VIVID RGB LIGHTING

Key Features

Triple LED Rows

Translucent Sheathing

.17in 4.3mm **Low Profile**

Flexible Silicone Jacket

Full-color RGB pixels

IP66 **Dust- and Waterproof**

24 **24 Month Warranty**

Many Applications

• Special Effects
• Light Shows
• Signage
• Trade Shows
• Retail Interiors
• Concerts and Events
• Decorative Elements
• Architectural Accents

Further Reading

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

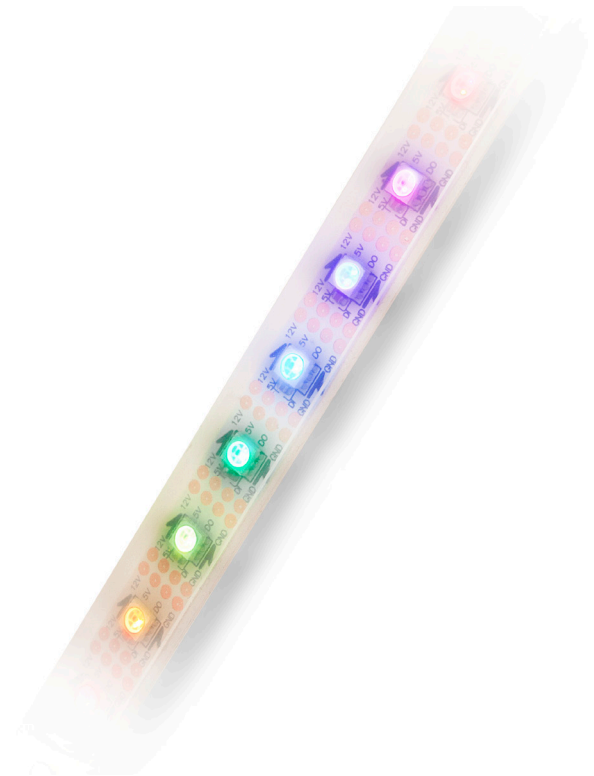**www.VividRGBlighting.com**

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 indivitual 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.

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Ribbon X1 SuperBright RGB Pixel Strip

Connectors

TBD

System Overview

POWER & CONTROL

◄ Power and data input feed.
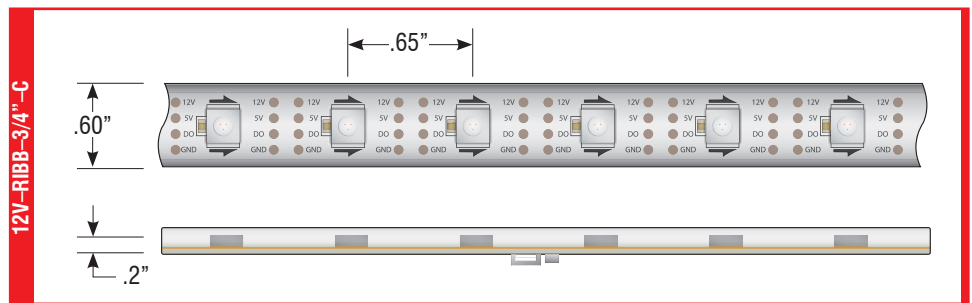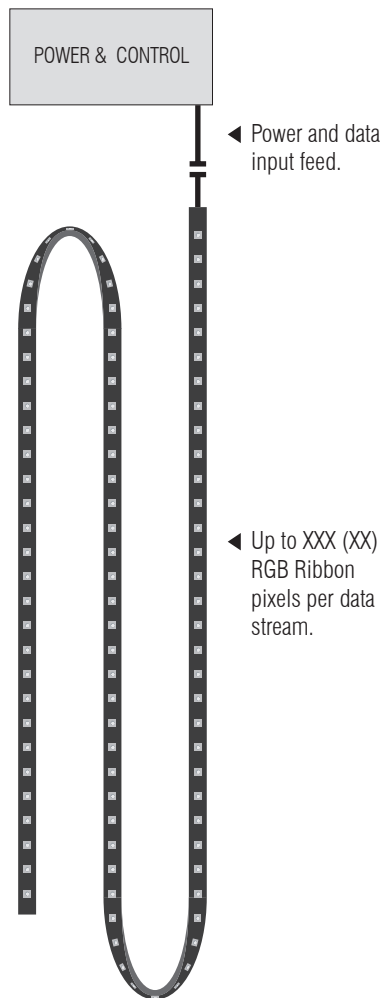
◄ Up to XXX (XX) RGB Ribbon pixels per data stream.

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.

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

Technical Specifications*

OUTPUT	LUMEN MAINTENANCE	50,000+ hours
	LED CHANNELS	Red, Green, & Blue
	GRAYSCALE	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	0ºC – 50ºC / 32ºF – 122ºF
	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: 25 meters 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

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.

RX3 Ribbon Strip Power

Use total watts to determine necessary power supply capacity.

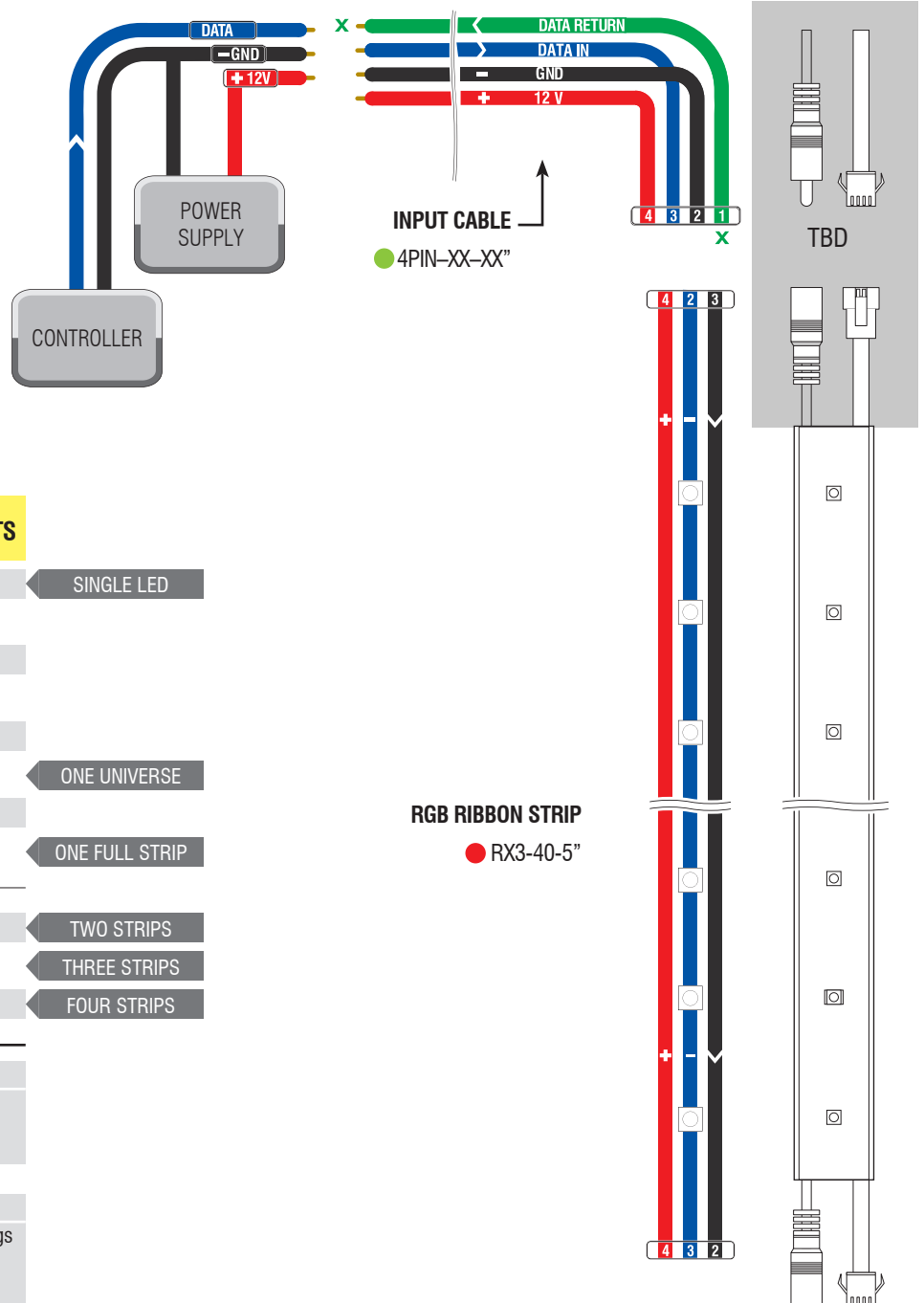Maximum power draw is 1.25 W per pixel at 12 V DC.

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
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 **1.19 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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DATA
GND
+ 12V

POWER SUPPLY

CONTROLLER

DATA RETURN
DATA IN
GND
12 V

INPUT CABLE
● 4PIN–XX–XX"

TBD

RGB RIBBON STRIP
● RX3-40-5"