RGB & RGB ADDRESSABLE RIBBONLYTE

GENLED 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
- Hospitality
- Residential
- Entertainment
- Museums
- Retail
- Healthcare
- Public Spaces

ORDERING GUIDE

<table>
<thead>
<tr>
<th>Category</th>
<th>CRI</th>
<th>Ribbon Type &amp; IP Rating</th>
<th>Wattage + Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>RB</td>
<td>RB</td>
<td>RGBADD - ADDRESSABLE RGB IP67</td>
<td>3.7RGB - 3.7 RGB ADDRESSABLE</td>
</tr>
<tr>
<td>RB - RIBBONLYTE</td>
<td>0 - COLOR CHANGING</td>
<td>RGBWADD - ADDRESSABLE RGBW IP67</td>
<td>5.4RGBW30 - 5.4 RGBW ADDRESSABLE 3000K</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>5.4RGBW40 - 5.4 RGBW ADDRESSABLE 4000K</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5.4RGBW60 - 5.4 RGBW ADDRESSABLE 6000K</td>
</tr>
</tbody>
</table>

Available Colors:
- RGB
- RGBW30
- RGBW60

Connection Options:

See wiring diagram on page 5.
### SPECIFICATIONS / DIAGRAM / USAGE GUIDELINES

**RGB & RGBW ADDRESSABLE RIBBONLYTE**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Operating Voltage</strong></td>
<td>24 V</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>RGB: 3.7 W/ft (12.1 W/m) / RGBW: 5.4W/ft (17.7 W/m)</td>
</tr>
<tr>
<td><strong>Current (mA) - 24V</strong></td>
<td>154 mA/ft (506 mA/m) / 225 mA/ft (738 mA/m)</td>
</tr>
<tr>
<td><strong>LED Pitch</strong></td>
<td>18 LEDs/ft (60 LEDs/m)</td>
</tr>
<tr>
<td><strong>Protection Rating</strong></td>
<td>IP67</td>
</tr>
<tr>
<td><strong>Dimming/Control</strong></td>
<td>DMX</td>
</tr>
<tr>
<td><strong>Ambient Temperature</strong></td>
<td>-4° F to 113° F (-20° C to 45° C)</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-40° F to 176° F (-40° C to 80° C)</td>
</tr>
<tr>
<td><strong>Colors/Color Temperatures</strong></td>
<td>RGB, RGBW (RGB+3000K), RGBW (RGB+4000K), RGBW (RGB+6000K)</td>
</tr>
<tr>
<td><strong>Lumens</strong></td>
<td>Red: 18.5 lm/ft (60.7 lm/m)</td>
</tr>
<tr>
<td></td>
<td>Green: 45.6 lm/ft (150 lm/m)</td>
</tr>
<tr>
<td></td>
<td>Blue: 11.1 lm/ft (36.4 lm/m)</td>
</tr>
<tr>
<td></td>
<td>White: N/A</td>
</tr>
<tr>
<td></td>
<td>All: 89 lm/ft (291.4 lm/m)</td>
</tr>
<tr>
<td><strong>LED Beam Angle</strong></td>
<td>120°</td>
</tr>
<tr>
<td><strong>Lamp Life</strong></td>
<td>3,944 hours</td>
</tr>
<tr>
<td><strong>Cuttable Length - 24V</strong></td>
<td>3.94 in (100 mm)</td>
</tr>
<tr>
<td><strong>Constant Voltage</strong></td>
<td>Valid</td>
</tr>
<tr>
<td><strong>Max Run Length</strong></td>
<td>16’ 5” (5 m)*</td>
</tr>
<tr>
<td><strong>Cable Length Attached to RibbonLyte</strong></td>
<td>19 in (48.26 cm)</td>
</tr>
<tr>
<td><strong>Certifications</strong></td>
<td>ETL, CE</td>
</tr>
<tr>
<td><strong>Max Linear Run on Single DMX Universe (RGB)</strong></td>
<td>56’ 10” (17.3 m)</td>
</tr>
<tr>
<td><strong>Max Linear Run on Single DMX Universe (RGBW)</strong></td>
<td>42’ 8” (13 m)</td>
</tr>
</tbody>
</table>

#### USAGE GUIDELINES:

- 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 45° C / 113° 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/Home/Acolyte](http://www.GENLEDBrands.com/Home/Acolyte)
- Compatible with a wide variety of control products including the entire line of Lutron dimming systems.
- For use with [GENLED Acolyte®](http://www.GENLEDBrands.com/Home/Acolyte) drivers, 0-10V dimming modules and interface controllers (DMXINF models).
- Use with non-[GENLED Acolyte®](http://www.GENLEDBrands.com/Home/Acolyte) supplied Triac, MLV or ELV drivers is not supported or warranted.
- 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.

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CONNECTORS AND ACCESSORIES

DMX Opto Splitter
Part Number: DMXOS8
- 8 DMX output terminals for 1 DMX input

Quadcore
Part Number: QCSSC
- 4-universe solid-state architectural lighting controller
- Record from an external DMX source
- Program show-control automation

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

B Station
Part Number: RBADDSTN
- Remote controls any function within the Quadcore
- Ethernet port
- Programming via web-interface
- Wall-mount

2 Conductor Female 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

3 Pin Female XLR Connector to bare wire
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

5-pin Male XLR Connector to bare wire
Part Number: DMXCBL5MB
11.8” (30cm) - 18 AWG
- One per run of ribbonlyte
- Connects Quadcore to bare wire for Opto Splitter
- Sold by the foot

T-Connector
Part Number: RBADDTCONNECT

2+4 Conductor Female Connector to bare wire
Part Number: RBADDJUMPFB
11.8” (30cm) - 20 AWG
- One per run of ribbonlyte
- Connects RibbonLyte to extension cable
- 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
### CHANNEL COMPATIBILITY / CHANNEL OPTIONS

<table>
<thead>
<tr>
<th>RIBBONLYTE CHANNEL COMPATABILITY</th>
<th>SURFACE MOUNTED CHANNELS</th>
<th>RECESSED CHANNELS</th>
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<tbody>
<tr>
<td><strong>AC1</strong></td>
<td>AC4</td>
<td>AR3</td>
</tr>
<tr>
<td><strong>AC2</strong></td>
<td>AC5</td>
<td></td>
</tr>
<tr>
<td><strong>AC3</strong></td>
<td>AS1</td>
<td></td>
</tr>
<tr>
<td><strong>AC4</strong> ✓</td>
<td>AS2</td>
<td></td>
</tr>
<tr>
<td><strong>AC5</strong> ✓</td>
<td>AS3</td>
<td></td>
</tr>
<tr>
<td><strong>AP1</strong></td>
<td>AS6</td>
<td></td>
</tr>
<tr>
<td><strong>AR1</strong></td>
<td>AS20G</td>
<td></td>
</tr>
<tr>
<td><strong>AR2</strong></td>
<td>AT4</td>
<td></td>
</tr>
<tr>
<td><strong>AR3</strong> ✓</td>
<td>AT5</td>
<td></td>
</tr>
<tr>
<td><strong>AS1</strong></td>
<td>AW35</td>
<td></td>
</tr>
<tr>
<td><strong>AS2</strong></td>
<td>C22</td>
<td></td>
</tr>
<tr>
<td><strong>AS3</strong> ✓</td>
<td>GL1</td>
<td></td>
</tr>
<tr>
<td><strong>AS5</strong></td>
<td>GL2</td>
<td></td>
</tr>
<tr>
<td><strong>AS6</strong> ✓</td>
<td>ROUND</td>
<td></td>
</tr>
<tr>
<td><strong>AS6</strong> ✓</td>
<td>W31</td>
<td></td>
</tr>
<tr>
<td><strong>WH35</strong> ✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### LENS OPTIONS:
- **C** - Clear
- **F** - Frosted
- **M** - Milky

**Surface Mounted Channels**
- AC4: C, F, M
- AC5: C, F, M
- AS1: C, F, M
- AS2: C, F, M
- AS3: C, F, M
- AS6: C, F, M

**Recessed Channels**
- AR3: C, F, M
- W31: C, F, M

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**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 45°C/113°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.
Each Opto Splitter is connected to a single DMX universe on the Quadcore and is used to put multiple sections of RibbonLyte on a single universe.

12-24V DC Input

5 Pin Male XLR Connector to bare wire
Acolyte Part Number: DMXCBL5MB
11.8” (30cm) - 18 AWG

3 Conductor Cable (Not supplied by Acolyte)
Recommended: Belden 9729
Or can connect the DMXCBL3FB directly to DMXOS8

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
24V DC IN
2 Conductor Male Connector
Male Pin

Acolyte Part Number: RBADDJUMP
5.9” (15cm) - 18 AWG

OPTIONAL: For short distances between T-Connector and RibbonLyte, these connectors can be directly connected

24V SPI Signal To RibbonLyte
2+4 Conductor Male Connector to bare wire
Acolyte Part Number: RBADDJUMPMB
11.8” (30cm) - 20 AWG

24V SPI Signal To RibbonLyte
2+4 Conductor Female Connector to bare wire
Acolyte Part Number: RBADDJUMPFB
11.8” (30cm) - 20 AWG

Each Quadcore has 4 DMX universes. Each universe can control 56’ (17 m) of RGB or 42’ (12.8 m) of RGBW

9-12V DC Input
Power Supply Included

24V SPI Signal Out
2+4 Conductor Female Connector

24V Addressable RibbonLyte
Included on all ribbonlyte segments

100’ + 6 Conductor 10-12 AWG Cable (Not supplied by Acolyte)

4 Each Quadcore has 4 DMX universes. Each universe can control 56’ (17 m) of RGB or 42’ (12.8 m) of RGBW

120V AC INPUT

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