

## Ribbon X1 SuperBright RGB Pixel Strip

### Key Features



Single LED  
Row



Translucent  
Sheathing



Low  
Profile



Flexible  
Silicone Jacket



Full-color  
RGB pixels



Dust- and  
Waterproof



24 Month  
Warranty



### Introducing Ribbon X1

The **Ribbon X1** is a high quality RGB LED pixel strip designed for both interior and exterior areas. This flexible multi-color LED strip provides smooth and even lighting, featuring individual control of each LED sealed within a waterproof silicone jacket.

Powered by 12 Volts, a full 16 feet of strip can be powered from one end! Offered in different pixel spacings to meet your needs, this innovative product adds excitement to any surface!

The **Ribbon X1** is a versatile product that can be installed almost anywhere, due to its minimal size and flexibility. RGB **Ribbon X1** is easily controlled with any Vivid controller.



### Many Applications

- Special Effects
- Light Shows
- Signage
- Trade Shows
- Retail Interiors
- Concerts and Events
- Decorative Elements
- Architectural Accents
- Theater Production

### Further Reading

Visit us online for the most up-to-date product information:

[www.VividRGBLighting.com](http://www.VividRGBLighting.com)



## Ribbon X1 SuperBright RGB Pixel Strip

### Connectors

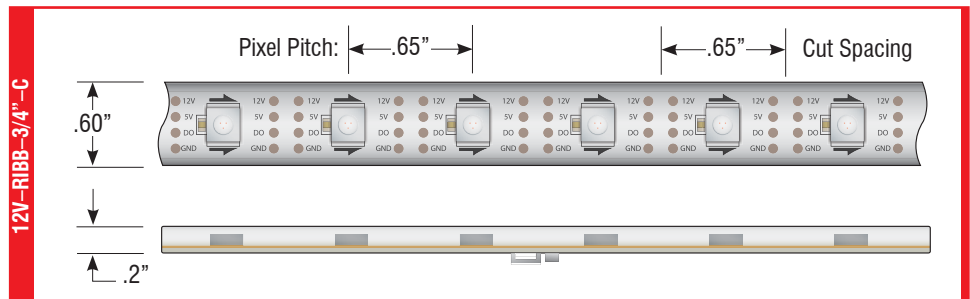
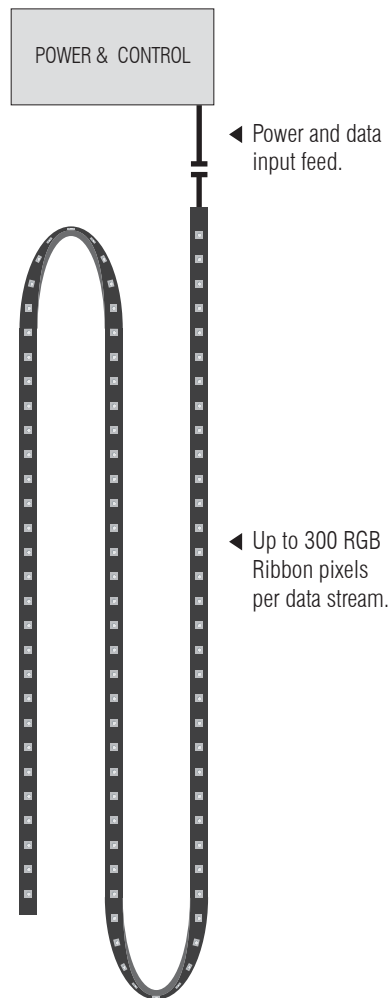
Several connector options available and are determined on a per project basis, please contact Vivid RGB Lighting to discuss.

### Standard Configuration Part Order No. RX1-60-5

Each strip consists of 300 individually-controllable LED pixels, with integrated power and control cable. A White PCB mounted in a silicone jacket with black input cable. Connectors and cables TBD per project.

RX1-60-5 requires power feed from both ends for full performance.

### System Overview



### Technical Specifications\*

OUTPUT	LUMEN MAINTENANCE	50,000+ hours
	LED CHANNELS	Red, Green, & Blue
	GRAYSACLE	256, 8-bit
ELECTRICAL	INPUT VOLTAGE	12V DC
	POWER	.3W / pixel
CONTROL	INTERFACE	1-Wire 1804 compatible
	CONTROL SYSTEM	Full range of controllers available or third-party controller
PHYSICAL	TEMPERATURE RANGES	0°C – 50°C / 32°F – 122°F
	HUMIDITY	Any
SAFETY	ENVIRONMENT	Dry & damp, water resistant; IP66

\*Due to continuous improvements and design innovations, specifications subject to change without notice.

### Build-to-Order Configurations

Minimum Order Quantity: 100 feet per configuration  
 Production Lead Time: 8 weeks after receipt of order

#### Custom options:

- Pixel count per strip, specific to your design
- Cable length and spacing
- Black or white circuit board, housings, and/or wire colors
- Other options upon request, call for more information



## Ribbon X1 SuperBright RGB Pixel Strip

### Typical Wiring Instructions

Input cables connect to controller & power supply and provide a common ground between them.

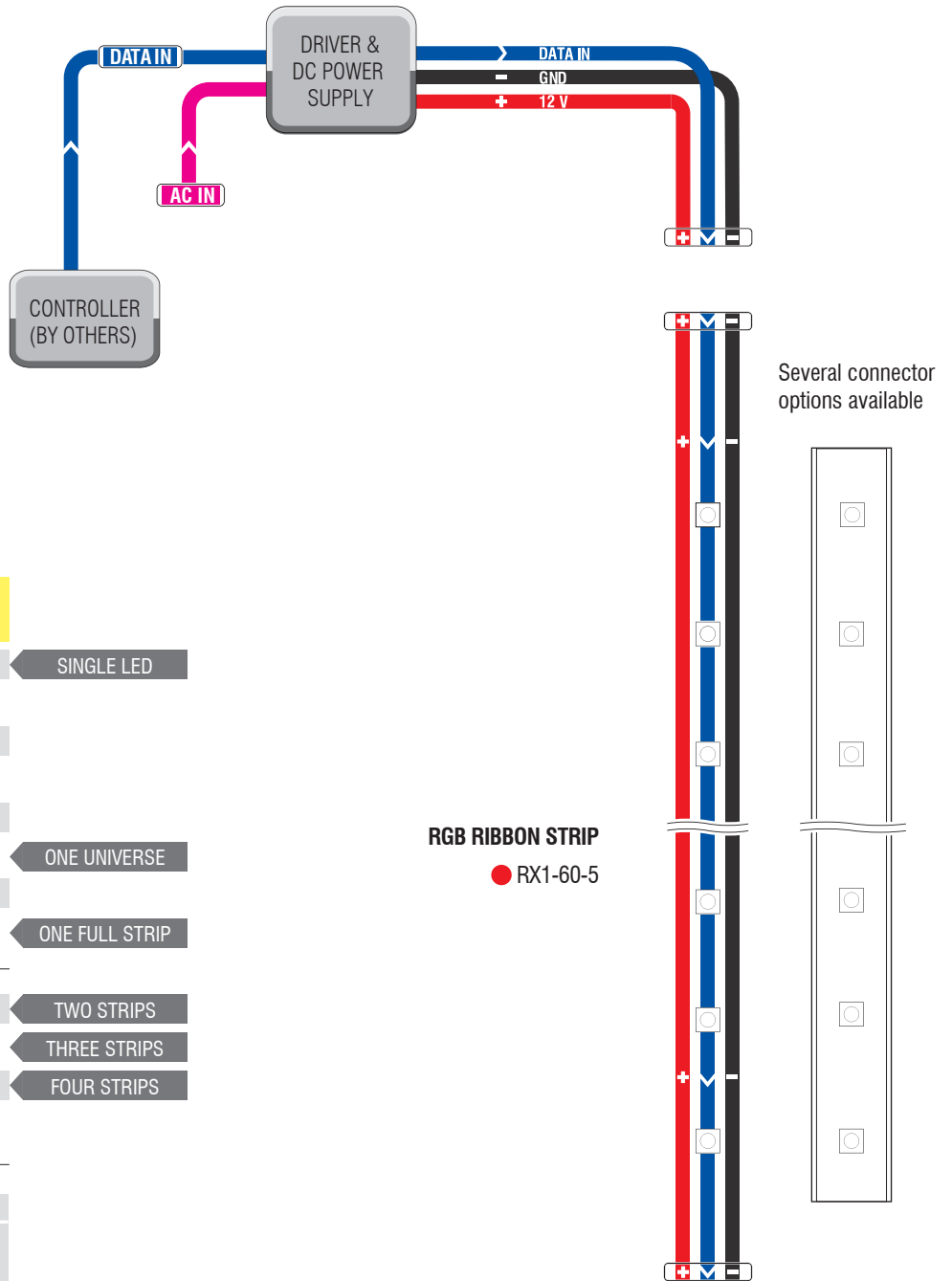
Extension cables extend distances between components.

End caps provide a waterproof termination at the end of each string.

### X1 Ribbon Strip Power

Use total watts to determine necessary power supply capacity.

Maximum power draw is .31 W per pixel at 12 V DC.



PIXELS	AMPS @ 12V	TOTAL WATTS	
1	.03 A	.31 W	← SINGLE LED
12	.31 A	3.75 W	
24	.63 A	7.50 W	
48	1.25 A	15 W	
96	2.50 A	30 W	
168	4.35 A	52 W	← ONE UNIVERSE
240	6.25 A	75 W	
300	7.95 A	95 W	← ONE FULL STRIP
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600	15.85 A	190.00 W	← TWO STRIPS
900	23.20 A	280.00 W	← THREE STRIPS
1,200	31.25 A	375.00 W	← FOUR STRIPS

#### NOTES

Figures in this chart allow for 5% headroom.  
Typical per-pixel wattage is .30 W.

#### IMPORTANT

Keep the power supply as close as possible to the strings to minimize voltage drop. Excessive voltage drop will cause color shift and/or intermittent operation.

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