

## BATON Rigid RGB Pixel Strip

### Key Features



Wide Viewing  
Angle



Thin  
Housing



Rigid Bar  
Housing



Encased  
Electronics



Full-color  
RGB pixels



Dust- and  
Waterproof



24 Month  
Warranty



RoHS Certified and Built  
to CE, UL, ETL Standards

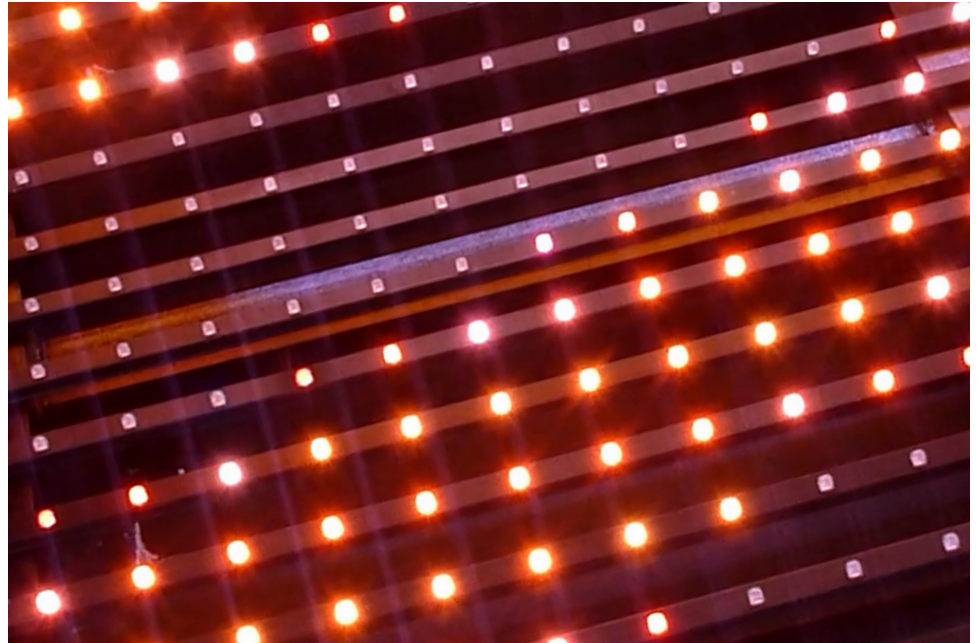
### Many Applications

- Light Shows
- Signage
- Trade Shows
- Retail Interiors
- Concerts and Events
- Decorative Elements
- Architectural Accents
- High Brightness Video Installations

### Further Reading

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

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



### Introducing BATON

The Baton from Vivid RGB Lighting is a solid performer. The 16 RGB LED Pixels stand proud on this rigid bar offering exceptional wide angle viewing. Utilizing a thin lightweight aluminum extrusion combined with a unique mounting clip, large arrays have more open area, reducing wind loads and have an excellent visual look.

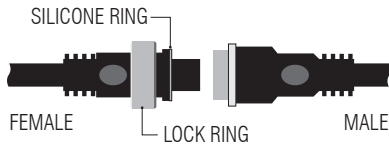
Each baton is internally sealed and perfect for permanent outdoor projects. Custom lengths, LED spacing and fixture color options create a truly powerful fixture ready to meet the needs of your next project.



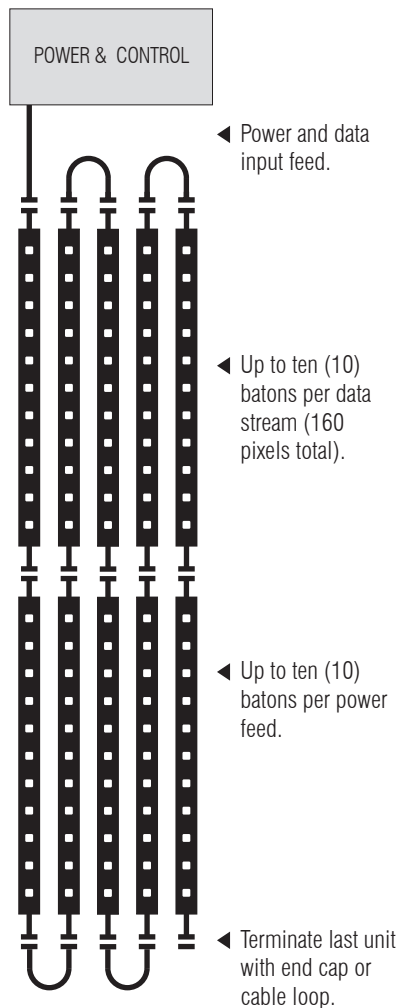
## BATON Rigid RGB Pixel Strip

### Connectors

4-pin keyed aviation-style connector with weathertight lock ring.



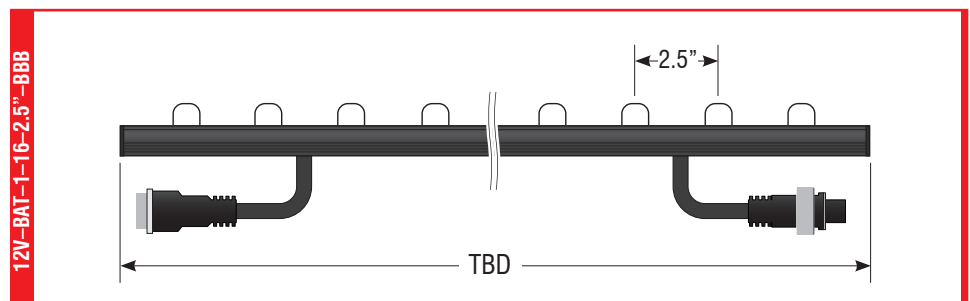
### System Overview



### Standard Configuration Part Order No. BAT-1-16-2.5"-BBB

Each aluminum encased Baton contains 16 individually controlled LEDs pixels, with waterproofed integrated circuits for power and control. The housings are black with black wire and black connectors.

4-PIN connectors on the input and output cables.



### Technical Specifications\*

OUTPUT	LUMEN MAINTENANCE	50,000+ hours
	LED CHANNELS	Red, Green, & Blue
	GRAYSCALE	256, 8-bit
ELECTRICAL	INPUT VOLTAGE	12V DC
	POWER	.25W / pixel, 4W per bar
CONTROL	INTERFACE	1-Wire IIC
	CONTROL SYSTEM	VPD, Color Mimic, or compatible third-party DMX controller
PHYSICAL	TEMPERATURE RANGES	-20°C – 50°C / -4°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: 10 batons per configuration  
 Production Lead Time: 8 weeks after receipt of order

Custom options available for:

- Pixel count per bar, specific to your design.
- Cable length and spacing.
- Black or white housings and/or wire colors - other upon request.
- 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.

### BATON Bar Power

Use total watts to determine necessary power supply capacity.

Maximum power draw is 4.00 W per bar at 12 V DC.

BARS	AMPS @ 12V	TOTAL WATTS	
1	.35 A	4.00 W	← SINGLE BAR
2	.70 A	8.00 W	
3	1.00 A	12.00 W	
4	1.35 A	16.00 W	
5	1.70 A	20.00 W	
6	2.00 A	24.00 W	
7	2.35 A	28.00 W	
8	2.70 A	32.00 W	
9	3.00 A	36.00 W	
10	3.35 A	40.00 W	← ONE UNIVERSE
<hr/>			
20	6.70 A	80.00 W	← TWO UNIVERSES

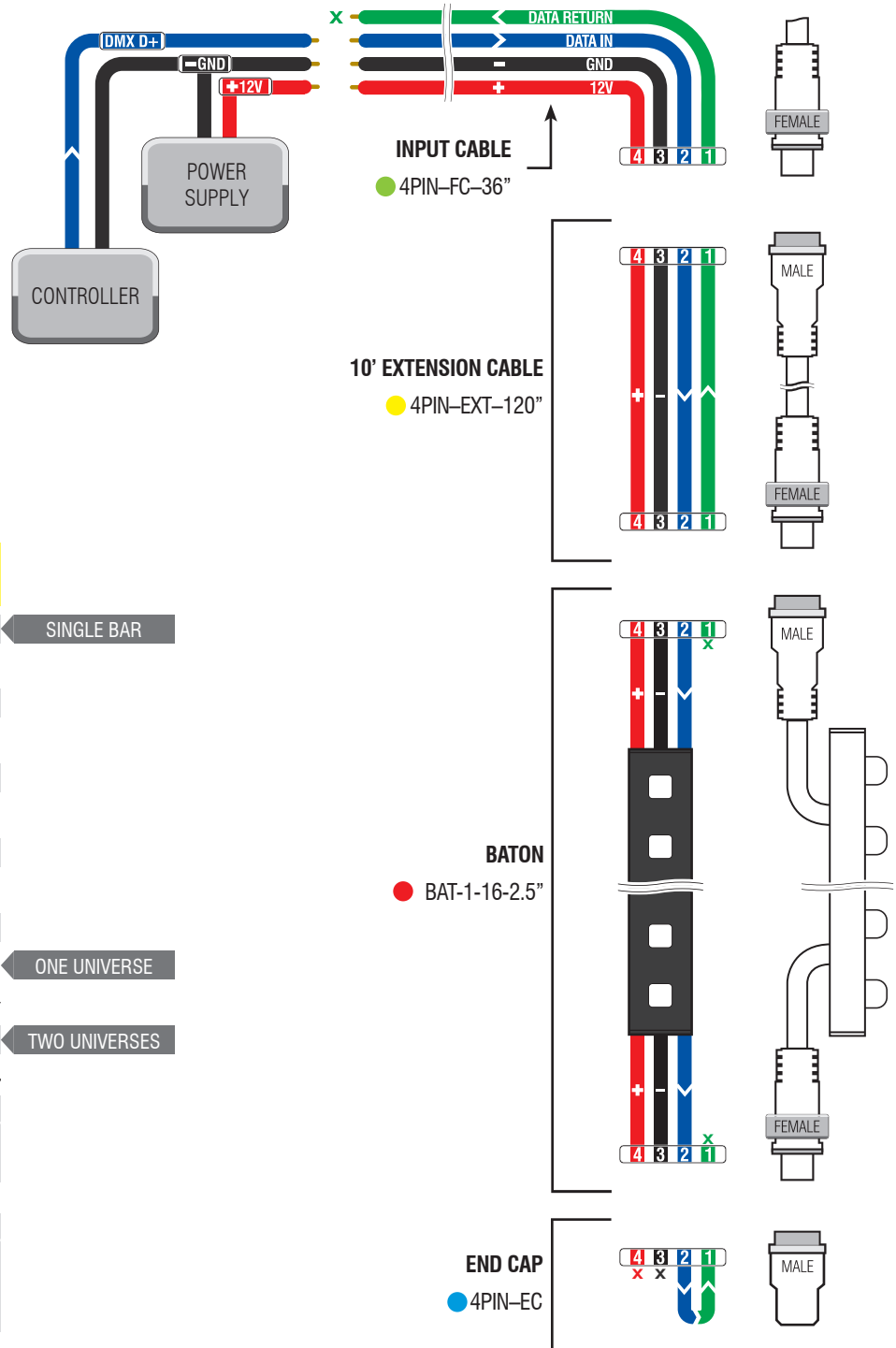
### NOTES

Figures in this chart allow for 5% headroom.  
 Typical per-pixel wattage is 0.25 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 return feature is not available for BATON



## BATON Rigid RGB Pixel Strip

### System Accessories & Part Numbers

#### System Input Cable

Bare ends connect to controller and power, female end connects to strings.

Stock:

**4PIN-FC-[Length]"**

Custom lengths available.

#### System Output Cable

Male end connects to end of strings, bare ends provide data and power output from system.

Stock:

**4PIN-MC-[Length]"**

Custom lengths available.

#### Extension Cables

Through extension of all pins.

Stock:

**4PIN-EXT-[Length]"**

**4PIN-EXT-120"**

**4PIN-EXT-300"**

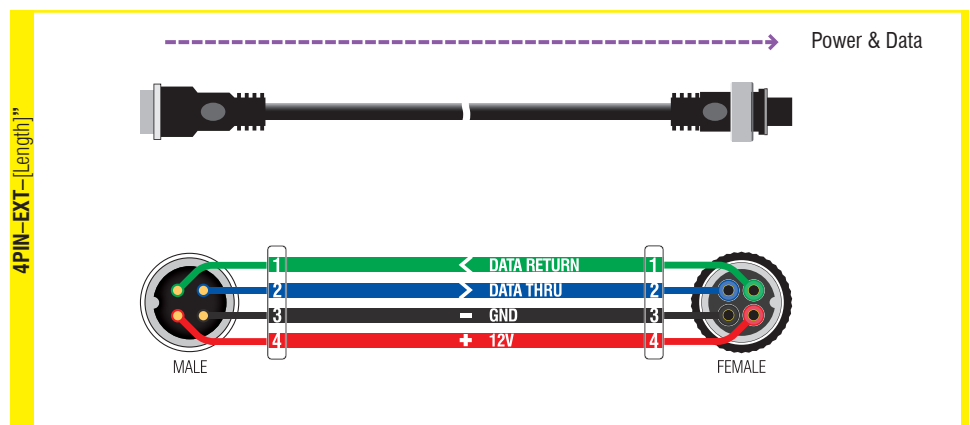
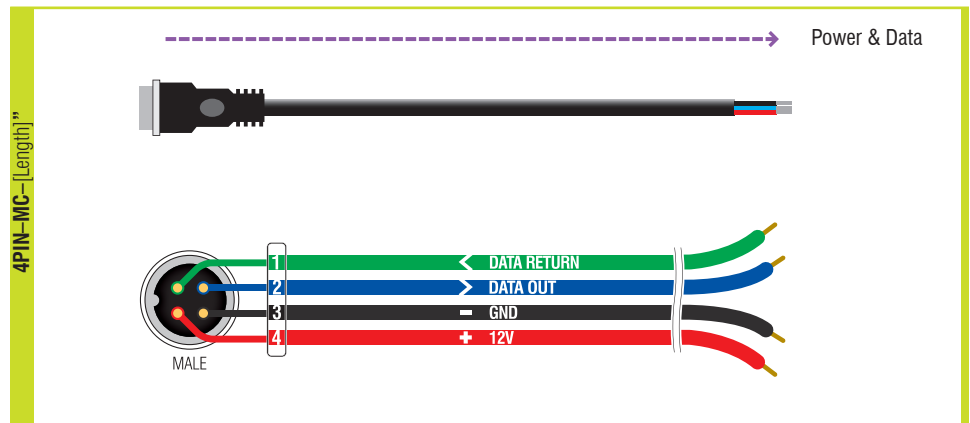
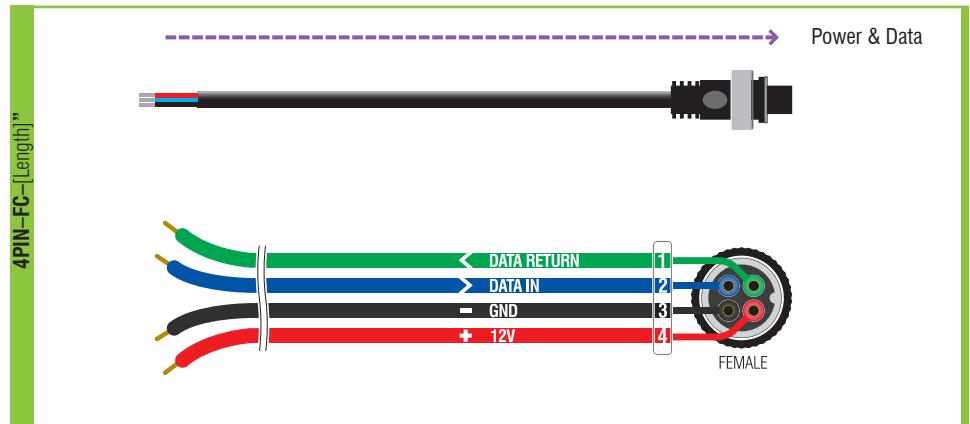
That's 5, 10 & 25 Feet.

Custom lengths available.

#### NOTE

Numbers refer to labeled pins in connectors.

**BATON** is a **12-Volt** system, compatible with **4-pin** accessory cables and products. Please contact customer support with product compatibility concerns.



## BATON Rigid RGB Pixel Strip

### End Caps

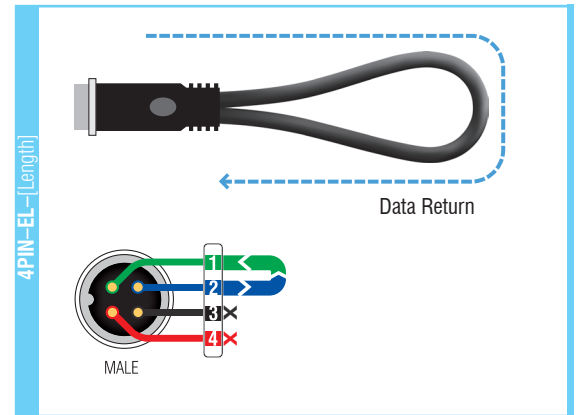
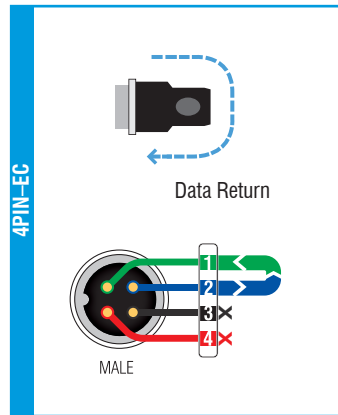
Seals cable end with a water tight termination and returns data stream to beginning of string.  
Available in simple cap or cable loop for easy hanging.

Stock:

4PIN-EC

4PIN-EL-5"

Custom loop lengths available.



### V-Cables

Allows strings to be used in parallel on the same power and data stream.

Stock:

4PIN-VC-9"

4PIN-VC-18"

4PIN-VC-60"

Custom lengths available.

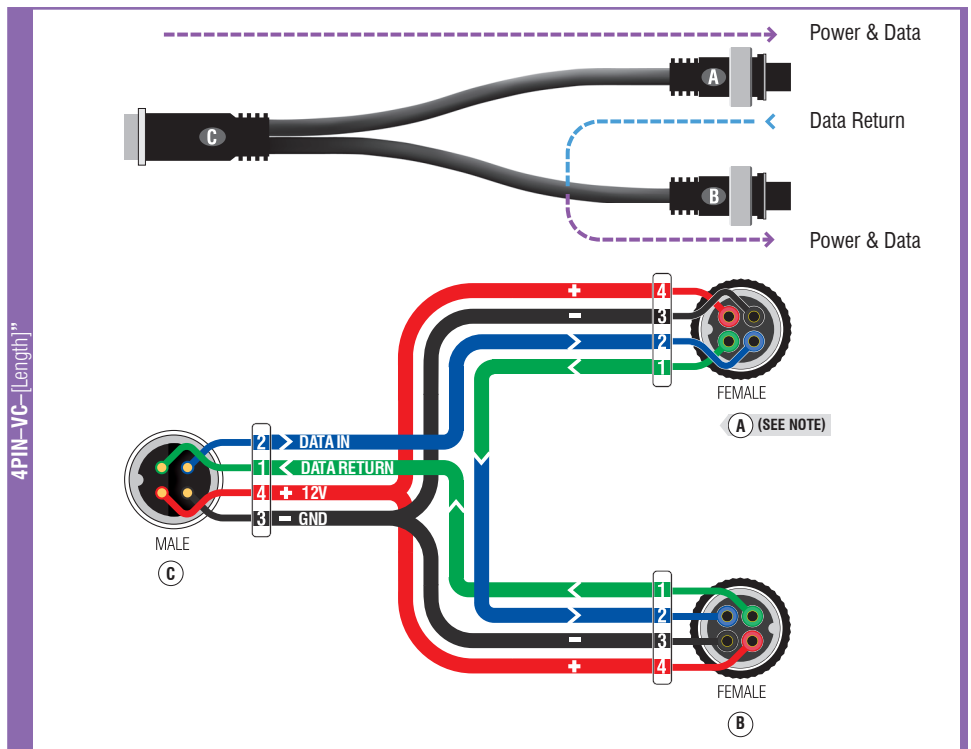
**A:** Output to first string sequence (SEE NOTE)

**B:** Output to second string sequence

**C:** Power and data input

#### NOTE

The last string of the **A** output of the V-Cable *must* have an end cap (4PIN-EC or 4PIN-EL) installed for data to return to the **B** output. If the strings attached to **A** are disconnected, data will not return and be sent to **B**.



### Custom / Build-to-Order

All cables and accessories may be custom designed for your project.

### Important Note

Our systems use 3-, 4-, and 6-PIN connectors for different control data and power voltages. **Please do not interconnect.**



## BATON Rigid RGB Pixel Strip

### Mid-Feed Power Input

Allows for power to be input between strings on same data stream.

Stock:

4PIN-MF-9"

4PIN-MF-12"

Custom lengths available.

X: Data input from previous string

Y: Additional power input

Z: Power and data output to next string(s)

