

Date

Notes

RGB & RGBW ADDRESSABLE RIBBONLYTE

Acolyte's RGB & RGBW Addressable RibbonLyte allows you to create completely customized patterns of light that are only limited by imagination. Every 4" of LEDs can be individually controlled to create moving effects, patterns, chases, and more. When paired with a DMX control system, you can change your color as often or as little as you wish to create an unforgettable setting.

- 6 LEDs per pixel
- 18 LEDs per foot
- Pixel length is 3.94 inches (100 mm)
- Max Run Length 16' 5" (5 m) but longer sections can be created with lead wire to additional pieces
- 120° viewing angle
- Controlled by DMX512
- Power Consumption:
 - RGB: 3.7 W/ft (12.1 W/m) RGBW: 5.4W/ft (17.7 W/m)
- IP67 Rating
- 24 Volt input

Applications:

Commercial Entertainment Healthcare Hospitality Museums Public Spaces Residential

Retail





ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage + Color	
RB	0			
RB - RIBBONLYTE	0 - COLOR CHANGING	RGBADD - ADDRESSABLE RGB IP67	3.7RGB - 3.7 RGB ADDRESSABLE	
		RGBWADD - ADDRESSABLE RGBW IP67	5.4RGBW30 - 5.4 RGBW ADDRESSABLE 3000K	

5.4RGBW30 - 5.4 RGBW ADDRESSABLE 3000K
 5.4RGBW40 - 5.4 RGBW ADDRESSABLE 4000K
 5.4RGBW60 - 5.4 RGBW ADDRESSABLE 6000K

AVAILABLE COLORS



CONNECTION OPTIONS

See wiring diagram on page 5.



SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

RGBW 20.3 lm/ft (66.5 lm/m) 51.3 lm/ft (168.3 lm/m) 10.8 lm/ft (35.4 lm/m) 51.3 lm/ft (168.3 lm/m) 167.4 lm/ft (54.9 lm/m) LED Beam Angle 120°			RGB & RG	BW ADDRESSABLE RIB	BONLYTE	
Current (mA) - 24V IS4 mA/rtt (J25 mA/rtt (J78 mA/m) LED Pitch IS4 mA/rtt (J78 mA/m) Protection Rating IPG7 Dimming/Control DMX Ambient Temperature OMX Storage Temperature Colors/Color Temperatures OMX GBB Main Minite Gas Mark (GB 4000K), RGBV (GB 4000K), RGBV (GB 400K), RGBV (GB 4	Operating Voltage	24 V				
LED Pitch 18 LEDs/ft (60 LEDs/m) Protection Rating IP67 Dimming/Control DMX Ambient Temperature DMX Colors/Color Temperature Colors/Color Temperatures M Mite All RGB Red Green Blue White All RGBW 20.3 Im/ft (60.7 Im/m) 45.6 Im/ft (150 Im/m) II.1 Im/ft (36.4 Im/m) N/A BGBW 20.3 Im/ft (66.5 Im/m) 3.13 Im/ft (168.3 Im/m) IS.1 Im/ft (68.3 Im/m) IS.2 Im/ft (68.3 Im/m) LED Beam Angle Constant Voltage V Max Run Length Colspan="2">Colspan="2">Colspan="2">Colspan= Colspan="2">Colspan= Colspan="2">Colspan= Colspan="2"	Power Consumption		RGB: 3.7 W/ft	12.1 W/m / RGBW: 5.4W	//ft (17.7 W/m)	
Protection Rating IP67 Dimming/Control IP67 Dimming/Control DMX Ambient Temperature DMX Storage Temperature DMX Colors/Color Temperatures GER RGBW (RGB+300°C) Colors/Color Temperatures RGB, RGBW (RGB+300°C), RGBW (RGB+6000K), RGBW (RGB+600K), RGBW (RGB+60K), RGBW (RG	Current (mA) - 24V	154 mA/ft (506 mA/m) / 225 mA/ft (738 mA/m)				
Dimming/Control Dimming/Control Ambient Temperature	LED Pitch	18 LEDs/ft (60 LEDs/m)				
Ambient Temperature -4° F to 113° F (-20° C to 45° C) Storage Temperature -4° F to 176° F (-40° C to 5° C) Colors/Color Temperatures CBB, RGBW (RGB+300K), RGBW (RGB+600K), RGBV (RGB+60K), RGBV (RGB+	Protection Rating			IP67		
Storage Temperature -40° F to 176° F (-40° C to 80° C) Colors/Color Temperatures RGB, RGBW (RGB+300K), RGBW (RGB+6000K) Lumens Red Green Blue White All RGB 18.5 lm/ft (60.7 lm/m) 45.6 lm/ft (150 lm/m) 11.1 lm/ft (36.4 lm/m) N/A 89 lm/ft (29.14 lm/ RGBW 20.3 lm/ft (66.5 lm/m) 51.3 lm/ft (168.3 lm/m) 10.8 lm/ft (35.4 lm/m) 51.3 lm/ft (168.3 lm/m) 167.4 lm/ft (549.2 lm/m) LED Beam Angle	Dimming/Control			DMX		
Colors/Color Temperatures RGB RGB (Green Blue White All RGB 18.5 lm/ft (60.7 lm/m) 45.6 lm/ft (150 lm/m) 11.1 lm/ft (36.4 lm/m) N/A 89 lm/ft (291.4 lm/m) RGBW 20.3 lm/ft (66.5 lm/m) 51.3 lm/ft (168.3 lm/m) 10.8 lm/ft (35.4 lm/m) 51.3 lm/ft (168.3 lm/m) 167.4 lm/ft (54.9 lm/m) LED Beam Angle 20.3 lm/ft (66.5 lm/m) 51.3 lm/ft (168.3 lm/m) 10.8 lm/ft (35.4 lm/m) 51.3 lm/ft (168.3 lm/m) 167.4 lm/ft (54.9 lm/m) LED Beam Angle 20.3 lm/ft (66.5 lm/m) 51.3 lm/ft (168.3 lm/m) 10.8 lm/ft (35.4 lm/m) 51.3 lm/ft (168.3 lm/m) 167.4 lm/ft (54.9 lm/m) Lemp Life 20.3 lm/ft (66.5 lm/m) 51.3 lm/ft (168.3 lm/m) 10.8 lm/ft (35.4 lm/m) 51.3 lm/ft (168.3 lm/m) 167.4 lm/ft (54.9 lm/m) Cuttable Length - 24V 20.5 lm/ft (168.3 lm/m) 10.8 lm/ft (30.1 lm/m) 51.3 lm/ft (168.3 lm/m) 167.4 lm/ft (54.9 lm/m) Max Run Length 20.5 lm/ft (168.3 lm/m) 10.8 lm/ft (100 lm/m) 167.5 lm/ft (168.3 lm/m) <td< td=""><td>Ambient Temperature</td><td></td><td>-4°</td><td>F to 113° F (-20° C to 45</td><td>° C)</td><td></td></td<>	Ambient Temperature		-4°	F to 113° F (-20° C to 45	° C)	
Lumens Red Green Blue White All RGB 18.5 lm/ft (60.7 lm/m) 45.6 lm/ft (150 lm/m) 11.1 lm/ft (36.4 lm/m) N/A 89 lm/ft (291.4 lm/m) RGBW 20.3 lm/ft (66.5 lm/m) 51.3 lm/ft (168.3 lm/m) 10.8 lm/ft (35.4 lm/m) 51.3 lm/ft (168.3 lm/m) 10.8 lm/ft (35.4 lm/m) 167.4 lm/ft (54.9 lm/m) LED Beam Angle	Storage Temperature		-40°	F to 176° F (-40° C to 8	0° C)	
RGB 18.5 lm/ft (60.7 lm/m) 45.6 lm/ft (150 lm/m) 11.1 lm/ft (36.4 lm/m) N/A 89 lm/ft (291.4 lm/m) RGBW 20.3 lm/ft (66.5 lm/m) 51.3 lm/ft (168.3 lm/m) 10.8 lm/ft (35.4 lm/m) 51.3 lm/ft (168.3 lm/m) 67.4 lm/ft (54.9 lm/m) LED Beam Angle	Colors/Color Temperatures	RGB, RGBW (RGB+3000K), RGBW (RGB+4000K), RGBW (RGB+6000K)				
RGBW 20.3 lm/ft (66.5 lm/m) 51.3 lm/ft (168.3 lm/m) 10.8 lm/ft (35.4 lm/m) 51.3 lm/ft (168.3 lm/m) 167.4 lm/ft (54.9 lm/m) LED Beam Angle 120°	Lumens	Red	Green	Blue	White	All
LED Beam Angle120°Lamp Life50,000 HoursCuttable Length - 24V3.94 in (100 mm)Constant Voltage✓Max Run Length16' 5" (5 m)*Cable Length Attached to RibbonLyte19 in (48.26 cm)	RGB	18.5 lm/ft (60.7 lm/m)	45.6 lm/ft (150 lm/m)	11.1 lm/ft (36.4 lm/m)	N/A	89 lm/ft (291.4 lm/m)
Lamp Life50,000 HoursCuttable Length - 24V50,000 HoursConstant Voltage3.94 in (100 mm)Max Run Length✓Cable Length Attached to RibbonLyte16' 5" (5 m)*	RGBW	20.3 lm/ft (66.5 lm/m)	51.3 lm/ft (168.3 lm/m)	10.8 lm/ft (35.4 lm/m)	51.3 lm/ft (168.3 lm/m)	167.4 lm/ft (549.2 lm/m)
Cuttable Length - 24V 3.94 in (100 mm) Constant Voltage ✓ Max Run Length 16' 5" (5 m)* Cable Length Attached to RibbonLyte 19 in (48.26 cm)	LED Beam Angle			120°		
Constant VoltageMax Run LengthCable Length Attached to RibbonLyte19 in (48.26 cm)	Lamp Life			50,000 Hours		
Max Run Length 16' 5" (5 m)* Cable Length Attached to RibbonLyte 19 in (48.26 cm)	Cuttable Length - 24V			3.94 in (100 mm)		
Cable Length Attached to RibbonLyte 19 in (48.26 cm)	Constant Voltage			\checkmark		
	Max Run Length			16' 5" (5 m)*		
	Cable Length Attached to RibbonLyte			19 in (48.26 cm)		
Certifications ETL, CE	Certifications			ETL, CE		
Max Linear Run on Single DMX Universe (RGB) 56' 10" (17.3 m)	Max Linear Run on Single DMX Universe (RGB)			56' 10" (17.3 m)		
Max Linear Run on Single DMX Universe (RGBW) 42' 8" (13 m)	Max Linear Run on Single DMX Universe (RGBW)			42' 8" (13 m)		

RibbonLyte Top View	Side View	Dimensions
		Width 0.65 in (16.5 mm) Height 0.28 in (7.0 mm)

USAGE GUIDELINES

- IP65 and IP68 RibbonLyte are not field cuttable. All custom cuts and connections for these models must be performed at the factory to ensure waterproofing standards are met. Any modification of this on the field or by end user will result in a voided warranty.
- 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 IP65 can be used in wet, outdoor locations around swimming 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 our RibbonLyte Proper Use Guide in our Application Guide for more information. Available for download at www.GENLEDBrands.com/Acolyte.
- · 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 Triac, MLV or ELV drivers is not supported or warrantied.
- Due to the nature of the product, RibbonLyte 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.



CONNECTORS AND ACCESSORIES



DMX Opto Splitter Part Number: DMXOS8

- 8 DMX output terminals for 1 DMX input



2 Conductor Female Connector to bare wire 3 Pin Female XLR Connector to bare wire Part Number: RBADDJUMP

- 5.9" (15cm) 18 AWG
- One per run of RibbonLyte
 Connects T-connector to bare wire
- for driver
- Sold by the foot





- 11.8" (30cm) 20 AWG
- One per run of ribbonlyte
- Connects RibbonLyte to extension cable
- Sold by the foot



Quadcore Part Number: QCSSC

- 4-universe solid-state architectural lighting controller
- Record from an external
- DMX source - Program show-control automation



Part Number: DMXCBL3FB 11.8" (30cm) - 18 AWG One per run of ribbonlyte
Connects T-connector to bare wire for DMX - Sold by the foot



2+4 Conductor Male Connector to bare wire Part Number: RBADDJUMPMB

11.8" (30cm) - 20 AWG

- One per run of ribbonlyte
- Connects T-connector to
- extension cable - Sold by the foot



DMX Address Writer

Part Number: DMXAWR - Assign the starting address on independent runs



5-pin Male XLR Connector to bare wire Part Number: DMXCBL5MB

11.8" (30cm) - 18 AWG

One per run of ribbonlyteConnects Quadcore to bare wire

- for Opto Splitter
- Sold by the foot



B Station Part Number: RBADDBSTN

- Remote controls any function within the Quadcore
- Ethernet port
- Programming via web-interface - Wall-mount



T-Connector Part Number: RBADDTCONNECT



CHANNEL COMPATIBILITY / CHANNEL OPTIONS

CHANNEL	IP68
AC1	
AC2	
AC3	
AC4	~
AC5	\checkmark
AC14	
AP1	
AR1	
AR2	
AR3 AR5	~
AR8	
AR10	
AR14	
AR16	
AR20	
AR23	
AR25	\checkmark
AR30	~
AR33	\checkmark
AS1	
AS2	
AS3	\checkmark
AS6	~
AS10	
AS12	
AS13	\checkmark
AS14 AS16	
AS20G	
AS23	
AS28	~
AS30	<u> </u>
AS53	~
AT4	
AT5	
AT11	
AW10	
AW12	
AW14	
AW35	\checkmark
AW38	\checkmark
AW40	
B1 B2	
62 C22	
GL1	Ť
GL2	
ROUND	
ROUND12	
ROUND20	
SC1	~
SC2	\checkmark
SC3	
SC4	\checkmark
SC5	\checkmark
SC6	
SC-CORNER1	
SC-CORNER2	
ST10	
W31	✓ ✓
WH35	V

SURFACE MOUN	TED CHANNELS				
LENS OPTIONS:	C - Clear F - Fros RM - Round Milky	ted K - Black SM - Square Mill		Narrow Prismatic	WP - Wide Prismatic
AC4 C, F, M	AC5 C, F, M	AS3 C, F, M	AS6 C, F, M	AS13 RM, SM	AS28 M, NP, WP
AS30 M, RM, SM	AS53 M, NP, WP	AW35 C, F, M	AW38 M, RM, SM	C22 C, F, M	WH35 С, 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
 SM

AR33

M, NP, WP

W31

C, F, M

SC1

Μ



C, F, M

SC2

М



SC4 M, RM, SM

M, RM, SM



AR30

M, RM, SM

M, RM, SM

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.

Acolyte | Architectural Lighting Solutions

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WIRING DIAGRAMS

RGB & RGBW ADDRESSABLE RIBBONLYTE

Each Opto Splitter is connected to single DMX universe on the Quado and is used to put multiple section RibbonLyte on a single universe	ore
DMXOS8 = 5 Pin Male XLR Co to bare wire	onnector 9-12V DC Input Power Supply Included
Acolyte Part Num 11.8" (30cm) - 18 A	ber: DMXCBL5MB
3 Conductor Cable (Not supplied by Recommended: Belden 9729 Or can connect the DMXCBL3FB directly to DMXOS8	Acolyte)
DMX IN 3 Pin Female XLR Connector to bare wire Acolyte Part Number: DMXCBL3FB 11.8" (30cm) - 18 AWG	DMX IN 3 Pin Male XLR Connector T-CONNECTOR 24V DC IN 24V DC IN 24V DC IN 2 Conductor Male Connector Male Pin 24V DC IN 2 Conductor Male Connector Male Pin 2 Conductor Female Connector 5.9" (15cm) - 18 AWG
24V SPI Signal To RibbonLyte 2+4 Conductor Male Connector to bare wire Acolyte Part Number: RBADDJUMPI 11.8" (30cm) - 20 AWG	24V SPI Signal Out 2+4 Conductor Female Connector
100' + 6 Conductor 10-12 AWG Cable (Not supplied by Acolyte)	OPTIONAL: For short distances between T-Connector and RibbonLyte, these connectors can be directly connected 24V Addressable RibbonLyte
24V SPI Signal To RibbonLyte 2+4 Conductor Female Connector to bare wire Acolyte Part Number: RBADDJUMPFB	120V AC INPUT 24V SPI Signal To RibbonLyte 2+4 Conductor Male Connector Male Pin Included on all ribbonlyte segments

11.8" (30cm) - 20 AWG