

8.8 RGBW SERIES 2 RIBBONLYTE

8.8 RGBW Series 2 RibbonLyte is a color changing ribbon controlled with DMX. Each diode uses four separate chips (red, green, blue and white) to provide flawless color blending. Three CCT choices (2700K, 3000K, or 4000K) deliver varied levels of brightness. Our RGBW Series 2 RibbonLyte offers better pixel density and shorter incremental lengths for more custom fixture options than ever before.

- Color changing with DMX controls
- 36 LEDs/ft (120 LEDs/m)
- 2 in. (50 mm) incremental lengths
- 0.47 in. (12 mm) width
- 8.8 W/ft (28.9 W/m)
- All on: Up to 76 lm/W
- All on: Up to 664.81 lm/ft (2180.58 lm/m)



ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage + Color	
RB	0	RGBWS220		
RB - Ribbonlyte	0 - Color Changing	RGBWS220 - RGBW Series 2 IP20	8.8RGB27 - 8.8 W/ft (28.9 W/m) RGB+2700K	8.8RGB40 - 8.8 W/ft (28.9 W/m) RGB+4000K
			8.8RGB30 - 8.8 W/ft (28.9 W/m) RGB+3000K	

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 RibbonLyte

AVAILABLE COLORS



RGBW

USAGE GUIDELINES

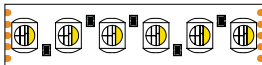
- When installing this product, consider the surface temperature of the material where it will be mounted. Many building surfaces which are exposed to direct sunlight exceed the 40 °C / 104 °F maximum for which our product is rated. High-risk locations like this should be avoided.
- IP20 RibbonLyte products are for indoor use in dry areas only. IP20 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.

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SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

8.8 RGBW Series 2 Ribbonlyte	
Operating Voltage	24 V
Colors	RGBW (2700K, 3000K, 4000K)
Current (mA)	367 mA/ft (1203 mA/m)
LED Pitch	36 LEDs/ft (120 LEDs/m)
Protection Rating	IP20
Dimming/Control	Controlled with an external multi-channel DALI driver / CASAMBI or by DMX with an external interface and driver
Operating Temperature	-40 — 104 °F (-40 — 40 °C)
Binning Tolerance	+/- 100K (White)
LED Beam Angle	120°
Lifetime (L70 reported)	50,000 hours
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

RGBW (2700K)					
	Red	Green	Blue	White (2700K)	All On
Power Consumption	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	8.8 W/ft (28.9 W/m)
Lumen	116.5 lm/ft (382.12 lm/m)	308.76 lm/ft (1012.7 lm/m)	78.89 lm/ft (258.76 lm/m)	236.32 lm/ft (755.13 lm/m)	664.81 lm/ft (2180.58 lm/m)
Efficacy	53 lm/W	140 lm/W	36 lm/W	107 lm/W	76 lm/W
RGBW (3000K)					
	Red	Green	Blue	White (3000K)	All On
Power Consumption	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	8.8 W/ft (28.9 W/m)
Lumen	76.5 lm/ft (250.92 lm/m)	230.1 lm/ft (754.73 lm/m)	48.7 lm/ft (159.74 lm/m)	215.4 lm/ft (706.51 lm/m)	556 lm/ft (1823.68 lm/m)
Efficacy	35 lm/W	105 lm/W	22 lm/W	98 lm/W	63 lm/W
RGBW (4000K)					
	Red	Green	Blue	White (4000K)	All On
Power Consumption	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	2.2 W/ft (7.22 W/m)	8.8 W/ft (28.9 W/m)
Lumen	74.45 lm/ft (244.2 lm/m)	210.3 lm/ft (689.78 lm/m)	50.62 lm/ft (166.03 lm/m)	202.13 lm/ft (663 lm/m)	552.01 lm/ft (1810.59 lm/m)
Efficacy	34 lm/W	96 lm/W	23 lm/W	92 lm/W	63 lm/W

DIMENSIONS	Top View	Side View	Dimensions
IP20	 Incremental length: 1.97 in. (50 mm)		Width 0.47 in (12 mm) Max Length 16 ft 4 in (5 m) Height 0.09 in (2.3 mm)

OPTIONAL ACCESSORY

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

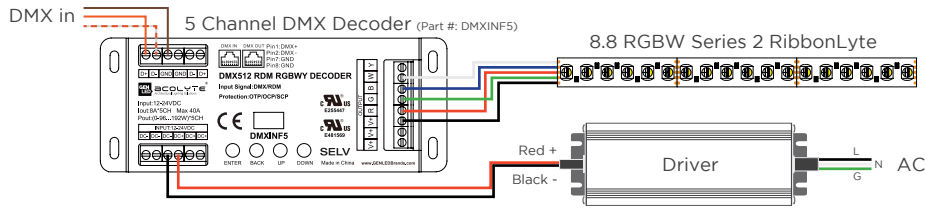
Note: RibbonLyte comes with an adhesive backing, but Acolyte recommends using VHB Tape for extra support in surface mounted applications.

CHANNEL COMPATIBILITY / CHANNEL OPTIONS

CHANNEL	IP20	SURFACE MOUNTED							
AC1	✓								
AC2	✓								
AC3	✓								
AC5	✓								
AC15L	✓								
AR1	✓								
AR3	✓								
AR15L	✓								
AR15AL	✓								
AR24R	✓								
AR29L	✓								
AS1	✓								
AS1GS	✓								
AS2	✓								
AS3	✓								
AS5	✓								
AS10									
AS13	✓								
AS15L	✓								
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									
		RECESSED							
AR1									
AR3									
AR15L									
AR15AL									
AR24R									
AR29L									
		MUD-IN							
SC3									
SC24R									
SC15L									
SC23									
SC38C									

WIRING DIAGRAMS

DMX



WIRE COLORS PER RIBBONLYTE COLOR

RGBW

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

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	36.39	7.28	23.87	1.516
10	3.05	70.12	7.01	23.00	2.922
15	4.57	98.35	6.56	21.51	4.098
16.3	4.97	106.16	6.51	21.36	4.423

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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