12.0 VARIABLE WHITE DOUBLE ROW RIBBONLYTE

This LED tape is twice as nice! Variable White Double Row RibbonLyte provides 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 Variable White Double Row RibbonLyte that lets you tune your light for brightness and CCT!

- Variable White (2000K-6500K)
- 84 LEDs/ft (280 LEDs/m)
- 1.97 in. (50 mm) cut lengths
- IP20 for interior use
- Provides premium blending for consistent color and brightness
- 12.0 W/ft (39.4 W/m)
- All on: 63 lm/W
- All on: 754.9 lm/ft (2476.07 lm/m)

Applications:

Commercial	Hospitality	Residential
Entertainment	Museums	Retail
Healthcare	Public Spaces	

UL LISTED c-us   CE   RoHS   IP20

ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage + Color
RB	**0**	**VWDR20**	**12.0VW**
RB - Ribbonlyte	**0** - Color Changing	**VWDR20** - VW Double Row IP20	**12.0VW** - 12.0 W/ft (39.4 W/m) Variable White

CONNECTION OPTIONS

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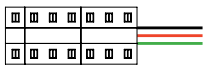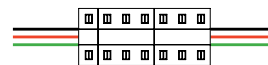
2. IP67 Connector Input

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)
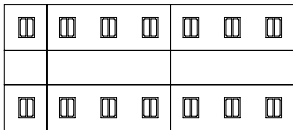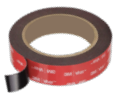
AVAILABLE COLOR TEMPERATURES

VW

SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

12.0 VARIABLE WHITE DOUBLE ROW RIBBONLYTE			
Operating Voltage	24 V		
Color Temperature	2000K – 6500K		
	Warm White (2000K)	Cool White (6500K)	All On
Power Consumption	6 W/ft (19.7 W/m)	6 W/ft (19.7 W/m)	12 W/ft (39.4 W/m)
Lumens	430.7 lm/ft (1412.7 lm/m)	336.1 lm/ft (1102.41 lm/m)	754.9 lm/ft (2476.07 lm/m)
Efficacy	72 lm/W	56 lm/W	63 lm/W
Current (mA)	500 mA/ft (1640 mA/m)		
LED Pitch	84 LEDs/ft (280 LEDs/m)		
Protection Rating	IP20		
Dimming/Control	DMX / 0-10V with Dimming Module		
Operating Temperature	-22° F to 140° F (-30° C to 60° C)		
MacAdam Ellipses (SDCM)	2-Step Binning		
Binning Tolerance	+/- 100K		
LED Beam Angle	120°		
Lamp Life	43,000 hrs L70 @ 131° F (55° C)		
Cuttable Length	1.97 in. (50mm)		
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		

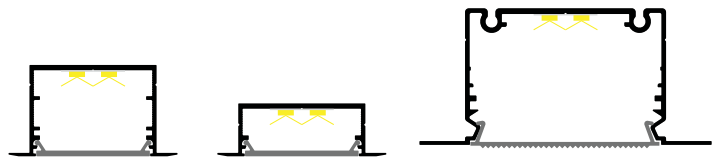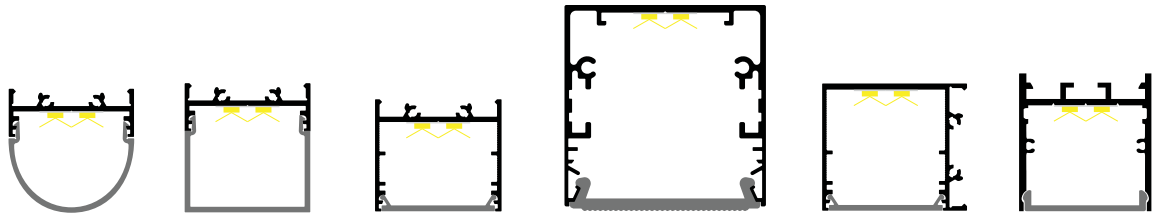| 24V DIMENSIONS	Top View	Side View	Dimensions
IP20	 CUTTABLE EVERY: 1.97 in. (50 mm)		**Width** 0.87 in. (22 mm) **Max Length** 22 ft 11 in. (7 m) **Height** 0.09 in (2.3 mm)
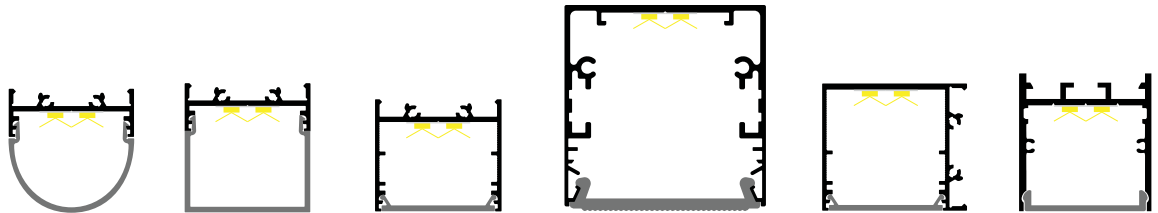
OPTIONAL ACCESSORY

0-10V Dimmable 90W VW/WD Driver	1 in. VHB Tape**
Part Number: DRVRFWDVW2490120	Provides superior holding power in surface mounted applications Part Number: VHBTAPE1.0BK

EXAMPLE: When calculating supported loads with this module and 6.0 Variable White RibbonLyte (6.0 W/ft), you can divide the module's total rated power of 96W by half of the RibbonLyte's wattage per foot to get the total length supported. 96 / 3 = 32 ft of RibbonLyte.

** 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
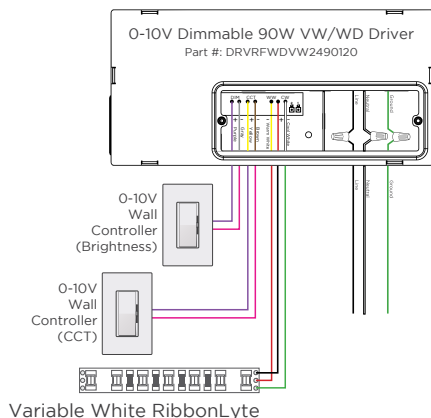Inside H: 0.5 in. / 12.9 mm

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

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

2-CHANNEL VARIABLE WHITE DIMMING

0-10V Dimmable 90W VW/WD Driver
Part #: DRVRFWDVW2490120

0-10V
Wall
Controller
(Brightness)

0-10V
Wall
Controller
(CCT)

Variable White RibbonLyte
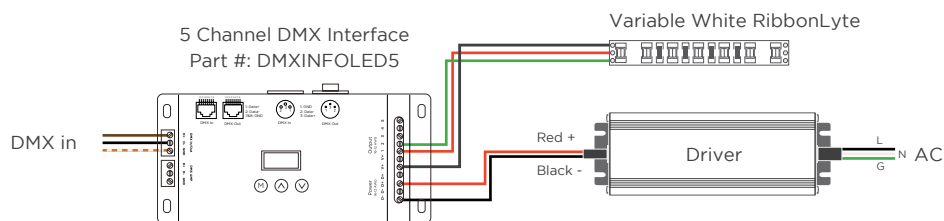
WIRE COLORS PER RIBBONLYTE COLOR

VARIABLE WHITE

Black Wire (+) Positive

Red Wire (-) Warm Channel

Green Wire (-) Cool Channel

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

Variable White RibbonLyte

5 Channel DMX Interface
Part #: DMXINFOLED5

DMX in

Red +

Black -

Driver

L
N   AC
G

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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