VIVID RGB LIGHTING

ORB60 RGB Globe Marquee Pixels

Key Features

- 360º Viewing Angle
- Full-Color RGB Pixels
- 6X Brightness
- 2.4” Globe (60mm) Diameter
- Matte or Glossy Finish
- Easy Installation and Maintenance
- Base with Mounting Holes
- Dust and Waterproof
- 24 Month Warranty
- ETL Listed RoHS Compliant

Many Applications

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

Further Reading

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

www.VividRGBlighting.com

Introducing ORB60

ORB60 from Vivid RGB Lighting allows full 360° viewing of 16 million super saturated colors in a beautiful 2.4” (60mm) diameter globe. Each **ORB60** is fitted with 6 powerful RGB LEDs and is sure to impress! Hang as a pendant or surface mount into a piece of scenery as a marquee type effect.

Truly a versitle ORB like no other!

The **ORB60** is offered in a standard glossy or customized matte finish. Paired with a multiple-output T-cable the **ORB60** offers numerous wiring options and design flexibility. Directly controllable from any DMX controller, up to 48 ORBS can be powered from a single feed.

Why limit your creativity?
Use the **ORB60** on your next project!

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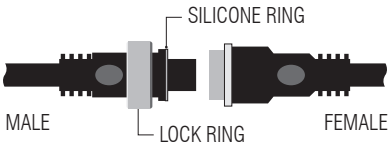
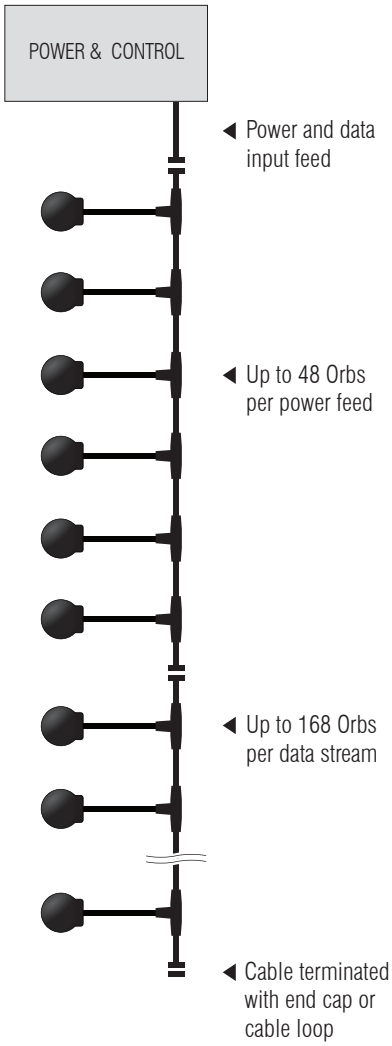
Connectors

6-PIN keyed aviation-style connector with weathertight lock ring



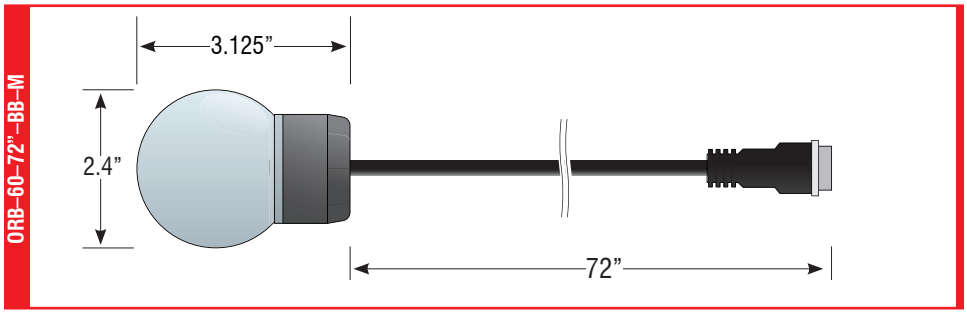
System Overview



Standard Configuration Part Order No. ORB60–72"–BB–G

Each **ORB60** consists of a glossy finished 2.4" globe with 6 RGB LEDs, a 72" black cable with integrated power and control and a 6-PIN male connector.

Each module is 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	1.50W / ORB
CONTROL	INTERFACE	1-Wire DMX512
	CONTROL SYSTEM	DSD, VPD, Color Mimic, or third-party controller
PHYSICAL	TEMPERATURE RANGES	-20ºC – 50ºC / -4ºF – 122ºF
	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: 100 orbs per configuration
Production Lead Time: 8 weeks after receipt of order

Custom options available for:

- Matte or Glossy finish
- Cable length
- Cable color—black, white, and clear
- T-Cable design
- Other options upon request, call for more information

Revised 07/09/2018

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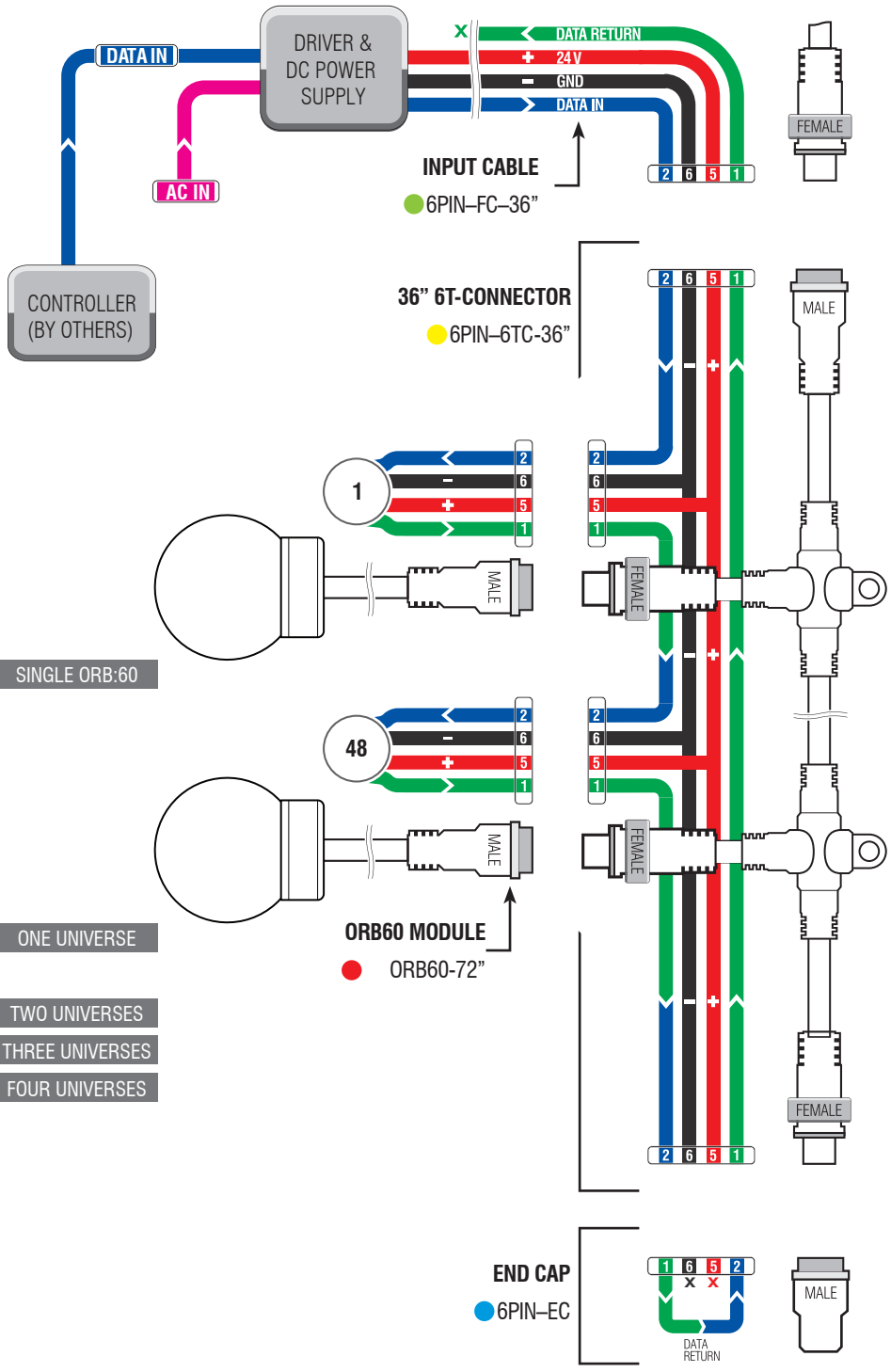
Typical Wiring Instructions

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.



ORB60 Power

- Use total watts to determine necessary power supply capacity.
- Maximum power draw is 1.50 W per pixel at 24 V DC.

ORB:100	AMPS @ 24V	TOTAL WATTS	
1	.065 A	1.50 W	SINGLE ORB:60
6	.375 A	9.0 W	
12	.750 A	18 W	
18	1.13 A	27 W	
24	1.50 A	36 W	
48	3.00 A	72 W	
96	6.00 A	144 W	
170	10.63 A	255 W	ONE UNIVERSE
340	21.25 A	510 W	TWO UNIVERSES
510	32.00 A	765 W	THREE UNIVERSES
680	42.50 A	1020 W	FOUR UNIVERSES

NOTES

Figures in this chart allow for **5%** headroom.
Typical per-pixel wattage is **1.42 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.

System Accessories
& Part Numbers

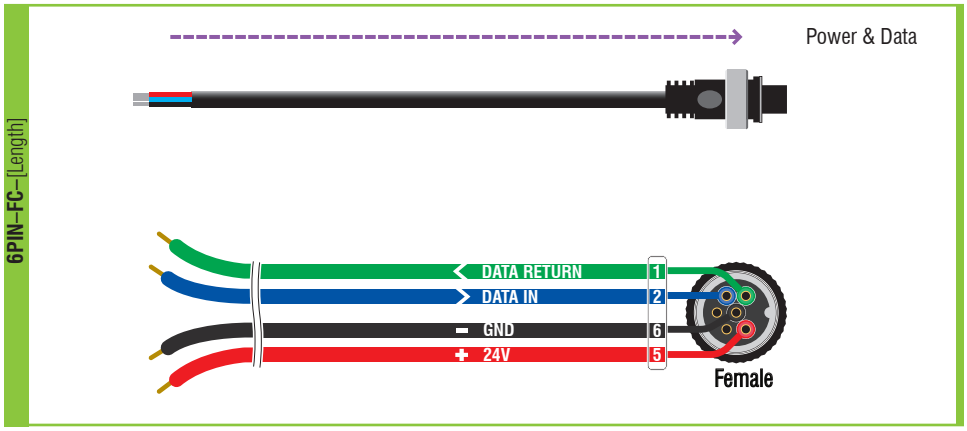
Vivid RGB Lighting's **24-Volt** system is compatible with our **6-PIN** accessory cables and products. Please contact customer support with product compatibility concerns.

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

Stock:

6PIN–FC–36"

*Custom lengths available.



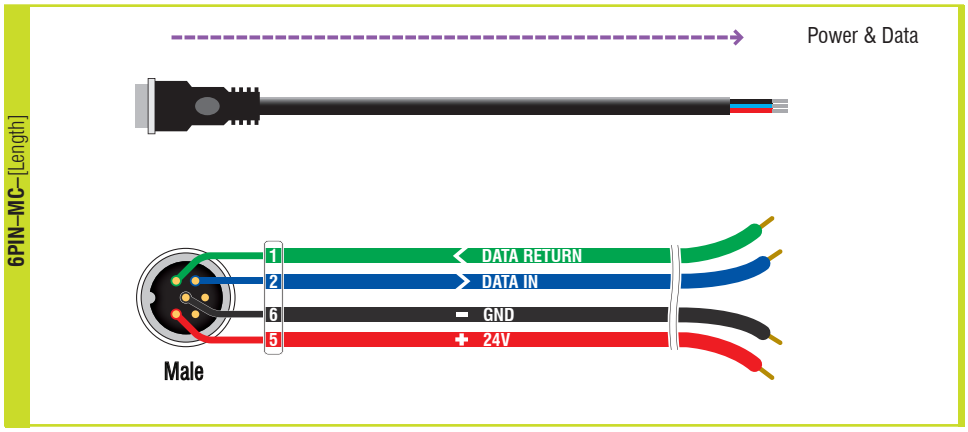
NOTES
1. Numbers refer to labeled pins in connectors.
2. Not all pins are connected

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

Stock:

6PIN–MC–36"

*Custom lengths available.

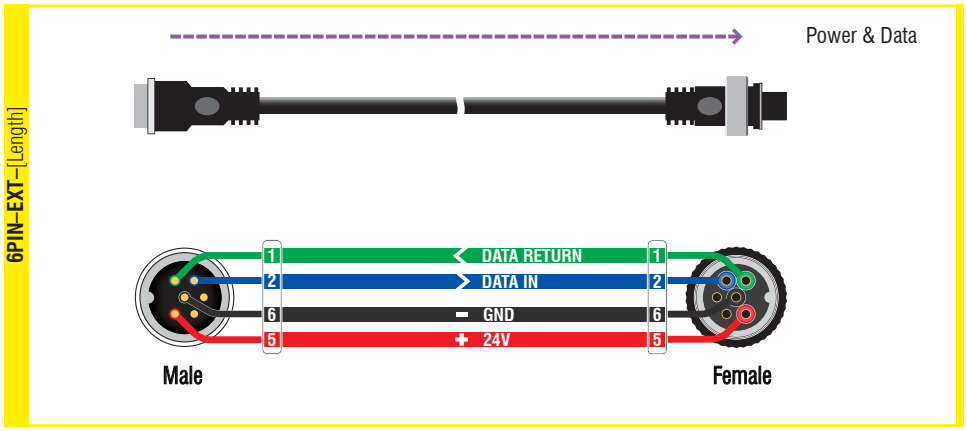


Extension Cables
Through extension of all pins.

Stock:

6PIN–EXT–60" **(5 feet)**
6PIN–EXT–120" **(10 feet)**
6PIN–EXT–300" **(25 feet)**

*Custom lengths available.



***Custom / Build-to-Order**
All cables and accessories may be custom designed for your project.

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.

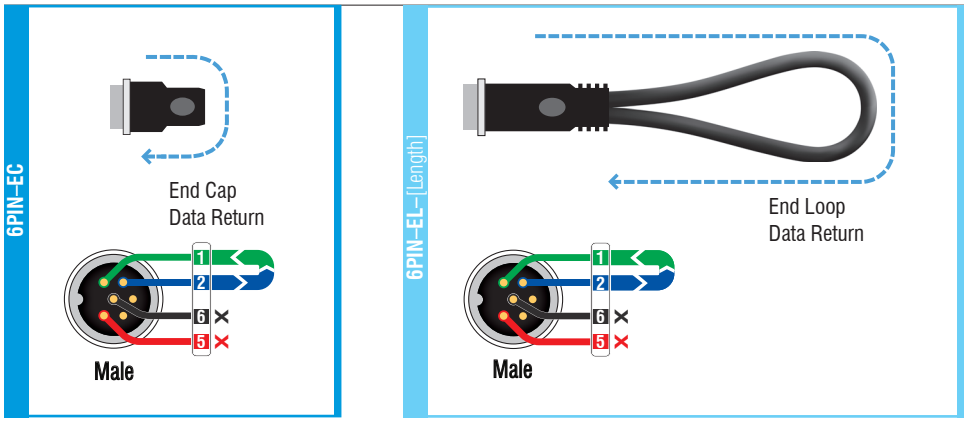
Stock:

6PIN–EC

*End Loops available on special order.

NOTE

CHIP6 Strings are not wired for Data Return.



Mid-Feed Power Input

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

Stock:

6PIN–MF–12”

*Custom lengths available.

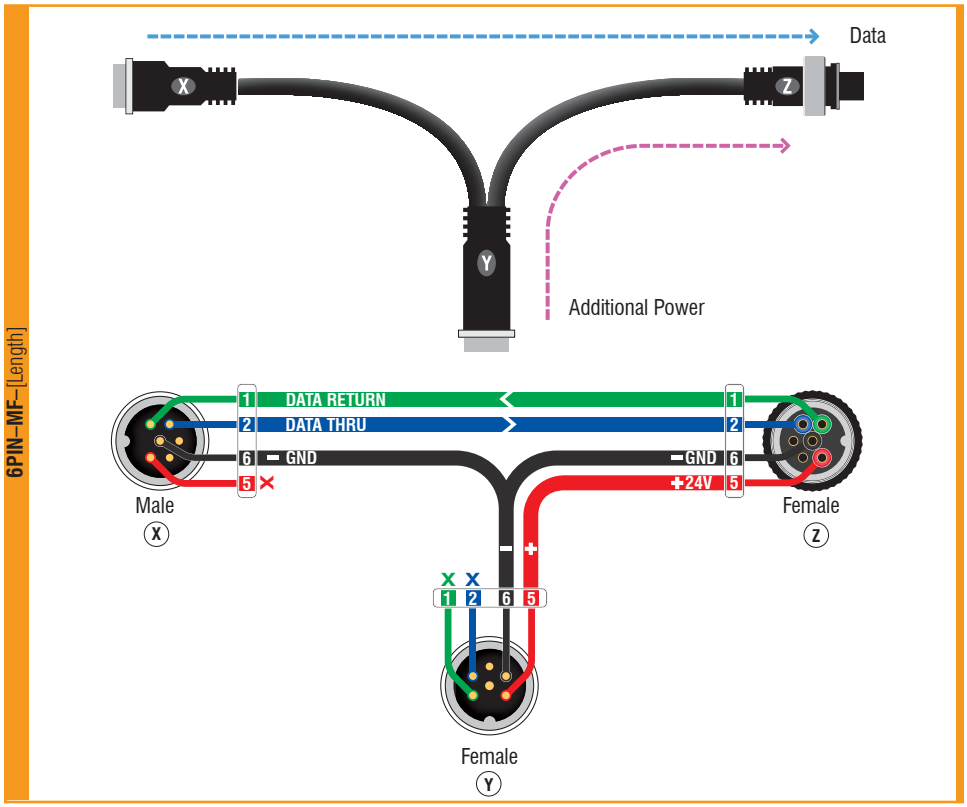
X: Data input from previous string

Y: Additional power input

Z: Power and data output to next string(s)

NOTES

1. Numbers refer to labeled pins in connectors.
2. Some pins are not connected



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.

V-Cables

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

Stock:

6PIN–VC–18”

*Custom lengths available.

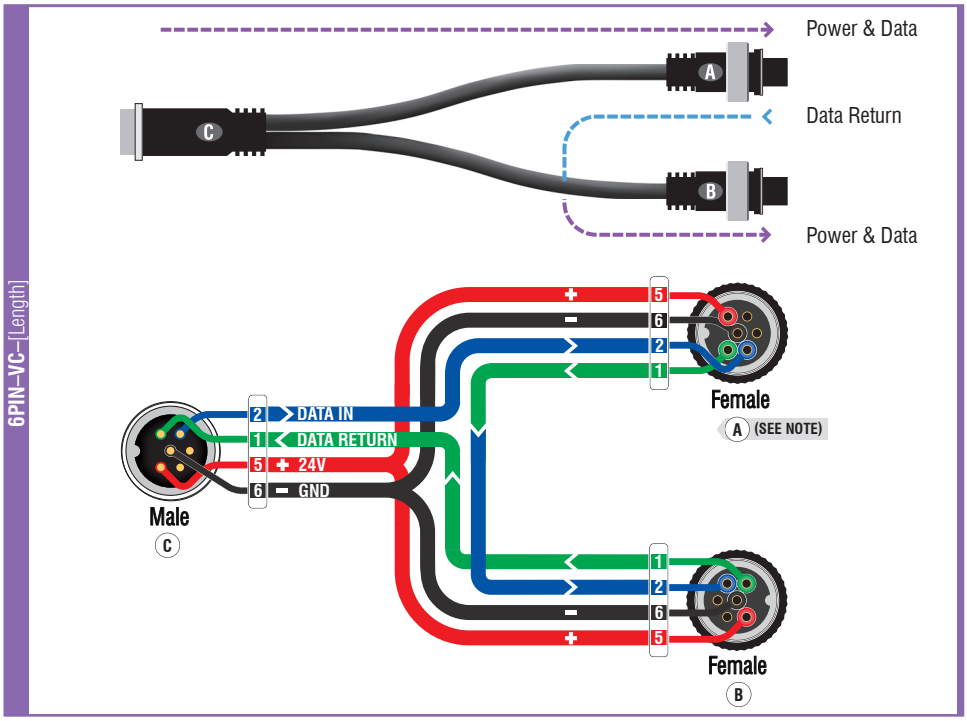
A: Output to first string sequence **(SEE NOTE)**
B: Output to second string sequence
C: Power and data input

NOTE

The last string of the **A** output of the V-Cable *must* have an end cap (**6PIN–EC** or **6PIN–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**.

NOTES

1. Numbers refer to labeled pins in connectors.
2. Some pins are not connected



T-Cable

Allows for power and data to be sent to each module.

Stock:

6PIN–TC1–6” x 6”/6” - BB

*Custom lengths available.

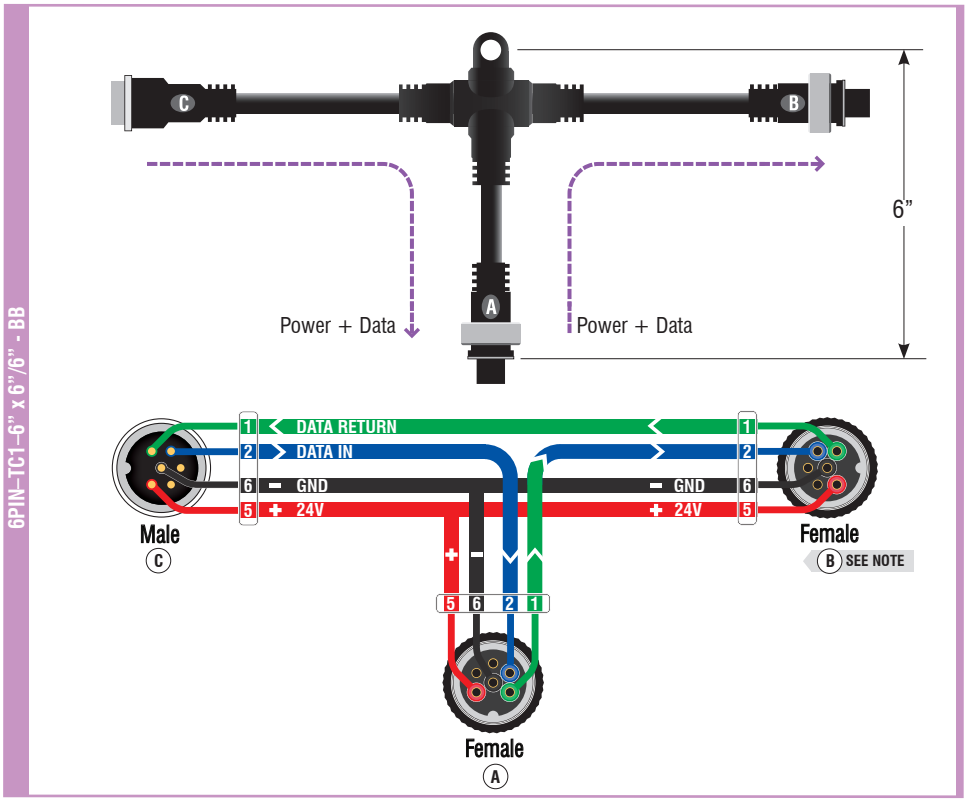
A: Output to first string sequence **(SEE NOTE)**
B: Output to second string sequence
C: Power and data input

NOTE

The last string of the **A** output of the T-Cable must have an end cap **(6PIN–EC or 6PIN–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.**

NOTES

1. Numbers refer to labeled pins in connectors.
2. Some pins are not connected



***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.

Custom:

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

NOTE

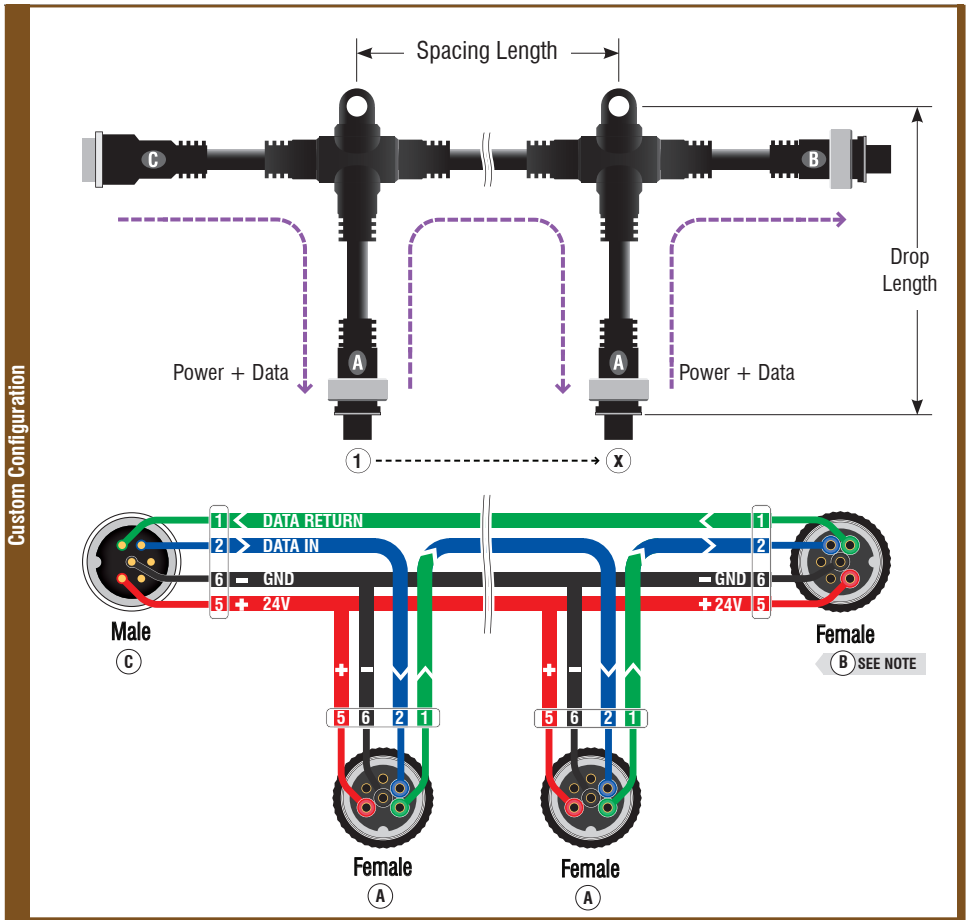
T-Connector cable stock changes frequently. Call to confirm availability.

NOTE

All strings on the **A** outputs of the T-Cable must have an end caps **(6PIN–EC or 6PIN–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.**

***Custom / Build-to-Order**

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



T-Cable Example Code:

6PIN - TC6 - 12" x 6"- 6"/ 6"- B B

- Pin Quantity
- Number of Drops
- Spacing Length
- Drop Length
- Connector Color
- Wire Color
- Output Length
- Input Length

Important

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

Revised 07/09/2018