








Key Features

-  360° Viewing Angle
 -  Fully Overmolded Clear or Frosted Enclosures
 -  Interconnected Strings Maintain Spacing
 -  Easy Installation and Maintenance
 -  Full-color RGB Pixels
 -  IP66 Dust and Waterproof
 -  24 Month Warranty
 -  International Patent Pending
 -  ETL Listed PoHS Compliant
- Intertek

Many Applications

- Theater and Concert Stage Elements
- Trade Shows
- Interior and Exterior Architecture
- Themed Environments
- Nightclubs
- Museums and Art Installations
- TV Production
- Holiday Light Shows

Further Reading

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

www.VividRGBLighting.com



Presenting Pixel360

One of Vivid RGB Lighting's original products has proven to be a workhorse in the industry. **Pixel360** is an omnidirectional, DMX controlled RGB spherical inline pixel product. **Pixel360** is dustproof and durable in all weather applications. The waterproof pixel enclosures are made of solid thermoplastic rubber. The internal RGB LEDs are capable of displaying over 16 million colors using your existing DMX controller!

Its flexibility of design will give life to your creativity indoors or out.

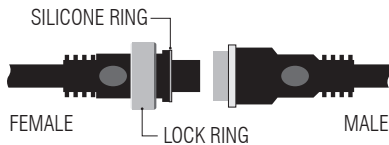
Pixel360 has limitless applications in architectural and entertainment design and is constructed to the highest specifications. The flexible nature of the system capability gives rise to spectacular new possibilities in two and three dimensional lighting design.



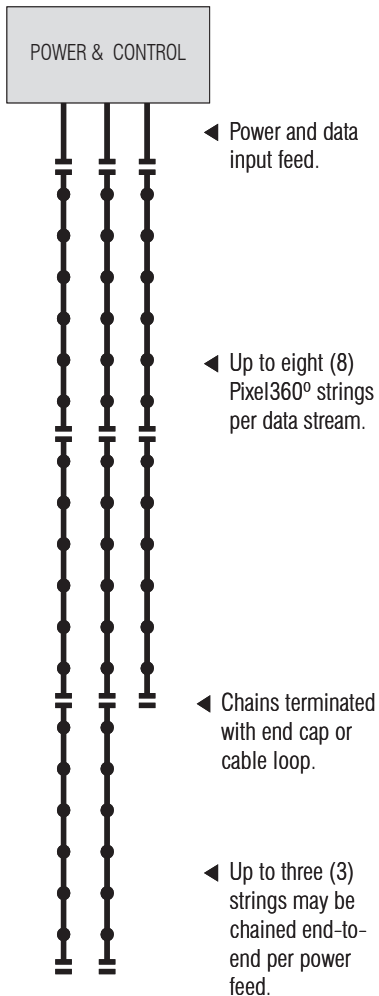
Pixel360 Omnidirectional Inline RGB LED Pixels

Connectors

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



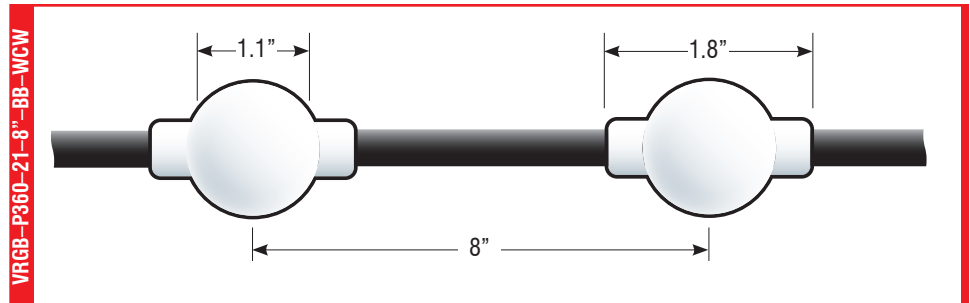
System Overview



Standard Configuration: VRGB-P360-21-8"-BB-WCW

Each string consists of 21 individually-controllable LED pixels, with integrated power and control. Black wire with 8" on-center pixel spacing, 14' overall stock length. Connected strings maintain even pixel spacing.

White TPE pixel enclosures, fully 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	12V DC
	POWER	0.7W / pixel
CONTROL	INTERFACE	1-Wire DMX512
	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, wet locations; IP66
	ETL LISTED	

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

Build-to-Order Configurations - Contact Vivid RGB Lighting for details

Minimum Order Quantity: 200 pixels per configuration
Production Lead Time: 8 weeks after deposit

Fixture Code Logic: VRGB-P360-##-X"-CC-MMM

- > VRGB-P360 = Pixel360 Module Style
- > ## = Number of pixels on a string
- > X" = On-Center Spacing between pixels (minimum spacing 4" on center)
- > CC = Cable & Connector Colors
- > MMM = Component Colors - PCB, Under Mold, Overmold
- > +UV = Additional UV Protection



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.

Pixel360 String Power

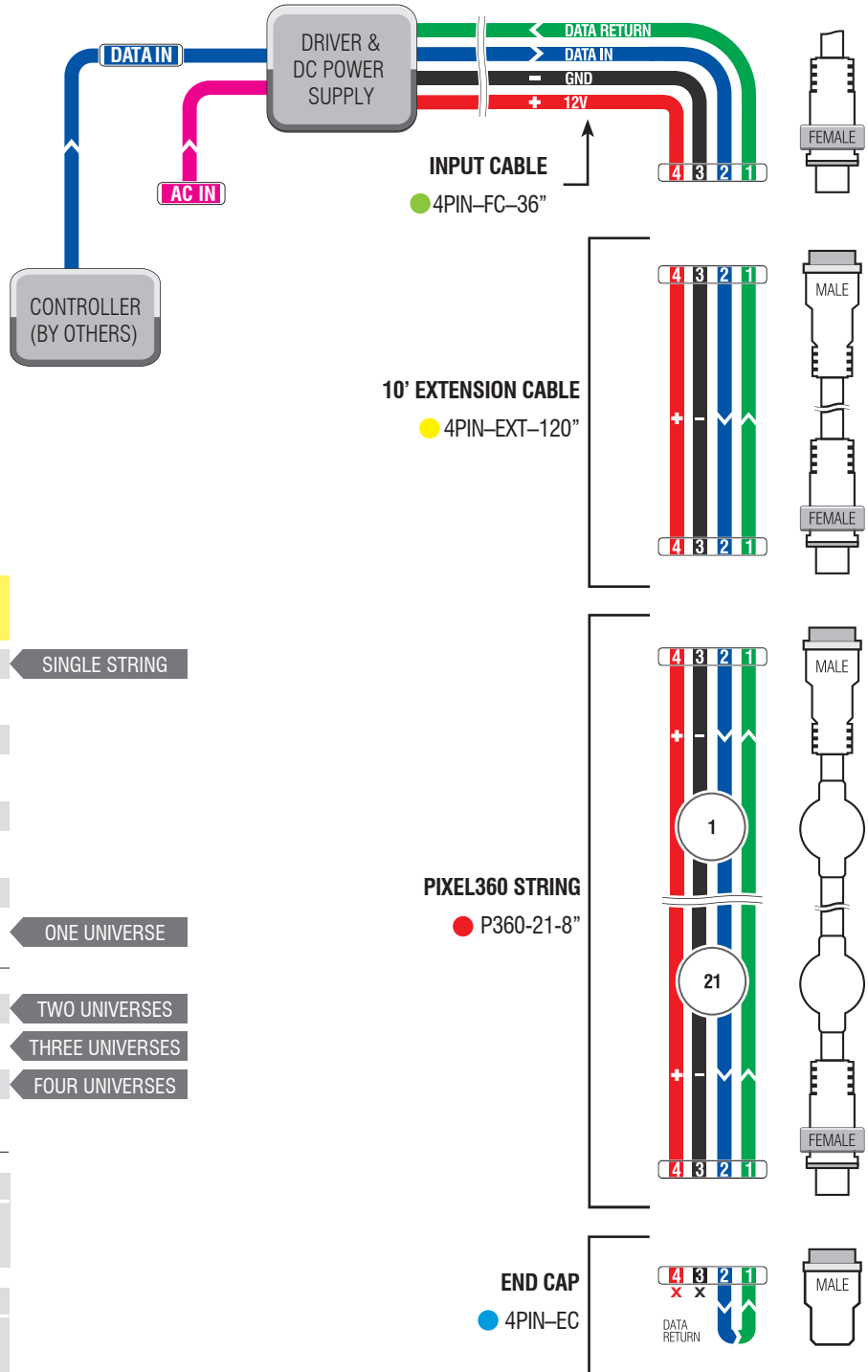
- Use total watts to determine necessary power supply capacity.
- Maximum power draw is 0.7 W per pixel at 12 V DC.

STRINGS	AMPS @ 12V	TOTAL WATTS	
1	1.25 A	15.00 W	← SINGLE STRING
2	2.50 A	30.00 W	
3	3.75 A	45.00 W	
4	5.00 A	60.00 W	
5	6.25 A	75.00 W	
6	7.50 A	90.00 W	
7	8.75 A	105.00 W	
8	10.00 A	120.00 W	
<hr/>			
16	20.00 A	240.00 W	← TWO UNIVERSES
24	30.00 A	360.00 W	← THREE UNIVERSES
32	40.00 A	480.00 W	← FOUR UNIVERSES

NOTES
 Figures in this chart allow for 5% headroom.
 Typical per-pixel wattage is **0.67 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.



Pixel360 Omnidirectional Inline RGB LED Pixels

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.

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" (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.

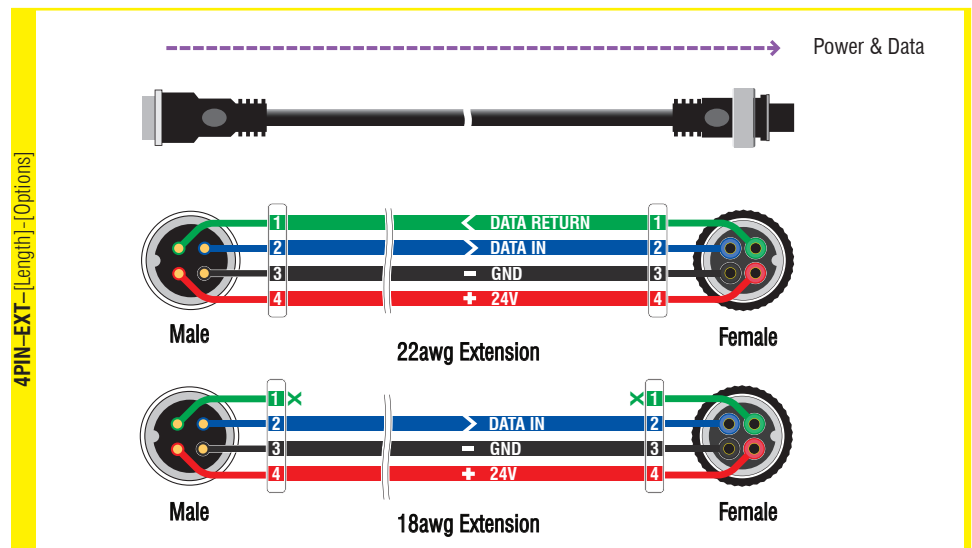
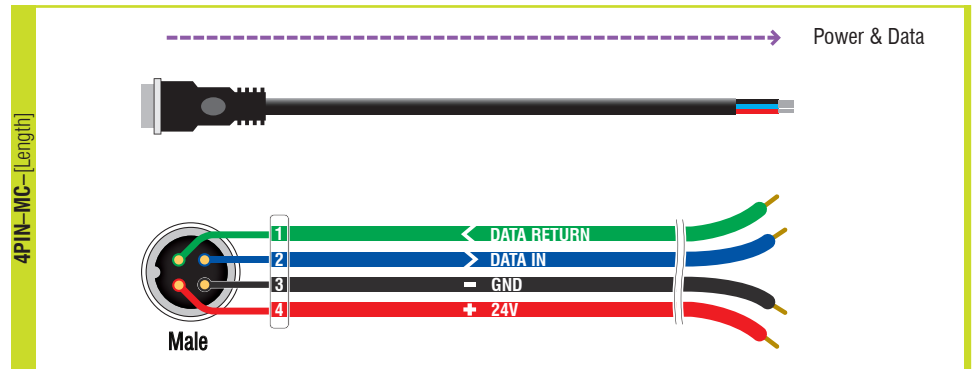
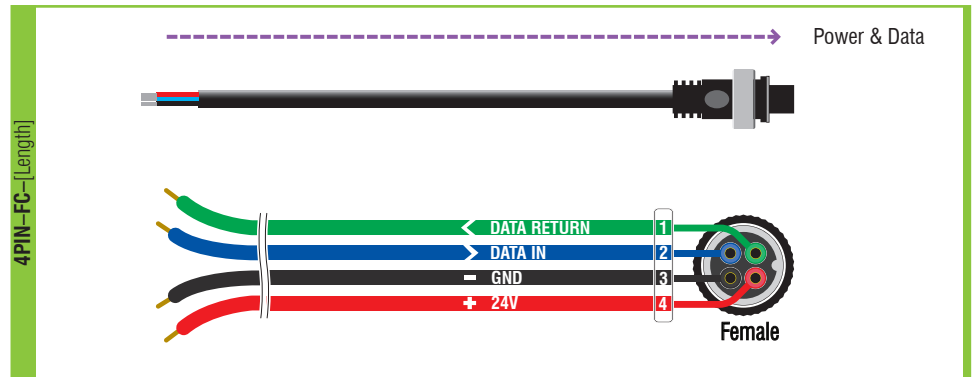
NOTE

18awg extension cables do not return data.

*Custom / Build-to-Order

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

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



Pixel360 Omnidirectional Inline RGB LED Pixels

End Caps

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

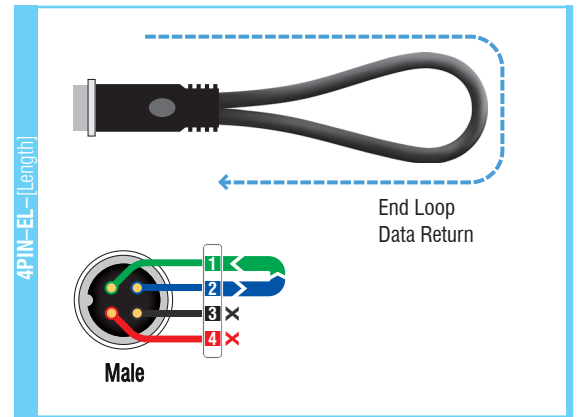
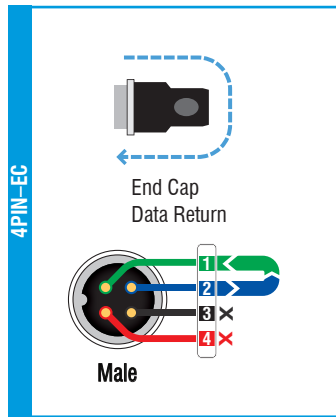
Available in simple cap or cable loop for easy hanging.

Stock:

4PIN-EC

4PIN-EL-5"

*Custom lengths available.



Mid-Feed Power Input

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

Stock:

4PIN-MF-9"

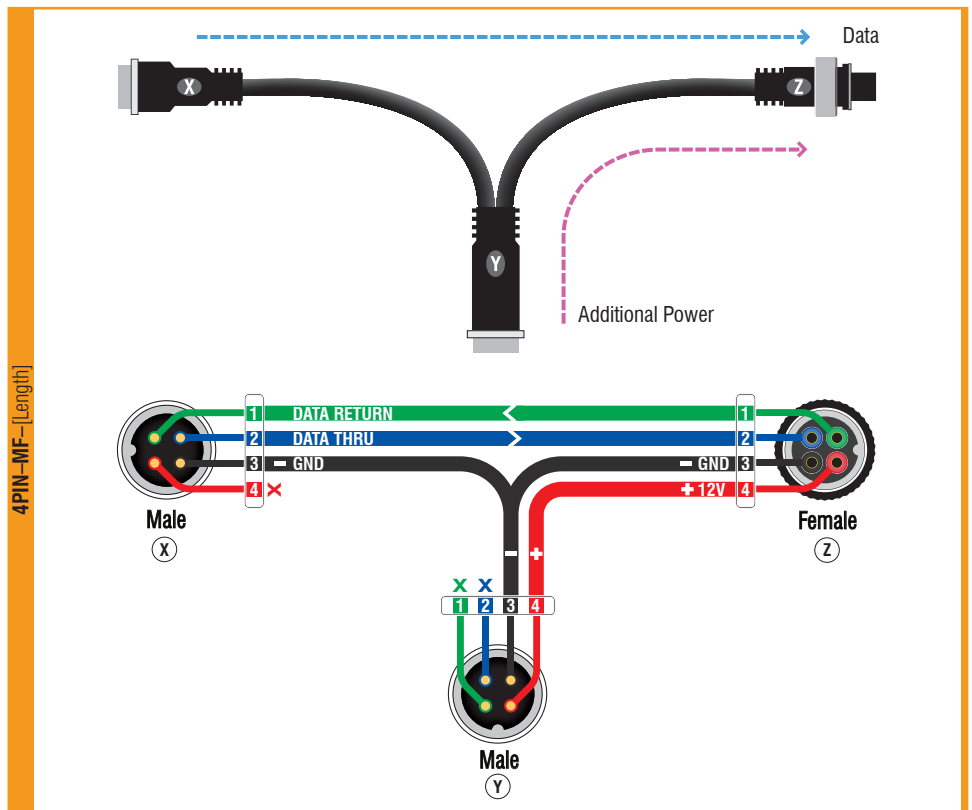
4PIN-MF-12"

*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.



Pixel360 Omnidirectional Inline RGB LED Pixels

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**.

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.

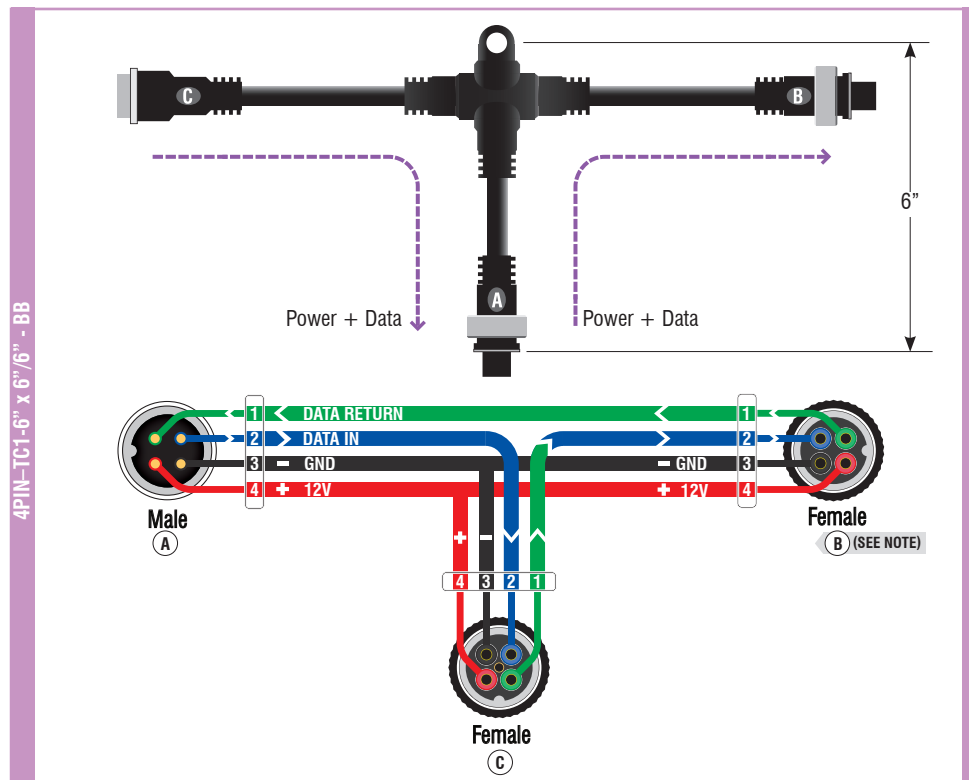
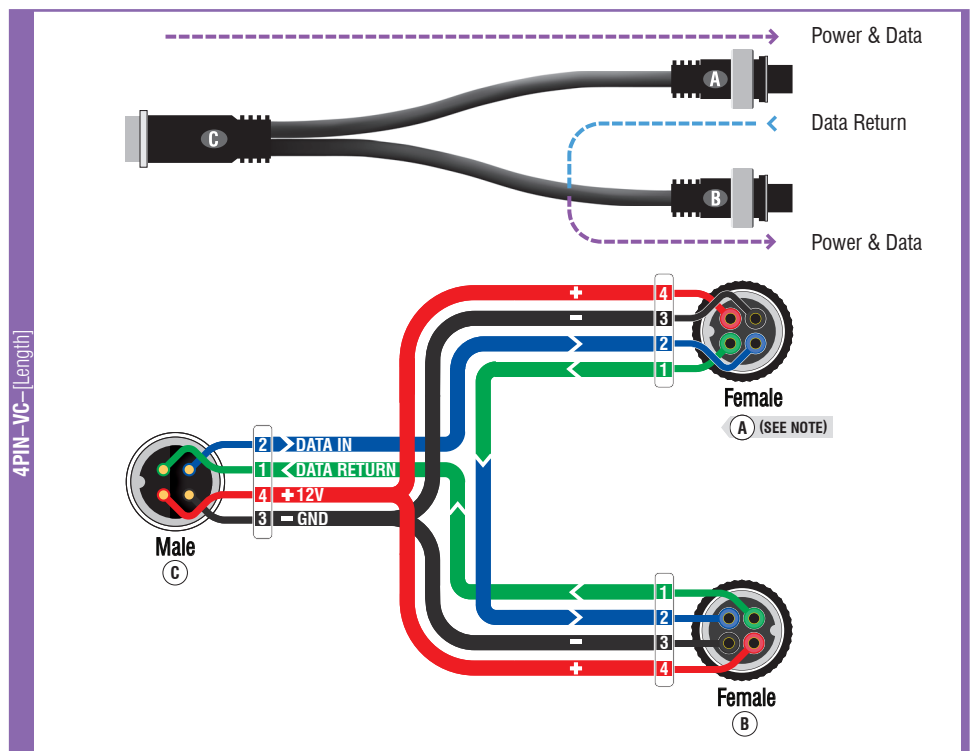
(see next page)

NOTE

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.



Pixel360 Omnidirectional Inline RGB LED Pixels

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"- BB

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

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

4PIN-TC6-10" x 6"- 5"/5"- BB

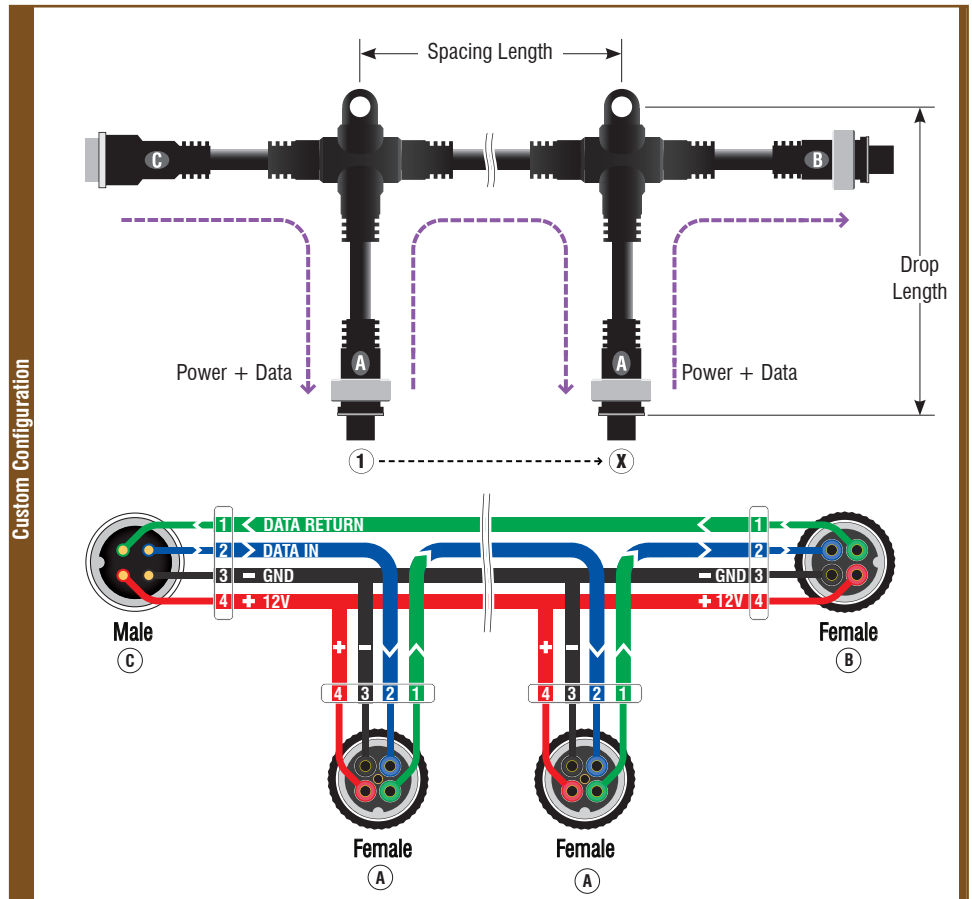
*Custom lengths available.

NOTE

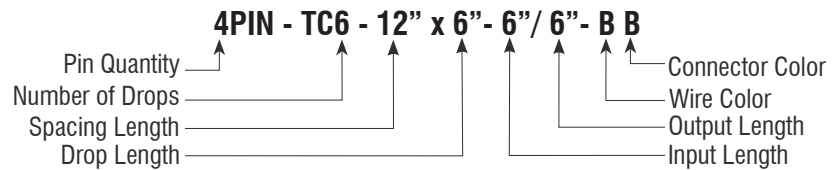
T-Connector cable stock changes frequently. Call to confirm availability.

NOTE

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.

