Consumption	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	6.0 W/ft (19.7 W/m)
Lumen	58.8 lm/ft (192.86 lm/m)	212.26 lm/ft (696.21 lm/m)	43.77 lm/ft (143.57 lm/m)	175.06 lm/ft (574.2 lm/m)	485.3 lm/ft (1591.78 lm/m)
Efficacy	39 lm/W	142 lm/W	29 lm/W	117 lm/W	81 lm/W
RGBA (Amber)					
	Red	Green	Blue	Amber	All On
Power Consumption	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	6.0 W/ft (19.7 W/m)
Lumen	93.3 lm/ft (306.02 lm/m)	290.25 lm/ft (950.02 lm/m)	71.53 lm/ft (234.62 lm/m)	86.28 lm/ft (283 lm/m)	467.61 lm/ft (1533.76 lm/m)
Efficacy	62 lm/W	194 lm/W	48 lm/W	58 lm/W	78 lm/W

24V DIMENSIONS	Top View	Side View	Dimensions
IP20	 CUTTABLE EVERY: 1.3 in (33 mm)		Width: 1.02 in. (26 mm) Max Length: 22 ft 11 in. (7 m) Height: 0.09 in. (2.3 mm)

OPTIONAL ACCESSORY

1 in. VHB Tape



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

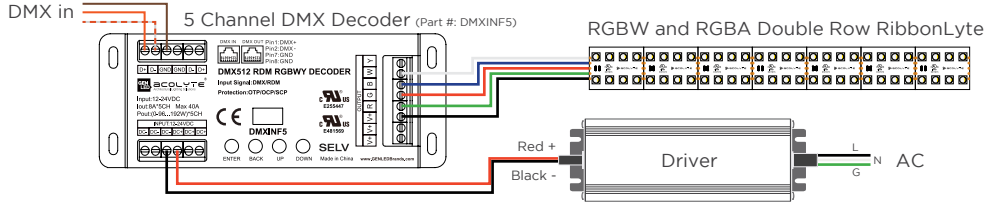
Note: RibbonLyte comes with an adhesive backing, but Acolyte recommends using VHB Tape for extra support in surface mounted applications.



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	SURFACE CHANNELS
AC1		
AC2		
AC3		
AC5		
AC15L		
AR1		
AR3		
AR9		
AR15L		
AR15AL		
AR24R		
AR29L		
AS1		
AS1GS		
AS2		
AS3		
AS5		
AS9		
AS10		
AS13	✓	
AS15L		
AS16		
AS20G		
AS20GS		
AS21		
AS22L		
AS23		
AS24R		
AS29L		
AS30	✓	
AS31		
AS35L		
AS53	✓	
AT4		
AT5		
B1		
SC3		
SC10		
SC15L		
SC20C		
SC23		
SC24R		
SC38C		

AS13 / round lens
W: 1.31 in. / 33.4 mm
H: 1.29 in. / 32.7 mm
Inside W: 1.22 in. / 31 mm

AS13 / square lens
W: 1.31 in. / 33.4 mm
H: 1.37 in. / 34.8 mm
Inside W: 1.22 in. / 31 mm

AS30 / round lens
W: 1.31 in. / 33.4 mm
H: 1.95 in. / 49.5 mm
Inside W: 1.17 in. / 29.8 mm

AS30 / square lens
W: 1.31 in. / 33.4 mm
H: 2.03 in. / 51.6 mm
Inside W: 1.17 in. / 29.8 mm

AS53
W: 2.09 in. / 53 mm
H: 2.09 in. / 53 mm
Inside W: 1.29 in. / 32.8 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	29.23	5.85	19.17	1.218
10	3.05	59.50	5.95	19.52	2.479
15	4.57	85.64	5.71	18.73	3.568
20	6.10	111.56	5.58	18.30	4.648
22.9	6.98	125.10	5.46	17.92	5.213

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 warranted.
- 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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