

Date Project

Notes

5.5 RGBW SERIES 2 RIBBONLYTE

5.5 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, 4000K) deliver varied levels of brightness. Our RGBW Series 2 RibbonLyte offers better pixel density and shorter cut lengths for more custom fixture options than ever before. Available in IP65 or IP68.

- Color changing with DMX controls
- Improved pitch of 36 LEDs per foot
- · Increased efficacy and lumen output
- Tighter cut lengths of 2 in. (50 mm)

Applications:

Commercial Entertainment Healthcare

Hospitality Museums **Public Spaces** Residential Retail





RoHS IP65 IP68





ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage + Color	
RB	0			
RB - Ribbonlyte	0 - Color Changing	RGBWS265 - RGBW Series 2 IP65	5.5RGB27 - 5.5 RGB + 2700K	5.5RGB40 - 5.5 RGB + 4000K
		RGBWS268 - RGBW Series 2 IP68	5.5RGB30 - 5.5 RGB + 3000K	

CONNECTION OPTIONS

1. End Feed Bare Wire Connection (Default Option)







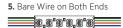




4. Daisy Chain with IP67 Connectors







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

AVAILABLE COLORS





SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

	5.5 RGBW Series 2 RibbonLyte			
Operating Voltage	24 V			
Power Consumption	5.5 W/ft (18 W/m)			
Current (mA) - 24V	229 mA/ft (752 mA/m)			
LED Pitch	36 LEDs/ft (120 LEDs/m)			
Protection Rating	IP65, IP68			
Dimming/Control	DMX			
Operating Temperature	-40° F to 140° F (-40° C to 60° C)			
Colors/Color Temperatures	RGBW (2700K), RGBW (3000K), RGBW (4000K)			
Lumens - RGBW	305 lm/ft (1000 lm/m) All LEDs at 100%			
Binning Tolerance	+/- 100K (White)			
LED Beam Angle	120°			
Lamp Life	50,000 Hours			
Cuttable Length	1.97 in. (50 mm)			
Lumens/Watt	59 lm/W (All LEDs at 100%)			
Constant Voltage	\checkmark			
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			

DIMENSIONS	Top View	Side View	Dimensions
IP65	CUTTABLE EVERY: 1.97 in. (50 mm)	The state of the s	Width 0.47 in. (12 mm) Max Length 19 ft 7.9 in. (6 m) Height 0.125 in. (3.2 mm)
IP68	CUTTABLE EVERY: 1.97 in. (50 mm)		Width 0.58 in. (14.8 mm) Max Length 19 ft 7.9 in. (6 m) Height 0.21 in. (5.3 mm)

OPTIONAL ACCESSORY



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

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.



CHANNEL COMPATIBILITY / CHANNEL OPTIONS

CHANNEL	_ COMI	AHBILI	IY / CHANNEL (JPTIONS					
CHANNEL	IP65	IP68	SURFACE CHANNELS						
AC1									
AC2	✓								
AC3	~								
AC4	✓	~	AS1	AS2	AS3	AS6	AS16		
AC5	~	~	W: 0.68 in. / 17.2 mm H: 0.34 in. / 8.7 mm Inside: 0.57 in. / 14.6 mm	W: 0.7 in. / 17.8 mm H: 0.6 in. / 15.2 mm Inside: 0.49 in. / 12.5 mm	W: 0.93 in. / 23.6 mm H: 0.42 in. / 10.7 mm Inside: 0.81 in. / 20.6 mm	W: 0.89 in. / 22.5 mm H: 0.62 in. / 15.7 mm Inside: 0.71 in. / 18 mm	W: 0.74 in. / 18.8 mm H: 0.73 in. / 18.6 mm Inside W: 0.65 in. / 16.4 mm		
AR1	✓					اب سا	Inside H: 0.63 in. / 16 mm		
AR3	~	~	Lz 31	<u> </u>			•	, <u>Er</u>	 1
AR10					لتسنغا	اد ا			
AR16	~	~		1 1		7 9	F	1 F	1
AR20	~	~			زم م				
AR25	~	~	AS13 / round milky	AS13 / square milky	AS23	AS23 / square mill		WH35	
AR30	~	~	W: 1.31 in. / 33.4 mm H: 1.29 in. / 32.7 mm Inside W: 1.22 in. / 31 mm	W: 1.31 in. / 33.4 mm H: 1.37 in. / 34.8 mm Inside W: 1.22 in. / 31 mm Inside H: 1.07 in. / 27.3 mm	W: 0.91 in. / 23 mm H: 0.99 in. / 25.1 mm Inside W: 0.83 in. / 21 mm	W: 0.91 in. / 23 mm H: 1.59 in. / 40.5 mm Inside W: 0.83 in. / 21 mm	W/H: 1.31 in. / 33.4 mm H: 1.17 in. / 29.6 mm Inside W: 1.17 in. / 29.8 m	W: 1.37 in. / 35 mm H: 1.47 in. / 37.5 mm m Inside: 1.23 in. / 31.2	n mm
AR33			Inside H: 1 in. / 25.3 mm	Inside H: 1.07 in. / 27.3 mm	Inside H: 0.72 in. / 18.2 mm	Inside H: 1.32 in. / 33.4 mm	Inside H: 0.93 in. / 23.6 n	nm	
AS1	~								
AS2	~				ſ 7				
AS3	/	/			/				
AS6	/	~	15 71)C 7(7		
AS10				<u> </u>	b /		<u> </u>		
AS13	/	/			/	4	_		
AS16	~	~	AT4 W: 0.77 in. / 19.6 mm	AT5 W: 0.77 in. / 19.6 mm	AW12 W: 0.91 in. / 23 mm	AW38 W: 1.5 in. / 38 mm	B1 W: 0.77 in / 19.6 mm		
AS20G			W: 0.77 in. / 19.6 mm H: 0.74 in. / 18.8 mm Inside W: 0.66 in. / 16.8 mm	W: 0.7/ in. / 19.6 mm H: 0.74 in. / 18.8 mm Inside W: 0.66 in. / 16.8 mm	H: 2.17 in. / 55 mm	H: 1.31 in. / 33.4 mm	W: 0.77 in / 19.6 mm H: 0.26 in / 6.5 mm Inside W: 0.69 in / 17.6	mm	
AS23	~	~	CORNER CHANNEL	c	1130011.03211.7331111	113.00 11. 11.7 11.7 23.5 11.11			
AS30	~	~	CORNER CHANNEL	5					
AS53									
AT4	~	~							
AT5	~	~							
AW12	~		AC1	AC2	AC3	AC4	AC5		
AW14	✓		W: 0.63 in. / 16 mm H: 0.63 itn. / 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: 1.17 in. / 29.72 mm H: 1.17 in. / 29.72 mm	W: 1.11 in. / 28.19 mm		
AW38	~	~	Inside W: 0.48 in. / 12.2 mm	Inside W: 0.48 in. / 12.2 mm	Inside W: 0.48 in. / 12.2 mm	Inside W: 0.8 in. / 20.32 mm	H: 1.11 in. / 28.19 mm Inside W: 0.8 in. / 20.32 mm		
B1	~		RECESSED CHANNI	ELS					
SC3	~								ŀ
SC4	~	~							⊨ ∃
SC5	~	~					[]		
WH35	/	/				Tr -	AA_	<u> </u>	
			AR1 W: 0.9 in. / 22.9 mm	AR3 W: 1.2 in. / 30.5 mm	AR16	AR20 W: 118 in / 30 mm	AR25 W: 175 in / 44.4 mm	AR30 W:175 in / 444 mm	AW14 W: 0.98 in / 24.9 mm
			H: 0.31 in. / 7.87 mm Inside W: 0.49 in. / 12.5 mm	H: 0.39 in. / 9.9 mm Inside W: 0.81 in. / 20.6 mm	W: 1.1 in. / 28 mm H: 0.73 in. / 18.6 mm Inside W: 0.65 in. / 16.4 mm Inside H: 0.64 in. / 16.2 mm	W: 1.18 in. / 30 mm H: 0.8 in. / 20.4 mm Inside W/H: 0.83 in. / 21 mm Inside H: 0.73 in. / 18.5 mm	W: 1.75 in. / 44.4 mm H: 0.94 in. / 24 mm Inside W: 1.22 in. / 31 mm Inside H: 0.91 in. / 23 mm	W: 1.75 in. / 44.4 mm H: 0.55 in. / 14 mm Inside W: 1.22 in. / 31 mm Inside H: 0.51 in. / 13 mm	W: 0.98 in. / 24.9 mm H: 1.31 in. / 33.4 mm Inside W: 0.58 in. / 14.8 mm Inside H: 0.63 in. / 16 mm
			MUD-IN CHANNELS						
			MOD-IN CHANNELS						
						-			
				Π		Ŀ	4		
			—— <u>K</u>	<u> </u>	{\bar{\}}	{ <u>\</u>	<u>/</u>		
			SC3		SC4	SC5	W 05: (674		
			Overall W: 2.62 in. / 66.6 mm Visible W: 0.88 in. / 22.35 mm H: 0.55 in. / 14 mm Inside W: 0.69 in. / 17.5 mm		Overall W: 2.5 in. / 63.4 mm Visible W: 1.31 in. / 33.4 mm H: 0.63 in. / 15.9 mm Inside W: 1.22 in. / 31 mm	Visible V H: 0.94 i	W: 2.5 in. / 63.4 mm V: 1.31 in. / 33.4 mm n. / 24 mm /: 1.22 in. / 31 mm		
DISCLAIME	R		iii Side w: 0.09 In. / 17.5 mm		Inside W: 1.22 in. / 31 mm Inside H: 0.5 in. / 12.9 mm	Inside W Inside H	/: 1.22 in. / 31 mm : 0.83 in. / 21 mm		

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.





WIRING DIAGRAMS

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5.5 RGBW Series 2 RibbonLyte

5 Channel DMX Interface
Part #: DMXINFOLED5

DMX in

Red + Driver

Black - Driver

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