

## Pixel360Uno Omnidirectional RGB LED Pixel

### Key Features



360° Viewing  
Angle



Fully Overmolded Clear or  
Frosted Enclosures



Easy Installation and  
Maintenance



Full-color  
RGB Pixels



Dust and  
Waterproof



24 Month  
Warranty



ETL Listed  
RoHS Compliant

### Many Applications

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

### Further Reading

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

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



### Presenting Pixel360Uno

**Pixel360** is a proven LED workhorse launched by Vivid RGB Lighting in 2011. **Pixel360Uno** is a single **Pixel360** at the end of a wire. It's an omnidirectional, DMX-controlled RGB end-line pixel product that can display 16 million RGB colors. Made of solid thermoplastic rubber, it's dustproof and durable for all weather applications.

**Pixel360Uno** is available as clear for that added sparkle or white for a softer more translucent effect. Additional UV protection may be added.

**Bring your star field or any other creative project to life with ease!**

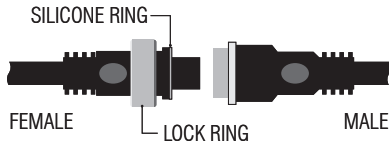
**Pixel360Uno** is a flexible lighting system ideal for architectural and entertainment design. Its versatility allows for limitless possibilities in 2D and 3D lighting.



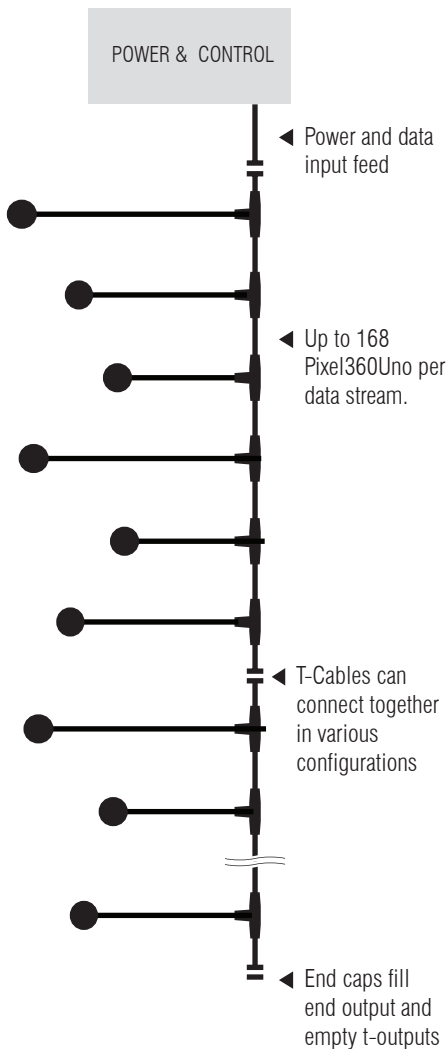
## Pixel360Uno Omnidirectional RGB LED Pixel

### Connectors

4-PIN keyed aviation-style connector with weathertight lock ring. (*other systems available*)



### System Overview

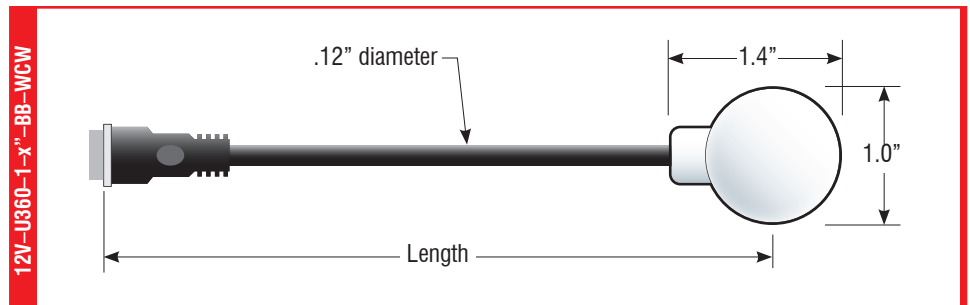


### Flexible Configuration:

Part Order No. U360-1-Length"-BB-WCW-3mm-GX12-4pin

Each **Pixel360Uno** consists of one individually-controllable LED pixel, with integrated power and control via a 3mm/0.12" diameter cable. The length is determined by you.

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	DSD or VPD, 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

Minimum Order Quantity: 200 pixels per configuration  
Production Lead Time: 6-8 weeks after receipt of order

Custom options available for:

- Connectors, 4-Pin, 3.5mm and RJ9
- Custom opacity, or clear iridescent enclosures
- Cable length and spacing
- Cable color—black or white
- Other options upon request, call for more information
- Additional UV protection



### Typical Wiring Instructions

Input cables connect to driver and 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.

### Pixel360Uno Power

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

Pixel360Uno	AMPS @ 12V	TOTAL WATTS	
1	.006 A	.07 W	SINGLE Pixel360Uno
21	1.25 A	15 W	
42	2.50 A	30 W	
63	3.75 A	45 W	
84	5.00 A	60 W	
105	6.25 A	75 W	
126	7.50 A	90 W	
170	10.00 A	120 W	ONE UNIVERSE
341	20 A	240 W	TWO UNIVERSES
512	30 A	360 W	THREE UNIVERSES
682	40 A	480 W	FOUR UNIVERSES

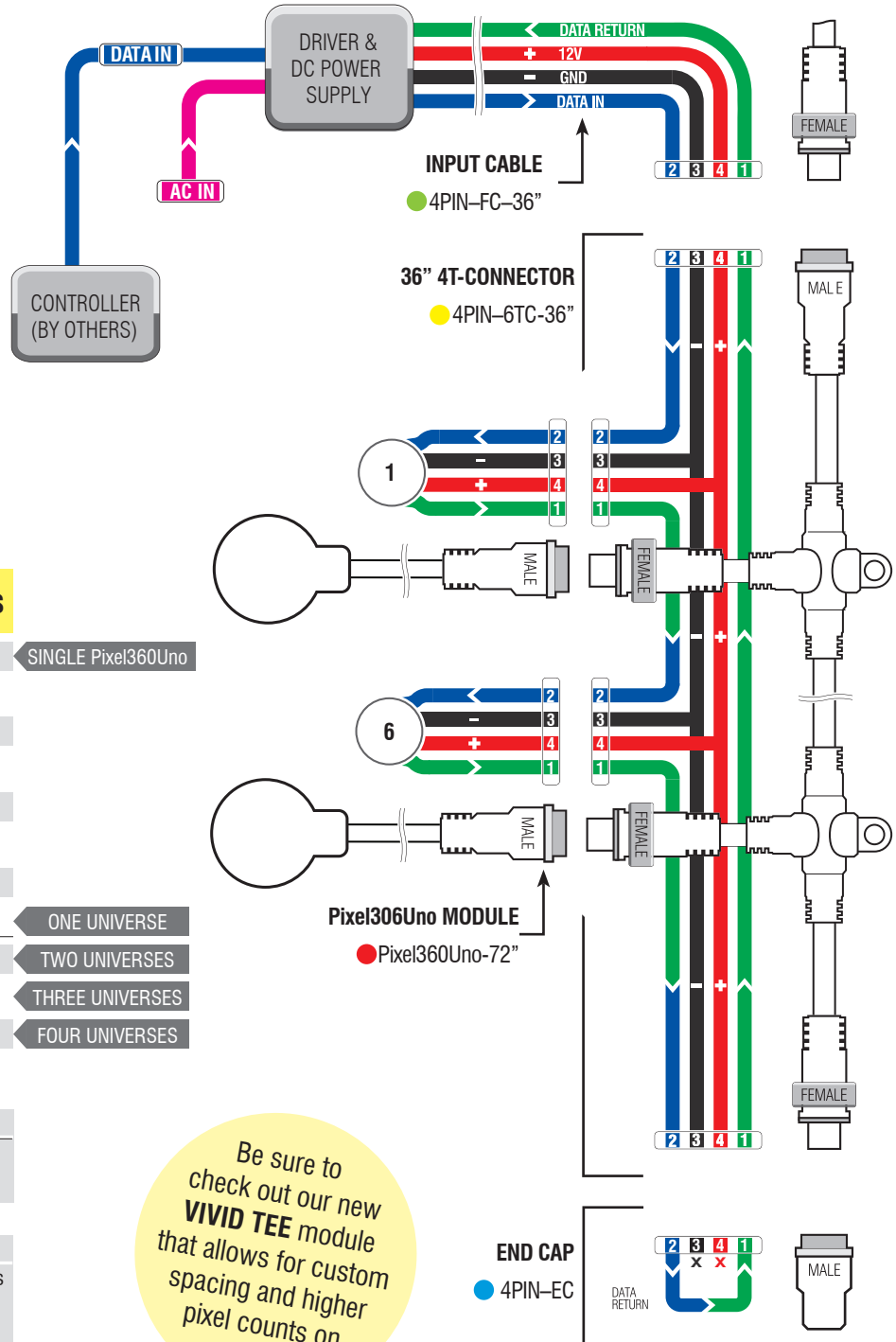
### NOTES

Figures in this chart allow for 5% headroom. Typical per-pixel wattage is **0.07 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.



Be sure to check out our new **VIVID TEE** module that allows for custom spacing and higher pixel counts on each run!



## Pixel360Uno Omnidirectional RGB LED Pixel

### 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.

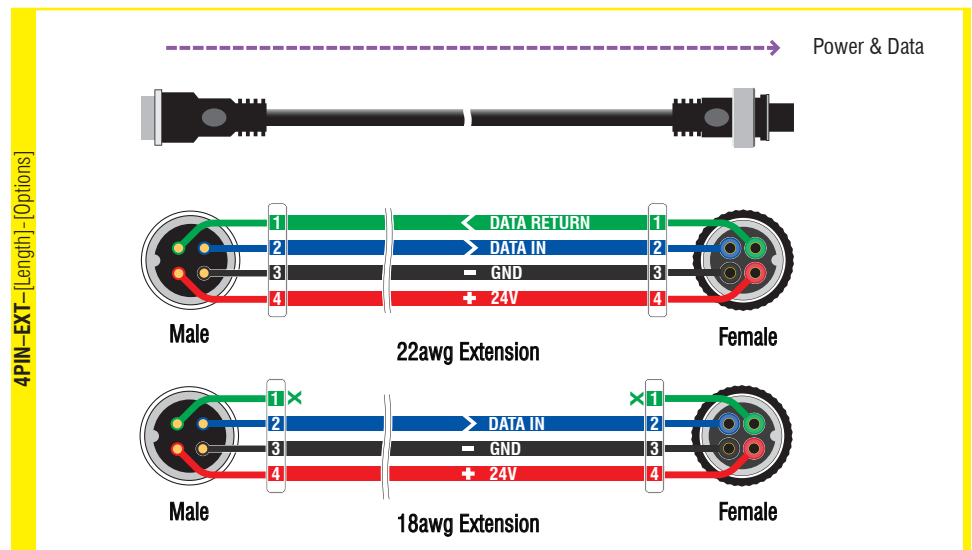
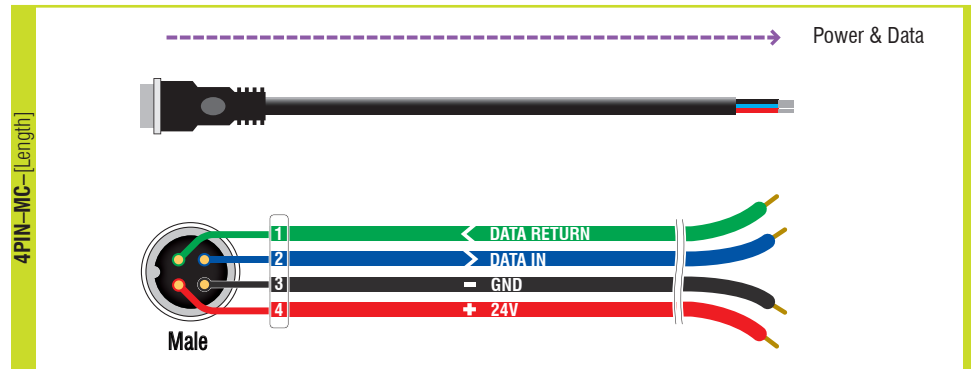
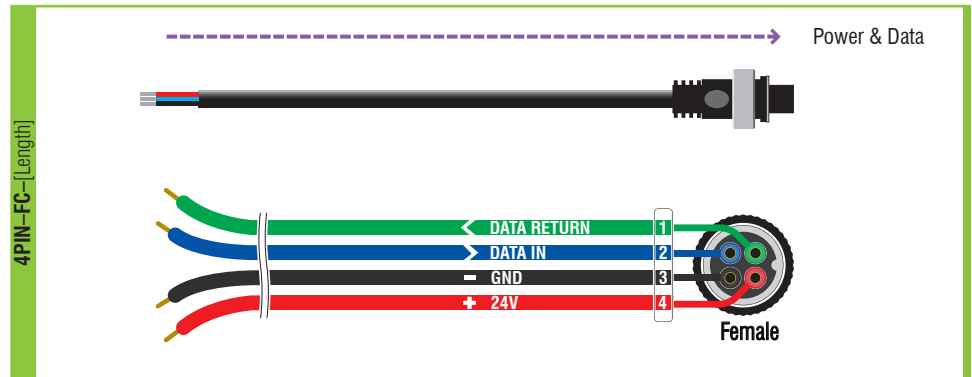
#### NOTE

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.



## Pixel360Uno Omnidirectional RGB LED Pixel

### End Caps

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

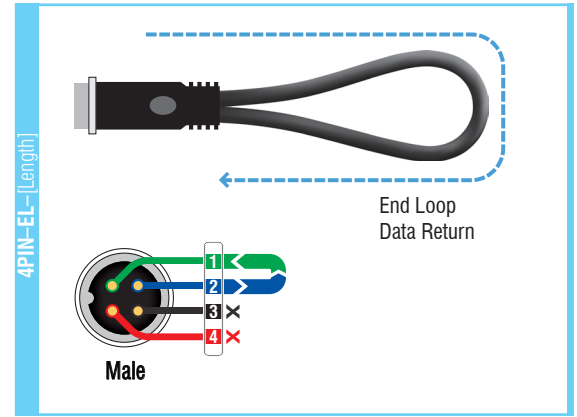
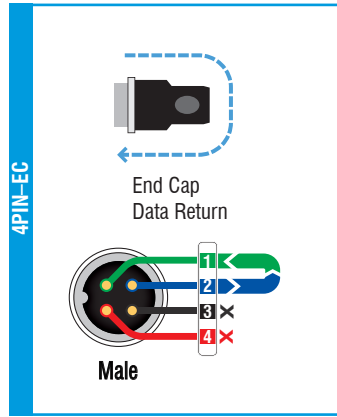
Available in simple cap or cable loop for easy hanging.

Stock:

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"

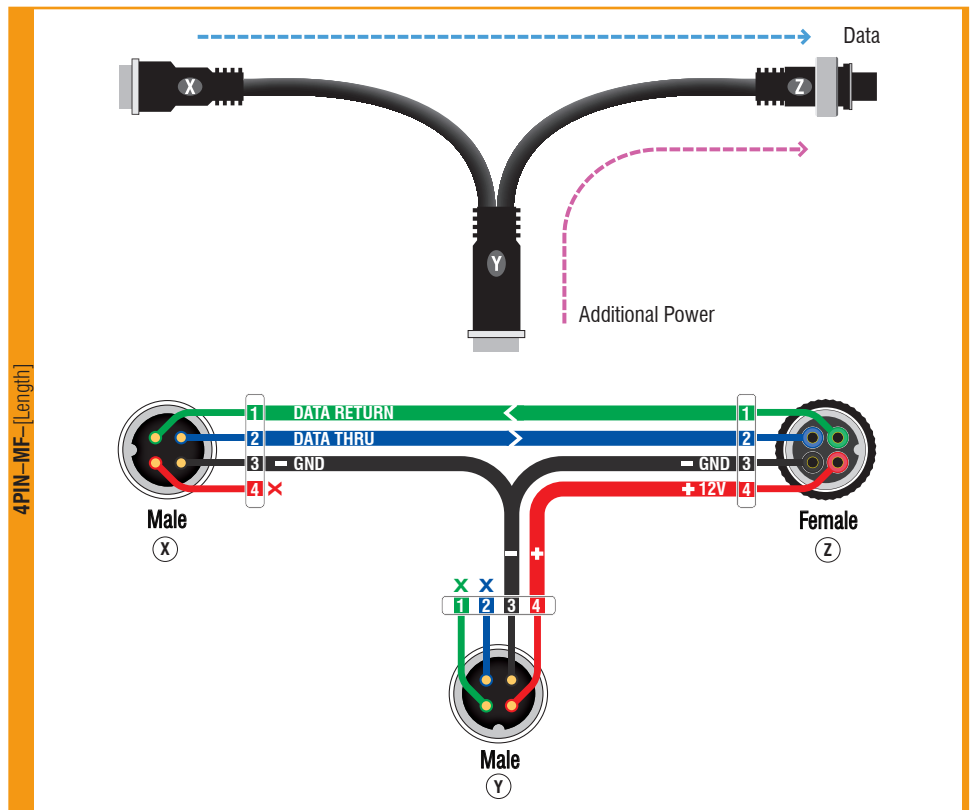
4PIN-MF-12"

\*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.



### 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.

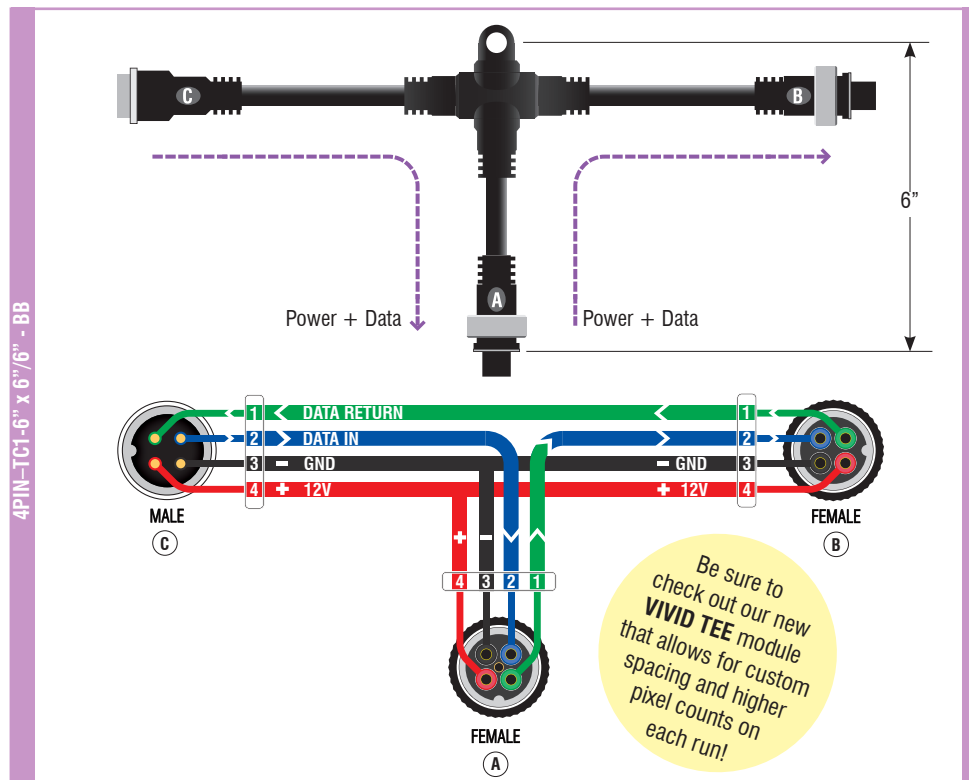
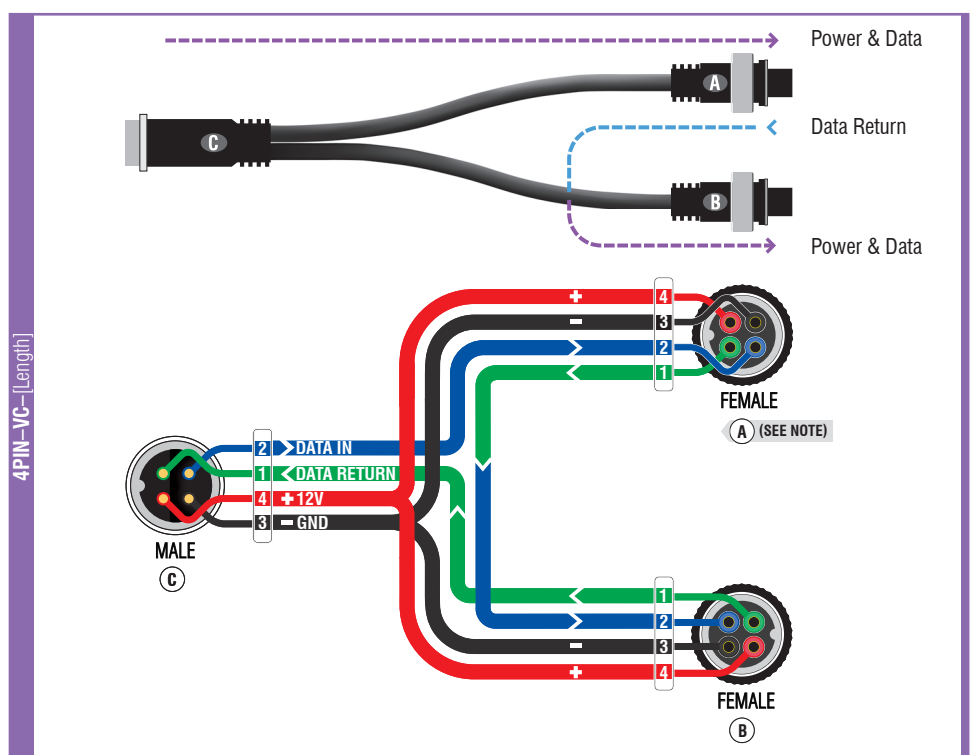
(see next page)

#### NOTE

The **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.



## Pixel360Uno Omnidirectional RGB LED Pixel

### 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

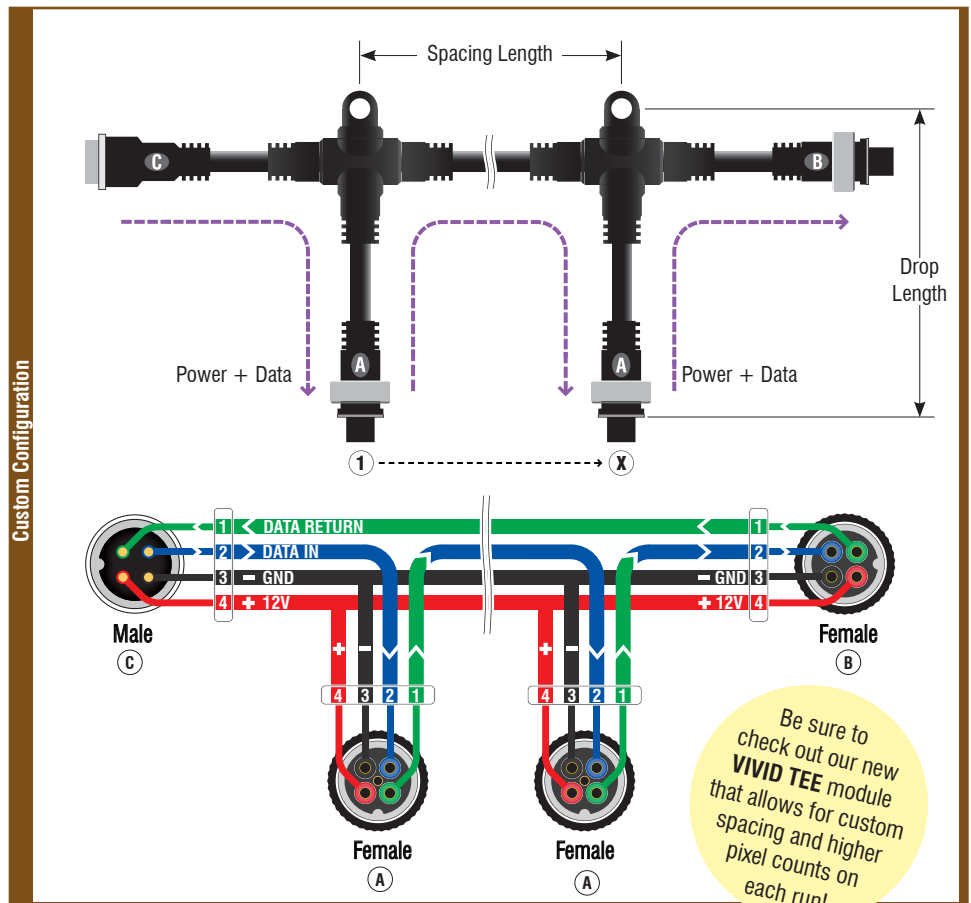
\*Custom lengths available.

#### NOTE

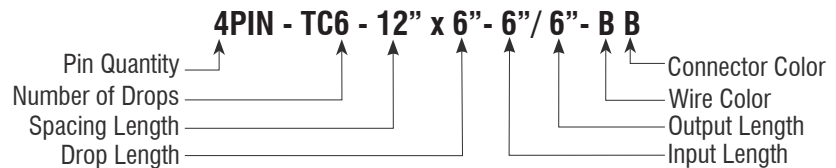
T-Connector cable stock changes frequently. Call to confirm availability.

#### NOTE

The all 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 "GX12" style 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.

