

4.4 RGBWW 5-IN-1 RIBBONLYTE

RGBWW 5-in-1 RibbonLyte is a special color changing ribbon controlled with DMX. Each diode uses five separate chips (red, green, blue and both warm white and cool white) to provide advanced color blending. Two tunable white LED chips (2400K and 6500K) deliver varied levels of warmth and brightness. RGBWW Five-in-One RibbonLyte offers superior pixel density and short cut lengths for creating unique custom fixtures.

Available in IP20 and IP69.

- Color changing with DMX controls
- 5-in-1 RGB + Warm White + Cool White
- Adjust output for warmth and brightness
- 29 LEDs per foot (96 LEDs/m)
- Incremental length: 2.46 in. (62.5 mm)
- All on: 58 lm/W
- All on: 255.12 lm/ft (836.79 lm/m)

RoHS

IP20

IP69

Declare.



ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage + Color
RB	0		4.4RGB2465
RB - Ribbonlyte	0 - Color Changing	RGBWW20 - RGBWW 5-in-1 IP20 RGBWW69 - RGBWW 5-in-1 IP69	4.4RGB2465 - 4.4 W/ft (14.4 W/m) RGBWW (2400K + 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. (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)

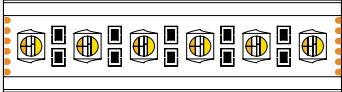
Note: IP67 connectors are used for IP20 and IP69 RibbonLyte

AVAILABLE COLORS



SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

4.4 RGBWW 5-in-1 RibbonLyte						
Operating Voltage	24 V					
Colors	RGBWW (2400K + 6500K)					
	Red	Green	Blue	Warm White (2400K)	Cool White (6500K)	All On
Power Consumption	0.88 W/ft (2.89 W/m)	0.88 W/ft (2.89 W/m)	0.88 W/ft (2.89 W/m)	0.88 W/ft (2.89 W/m)	0.88 W/ft (2.89 W/m)	4.4 W/ft (14.4 W/m)
Lumens	27.56 lm/ft (90.4 lm/m)	69.51 lm/ft (228 lm/m)	19.63 lm/ft (64.39 lm/m)	64.02 lm/ft (210 lm/m)	80.55 lm/ft (264.2 lm/m)	255.12 lm/ft (836.8 lm/m)
Efficacy	31 lm/W	79 lm/W	22 lm/W	92 lm/W	73 lm/W	58 lm/W
Current (mA)	183 mA/ft (602 mA/m)					
LED Pitch	29 LED/ft (96 LED/m)					
Protection Rating	IP20, IP69					
Dimming/Control	DMX, DALI					
Operating Temperature	-40 — 104 °F (-40 — 40 °C)					
Binning Tolerance	+/- 100K (White)					
LED Beam Angle	120°					
Lifetime (L70 reported)	50,000 hours					
Incremental Length	2.46 in. (62.5 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 UL. CE					

DIMENSIONS	Top View	Side View	Dimensions
IP20	 Incremental length: 2.46 in. (62.5 mm)		Width 0.47 in (12 mm) Max Length 16 ft 4 in (5 m) Height 0.09 in (2.3 mm)
IP69	 Incremental length: 2.46 in. (62.5 mm)		Width 0.57 in. (14.5 mm) Max Length 16 ft 4 in (5 m) Height 0.21 in. (5.3 mm)

OPTIONAL ACCESSORY

0.5 in. VHB Tape	Flat Mounting Clip	Silicone Clip
 Provides superior holding power in surface mounted applications Part Number: VHBTAPE0.5BK	 For mounting IP20 RibbonLyte Part Number: RBMNTSIL	 For mounting IP69 RibbonLyte Part Number: RBMNTSILW

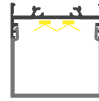
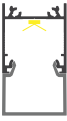
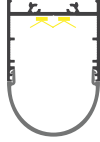
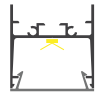
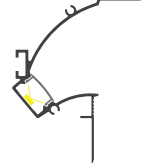
Note: RibbonLyte comes with an adhesive backing, but Acolyte recommends using VHB Tape for extra support in surface mounted applications.

USAGE GUIDELINES

- 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 40 °C / 104 °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 only. 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.

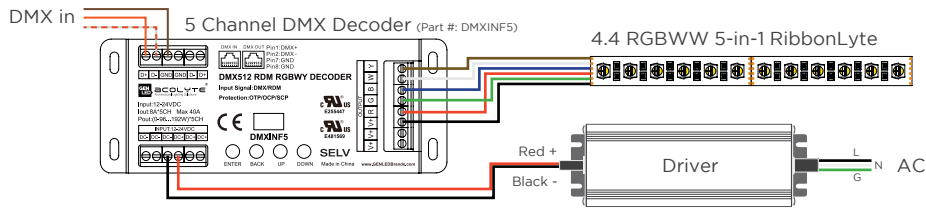
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CHANNEL COMPATIBILITY / CHANNEL OPTIONS

CHANNEL	IP65	IP69	SURFACE MOUNTED							
AC1	✓		 AS1 W: 0.68 in. / 17.2 mm H: 0.34 in. / 8.6 mm  AS1GS W: 0.67 in. / 17.1 mm H: 0.55 in. / 13.9 mm  AS2 W: 0.7 in. / 17.8 mm H: 0.6 in. / 15.2 mm  AS3 W: 0.93 in. / 23.6 mm H: 0.42 in. / 10.7 mm  AS13 / round lens W: 1.31 in. / 33.4 mm H: 1.29 in. / 32.7 mm  AS13 / square lens W: 1.31 in. / 33.4 mm H: 1.37 in. / 34.8 mm  AS16 W: 0.74 in. / 18.8 mm H: 0.73 in. / 18.6 mm  AS21 W: 0.79 in. / 20 mm H: 0.82 in. / 20.84 mm							
AC2	✓									
AC3	✓									
AC5	✓	✓								
AC15L										
AR1	✓									
AR3	✓	✓								
AR15L			 AS23 W: 0.91 in. / 23 mm H: 1.59 in. / 40.5 mm  AS24R W: 0.91 in. / 23 mm H: 1.03 in. / 26.2 mm  AS29L W: 1.18 in. / 30 mm H: 1.15 in. / 29.2 mm  AS30 / round lens W: 1.31 in. / 33.4 mm H: 1.95 in. / 49.5 mm  AS30 / square lens W: 1.31 in. / 33.4 mm H: 2.03 in. / 51.6 mm  AS31 W: 1.18 in. / 30 mm H: 1.22 in. / 30.92 mm  AT4 W: 0.77 in. / 19.6 mm H: 0.74 in. / 18.8 mm  AT5 W: 0.77 in. / 19.6 mm H: 0.74 in. / 18.8 mm							
AR15AL										
AR24R	✓									
AR29L	✓									
AS1	✓									
AS1GS	✓									
AS2	✓		 B1 W: 0.77 in. / 19.6 mm H: 0.26 in. / 6.5 mm							
AS3	✓	✓								
AS5	✓									
AS10										
AS13	✓	✓								
AS15L										
AS16	✓	✓								
AS20G			 AC1 W: 0.63 in. / 16 mm H: 0.63 in. / 16 mm  AC2 W: 0.63 in. / 16 mm H: 0.63 in. / 16 mm  AC3 W: 0.74 in. / 18.8 mm H: 0.74 in. / 18.8 mm  AC5 W: 1.18 in. / 30 mm H: 1.18 in. / 30 mm							
AS20GS										
AS21	✓	✓								
AS23	✓	✓								
AS24R	✓									
AS29L	✓									
AS30	✓	✓								
AS31	✓	✓								
AS53			 AR1 W: 0.9 in. / 22.9 mm H: 0.31 in. / 7.87 mm  AR3 W: 1.2 in. / 30.5 mm H: 0.42 in. / 10.8 mm  AR24R W: 1.3 in. / 33 mm H: 1.03 in. / 26.2 mm  AR29L W: 1.57 in. / 40 mm H: 1.15 in. / 29.2 mm							
AT4	✓	✓								
AT5	✓	✓								
B1	✓									
SC3	✓	✓								
SC10										
SC15L										
SC20C			 SC3 W: 2.62 in. / 66.6 mm H: 0.55 in. / 14 mm  SC24R W: 2.48 in. / 63 mm H: 1.03 in. / 26.2 mm  SC23 W: 0.93 in. / 23.7 mm H: 3.46 in. / 88 mm  SC38C W: 2.32 in. / 58.9 mm H: 2.85 in. / 72.3 mm							
SC23	✓									
SC24R	✓									
SC38C	✓	✓								

WIRING DIAGRAMS

DMX



WIRE COLORS PER RIBBONLYTE COLOR

RGBWW

Black (+) Positive
Green Wire (-) goes to Green Channel
Red Wire (-) goes to Red Channel
Blue Wire (-) goes to Blue Channel
White Wire (-) goes to White Channel 1
Brown Wire (-) goes to White Channel 2

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	21.49	4.30	14.10	0.895
10	3.05	41.83	4.18	13.72	1.743
15	4.57	59.93	4.00	13.10	2.497
16.3	4.97	65.28	4.00	13.14	2.720

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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