

## Chip6 Inline UltraBright RGB Pixel

### Key Features



Full-color  
RGB pixels



6X  
Brightness



Low  
Profile



4 Corner  
Mounting Holes



Epoxy Sealed  
Electronics



Dust- and  
Waterproof



24 Month  
Warranty



RoHS Certified and Built  
to CE, UL, ETL Standards

### Many Applications

- Special Effects
- 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)



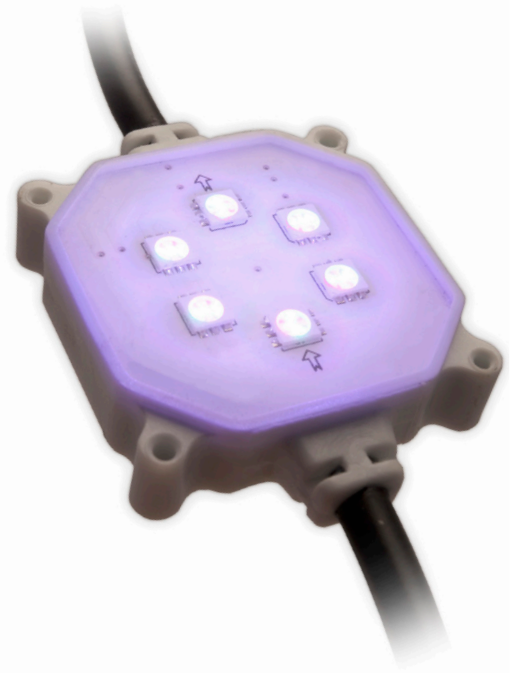
### Introducing Chip6

Chip6, the big brother to Vivid RGB Lighting's Chip3, packs a powerful punch of color. Perfect for special effects, areas with high ambient lighting or anywhere you want to deliver maximum impact. The six super-bright RGB LEDs are capable of displaying over 16 million different colors and the waterproof housing is secure in all environments.

Chip6 is easily controlled from any DMX source and the four integrated corner mounting holes make installation quick and easy.

**When it needs to be bright, Chip6 shines through!**

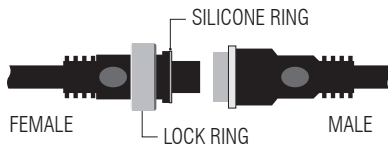
Unleash your creativity with this powerhouse pixel ready to highlight your next project.



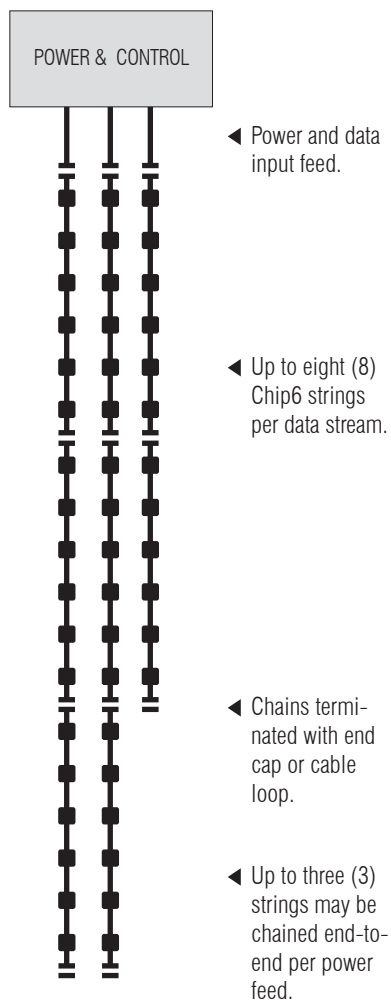
## Chip6 Inline UltraBright RGB Pixel

### Connectors

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



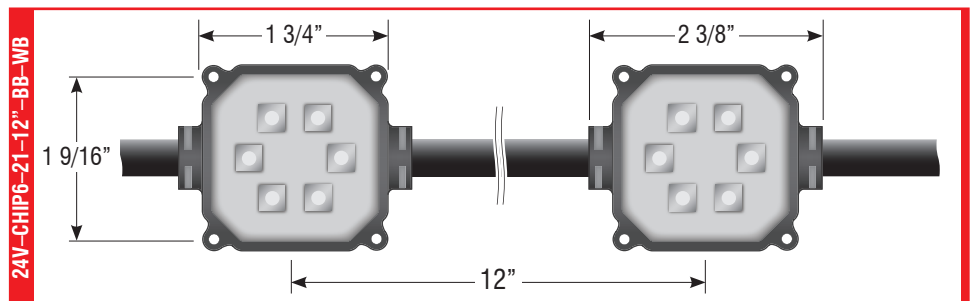
### System Overview



### Standard Configuration Part Order No. CHIP6-21-12"-BB-WB

Each string consists of 21 individually-controllable LED pixels, with integrated power and control cable. A White PCB mounted in a black housing with black wire at 12" on-center pixel spacing, 22' overall length. Connected strings maintain even pixel spacing.

Low profile pixel enclosures with corner mounting holes, sealed for maximum fixture life and IP66 rated for outdoor applications.



### Technical Specifications\*

OUTPUT	LUMEN MAINTENANCE	50,000+ hours
	LED CHANNELS	Red, Green, & Blue
	GRAYSCALE	256, 8-bit
ELECTRICAL	INPUT VOLTAGE	24V DC
	POWER	1.25W / pixel
CONTROL	INTERFACE	1-Wire DMX512
	CONTROL SYSTEM	Full range of controllers available, or 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: 200 pixels per configuration  
Production Lead Time: 8 weeks after receipt of order

#### Custom options:

- Pixel count per string, 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



## Chip6 Inline UltraBright RGB Pixel

### 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.

### Chip6 String Power

Use total watts to determine necessary power supply capacity.

Maximum power draw is 1.25 W per pixel at 24 V DC.

STRINGS	AMPS @ 24V	TOTAL WATTS	
1	1.10 A	25.00 W	← SINGLE STRING
2	2.20 A	50.00 W	
3	3.30 A	75.00 W	
4	4.40 A	100.00 W	
5	5.50 A	125.00 W	
6	6.60 A	150.00 W	
7	7.70 A	175.00 W	
8	8.80 A	200.00 W	
<hr/>			
16	17.40 A	400.00 W	← TWO UNIVERSES
24	26.20 A	600.00 W	← THREE UNIVERSES
32	35.20 A	800.00 W	← FOUR UNIVERSES

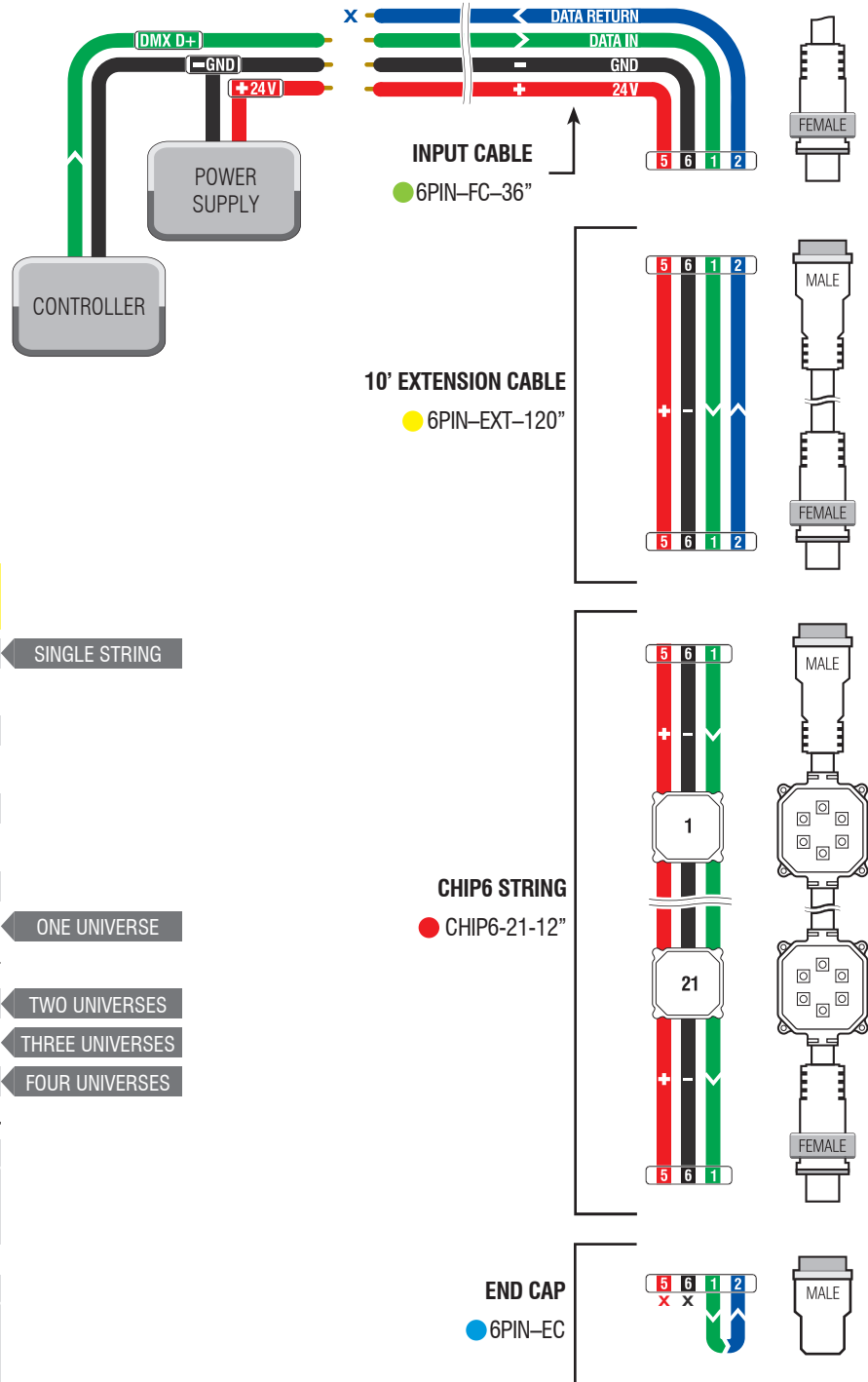
### NOTES

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.

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



Data return feature is not available for CHIP6



## Chip6 Inline UltraBright RGB Pixel

### System Accessories & Part Numbers

#### System Input Cable

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

Stock:

**6PIN-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:

**6PIN-MC-[Length]"**

Custom lengths available.

#### Extension Cables

Through extension of all pins.

Stock:

**6PIN-EXT-60"**

**6PIN-EXT-120"**

**6PIN-EXT-300"**

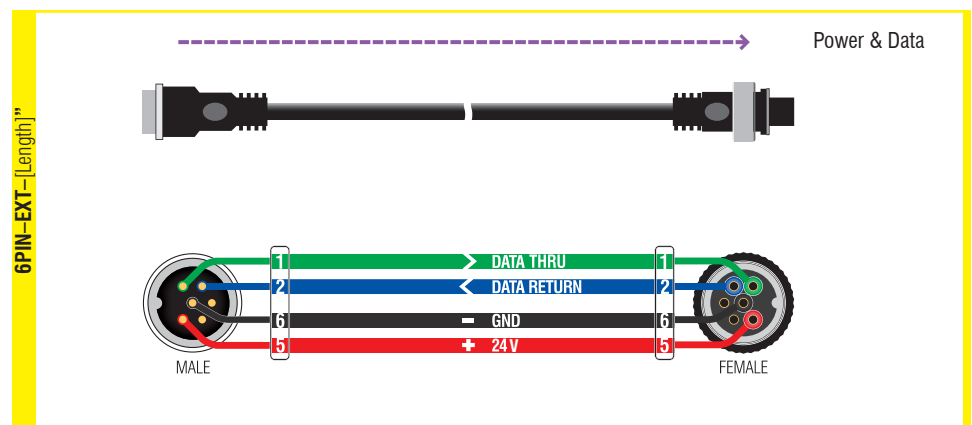
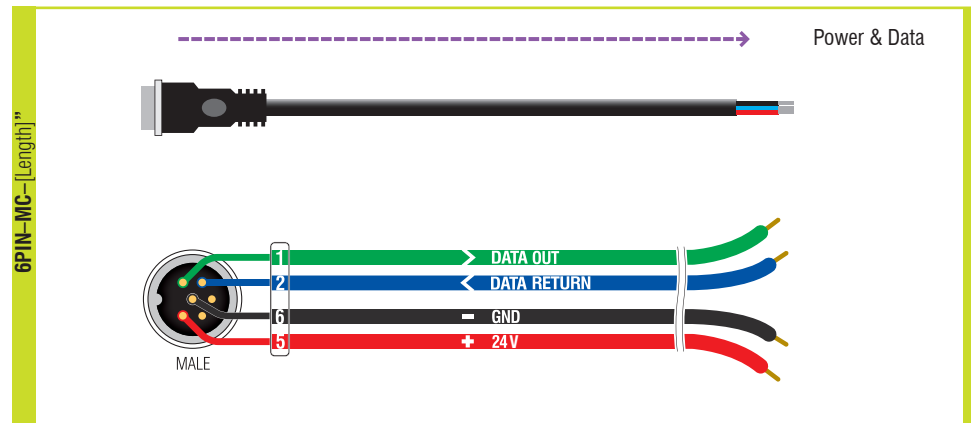
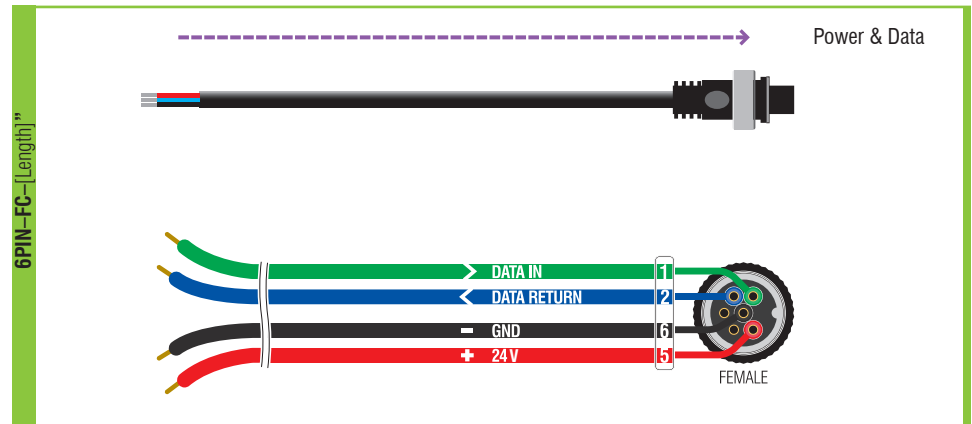
That's 5, 10 & 25 Feet.

Custom lengths available.

#### NOTES

1. Numbers refer to labeled pins in connectors.
2. Not all pins are connected

Chip6 is a **24-Volt** system, compatible with **6-pin** accessory cables and products. Please contact customer support with product compatibility concerns.



## Chip6 Inline UltraBright RGB Pixel

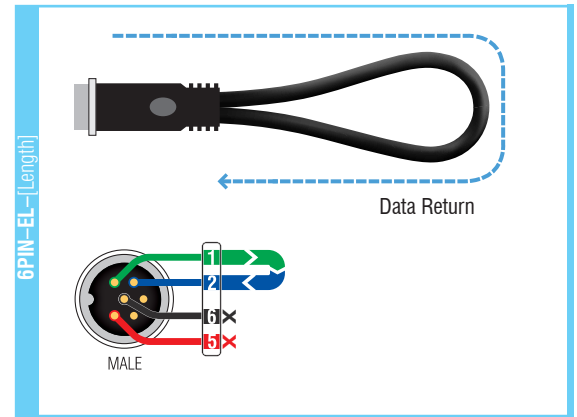
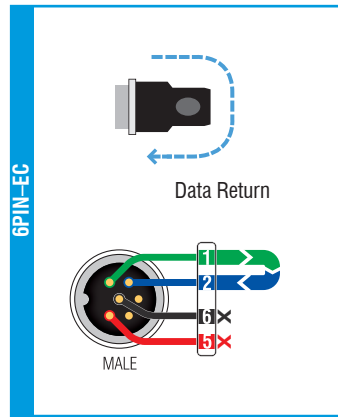
### End Caps

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:

#### 6PIN-EC

End Loops available on special order.



### Mid-Feed Power Input

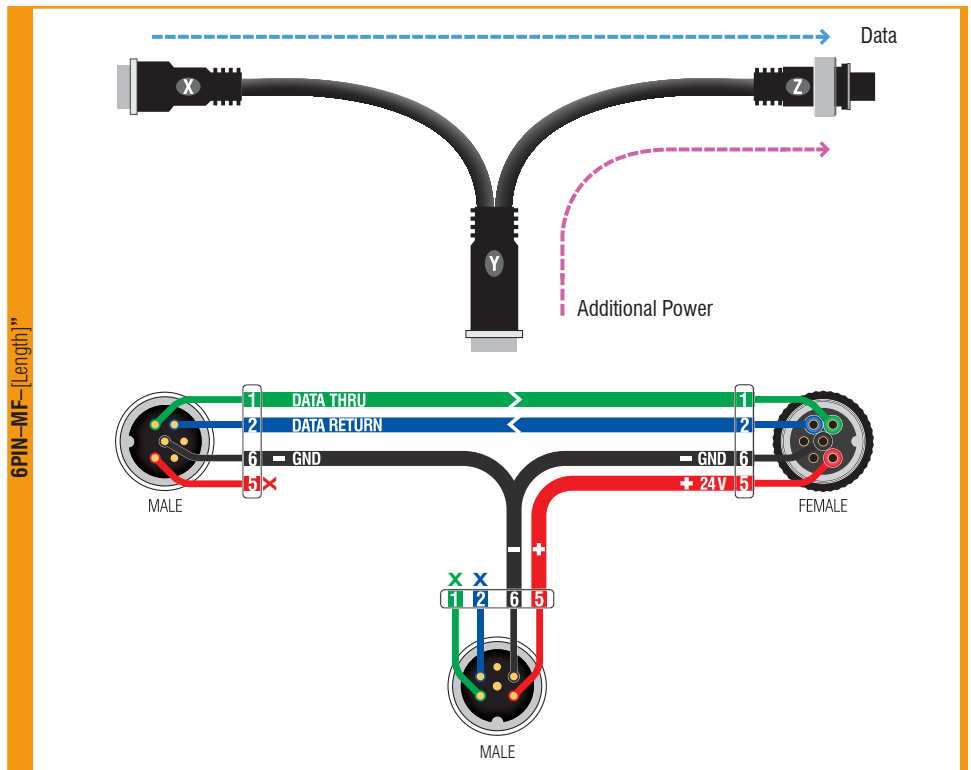
Allows for power to be input between strings on same data stream.

Stock:

#### 6PIN-MF-12"

Custom lengths available.

- X: Data input from previous string
- Y: Additional power input
- Z: Power and data output to next string(s)



### NOTES

1. Numbers refer to labeled pins in connectors.
2. Not all pins are connected

### 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.**

