

3.0 VARIABLE WHITE SERIES 2 RIBBONLYTE

Our Variable White Series 2 RibbonLyte allows you to adjust for brightness and warmth like never before. Now with 42 LEDs per foot (140 LEDs per meter), our improved RibbonLyte provides better color mixing, reduced diode visibility and a wider range of color temperatures for tuning your lighting design. Available in three wattages and with a 1.97 in. (50 mm) incremental length, you can use Variable White Series 2 RibbonLyte with a 2-channel dimmer to create bright, clear, colder light or the warmest, softest tones.



- 2-channel dimming! One channel for brightness, one for CCT
- Single-row, dual-chip layout
- 3.0 W/ft (9.8 W/m)
- 42 LEDs/ft (140 LEDs/m)
- Standard CCT range: 2000K-6500K (all IP ratings)
All on: 73 lm/W
All on: 218.5 lm/ft (716.68 lm/m)
- Warm CCT range: 1800K-3300K (IP20 only)
All on: 66 lm/W
All on: 196.7 lm/ft (645.1 lm/m)
- 1.97 in. (50 mm) incremental lengths
- Closet rated in channel applications
- 90+ CRI



RoHS

Declare.



IP20

IP65

IP68

IP69

ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage + Color
RB	0		
RB - Ribbonlyte	0 - Color Changing	VWS220 - VW Series 2 IP20 VWS265 - VW Series 2 IP65* VWS268 - VW Series 2 IP68* VWS269 - VW Series 2 IP69* * 1800K-3300K only available in IP20	3.0VW - 3.0 W/ft (9.8 W/m) Variable White (2000K-6500K) 3.0VW1833 - 3.0 W/ft (9.8 W/m) Variable White (1800K-3300K) IP20 ONLY

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. (305 mm) cable with bare wire (custom length up to 20 feet / 6 meters)
2. Standard 12 in. (305 mm) cable with IP67 connectors (custom length up to 10 feet / 3 meters)
3. Daisy chain with 3 in. (76 mm) cable between runs (custom length up to 36 in. / 914 mm)

4. 3 in. (305 mm) cable between IP67 connector and RibbonLyte (custom length up to 18 in. / 457 mm)
 5. Standard 12 in. (305 mm) cable with bare wire (custom length up to 10 feet / 3 meters)
- Note: IP67 connectors are used for IP20, IP65, IP68 and IP69 RibbonLyte

AVAILABLE COLOR TEMPERATURES



VW

SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

3.0 VARIABLE WHITE SERIES 2 RIBBONLYTE						
Operating Voltage	24 V					
Color Temperatures	2000K-6500K			1800K-3300K		
	Warm White (2000K)	Cool White (6500K)	All On	Warm White (1800K)	Cool White (3300K)	All On
Power Consumption	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	3.0 W/ft (9.8 W/m)	1.5 W/ft (4.92 W/m)	1.5 W/ft (4.92 W/m)	3.0 W/ft (9.8 W/m)
Lumens	91.3 lm/ft (299.46 lm/m)	114.5 lm/ft (375.56 lm/m)	218.5 lm/ft (716.68 lm/m)	77.6 lm/ft (254.6 lm/m)	119.1 lm/ft (390.6 lm/m)	196.7 lm/ft (645.1 lm/m)
Efficacy	61 lm/W	76 lm/W	73 lm/W	52 lm/W	79 lm/W	66 lm/W
Protection Rating	IP20, IP65, IP68, IP69			IP20		
Current (mA) - 24V	125 mA/ft (410 mA/m)					
LED Pitch	42 LEDs/ft (140 LEDs/m)					
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	-40 — 140 °F (-40 — 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)					
Incremental Length	1.97 in. (50 mm)					
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					
	All RibbonLyte models 3.0 W/ft (9.8 W/m) and lower when used in any Acolyte Channel profile except Piccolo are tested by UL and confirmed 'Suitable for Installation in the Storage Area of a Clothes Closet' in accordance with NFPA 70 and NEC 410.16 and 411.					
	CE					

24V DIMENSIONS	Top View		Side View	Dimensions
IP20		Incremental length: 1.97 in. (50 mm)		Width 0.31 in. (8 mm) Max Length 32 ft 8 in. (10 m) Height 0.09 in. (2.3 mm)
IP65		Incremental length: 1.97 in. (50 mm)		Width 0.31 in. (8 mm) Max Length 32 ft 8 in. (10 m) Height 0.125 in. (3.2 mm)
IP68		Incremental length: 1.97 in. (50 mm)		Width 0.44 in. (11.2 mm) Max Length 32 ft 8 in. (10 m) Height 0.18 in. (4.5 mm)
IP69		Incremental length: 1.97 in. (50 mm)		Width 0.41 in. (10.5 mm) Max Length 32 ft 8 in. (10 m) Height 0.18 in. (4.5 mm)

OPTIONAL ACCESSORY

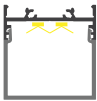
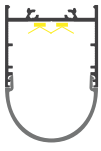
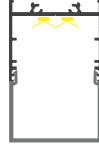
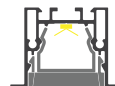
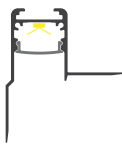
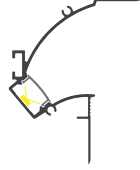
0-10V Dimmable 90W VW/WD Driver	Flat Mounting Clip	Silicone Clip	0.5 in. VHB Tape**
 Part Number: DRVRFWDVW2490120	 For mounting IP20/IP65 RibbonLyte Part Number: RBMNTSIL	 For mounting IP68/IP69 RibbonLyte Part Number: RBMNTSILW	 Provides superior holding power in surface mounted applications Part Number: VHBTAPE0.5BK

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.

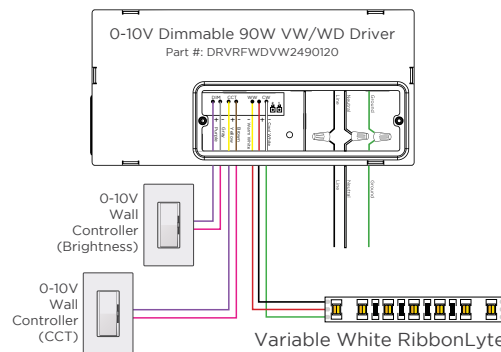
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CHANNEL COMPATIBILITY / CHANNEL OPTIONS

CHANNEL	IP20 IP65	IP68	IP69	SURFACE MOUNTED											
AC1	✓	✓	✓												
AC2	✓	✓	✓												
AC3	✓	✓	✓												
AC5	✓	✓	✓	AS1	AS1GS	AS2	AS3	AS10	AS13 / round lens	AS13 / square lens	AS15L				
AC15L	✓			W: 0.68 in. / 17.2 mm H: 0.34 in. / 8.6 mm	W: 0.67 in. / 17.1 mm H: 0.55 in. / 13.9 mm	W: 0.7 in. / 17.8 mm H: 0.6 in. / 15.2 mm	W: 0.93 in. / 23.6 mm H: 0.42 in. / 10.7 mm	W: 0.47 in. / 12 mm H: 0.47 in. / 12 mm	W: 1.31 in. / 33.4 mm H: 1.29 in. / 32.7 mm	W: 1.31 in. / 33.4 mm H: 1.37 in. / 34.8 mm	W: 0.59 in. / 15 mm H: 0.59 in. / 15 mm				
AR1	✓	✓	✓												
AR3	✓	✓	✓												
AR15L	✓														
AR15AL	✓														
AR24R	✓	✓	✓	AS16	AS20G	AS20GS	AS21	AS23	AS24R	AS29L					
AR29L	✓	✓	✓	W: 0.74 in. / 18.8 mm H: 0.73 in. / 18.6 mm	W: 0.61 in. / 15.5 mm H: 0.71 in. / 18 mm	W: 1.11 in. / 28.3 mm H: 1.57 in. / 40 mm	W: 0.79 in. / 20 mm H: 0.82 in. / 20.84 mm	W: 0.91 in. / 23 mm H: 1.59 in. / 40.5 mm	W: 0.91 in. / 23 mm H: 1.03 in. / 26.2 mm	W: 1.18 in. / 30 mm H: 1.15 in. / 29.2 mm					
AS1	✓	✓	✓												
AS1GS	✓	✓	✓												
AS2	✓	✓	✓												
AS3	✓	✓	✓												
AS5	✓	✓	✓												
AS10	✓														
AS13	✓	✓	✓	AS30 / round lens	AS30 / square lens	AS31	AT4	AT5	B1						
AS15L	✓			W: 1.31 in. / 33.4 mm H: 1.95 in. / 49.5 mm	W: 1.31 in. / 33.4 mm H: 2.03 in. / 51.6 mm	W: 1.18 in. / 30 mm H: 1.22 in. / 30.92 mm	W: 0.77 in. / 19.6 mm H: 0.74 in. / 18.8 mm	W: 0.77 in. / 19.6 mm H: 0.74 in. / 18.8 mm	W: 0.77 in. / 19.6 mm H: 0.26 in. / 6.5 mm						
AS16	✓	✓	✓												
AS20G	✓		✓												
AS20GS	✓														
AS21	✓	✓	✓												
AS23	✓	✓	✓												
AS24R	✓	✓	✓												
AS29L	✓	✓	✓												
AS30	✓	✓	✓												
AS31	✓	✓	✓												
AS53															
AT4	✓	✓	✓												
AT5	✓	✓	✓												
B1	✓	✓	✓												
SC3	✓	✓	✓												
SC10	✓														
SC15L	✓														
SC20C	✓	✓	✓												
SC23	✓	✓	✓												
SC24R	✓	✓	✓												
SC38C	✓	✓	✓												
				CORNER											
															
				AC1	AC2	AC3	AC5	AC15L							
				W: 0.63 in. / 16 mm H: 0.63 in. / 16 mm	W: 0.63 in. / 16 mm H: 0.63 in. / 16 mm	W: 0.74 in. / 18.8 mm H: 0.74 in. / 18.8 mm	W: 1.18 in. / 30 mm H: 1.18 in. / 30 mm	W: 0.63 in. / 16 mm H: 0.63 in. / 16 mm							
				RECESSED											
															
				AR1	AR3	AR15L	AR15AL	AR24R	AR29L						
				W: 0.9 in. / 22.9 mm H: 0.31 in. / 7.87 mm	W: 1.2 in. / 30.5 mm H: 0.42 in. / 10.8 mm	W: 0.59 in. / 15 mm H: 0.53 in. / 13.5 mm	W: 1.31 in. / 33.3 mm H: 0.6 in. / 15.3 mm	W: 1.3 in. / 33 mm H: 1.03 in. / 26.2 mm	W: 1.57 in. / 40 mm H: 1.15 in. / 29.2 mm						
				MUD-IN											
															
				SC3	SC10	SC20C	SC24R	SC15L	SC23	SC38C					
				W: 2.62 in. / 66.6 mm H: 0.55 in. / 14 mm	W: 1.41 in. / 35.9 mm H: 0.56 in. / 14.1 mm	W: 1.66 in. / 42.2 mm H: 1.89 in. / 48.1 mm	W: 2.48 in. / 63 mm H: 1.03 in. / 26.2 mm	W: 2.17 in. / 55 mm H: 0.39 in. / 9.8 mm	W: 0.93 in. / 23.7 mm H: 3.46 in. / 88 mm	W: 2.32 in. / 58.9 mm H: 2.85 in. / 72.3 mm					

WIRING DIAGRAMS

2-CHANNEL VARIABLE WHITE DIMMING



Note: 2-Channel 0-10V Dimming maintains a consistent light output level while changing color temperatures.

WIRE COLORS PER RIBBONLYTE COLOR

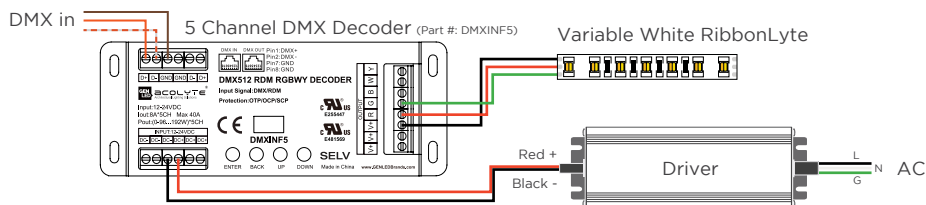
VARIABLE WHITE

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	14.66	2.93	9.62	0.611
10	3.05	28.72	2.87	9.42	1.197
15	4.57	41.58	2.77	9.09	1.733
20	6.10	52.67	2.63	8.64	2.195
25	7.62	61.53	2.46	8.07	2.564
30	9.15	67.77	2.26	7.41	2.824
32.67	9.96	70.34	2.15	7.06	2.931

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.

USAGE GUIDELINES

- IP65, IP68 and IP69 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. IP69 RibbonLyte protects against water ingress from high-pressure, high-temperature water jets. But please note that 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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