

BATON Rigid RGB Pixel Bar

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

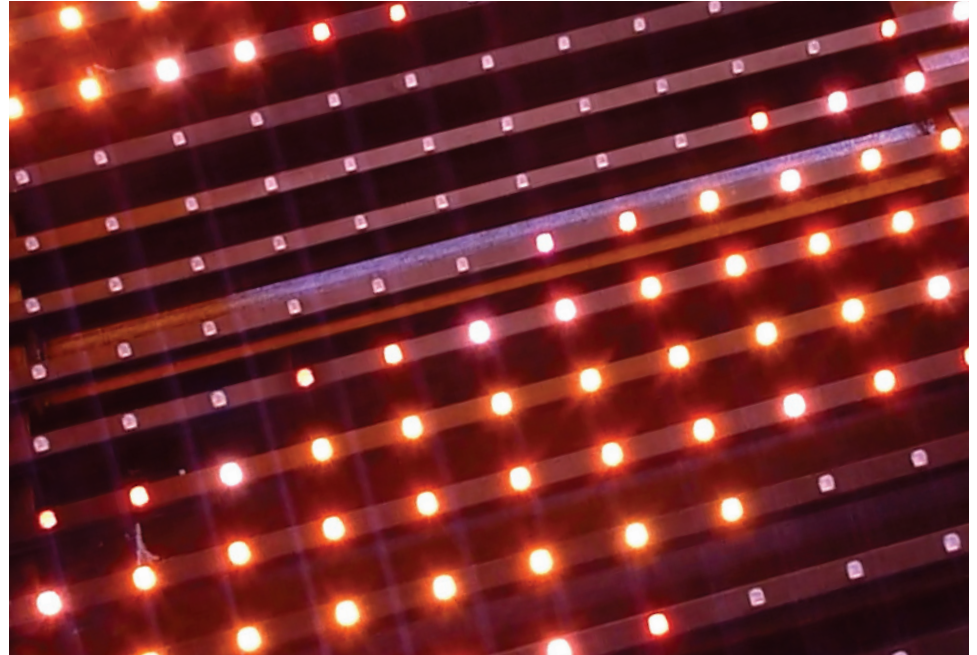
Many Applications

- Light Shows
- Club and Dancefloor
- 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



Presenting BATON

BATON from Vivid RGB Lighting is a rock solid performer. The unique 16 RGB LED pixels stand proud on a rigid, lightweight bar offering exceptional wide angle and off-access viewing.

Utilizing a thin lightweight aluminum extrusion combined with an exclusive mounting clip, large arrays have more open area, reducing wind loads and have excellent visual appeal.

Bright Indoors or Out

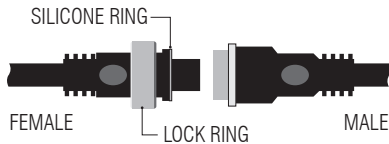
BATON is internally sealed and perfect for permanent indoor or outdoor projects. Options include custom extruded lengths, fixture color and LED spacing, allowing you to create a truly powerful fixture ready to meet the needs of your next project.



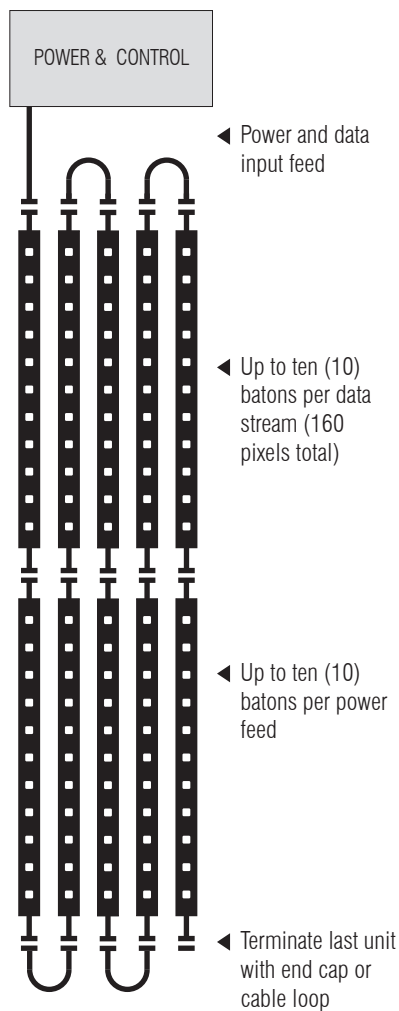
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Connectors

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



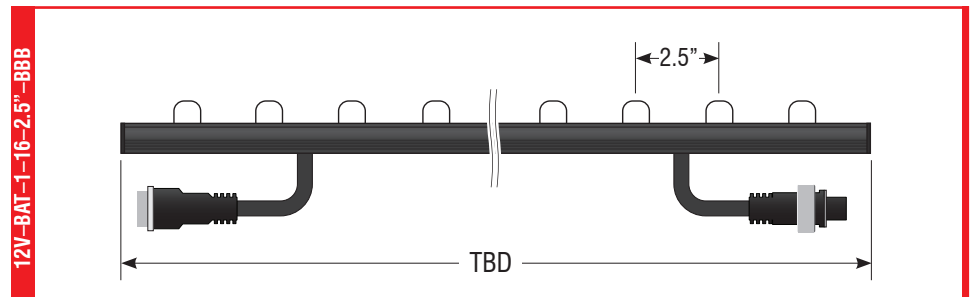
System Overview



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, DSD, 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: 20 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
- Housings and/or wire colors available in black or white
- Other options upon request, call for more information



Typical Wiring Instructions

Input cables connect to controller and power supply providing 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

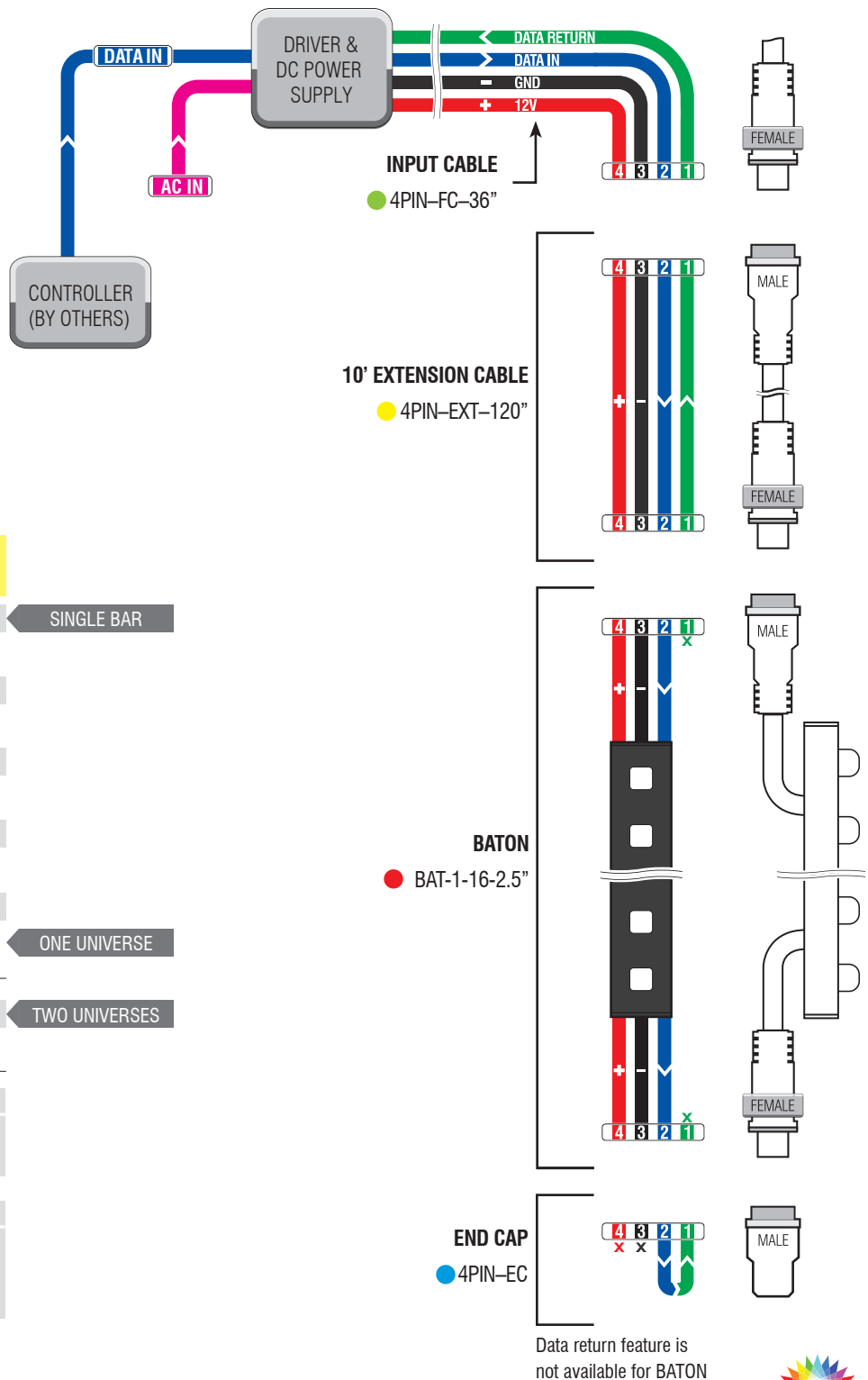
- Use total watts to determine necessary power supply capacity.
- Maximum power draw is 4.00 W per bar at 12 V DC

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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System Accessories & Part Numbers

System Input Cable

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

Stock:

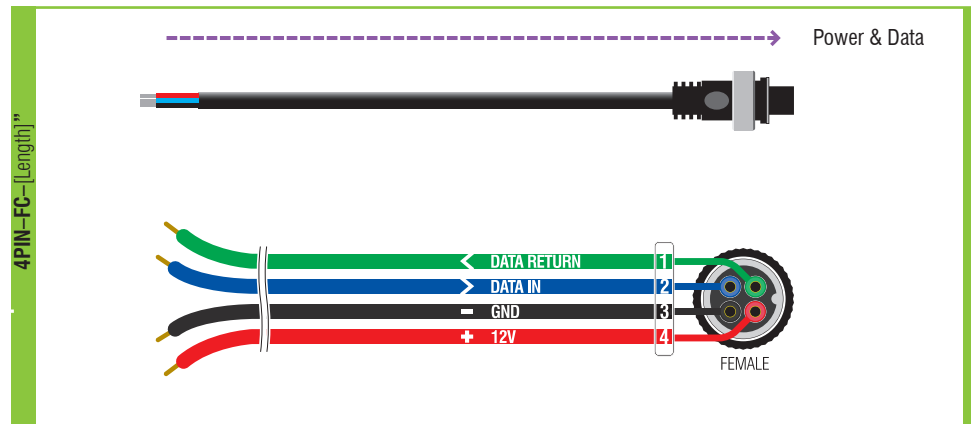
4PIN-FC-36"

*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.



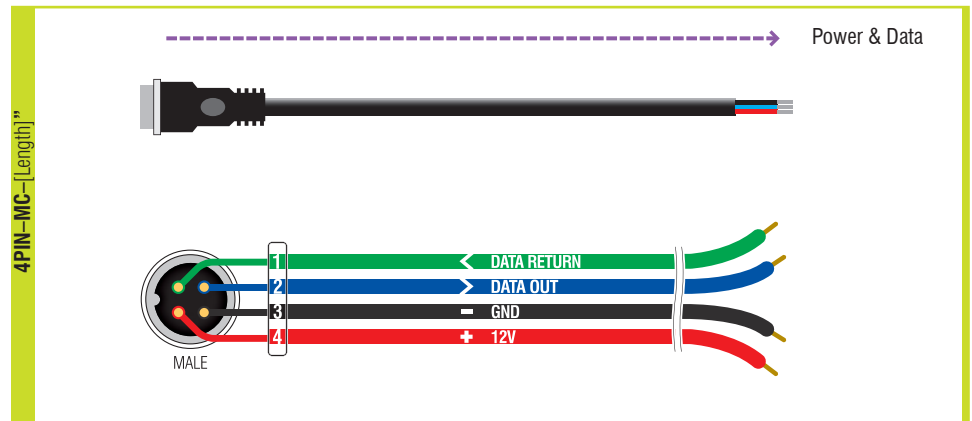
System Output Cable

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

Stock:

4PIN-MC-36"

*Custom lengths available.



Extension Cables

Through extension of all pins.

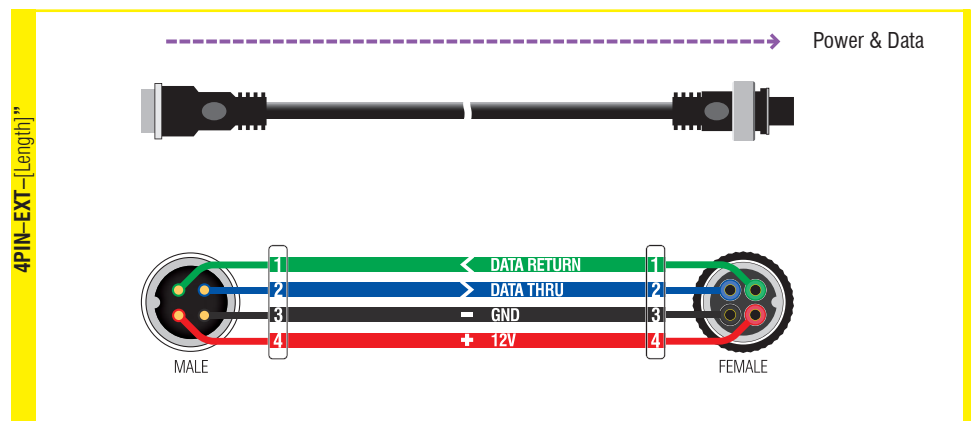
Stock:

4PIN-EXT-60" (5 feet)

4PIN-EXT-120" (10 feet)

4PIN-EXT-300" (25 feet)

*Custom lengths available.



*Custom Cables Available

Contact customer support for more information on customization of cables and accessories.



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End Caps

Seals cable end with a water tight termination and returns data stream to beginning of string.

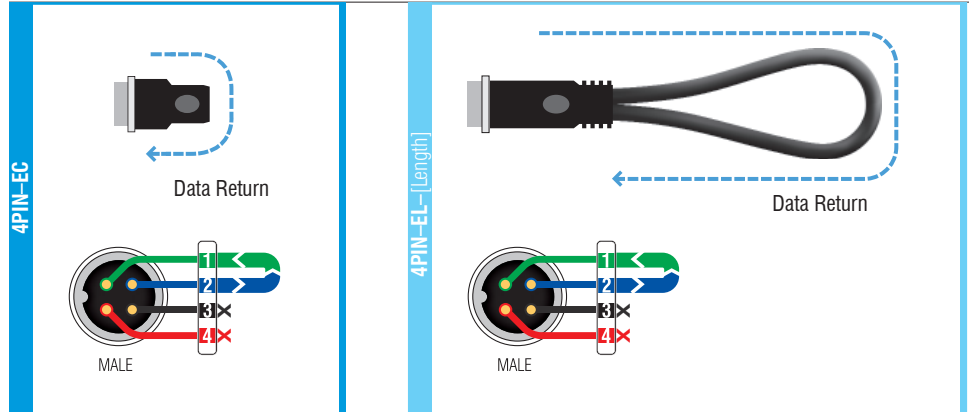
Available in simple cap or cable loop for easy hanging.

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"

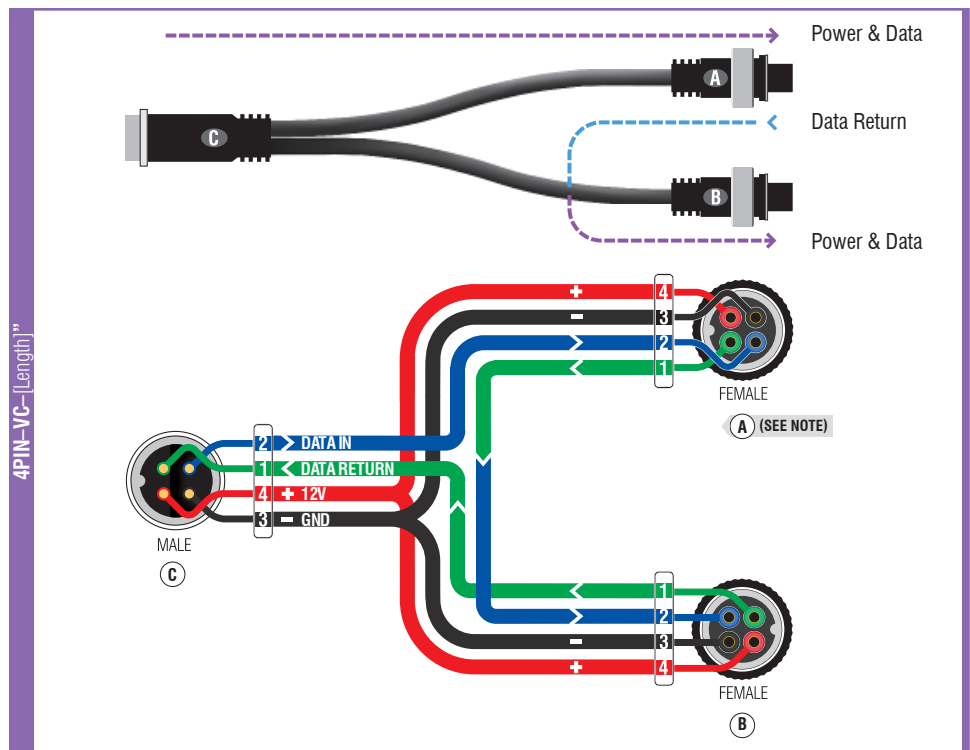
4PIN-VC-60"

*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

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



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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)

