

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

Applications:

Commercial
Entertainment
Healthcare

Hospitality
Museums
Public Spaces

Residential
Retail



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 RGB+2700K 12.0RGB30 - 12.0 W/ft RGB+3000K 12.0RGB40 - 12.0 W/ft RGB+4000K 12.0RGBA - 12.0 W/ft 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



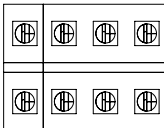

RGBA




RGBW

SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

| 12.0 RGBW/A DOUBLE ROW RIBBONLYTE | |
|-----------------------------------|--|
| Operating Voltage | 24 V |
| Power Consumption | 12.0 W/ft (39.4 W/m) |
| 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) |
| Colors/Color Temperatures | RGBW (2700K), RGBW (3000K), RGBW (6000K), RGB+Amber |
| Lumens - RGBW | 948 lm/ft (3110 lm/m) all LEDs at 100% |
| Lumens - RGBA | 900 lm/ft (2953 lm/m) all LEDs at 100% |
| LED Beam Angle | 120° |
| Lamp Life | 50,000 Hours |
| Cutable Length - 24V | 1.3 in (33 mm) |
| Lumens/Watt - RGBW | 79 lm/W (all LEDs at 100%) |
| Lumens/Watt - RGBA | 75 lm/W (all LEDs at 100%) |
| 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 |

| 24V DIMENSIONS | Top View | Side View | Dimensions |
|----------------|---|--|--|
| IP20 |  |  | Width: 1.02 in. (26 mm) Max Length: 14 ft 9 in. (4.5 m) Height: 0.09 in. (2.3 mm) |
| | CUTTABLE EVERY: 1.3 in (33 mm) | | |

OPTIONAL ACCESSORY

| 1 in. VHB Tape | |
|---|---|
|  | <p>Provides superior holding power in surface mounted applications</p> <p>Part Number: VHBTape1.0BK</p> |

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

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.

Acolyte does not warrant or represent that the information is free from errors or omission. The information may change without notice and Acolyte is not in any way liable for the accuracy of any information printed and stored or in any way interpreted or used.



CHANNEL COMPATIBILITY / CHANNEL OPTIONS

| CHANNEL | IP20 | SURFACE CHANNELS |
|---------|------|------------------|
| 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 | ✓ | |

| CHANNEL | IP20 | RECESSED CHANNELS |
|---------|------|-------------------|
| 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 | ✓ | |

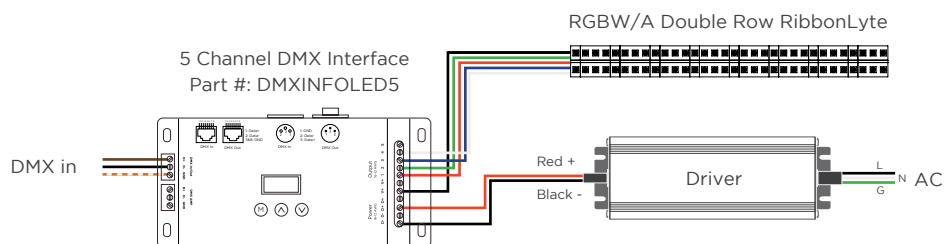
| CHANNEL | IP20 | MUD-IN CHANNELS |
|---------|------|-----------------|
| AC1 | | |
| AC2 | | |
| AC3 | | |
| AC4 | | |
| AC5 | | |
| AR1 | | |
| AR3 | | |
| AR10 | | |
| AR16 | | |
| AR20 | | |
| AR25 | ✓ | |
| AR30 | ✓ | |
| AR33 | ✓ | |
| AS1 | | |
| AS2 | | |
| AS3 | | |
| AS6 | | |
| AS10 | | |
| AS13 | ✓ | |
| AS16 | | |
| AS20G | | |
| AS23 | | |
| AS30 | ✓ | |
| AS53 | ✓ | |
| AT4 | | |
| AT5 | | |
| AW12 | | |
| AW14 | | |
| AW38 | ✓ | |
| B1 | | |
| SC3 | | |
| SC4 | ✓ | |
| SC5 | ✓ | |
| WH35 | ✓ | |

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



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