



### RGBW FLEXRAYZ NEON

FlexRayz Neon from AgiLight offers a versatile approach to border tube that eliminates light gaps. A side-bending LED neon that provides an excellent solution for linear façade lighting in curved or straight runs, RGBW FlexRayz lets you tune your light to any of 16 million custom colors. Rated IP67 for use in damp and wet locations. FlexRayz products are designed to bend; use Aluminum Mounting Channel for straight run applications.

#### Applications:

- Borders and edges in signs and facades
- Neon replacements
- Cove and Accent lighting

#### Features:

- Available in pre-assembled 2 ft (0.61 m) or 8 ft (2.44 m) lengths or sold in full reels of 16.4 ft (5 m)
- Full reels can be cut and finished with an end cap; new power feeds cannot be introduced in the field
- 5.5 W/ft (18.04 W/m), 24 VDC
- RGB+6500K (4000K, 5000K upon request)
- 3.28 in. (83.3 mm) cut lengths
- 110x250° beam angle
- Use Aluminum Mounting Channel for straight runs
- Use S-type Track or Aluminum Mounting Clips for curves
- UV protected; saltwater, solvent & flame resistant
- IP67 ; IK08 impact protection
- Consistent brightness with constant current design
- Minimum bend radius of 1 in. (25 mm)



### ORDERING GUIDE

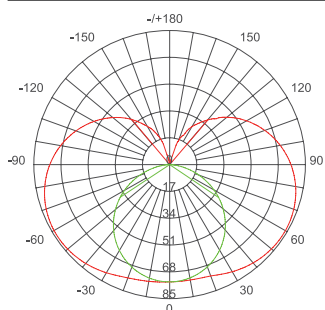
| Part Number         | Length            | Color     | Lumens                   |                      |                         |                       |                       |
|---------------------|-------------------|-----------|--------------------------|----------------------|-------------------------|-----------------------|-----------------------|
|                     |                   |           | All LEDs On              | Red                  | Green                   | Blue                  | White                 |
| LB-FRN-RGBW65-2-A   | 2 ft / 0.61 m     | RGB+6500K | 55 lm/ft<br>(180.4 lm/m) | 7 lm/ft<br>(23 lm/m) | 19 lm/ft<br>(62.3 lm/m) | 3 lm/ft<br>(9.8 lm/m) | 25 lm/ft<br>(82 lm/m) |
| LB-FRN-RGBW65-8-A   | 8 ft / 2.44 m     |           |                          |                      |                         |                       |                       |
| LB-FRN-RGBW65-16-A  | 16 ft 4 in. / 5 m |           |                          |                      |                         |                       |                       |
| LB-FRN-RGBW50-2-A*  | 2 ft / 0.61 m     | RGB+5000K | 55 lm/ft<br>(180.4 lm/m) | 7 lm/ft<br>(23 lm/m) | 19 lm/ft<br>(62.3 lm/m) | 3 lm/ft<br>(9.8 lm/m) | 25 lm/ft<br>(82 lm/m) |
| LB-FRN-RGBW50-8-A*  | 8 ft / 2.44 m     |           |                          |                      |                         |                       |                       |
| LB-FRN-RGBW50-16-A* | 16 ft 4 in. / 5 m |           |                          |                      |                         |                       |                       |
| LB-FRN-RGBW40-2-A*  | 2 ft / 0.61 m     | RGB+4000K | 55 lm/ft<br>(180.4 lm/m) | 7 lm/ft<br>(23 lm/m) | 19 lm/ft<br>(62.3 lm/m) | 3 lm/ft<br>(9.8 lm/m) | 25 lm/ft<br>(82 lm/m) |
| LB-FRN-RGBW40-8-A*  | 8 ft / 2.44 m     |           |                          |                      |                         |                       |                       |
| LB-FRN-RGBW40-16-A* | 16 ft 4 in. / 5 m |           |                          |                      |                         |                       |                       |

\* Special order only

### SPECIFICATIONS

|                          |                                                        |
|--------------------------|--------------------------------------------------------|
| Input Voltage            | 24 VDC                                                 |
| Power Consumption        | 5.5 W/ft (18.04 W/m)                                   |
| Color                    | RGB+6500K (special orders for RGB+5000K and RGB+4000K) |
| Cuttable Length          | 3.28 in. (83.3 mm)                                     |
| Max. Length              | 16.4 ft (5 m)                                          |
| Available Lengths        | 2 ft (0.61 m)<br>8 ft (2.44 m)<br>16.4 ft (5 m)        |
| Min. Bending Radius      | 1 in. (25 mm)                                          |
| Ingress Protection       | IP67                                                   |
| Impact Protection Rating | IK08                                                   |
| Lifetime (L70 reported)  | 50,000 hours @ 60 °C                                   |
| Warranty                 | 5-year limited warranty                                |

### LUMINOUS INTENSITY DISTRIBUTION

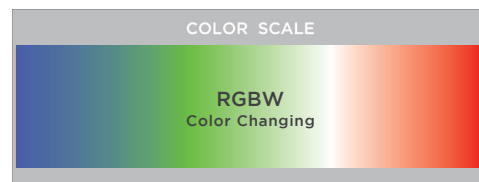


Average Beam Angle (50%): 182.2°

Unit: cd

— C0/180, 247.8°

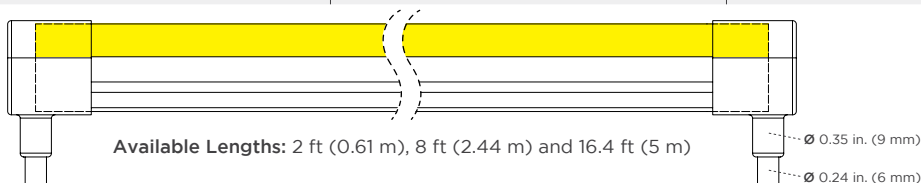
— C90/270, 116.5°





**DIMENSIONS**

|               | FlexRayz Neon                                   | Front Bottom Feed End Cap | Closing End Cap (part #: LB-FRN-CAP) |
|---------------|-------------------------------------------------|---------------------------|--------------------------------------|
|               |                                                 |                           |                                      |
| <b>Length</b> | 2 ft (0.61 m), 8 ft (2.44 m), and 16.4 ft (5 m) | 0.94 in. (24 mm)          | 0.94 in. (24 mm)                     |
| <b>Width</b>  | 0.55 in. (14 mm)                                | 0.55 in. (14 mm)          | 0.55 in. (14 mm)                     |
| <b>Height</b> | 1.06 in. (27 mm)                                | 1.54 in. (39 mm)          | 1.06 in. (27 mm)                     |



| RGBW FlexRayz Neon if cut |                     |      |                             |      |                    |      |
|---------------------------|---------------------|------|-----------------------------|------|--------------------|------|
| Standard Length (ft)      | Actual Light Length |      | Actual Length with End Caps |      | Channel Cut Length |      |
|                           | (ft)                | (m)  | (ft)                        | (m)  | (ft)               | (m)  |
| Single End Feed           |                     |      |                             |      |                    |      |
| 2                         | 1.91                | 0.58 | 1.99                        | 0.61 | 1.76               | 0.54 |
| 8                         | 7.93                | 2.42 | 8                           | 2.44 | 7.77               | 2.37 |
| 16                        | 15.85               | 4.83 | 15.93                       | 4.85 | 15.7               | 4.79 |
| Double End Feed           |                     |      |                             |      |                    |      |
| 2                         | 1.91                | 0.58 | 2.07                        | 0.63 | 1.76               | 0.54 |
| 8                         | 7.93                | 2.42 | 8.08                        | 2.46 | 7.77               | 2.37 |
| 16                        | 15.85               | 4.83 | 16                          | 4.88 | 15.7               | 4.79 |
| Minimum Bending Radius    |                     |      | Bending Direction           |      |                    |      |
|                           |                     |      |                             |      |                    |      |

**ACCESSORIES**

|                 | Closing End Cap    | Aluminum Mounting Clip for mounting in curved sections only | S-type Track for mounting in curved sections | Aluminum Channel for mounting in straight sections | 0.5 in. Standoff for mounting above facade surface |
|-----------------|--------------------|-------------------------------------------------------------|----------------------------------------------|----------------------------------------------------|----------------------------------------------------|
|                 |                    |                                                             |                                              |                                                    |                                                    |
| <b>Part No.</b> | LB-FRN-CAP         | LB-FRN-CLIPMNT                                              | LB-FRN-CRVMNT                                | LB-FRN-CHMNT-2M                                    | LB-FRN-STDOFF                                      |
| <b>Length</b>   | 0.63 in. (16 mm)   | 0.98 in. (25 mm)                                            | 19.7 in. (500 mm)                            | 78.7 in. (2000 mm)                                 | 0.38 in. (9.5 mm)                                  |
| <b>Width</b>    | 0.67 in. (17 mm)   | 0.6 in. (15.3 mm)                                           | 0.6 in. (15.3 mm)                            | 0.48 in. (12.3 mm)                                 | 0.38 in. (9.5 mm)                                  |
| <b>Height</b>   | 1.24 in. (31.5 mm) | 0.83 in. (21 mm)                                            | 0.83 in. (21 mm)                             | 0.67 in. (17 mm)                                   | 0.5 in. (12.7 mm)                                  |

**TO ATTACH END CAPS:** When sealing FlexRayz Neon end caps, use a neutral cure (non-acetoxo) silicone adhesive that is non-corrosive and safe for LEDs and electronic circuitry. **DO NOT** use acetoxo (acid-cure) silicone to seal end caps. Acetoxo silicone releases acetic acid that can damage LEDs and electronic components.



### POWER SUPPLY LOADING

| Product            | Power Supply (W) | Max. # of ft/m<br>in a continuous run | Total # of ft/m per power supply<br>NOT in a continuous run |
|--------------------|------------------|---------------------------------------|-------------------------------------------------------------|
| RGBW FlexRayz Neon | 60               | 9.8 / 3                               | 9.8 / 3                                                     |
|                    | 100              | 16.4 / 5                              | 16.4 / 5                                                    |
|                    | 300              | 3 outputs: 16.4 / 5 per output        | 49.1 / 15<br>(3 outputs: 16.4 / 5 per output)               |

### AVAILABLE POWER SUPPLIES



**30W 24V  
POWER SUPPLY**  
Part #: PS24-30W-GN  
Article #: 28000516A



**100W 24V  
POWER SUPPLY**  
Part #: PS24-100W-GN  
Article #: 28000513A



**60W 24V  
POWER SUPPLY**  
Part #: PS24-60W-GN  
Article #: 28000512A



**300W 24V  
POWER SUPPLY**  
Part #: PS24-300W-3-GN  
Article #: 28000514A

### AVAILABLE CONTROLS



**GLASS TOUCH  
WALL CONTROLLERS**  
Part #: AWCRGBWWBK



**5 ZONE  
WALL CONTROLLER**  
Part #: DMXCTRL



**10 ZONE  
WALL CONTROLLER**  
Part #: DMXCTRLD



**5 CHANNEL  
DMX DECODER**  
Part #: DMXINF5



**4 CHANNEL WATERPROOF  
DMX INTERFACE**  
Part #: DMXINFWLCD4



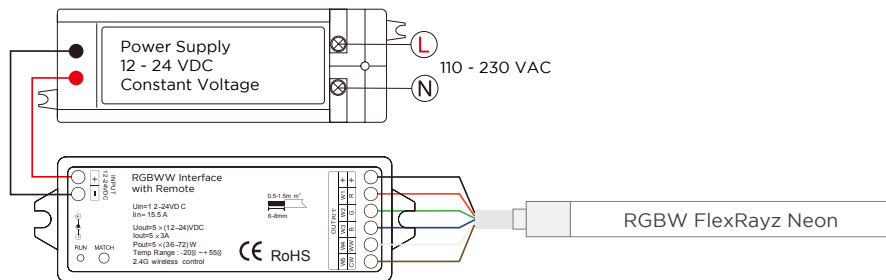
**4 ZONE RGBW  
RF REMOTE**  
Part #: RFREMOTERGBW4Z



**4 CHANNEL  
RF INTERFACE**  
Part #: RFINTERFACE4CH

## CONNECTIONS

### WIRELESS RF



#### WARNING

- DO NOT Install with power applied to device
- DO NOT expose the device to moisture



RGBWW Interface with Remote  
Part #: RFKIT5CH

## PROGRAMMING GUIDE

### Use the Match key

#### 1. Match:

Quickly press the Interface match key. Within 5 seconds, press the Remote On/Off key

#### 2. Delete:

Press the Interface match key for 5 seconds to delete any matched Remotes.

### Power-up

#### 1. To match:

Switch the power off, then on. Within 5 seconds, quickly press the On/Off key on the Remote 3 times. When the light blinks 3 times, the match is confirmed.

#### 2. To delete:

Switch the power off, then on. Within 5 seconds, quickly press the On/Off key on the Remote 5 times. When the light blinks 5 times, the match is deleted.

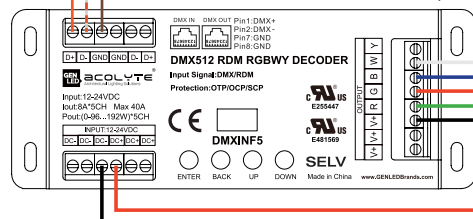
## DMX

### FLEXRAYZ NEON WIRE COLORS

- Black (+) Positive
- Red Wire (-) goes to Red Channel
- Green Wire (-) goes to Green Channel
- Blue Wire (-) goes to Blue Channel
- White Wire (-) goes to White Channel



### 5 Channel DMX Decoder (Part #: DMXINF5)



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