

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:

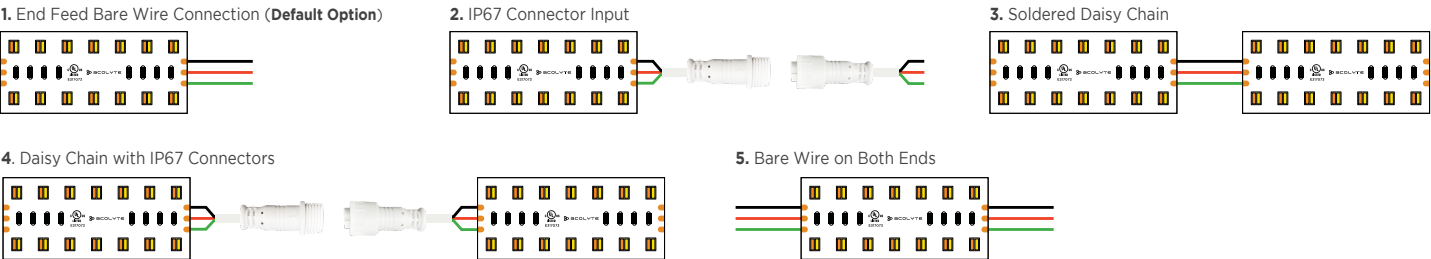
- Commercial
- Hospitality
- Residential
- Entertainment
- Museums
- Retail
- Healthcare
- Public Spaces



ORDERING GUIDE

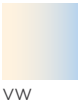
Category	CRI	Ribbon Type & IP Rating	Wattage + Color
RB	0	VWDR20	12.0VW
RB - Ribbonlyte	0 - Color Changing	VWDR20 - VW Double Row IP20	12.0VW - 12.0 W/ft (39.4 W/m) Variable White

CONNECTION OPTIONS



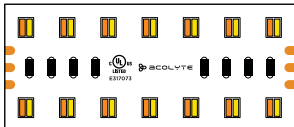
- Standard cable length if not specified:
1. 12 in. cable with bare wire (custom length up to 20 feet)
 2. Standard 12 in. cable with IP67 connectors (custom length up to 10 feet)
 3. Daisy chain with 3 in. cable between runs (custom length up to 36 in.)
 4. 3 in. cable between IP67 connector and RibbonLyte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

AVAILABLE COLOR TEMPERATURES



SPECIFICATIONS / DIAGRAM

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	Controlled with an external multi-channel 0-10V Driver / multi-channel DALI driver / CASAMBI driver or by DMX with an external interface and driver		
Operating Temperature	-22 — 140 °F (-30 — 60 °C)		
MacAdam ellipse (SDCM)	2-Step Binning		
Binning Tolerance	+/- 100K		
LED Beam Angle	120°		
Lifetime (L70 reported)	43,000 hrs @ 131 °F (55 °C)		
Cutable 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

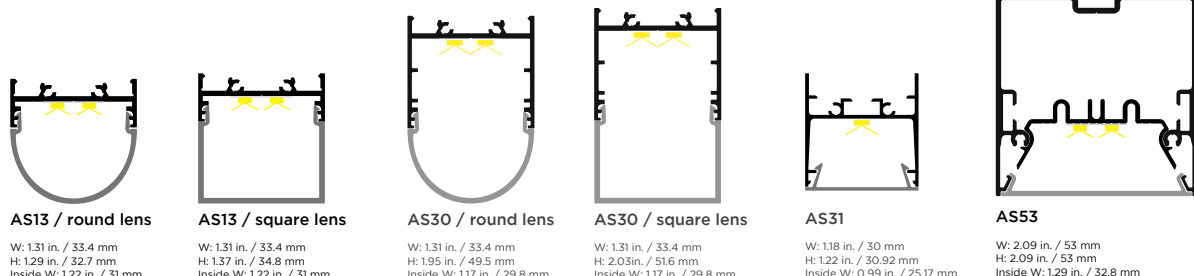
0-10V Dimmable 90W VW/WD Driver	1 in. VHB Tape**
 Part Number: DRVRFWDVW2490120	 Provides superior holding power in surface mounted applications Part Number: VHBTAPE1.0BK

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 / USAGE GUIDELINES

CHANNEL	IP20	SURFACE CHANNELS					
AC1							
AC2							
AC3							
AC5							
AC15L							
AR1							
AR3							
AR9							
AR15L							
AR15AL							
AR24R							
AR29L							
AS1							
AS1GS							
AS2							
AS3							
AS5							
AS9							
AS10							
AS13	✓						
AS15L							
AS16							
AS20G							
AS20GS							
AS21							
AS23							
AS24R							
AS29L							
AS30	✓						
AS31	✓						
AS53	✓						
AT4							
AT5							
B1							
SC3							
SC10							
SC15L							
SC20C							
SC23							
SC24R							
SC38C							



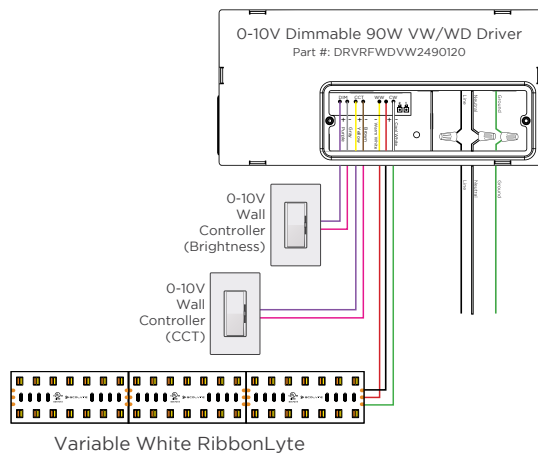
USAGE GUIDELINES

- 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.

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.

WIRING DIAGRAMS

2-CHANNEL VARIABLE WHITE DIMMING



WIRE COLORS PER RIBBONLYTE COLOR

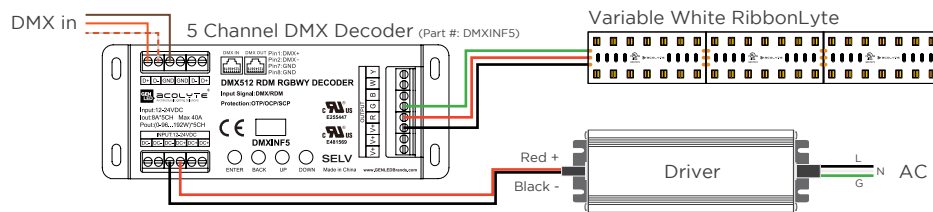
VARIABLE WHITE

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	58.70	11.74	38.51	2.446
10	3.05	115.34	11.53	37.83	4.806
15	4.57	167.95	11.20	36.73	6.998
20	6.10	214.68	10.73	35.21	8.945
22.9	6.98	239.21	10.45	34.26	9.967

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.

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