## 12.0 STATIC WHITE DOUBLE ROW RIBBONLYTE

This LED tape is twice as nice! Static White Double Row RibbonLyte provides powerful 90+ CRI 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 any of 9 dimmable Static White CCTs.

- Static White (1800K-6000K)
- 136 LEDs/ft (448 LEDs/m)
- 0.7 in. (17.9 mm) cut lengths
- IP20 for interior use
- Provides premium blending for consistent output

### Applications:

| | | |
|---|---|---|
| Commercial | Hospitality | Residential |
| Entertainment | Museums | Retail |
| Healthcare | Public Spaces | |

cULus LISTED 317073   CE   RoHS   IP20

## ORDERING GUIDE

| Category | CRI | Ribbon Type & IP Rating | Wattage & Color | |
|---|---|---|---|---|
| RB | 90 | SWDR20 | | |
| RB - RibbonLyte | 90 - 90+ CRI Static White | SWDR20 - Static White Double Row IP20 | **12.018** - 12.0 W/ft 1800K | **12.030** - 12.0 W/ft 3000K |
| | | | **12.020** - 12.0 W/ft 2000K | **12.035** - 12.0 W/ft 3500K |
| | | | **12.022** - 12.0 W/ft 2200K | **12.040** - 12.0 W/ft 4000K |
| | | | **12.024** - 12.0 W/ft 2400K | **12.060** -12.0 W/ft 6000K |
| | | | **12.027** - 12.0 W/ft 2700K | |

## CONNECTION OPTIONS

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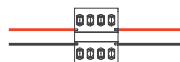
**2.** IP67 Connector Input

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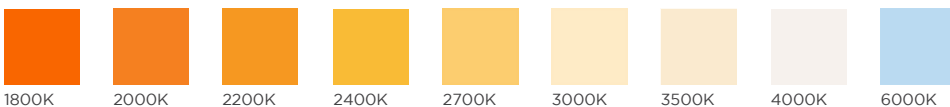
**4.** Daisy Chain with IP67 Connectors

**5.** Bare Wire on Both Ends

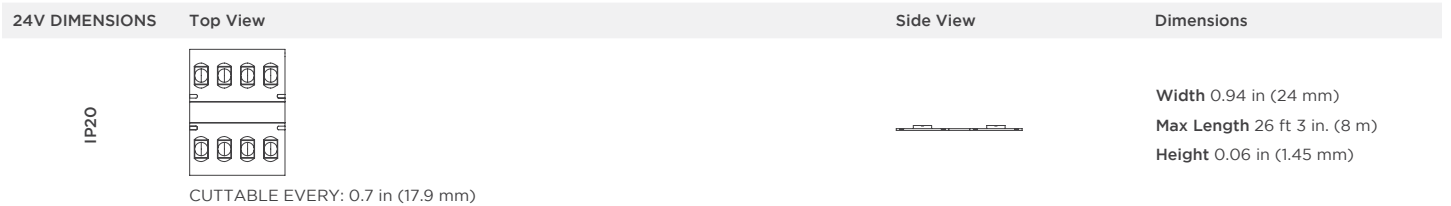**Standard cable length if not specified:**
**1.** 12 in. cable with bare wire (custom length up to 20 feet)
**2.** Standard 12 in. cable with IP67 connectors (custom length up to 10 feet)
**3.** Daisy chain with 3 in. cable between runs (custom length up to 36 in.)
**4.** 3 in. cable between IP67 connector and RibbonLyte (custom length up to 18 in.)
**5.** Standard 12 in. cable with bare wire (custom length up to 10 feet)
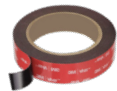
## AVAILABLE COLOR TEMPERATURES

| 1800K | 2000K | 2200K | 2400K | 2700K | 3000K | 3500K | 4000K | 6000K |
|---|---|---|---|---|---|---|---|---|

## SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

| 12.0 STATIC WHITE DOUBLE ROW RIBBONLYTE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Operating Voltage** | 24 V | | | | | | | |
| **Power Consumption** | 12.0 W/ft (39.4 W/m) | | | | | | | |
| **Current (mA)** | 500 mA/ft (1640 mA/m) | | | | | | | |
| **LED Pitch** | 136 LEDs/ft (448 LEDs/m) | | | | | | | |
| **Protection Rating** | IP20 | | | | | | | |
| **Dimming/Control** | MLV / 0-10 Volt / Lutron Hi-lume 1% dimming & Hi-lume Premier 0.1% L3D0 LED drivers / Lutron VIVE code compliance available / ELV / DALI | | | | | | | |
| **Operating Temperature** | -22° F to 140° F (-30° C to 60° C) | | | | | | | |
| **Colors Temperatures** | 1800K | 2000K | 2200K | 2400K | 2700K | 3000K | 3500K | 4000K | 6000K |
| **MacAdam's Ellipses (SDCM)** | 2-Step Binning | | | | | | | |
| **Lumens** | 832.5 lm/ft (2731.4 lm/m) | 982.9 lm/ft (3225 lm/m) | 1073.2 lm/ft (3521.1 lm/m) | 1103.3 lm/ft (3619.9 lm/m) | 1243.7 lm/ft (4080.6 lm/m) | 1344 lm/ft (4409.7 lm/m) | 1354 lm/ft (4442.6 lm/m) | 1344 lm/ft (4409.7 lm/m) | 1303.9 lm/ft (4278 lm/m) |
| **Binning Tolerance** | +/- 100K | | | | | | | |
| **LED Beam Angle** | 120° | | | | | | | |
| **Lamp Life** | 50,000 Hrs | | | | | | | |
| **Cuttable Length** | 0.7 in (17.9 mm) | | | | | | | |
| **CRI - All Color Temp.** | 90+ CRI | | | | | | | |
| **Lumens/Watt** | 69 lm/W | 82 lm/W | 89 lm/W | 92 lm/W | 104 lm/W | 112 lm/W | 113 lm/W | 112 lm/W | 109 lm/W |
| **Constant Voltage** | ✓ | | | | | | | |
| **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. | | | | | | | |
| **Warranty** | 6 years | | | | | | | |

| 24V DIMENSIONS | Top View | Side View | Dimensions |
|---|---|---|---|
| IP20 |  CUTTABLE EVERY: 0.7 in (17.9 mm) |  | **Width** 0.94 in (24 mm)<br>**Max Length** 26 ft 3 in. (8 m)<br>**Height** 0.06 in (1.45 mm) |

### OPTIONAL ACCESSORY

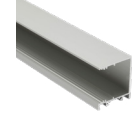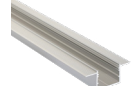| 1 in. VHB Tape |
|---|
|  Provides superior holding power in surface mounted applications<br>Part Number: VHBTAPE1.0BK |

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.
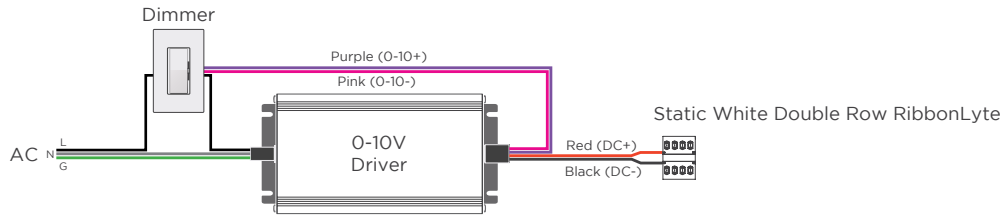
## CHANNEL COMPATIBILITY / CHANNEL OPTIONS

| CHANNEL | IP20 |
|---------|------|
| AC1 | |
| AC2 | |
| AC3 | |
| AC4 | |
| AC5 | |
| AR1 | |
| AR3 | |
| AR8 | |
| AR10 | |
| AR16 | |
| AR20 | |
| AR25 | ✓ |
| AR30 | ✓ |
| AR33 | ✓ |
| AS1 | |
| AS2 | |
| AS3 | |
| AS6 | |
| AS10 | |
| AS12 | |
| AS13 | ✓ |
| AS16 | |
| AS20G | |
| AS23 | |
| AS30 | ✓ |
| AS53 | ✓ |
| AT4 | |
| AT5 | |
| AW10 | |
| AW12 | |
| AW14 | |
| AW38 | ✓ |
| B1 | |
| B2 | |
| ROUND12 | |
| SC3 | |
| SC4 | ✓ |
| SC5 | ✓ |
| WH35 | ✓ |

### SURFACE MOUNTED CHANNELS

LENS OPTIONS:  **C** - Clear  **F** - Frosted  **K** - Black  **M** - Milky  **NP** - Narrow Prismatic  **WP** - Wide Prismatic  **RM** - Round Milky  **SM** - Square Milky

**AS13**
RM, SM

**AS30**
C, M, K, RM, SM

**AS53**
M, NP, WP

**AW38**
M, RM, SM

**WH35**
C, F, M

### RECESSED CHANNELS

LENS OPTIONS:  **C** - Clear  **F** - Frosted  **K** - Black  **M** - Milky  **NP** - Narrow Prismatic  **WP** - Wide Prismatic  **RM** - Round Milky  **SM** - Square Milky

**AR25**
C, M, K, RM, SM

**AR30**
C, M, K, RM, SM

**AR33**
M, NP, WP

**SC4**
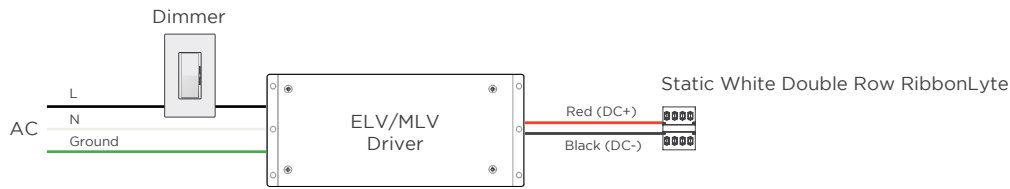M, K, RM, SM

**SC5**
M, K, RM, SM

## 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.
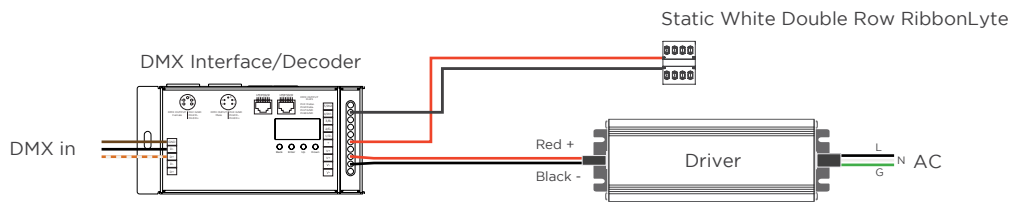
## WIRING DIAGRAMS

### 0-10V



Dimmer

Purple (0-10+)
Pink (0-10-)

0-10V Driver

Static White Double Row RibbonLyte

AC
L
N
G

Red (DC+)
Black (DC-)

### MLV / ELV



Dimmer

ELV/MLV Driver

Static White Double Row RibbonLyte

AC
L
N
Ground

Red (DC+)
Black (DC-)

### DMX



DMX Interface/Decoder

Static White Double Row RibbonLyte

DMX in

Driver

Red +
Black -

L
G
N
AC

**WIRE COLORS PER RIBBONLYTE COLOR**

STATIC WHITE DOUBLE ROW RIBBONLYTE

Red Wire (+) Positive

Black Wire (-) Negative