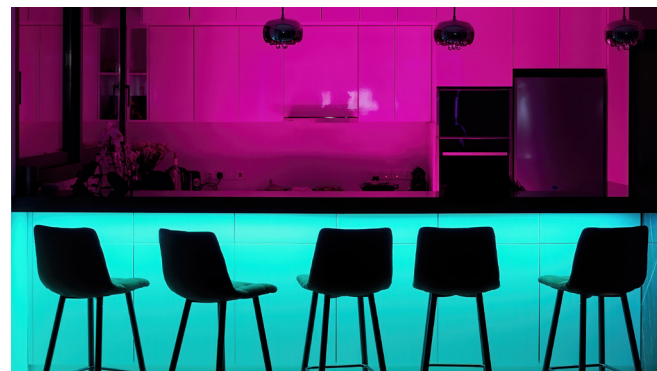


5.5 RGBW SERIES 2 RIBBONLYTE

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 incremental lengths for more custom fixture options than ever before. Available in IP65, IP68 or IP69.

- Color changing with DMX controls
- 36 LEDs/ft (120 LEDs/m)
- 2 in. (50 mm) incremental lengths
- 5.5 W/ft (18 W/m)
- All on: Up to 72 lm/W
- All on: Up to 395 lm/ft (1296 lm/m)



ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage + Color	
RB	0			
RB - Ribbonlyte	0 - Color Changing	RGBWS265 - RGBW Series 2 IP65 RGBWS268 - RGBW Series 2 IP68 RGBWS269 - RGBW Series 2 IP69	5.5RGB27 - 5.5 W/ft (18 W/m) RGB+2700K 5.5RGB30 - 5.5 W/ft (18 W/m) RGB+3000K	5.5RGB40 - 5.5 W/ft (18 W/m) RGB+4000K

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:

- 12 in. (305 mm) cable with bare wire (custom length up to 20 feet / 6 meters)
- Standard 12 in. (305 mm) cable with IP67 connectors (custom length up to 10 feet / 3 meters)
- Daisy chain with 3 in. (76 mm) cable between runs (custom length up to 36 in. / 914 mm)
- 3 in. (305 mm) cable between IP67 connector and RibbonLyte (custom length up to 18 in. / 457 mm)
- Standard 12 in. (305 mm) cable with bare wire (custom length up to 10 feet / 3 meters)

Note: IP67 connectors are used for IP65, IP68 and IP69 RibbonLyte

AVAILABLE COLORS



RGBW

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.
- 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.

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

5.5 RGBW Series 2 RibbonLyte	
Operating Voltage	24 V
Colors	RGBW (2700K, 3000K, 4000K)
Current (mA)	229 mA/ft (752 mA/m)
LED Pitch	36 LEDs/ft (120 LEDs/m)
Protection Rating	IP65, IP68, IP69
Dimming/Control	Controlled with an external multi-channel DALI driver / CASAMBI or by DMX with an external interface and driver
Operating Temperature	-40 – 140 °F (-40 – 60 °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) - IP65

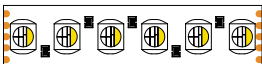
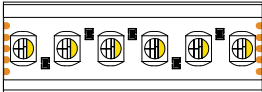
	Red	Green	Blue	White (2700K)	All On
Power Consumption	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	5.5 W/ft (18 W/m)
Lumen	59 lm/ft (194 lm/m)	173 lm/ft (567 lm/m)	37 lm/ft (122 lm/m)	115 lm/ft (378 lm/m)	362 lm/ft (1188 lm/m)
Efficacy	43 lm/W	126 lm/W	27 lm/W	84 lm/W	66 lm/W

RGBW (3000K) - IP65

	Red	Green	Blue	White (3000K)	All On
Power Consumption	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	5.5 W/ft (18 W/m)
Lumen	54 lm/ft (176 lm/m)	170 lm/ft (558 lm/m)	34 lm/ft (113 lm/m)	110 lm/ft (360 lm/m)	357 lm/ft (1170 lm/m)
Efficacy	39 lm/W	124 lm/W	25 lm/W	80 lm/W	65 lm/W

RGBW (4000K) - IP65

	Red	Green	Blue	White (4000K)	All On
Power Consumption	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	1.375 W/ft (4.5 W/m)	5.5 W/ft (18 W/m)
Lumen	59 lm/ft (194 lm/m)	174 lm/ft (572 lm/m)	37 lm/ft (122 lm/m)	140 lm/ft (459 lm/m)	395 lm/ft (1296 lm/m)
Efficacy	43 lm/W	127 lm/W	27 lm/W	102 lm/W	72 lm/W

DIMENSIONS	Top View		Side View	Dimensions
IP65		Incremental Length: 1.97 in. (50 mm)		Width 0.47 in. (12 mm) Max Length 19 ft 7.9 in. (6 m) Height 0.125 in. (3.2 mm)
IP68		Incremental Length: 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)
IP69		Incremental Length: 1.97 in. (50 mm)		Width 0.57 in. (14.5 mm) Max Length 19 ft 7.9 in. (6 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 IP65 RibbonLyte Part Number: RBMNTSIL	 For mounting IP68/IP69 RibbonLyte Part Number: RBMNTSILW

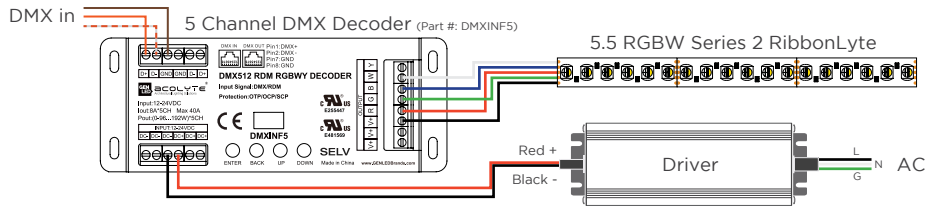
Note: RibbonLyte comes with an adhesive backing, but Acolyte recommends using VHB Tape for extra support in surface mounted applications.

CHANNEL COMPATIBILITY / CHANNEL OPTIONS

CHANNEL	IP65	IP68	IP69	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	✓	✓	✓								
AS22L											
AS23	✓	✓	✓								
AS24R	✓										
AS29L	✓										
AS30	✓	✓	✓								
AS31	✓	✓	✓								
AS35L											
AS53											
AT4	✓	✓	✓								
AT5	✓	✓	✓								
B1	✓										
SC3	✓	✓	✓								
SC10											
SC15L											
SC20C											
SC23	✓										
SC24R	✓										
SC38C	✓	✓	✓								
				CORNER							

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	26.89	5.38	17.64	1.120
10	3.05	52.62	5.26	17.26	2.193
15	4.57	75.95	5.06	16.61	3.165
19.7	6.01	95.84	4.86	15.96	3.993

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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GLOBAL HQ

320 Murray Hill Pkwy
East Rutherford, NJ 07073
U.S.
T: (+1) 212 629 6830
E: Sales-US@GENLEDBrands.com

EUROPEAN HQ

Hogeweyselaan 119
1382 JK Weesp
Netherlands
T: (+31) 346 235 000
E: SalesEurope@GENLEDBrands.com

MEINA HQ

PO Box 371378, #823, Building 4EA
Dubai Airport Free Zone
Dubai, UAE
T: (+971) 4 701 7901
E: SalesMEINA@genledbrands.com

ASIA-PACIFIC HQ

Room 402, Building D
Shenhi Tongchuang Science and Technology Park
No. 16 Hongyin Road
Xingqiang Community, Xinhua Street
Guangming District, Shenzhen, China 518107
T: (+86) 755 8529 0710
E: Sales-Pacific@GENLEDBrands.com