3.0 RGBW & RGBA DOUBLE ROW RIBBONLYTE

This LED tape is twice as nice! RGBW & 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
- Closet rated in channel applications
- 3.0 W/ft (9.8 W/m)
- RGBW all on: Up to 106 lm/W
- RGBA all on: 69 lm/W
- RGBW all on: Up to 318.66 lm/ft (1045.21 lm/m)
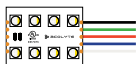- RGBA all on: 206.65 lm/ft (677.81 lm/m)

UL LISTED cULus   CE   RoHS   IP20   Declare.   TM66 ASSESSED

ORDERING GUIDE

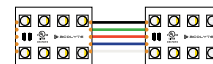| Category	CRI	Ribbon Type & IP Rating		Wattage + Color
RB	0	RGBWADR20		
RB - Ribbonlyte	0 - Color Changing	RGBWADR20 - RGBW and RGBA Double Row IP20		**3.0RGB27** - 3.0 W/ft (9.8 W/m) RGB+2700K
				3.0RGB30 - 3.0 W/ft (9.8 W/m) RGB+3000K
				3.0RGB40 - 3.0 W/ft (9.8 W/m) RGB+4000K
				3.0RGBA - 3.0 W/ft (9.8 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)
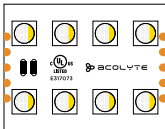
AVAILABLE COLORS

RGBA   RGBW

SPECIFICATIONS / DIAGRAM

3.0 RGBW & RGBA DOUBLE ROW RIBBONLYTE	
Operating Voltage	24 V
Colors	RGBW (2700K, 3000K, 4000K), RGBA (Amber)
Current (mA)	126.8 mA/ft (415.8 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
Cuttable Length - 24V	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. All RibbonLyte models 3.0 W/ft (9.8 W/m) and lower when used in any Acolyte Channel profile except Piccolo are tested by UL and confirmed 'Suitable for Installation in the Storage Area of a Clothes Closet' in accordance with NFPA 70 and NEC 410.16 and 411. CE

RGBW (2700K)					
	Red	Green	Blue	White (2700K)	All On
Power Consumption	0.75 W/ft (2.46 W/m)	0.75 W/ft (2.46 W/m)	0.75 W/ft (2.46 W/m)	0.75 W/ft (2.46 W/m)	3.0 W/ft (9.8 W/m)
Lumen	45.42 lm/ft (149 lm/m)	154.37 lm/ft (506.33 lm/m)	43.52 lm/ft (142.75 lm/m)	96.1 lm/ft (315.21 lm/m)	318.66 lm/ft (1045.21 lm/m)
Efficacy	61 lm/W	206 lm/W	58 lm/W	128 lm/W	106 lm/W

RGBW (3000K)					
	Red	Green	Blue	White (3000K)	All On
Power Consumption	0.75 W/ft (2.46 W/m)	0.75 W/ft (2.46 W/m)	0.75 W/ft (2.46 W/m)	0.75 W/ft (2.46 W/m)	3.0 W/ft (9.8 W/m)
Lumen	32.92 lm/ft (107.98 lm/m)	113.96 lm/ft (373.79 lm/m)	29.51 lm/ft (96.79 lm/m)	74.76 lm/ft (245.21 lm/m)	243.1 lm/ft (797.37 lm/m)
Efficacy	44 lm/W	152 lm/W	39 lm/W	100 lm/W	81 lm/W

RGBW (4000K)					
	Red	Green	Blue	White (4000K)	All On
Power Consumption	0.75 W/ft (2.46 W/m)	0.75 W/ft (2.46 W/m)	0.75 W/ft (2.46 W/m)	0.75 W/ft (2.46 W/m)	3.0 W/ft (9.8 W/m)
Lumen	31.05 lm/ft (101.84 lm/m)	128.9 lm/ft (422.79 lm/m)	27 lm/ft (88.56 lm/m)	90 lm/ft (295.2 lm/m)	274.63 lm/ft (900.79 lm/m)
Efficacy	41 lm/W	172 lm/W	36 lm/W	120 lm/W	92 lm/W

RGBA (Amber)					
	Red	Green	Blue	Amber	All On
Power Consumption	0.75 W/ft (2.46 W/m)	0.75 W/ft (2.46 W/m)	0.75 W/ft (2.46 W/m)	0.75 W/ft (2.46 W/m)	3.0 W/ft (9.8 W/m)
Lumen	30.55 lm/ft (100.2 lm/m)	121.83 lm/ft (399.6 lm/m)	26.7 lm/ft (87.58 lm/m)	30.67 lm/ft (100.6 lm/m)	206.65 lm/ft (677.81 lm/m)
Efficacy	41 lm/W	162 lm/W	36 lm/W	41 lm/W	69 lm/W

24V DIMENSIONS	Top View		Side View	Dimensions
IP20				Width: 1.02 in. (26 mm) Max Length: 26 ft 3 in. (8 m) Height: 0.09 in. (2.3 mm)

CUTTABLE EVERY: 1.3 in (33 mm)

OPTIONAL ACCESSORY

1 in. VHB Tape

Provides superior holding power in surface mounted applications
Part Number: VHBTAPE1.0BK

Note: RibbonLyte comes with an adhesive backing, but Acolyte recommends using VHB Tape for extra support in surface mounted applications.
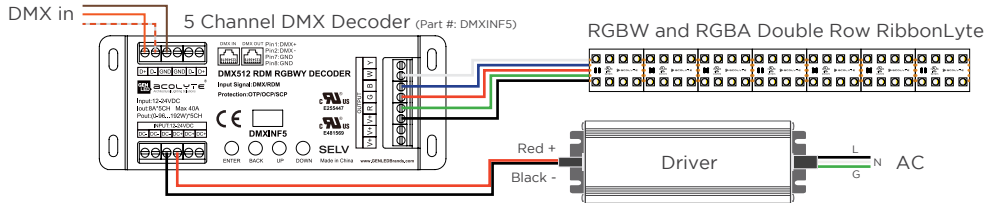
WIRING DIAGRAMS / CHANNEL COMPATIBILITY / ACTUAL POWER CONSUMPTION / USAGE GUIDELINES

DMX
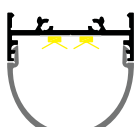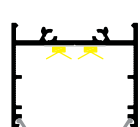

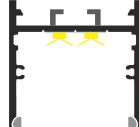### WIRE COLORS PER RIBBONLYTE COLOR

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
AC1	
AC2	
AC3	
AC4	
AC5	
AR1	
AR3	
AS1	
AS2	
AS3	
AS5	
AS6	
AS10	
AS11	
AS13	✓
AS16	
AS18	
AS20G	
AS23	
AS30	✓
AS53	✓
AT4	
AT5	
B1	
SC3	
WH35	✓

SURFACE CHANNELS

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
W: 1.31 in. / 33.4 mm
H: 1.17 in. / 29.6 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

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	14.79	2.96	9.70	0.616
10	3.05	30.33	3.03	9.95	1.264
15	4.57	44.15	2.94	9.65	1.840
20	6.10	58.52	2.93	9.60	2.438
25	7.62	70.87	2.83	9.30	2.953
26.25	8.00	74.61	2.84	9.32	3.109

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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