12.0 RGBW/A 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	

cULus LISTED   CE   RoHS   IP20

ORDERING GUIDE

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

CONNECTION OPTIONS

1. End Feed Bare Wire Connection (**Default Option**)
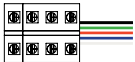
2. IP67 Connector Input

3. Soldered Daisy Chain
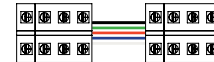
**4**. Daisy Chain with IP67 Connectors

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
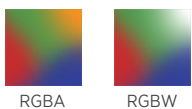
SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

12.0 RGBW/A 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
Operating Temperature	-22° F to 140° F (-30° C to 60° C)
LED Beam Angle	120°
Lamp Life	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	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

CUTTABLE EVERY: 1.3 in (33 mm)

Width: 1.02 in. (26 mm)
Max Length: 14 ft 9 in. (4.5 m)
Height: 0.09 in. (2.3 mm)
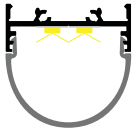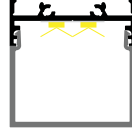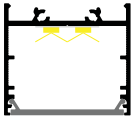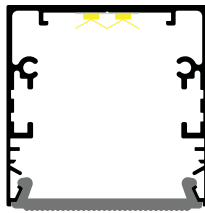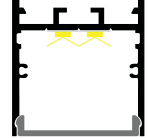
OPTIONAL ACCESSORY
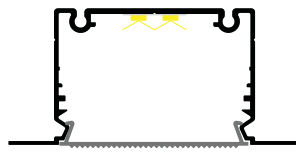
1 in. VHB Tape
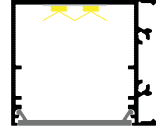
Provides superior holding power in surface mounted applications
Part Number: VHBTAPE1.0BK

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
AC1	
AC2	
AC3	
AC4	
AC5	
AR1	
AR3	
AR10	
AR16	
AR20	
AR25	✓
AR30	✓
AR33	✓
AS1	
AS2	
AS3	
AS6	
AS10	
AS13	✓
AS16	
AS20G	
AS23	
AS30	✓
AS53	✓
AT4	
AT5	
AW12	
AW14	
AW38	✓
B1	
SC3	
SC4	✓
SC5	✓
WH35	✓

SURFACE CHANNELS

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

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

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

AS53
W: 2.09 in. / 53 mm
H: 2.09 in. / 53 mm
Inside W: 1.32 in. / 33.6 mm
Inside H: 2 in. / 51 mm

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

WH35
W: 1.37 in. / 35 mm
H: 1.47 in. / 37.5 mm
Inside: 1.23 in. / 31.2 mm

RECESSED CHANNELS

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

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

AR33
W: 3.03 in. / 77 mm
H: 1.42 in. / 36 mm
Inside W: 1.32 in. / 33.6 mm
Inside H: 1.37 in. / 34.8 mm

MUD-IN CHANNELS

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

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

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.
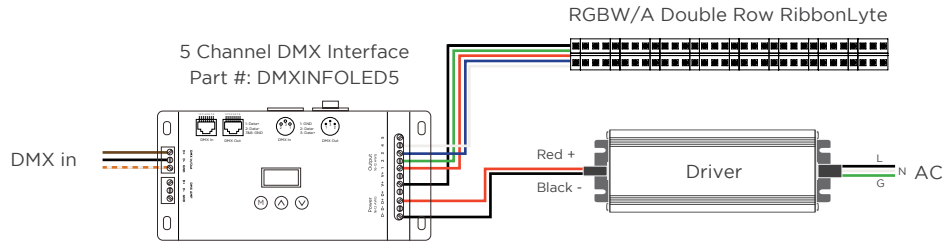
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DISCLAIMER

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 140 °F (60 °C) maximum that our product is rated for. High risk locations like this should be avoided.

WIRING DIAGRAMS

DMX

5 Channel DMX Interface
Part #: DMXINFOLED5

RGBW/A Double Row RibbonLyte

DMX in

Red +
Black -

Driver

L
N AC
G

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

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

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