

Key Features



Triple Brightness



Overmolded Electronics



Slim Enclosure



Center Mounting Hole



Full-color RGB pixels



Dust- and Water Resistant



24 Month Warranty



RoHS Certified and Built to CE, UL, ETL Standards

Many Applications

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

Further Reading

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

www.VividRGBlighting.com



Presenting Chip3

Proven power, Chip3 from Vivid RGB Lighting partners three super-bright, surface-mounted RGB LEDs with a thin-profile housing for applications where bright, directional light is needed in a sexy slimline package.

Chip3 is capable of displaying over 16 million colors per pixel. Controlling it is simple using direct DMX, making it compatible with almost any control system. Or, organize your pixels with one of our VPD controllers for a turnkey system. The integrated center mounting hole lets Chip3 maintain a low profile and fit seamlessly into your project.

Big Light in an UltraSlim Package!

Perfect for architectural lighting and signage applications, Chip3 is at home in any environment.







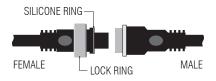




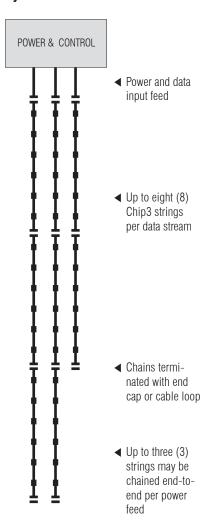


Connectors

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



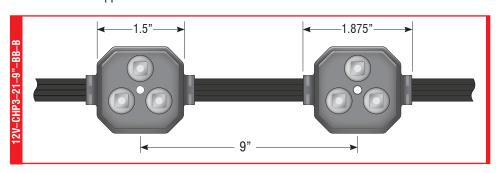
System Overview



Standard Configuration Part Order No. CHIP3-21-9"-BB-B

Each string consists of 21 individually-controllable LED pixels, with integrated power and control. Black housing and black wire with 9" on-center pixel spacing, 15'-9" overall length. Connected strings maintain even pixel spacing.

Ultraslim pixel enclosures with center mounting hole, sealed for maximum fixture life and IP64 rated for outdoor applications.



Technical Specifications*

LED CHANNELS	Red, Green, & Blue
INPUT VOLTAGE	12V DC
INTERFACE	1-Wire DMX512
TEMPERATURE RANGES	-20°C - 50°C / -4°F - 122°F
ENVIRONMENT	Dry & damp, water resistant; IP64

^{*}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





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.

Chip3 String Power

STRINGS

2

3

4

6

8

16

24

32

- Use total watts to determine necessary power supply capacity.
- Maximum power draw is 0.7 W per pixel at 12 V DC.

AMPS @ 12V

1.20 A

2.30 A

3.50 A

4.70 A

5.80 A

7.00 A

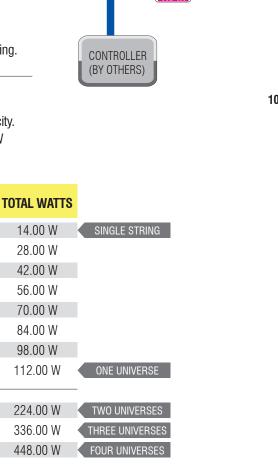
8.10 A

9.30 A

18.50 A

28.00 A

37.00 A



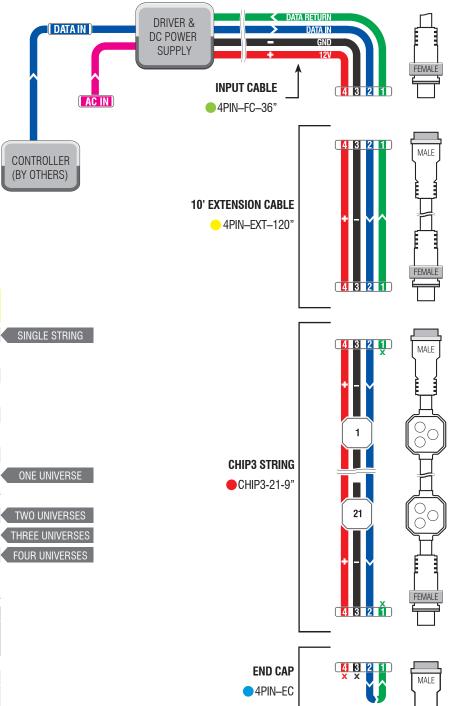
NOTES

Figures in this chart allow for 5% headroom. Typical per-pixel wattage is 0.65 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 CHIP3



System Accessories

& Part Numbers

Vivid RGB Lighting's 12-Volt products use our 4-PIN accessory cables and products. Please contact customer support with product compatibility concerns.

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.

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.

Power & Data

Extension Cables

Through extension of all pins

Stock:

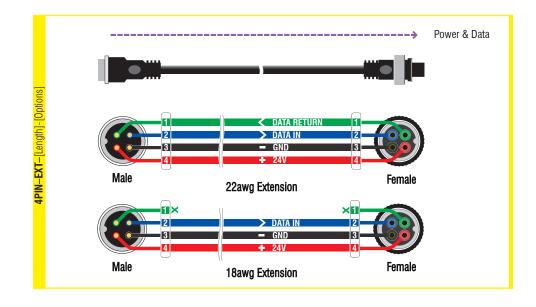
4PIN-EXT-60"	(20awg - 5 feet)
4PIN-EXT-120"	(20awg - 10 feet)
4PIN-EXT-300"	(20awg - 25 feet)
4PIN-EXT-120"-3W	(18awg - 10 feet)
4PIN-EXT-300"-3W	(18awg - 25 feet)
4PIN-EXT-600"-3W	(18awg - 50 feet)

*Custom lengths available.

18awg extension cables do not return data.

*Custom / Build-to-Order

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



Revised 07/11/2018









Power & Data



End Caps

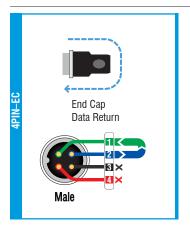
Seals cable end with a water tight termination and returns data stream to beginning of string.

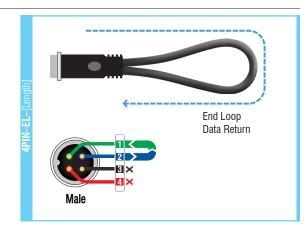
Available in simple cap or cable loop for easy hanging.

Stock:

4PIN-EC

*Custom lengths available.





Mid-Feed Power Input

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

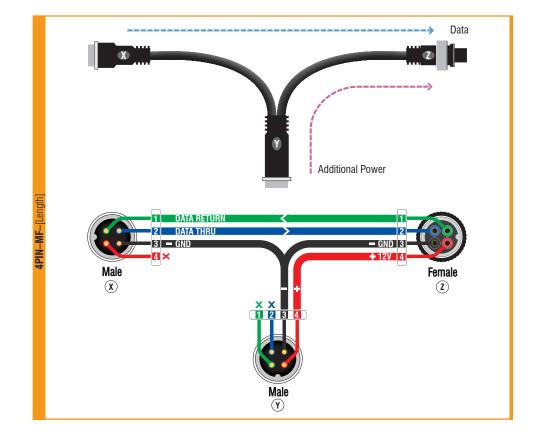
Stock:

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)



*Custom / Build-to-Order

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

Revised 07/11/2018











V-Cables

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

Stock:

4PIN-VC-9"

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

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.

T-Connector Single

Allows for power and data to be sent to each a single module. These can be linked together to created custom distribution of power and data.

Stock:

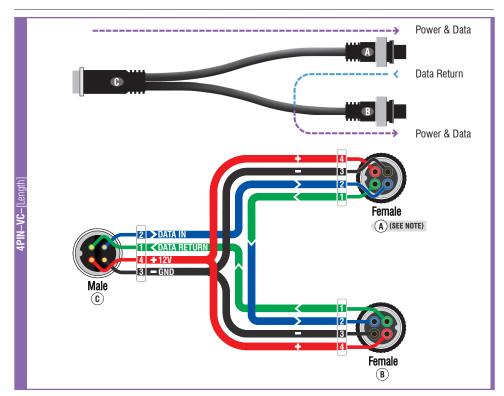
4PIN-TC1-6" x 6"- 6"/6"- BB

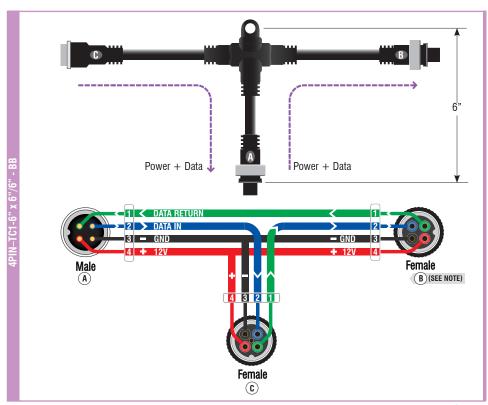
*Custom lengths available. (see next page)

The last string of the A output of the T-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.









T-Connector Cable

Allows for power and data to be sent to each module and can be customized to your project.

Stock Configurations:

4PIN-TC3-24" x 6"- 12"/12"- BE

4PIN-TC5-6" x 6"- 12"/12"- BB

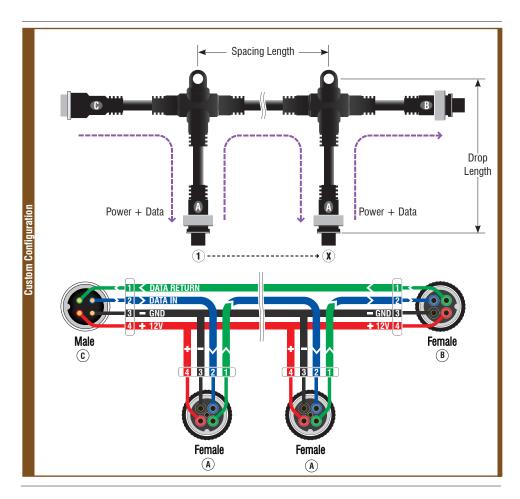
4PIN-TC5-12" x 6"- 6"/6"- BB

4PIN-TC6-10" x 6"- 5"/5"- BB *Custom lengths available.

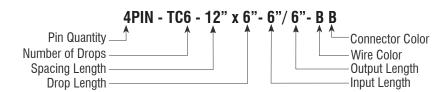
NOTE

T-Connector cable stock changes frequently. Call to confirm availability.

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



T-Cable Example Code:



Important

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



*Custom / Build-to-Order

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

Revised 07/11/2018









