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 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 50 mm cut 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.

- Single-row, dual-chip layout means 140 LEDs per meter (42 LEDs per foot!)
- Available in three (3) wattages (1W/ft, 3W/ft, 6W/ft)
- 50 mm cut length adds amazing flexibility to your design
- Color temperature range of 2000K to 6500K and 90+ CRI
- 2-channel dimming! One channel controls brightness and one controls temperature
- Closet rated (standalone or surface channels)

AVAILABLE COLOR TEMPERATURES

VW

RoHS   IP20   IP65   IP68

ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage + Color
RB	**0**		**3.0VW**
RB - Ribbonlyte	**0** - Color Changing	**VWS220** - VW Series 2 IP20	**3.0VW** - 1.0 Variable White
		VWS265 - VW Series 2 IP65	
		VWS268 - VW Series 2 IP68	

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)
Note: IP67 connectors are used for both IP20 and IP65/IP68 RibbonLyte

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.

SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

	3.0 VARIABLE WHITE SERIES 2 RIBBONLYTE
Operating Voltage	24 V
Power Consumption	3.0 W/ft (9.8 W/m)
Current (mA) - 24V	125 mA/ft (410 mA/m)
LED Pitch	42 LEDs/ft (140 LEDs/m)
Protection Rating	IP20, IP65, IP68
Dimming/Control	DMX / 0-10V with Dimming Module
Operating Temperature	-40° F to 140° F (-40° C to 60° C)
Color Temperatures	2000K – 6500K (IP20) 2000K – 6000K (IP65/IP68)
MacAdam Ellipses (SDCM)	2-Step Binning
Maximum Light Output	2-Channel 0-10V Dimming*: 120-147 lm/ft (394-482 lm/m) DMX Dimming: 265 lm/ft (868 lm/m)
Binning Tolerance	+/- 100K
LED Beam Angle	120°
Lamp Life	43,000 hrs L70 @ 131° F (55° C)
Cuttable Length	1.97 in. (50 mm)
Lumens/Watt	72 - 90 lm/W (Warm - Cool LED)
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 UL 2108. Suitable for use in closets, compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5).

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

24V DIMENSIONS	Top View	Side View	Dimensions
IP20	CUTTABLE EVERY: 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	CUTTABLE EVERY: 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	CUTTABLE EVERY: 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)

OPTIONAL ACCESSORY

Dual Dimming Module*	Flat Mounting Clip	Silicone Clip	0.5 in. VHB Tape**
Part Number: VWDIMMODBCC	For mounting IP20/IP65 RibbonLyte Part Number: RBMNTSIL	For mounting IP68 RibbonLyte Part Number: RBMNTSILW	Provides superior holding power in surface mounted applications Part Number: VHBTAPE0.5BK

* When using this RibbonLyte with the VWDIMMODBCC Dual Dimming Module, for the 0-10V dimmer that controls color temperature NOT to affect the brightness, the output power should not exceed the max power for either (single) of the two color temperatures. When pairing Variable White or Warm Dim RibbonLyte with this module, the RibbonLyte power consumption should never exceed 50% of the max rated power.

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.
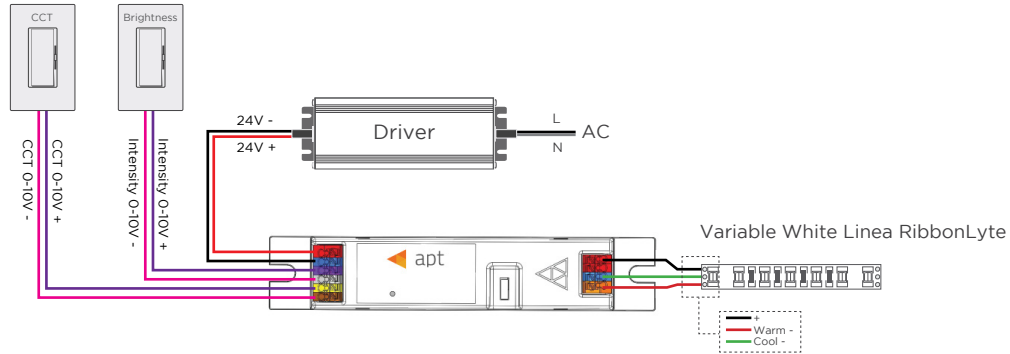
CHANNEL COMPATIBILITY / CHANNEL OPTIONS

CHANNEL	IP20 IP65	IP68
AC1	✓	✓
AC2	✓	✓
AC3	✓	✓
AC4	✓	✓
AC5	✓	✓
AC14	✓	
AP1	✓	✓
AR1	✓	
AR2	✓	✓
AR3	✓	✓
AR5	✓	
AR8	✓	
AR10	✓	
AR14	✓	
AR16	✓	✓
AR20	✓	✓
AR23	✓	
AR25		
AR30		
AR33		
AS1	✓	
AS2	✓	✓
AS3	✓	✓
AS6	✓	✓
AS10	✓	
AS12	✓	✓
AS13		
AS14	✓	
AS16	✓	✓
AS20G	✓	
AS23	✓	✓
AS28		
AS30		
AS53		
AT4	✓	✓
AT5	✓	✓
AT11	✓	✓
AW10	✓	
AW12	✓	
AW14	✓	✓
AW35		
AW38		
AW40	✓	
B1	✓	
B2	✓	
C22	✓	✓
GL1	✓	✓
GL2	✓	✓
ROUND	✓	✓
ROUND12	✓	
ROUND20	✓	✓
SC1		
SC2		
SC3	✓	
SC4		
SC5		
SC6	✓	✓
SC-CORNER1	✓	
SC-CORNER2	✓	
ST10	✓	
W31		
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

AC1 C, F, M	AC2 C, F, M	AC3 C, F, M	AC4 C, F, M	AC5 C, F, M	AC14 SM	AP1 C, K, M, SM	AS1 C, F, M
AS2 C, F, M	AS3 C, F, M	AS6 C, F, M	AS10 C, M	AS12 RM	AS14 SM	AS16 C, K, M	AS20G G
AS23 C, K, M, SM	AT4 C, F, M	AT5 C, F, M	AT11 C, F, M	AW10 C, K, M	AW12 C, K, M, RM	AW14 C, K, M	AW40 C, F, M
B1 C, F, M	B2 RM	C22 C, F, M	GL2 C, F, M	ROUND C, F, M	ROUND12 C, K, M	ROUND20 C, K, M	ST10 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

| AR1 C, F, M | AR2 C, F, M | AR3 C, F, M | AR5 M | AR8 C, F, M | AR10 C, M | AR14 SM | AR16 C, K, M |
| AR20 C, K, M, SM | AR23 C, K, M | GL1 C, F, M | SC3 M | SC6 C, K, M, SM | SC-CORNER1 M | SC-CORNER2 M | |

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 70°C/158°F maximum that our product is rated for. High risk locations like this should be avoided.

Our IP68 product is not intended to be submerged in pools and fountains and does not carry UL676 certification to do so.

WIRING DIAGRAMS

2-CHANNEL DIMMING WIRING DIAGRAM

CCT

Brightness

CCT 0-10V +

CCT 0-10V -

Intensity 0-10V +

Intensity 0-10V -

24V -

24V +

Driver

L
N

AC

apt

Variable White Linea RibbonLyte

Warm -
Cool -

* 0-100% flicker-free performance not guaranteed when used with non-Acolyte Drivers

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

DMX Interface

To
DMX
Controller

Red +

Black -

Driver

L
G
N

AC