

## 6.1 VARIABLE WHITE LINEA RIBBONLYTE

Variable White Linea RibbonLyte features a “chip on board” design and a special raised coating that allows for diode-free light even without a diffuser lens. A tight pitch of 14 LED chips per inch ensures that either in direct view or in a complete channel fixture, Variable White Linea RibbonLyte provides superior blending without showing individual diodes as you tune it from 2700K to 6500K.

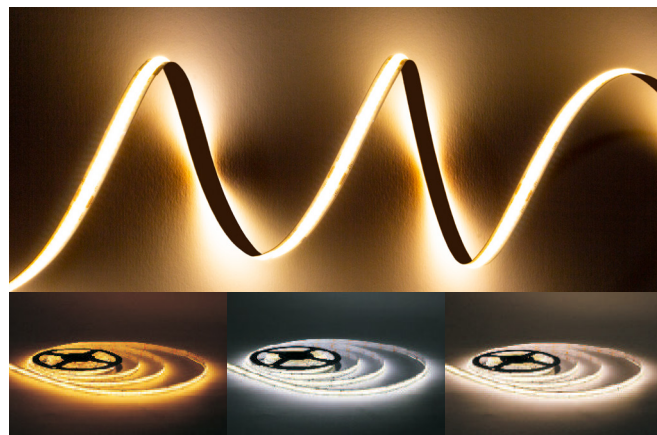
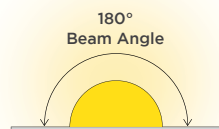
- Tunable from 2700-6500K
- 1.09 in. (27.78 mm) cut lengths
- 86-105 lm/W
- 80+ CRI
- IP67 model available upon request
- 6.1 W/ft (20 W/m)
- All on: 72 lm/W
- All on: 439.02 lm/ft (1439.99 lm/m)

### Applications:

Commercial  
Entertainment  
Healthcare

Hospitality  
Museums  
Public Spaces

Residential  
Retail



RoHS

IP20

Declare.



## ORDERING GUIDE

| Category        | CRI                | Ribbon Type & IP Rating         | Wattage + Color                                        |
|-----------------|--------------------|---------------------------------|--------------------------------------------------------|
| <b>RB</b>       | <b>0</b>           | <b>LINEA20</b>                  | <b>6.1VW</b>                                           |
| RB - Ribbonlyte | 0 - Color Changing | LINEA20 - Linea RibbonLyte IP20 | 6.1VW - 6.1 W/ft (20 W/m) Variable White (2700K-6500K) |

## 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 on both ends)

Note: IP67 connectors are used for both IP20 and IP67 RibbonLyte

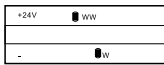
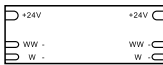
## AVAILABLE COLOR TEMPERATURES



VW

SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

| VARIABLE WHITE LINEA RIBBONLYTE |                                          |                            |                             |
|---------------------------------|------------------------------------------|----------------------------|-----------------------------|
| Operating Voltage               | 24 V                                     |                            |                             |
| Color Temperatures              | 2700K - 6500K                            |                            |                             |
|                                 | Warm White (2700K)                       | Cool White (6500K)         | All On                      |
| Power Consumption               | 3.1 W/ft (10.17 W/m)                     | 3.1 W/ft (10.17 W/m)       | 6.1 W/ft (20 W/m)           |
| Lumens                          | 212.23 lm/ft (696.11 lm/m)               | 254.76 lm/ft (835.61 lm/m) | 439.02 lm/ft (1439.99 lm/m) |
| Efficacy                        | 70 lm/W                                  | 84 lm/W                    | 72 lm/W                     |
| Current (mA) - 24V              | 254 mA/ft (834 mA/m)                     |                            |                             |
| LED Pitch                       | 175 LEDs/ft (576 LEDs/m)                 |                            |                             |
| Protection Rating               | IP20 (IP67 model available upon request) |                            |                             |
| Dimming/Control                 | DMX / 0-10V with Dimming Module / DALI   |                            |                             |
| Operating Temperature           | -40 — 140 °F (-40 — 60 °C)               |                            |                             |
| LED Beam Angle                  | 180°                                     |                            |                             |
| Minimum Bend Diameter           | 1.97 in. (50 mm)                         |                            |                             |
| Cuttable Length                 | 1.09 in. (27.78 mm)                      |                            |                             |
| CRI                             | 80+ CRI                                  |                            |                             |
| Certifications                  | UL, CE, RoHS                             |                            |                             |
| Warranty                        | 3 years                                  |                            |                             |

| DIMENSIONS                          | Top View - Front of RibbonLyte                                                      | Top View - Back of RibbonLyte                                                       | Side View                                                                             | Dimensions                                                                                        |
|-------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| IP20                                |  |  |  | <b>Width</b> 0.39 in (10 mm)<br><b>Max Length</b> 16.4 ft (5 m)<br><b>Height</b> 0.09 in (2.2 mm) |
| CUTTABLE EVERY: 1.09 in. (27.78 mm) |                                                                                     |                                                                                     |                                                                                       |                                                                                                   |

OPTIONAL ACCESSORY

| 0-10V Dimmable 90W VW/WD Driver                                                                                              | 0.5 in. VHB Tape*                                                                                                                                                                        | Flat Mounting Clip                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Part Number:<br/>DRVRFWDVW2490120</p> |  <p>Provides superior holding power in surface mounted applications<br/>Part Number: VHBTAPE0.5BK</p> |  <p>For mounting I20 RibbonLyte<br/>Part Number: RBMNTSIL</p> |

\* 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 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. 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 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.

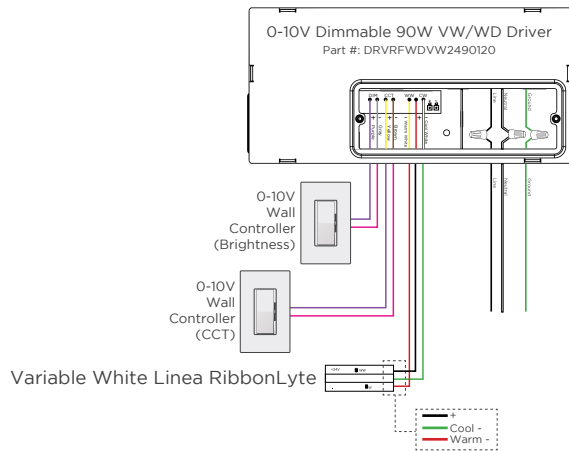
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CHANNEL COMPATIBILITY / CHANNEL OPTIONS

| CHANNEL | IP20 | SURFACE CHANNELS  |  |  |  |  |  |  |
|---------|------|-------------------|--|--|--|--|--|--|
| AC1     | ✓    |                   |  |  |  |  |  |  |
| AC2     | ✓    |                   |  |  |  |  |  |  |
| AC3     | ✓    |                   |  |  |  |  |  |  |
| AC4     | ✓    |                   |  |  |  |  |  |  |
| AC5     | ✓    |                   |  |  |  |  |  |  |
| AR1     | ✓    |                   |  |  |  |  |  |  |
| AR3     | ✓    |                   |  |  |  |  |  |  |
| AS1     | ✓    |                   |  |  |  |  |  |  |
| AS2     | ✓    |                   |  |  |  |  |  |  |
| AS3     | ✓    |                   |  |  |  |  |  |  |
| AS6     | ✓    |                   |  |  |  |  |  |  |
| AS11    | ✓    |                   |  |  |  |  |  |  |
| AS16    | ✓    |                   |  |  |  |  |  |  |
| AS18    | ✓    |                   |  |  |  |  |  |  |
| AS20G   | ✓    |                   |  |  |  |  |  |  |
| AS22    | ✓    |                   |  |  |  |  |  |  |
| AS30    | ✓    |                   |  |  |  |  |  |  |
| AT4     | ✓    |                   |  |  |  |  |  |  |
| AT5     | ✓    |                   |  |  |  |  |  |  |
| B1      | ✓    |                   |  |  |  |  |  |  |
| SC3     | ✓    |                   |  |  |  |  |  |  |
| WH35    | ✓    |                   |  |  |  |  |  |  |
|         |      | CORNER CHANNELS   |  |  |  |  |  |  |
| AC1     | ✓    |                   |  |  |  |  |  |  |
| AC2     | ✓    |                   |  |  |  |  |  |  |
| AC3     | ✓    |                   |  |  |  |  |  |  |
| AC4     | ✓    |                   |  |  |  |  |  |  |
| AC5     | ✓    |                   |  |  |  |  |  |  |
|         |      | RECESSED CHANNELS |  |  |  |  |  |  |
| AR1     | ✓    |                   |  |  |  |  |  |  |
| AR3     | ✓    |                   |  |  |  |  |  |  |
|         |      | MUD-IN CHANNELS   |  |  |  |  |  |  |
| SC3     | ✓    |                   |  |  |  |  |  |  |

WIRING DIAGRAMS

2-CHANNEL VARIABLE WHITE DIMMING



WIRE COLORS PER RIBBONLYTE COLOR

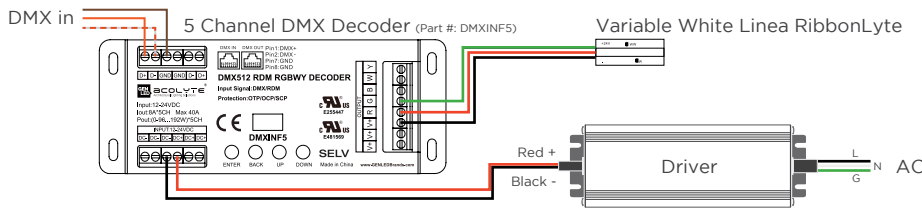
VARIABLE WHITE

Black Wire (+) Positive

Red Wire (-) Warm Channel

Green Wire (-) Cool Channel

DMX WIRING DIAGRAM - COMPATIBLE WITH ALL MODELS OF VARIABLE WHITE RIBBONLYTE



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       | 28.06                     | 5.61                   | 18.41                 | 1.169                    |
| 10          | 3.05       | 44.91                     | 4.49                   | 14.73                 | 1.871                    |
| 15          | 4.57       | 47.58                     | 3.17                   | 10.40                 | 1.983                    |
| 16.4        | 5.00       | 48.02                     | 2.93                   | 9.60                  | 2.001                    |

**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.

REV.02OCT2025

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