VIVID RGB LIGHTING

ORB:100 RGB Sphere

Key Features

- 360º Viewing Angle
- Matte or Glossy Finish
- Full-color RGB pixels
- 4” Ball Diameter
- Dust- and waterproof
- Built to CE, UL, ETL and RoHS Standards
- 24 month warranty
- Easy Installation and Maintenance

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

Introducing ORB:100

ORB:100 from Vivid RGB Lighting allows full 360° viewing of 16 million super saturated colors in a beautiful 4” diameter globe. Each ORB:100 is fitted with 6 powerful RGB LEDS and is sure to amaze! Used individually or in groups, the ORB:100 will enhance any project.

It truly is an ORB like no other!

The ORB:100 is offered in a matte or glossy finish. Paired with a 6-output T-cable the ORB:100 offers multiple cabling 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 eye catching ORB:100 on your next project!

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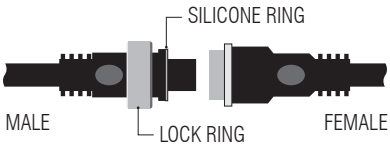
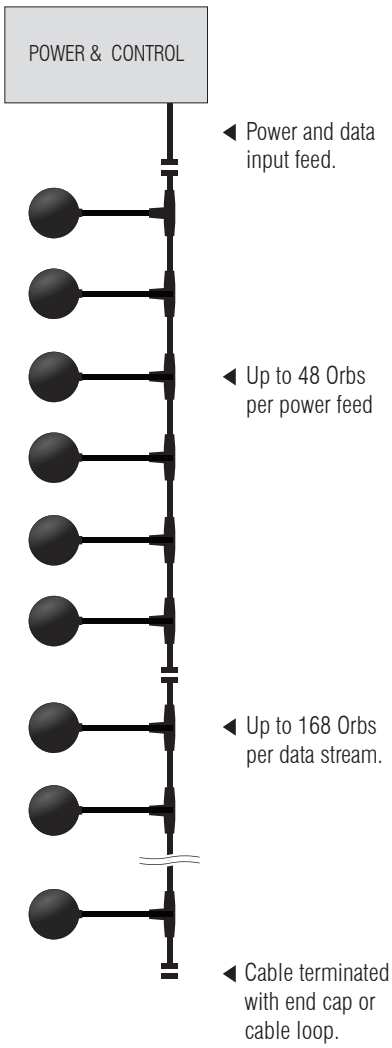
Connectors

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



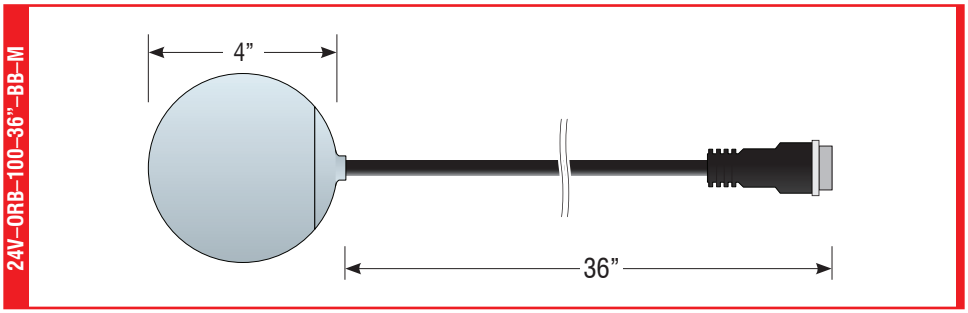
System Overview



Standard Configuration Part Order No. ORB–100–36”–BB–M

Each module consists of a matte finished 4” globe with 6 RGB LEDs, a 36” flexible black cable with integrated power and control, terminated in 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	Full range of controllers available, or third-party DMX controller
PHYSICAL	TEMPERATURE RANGES	-20ºC – 50ºC / -4ºF – 122ºF
	HUMIDITY	Any
SAFETY	ENVIRONMENT	Dry, damp, wet locations; IP66

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

Build-to-Order Configurations

Minimum Order Quantity: 20 orbs per configuration
Production Lead Time: 8 weeks after receipt of order

Custom options:

- Matte or Glossy finish
- Cable length & color—black, white, and clear.
- Rigid stem mounting
- Alternate cable configurations
- Other designs upon request, call for more information.

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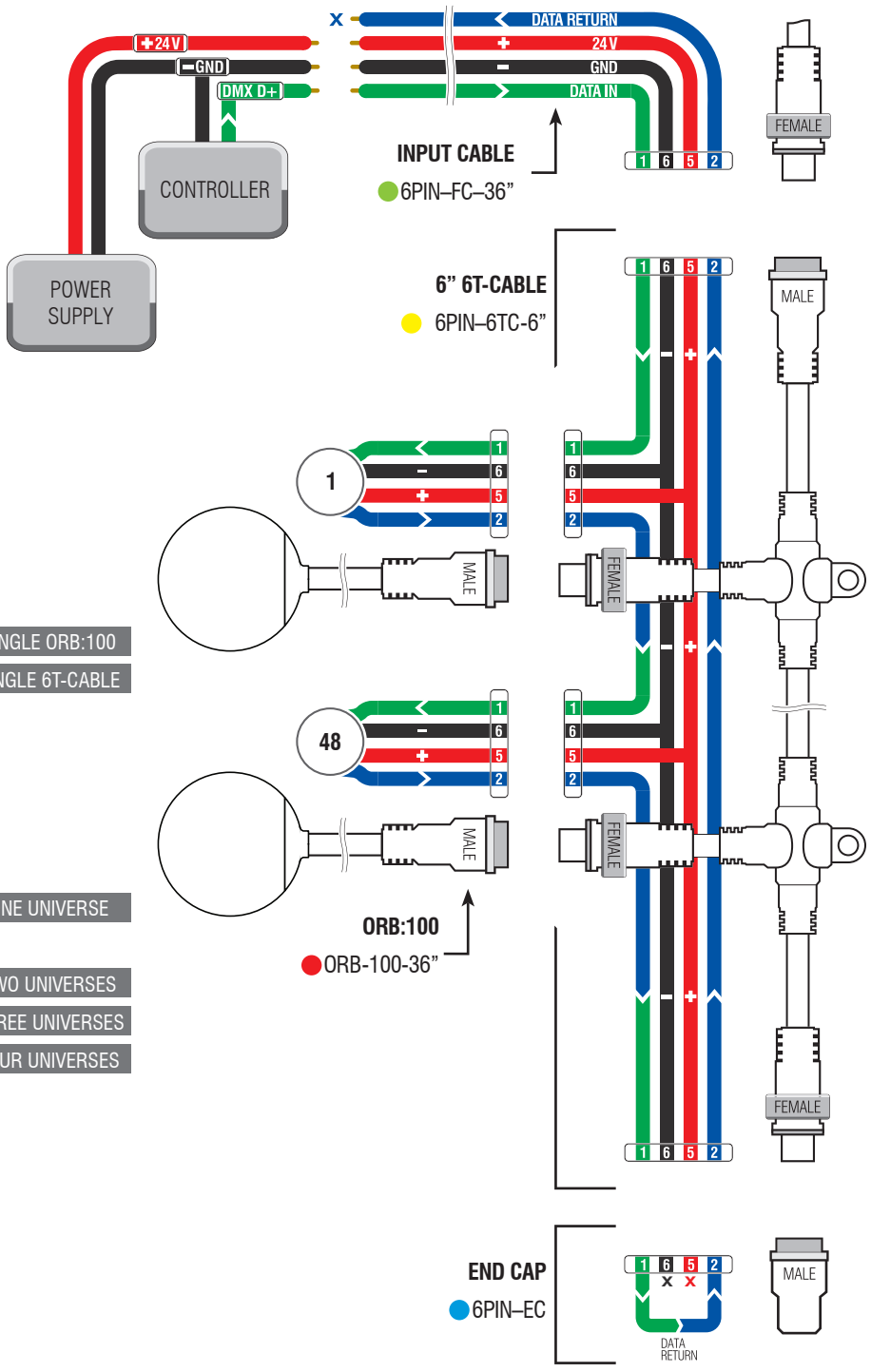
Typical Wiring Instructions

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.



ORB:100 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:100
6	.375 A	9.0 W	SINGLE 6T-CABLE
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	
168	10.50 A	250 W	ONE UNIVERSE
336	17.40 A	500 W	TWO UNIVERSES
504	26.20 A	750 W	THREE UNIVERSES
672	35.20 A	1000 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.

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System Accessories
& Part Numbers

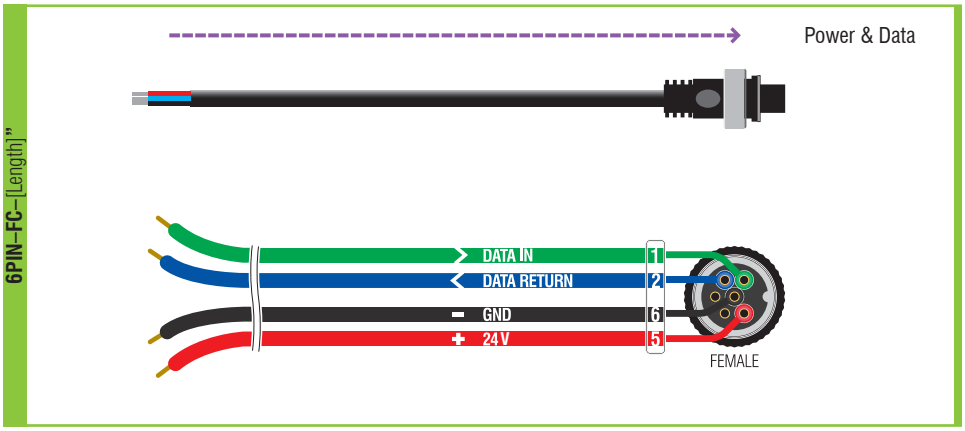
ORB:100 is a **24-Volt** system, compatible with **6-pin** accessory cables and products.
Please contact customer support with product compatibility concerns.

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

Stock:

6PIN–FC–36”

Custom lengths available.

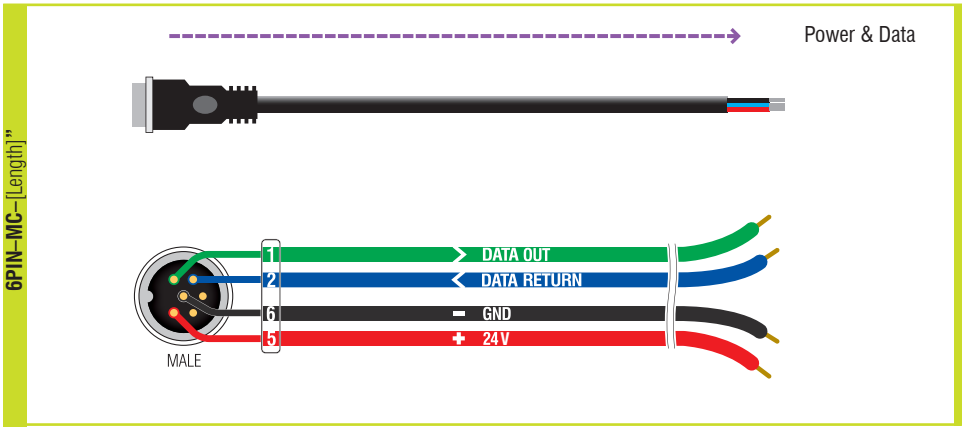


System Output Cable
Male end connects to end of strings, bare ends provide data and power output from system.

Stock:

6PIN–MC–36”

Custom lengths available.



Extension Cables
Through extension of all pins.

Stock:

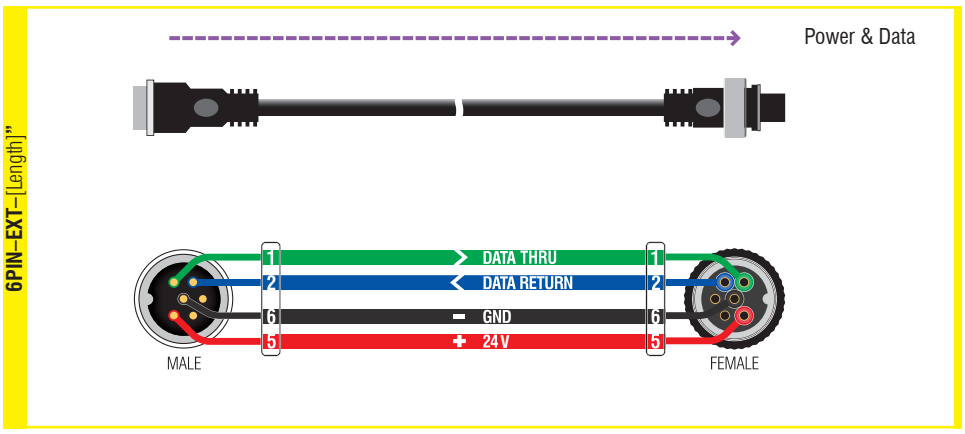
6PIN–EXT–60”

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. Some pins are not connected

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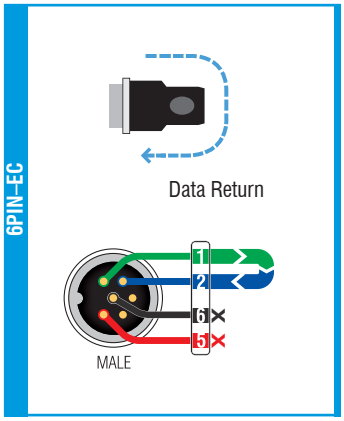
End Caps

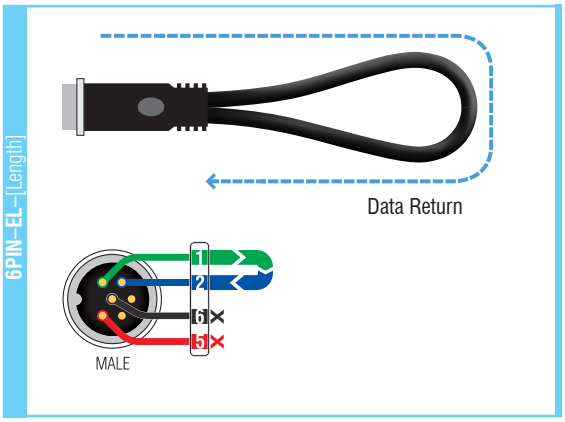
Seals cable end with a water tight termination and returns data stream to beginning of string.
Available in simple cap or cable loop for easy hanging.

Stock:

6PIN–EC

End Loops available on special order.





Mid-Feed Power Input

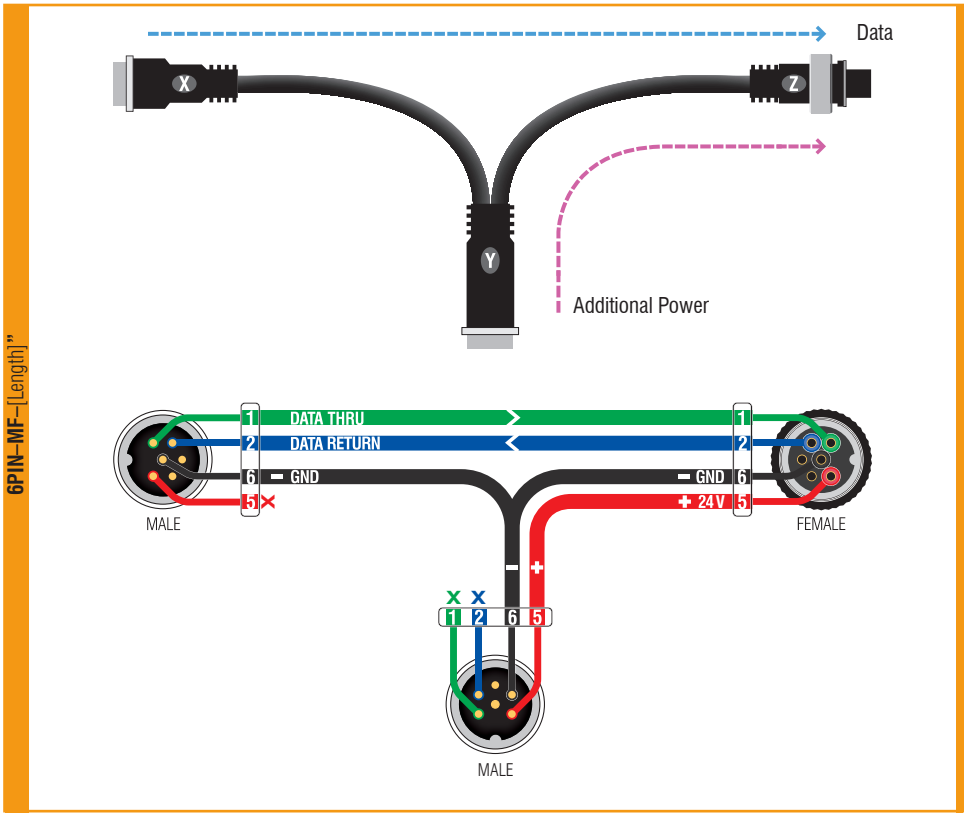
Allows for power to be input between strings on same data stream.

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

V-Cables

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

Stock:

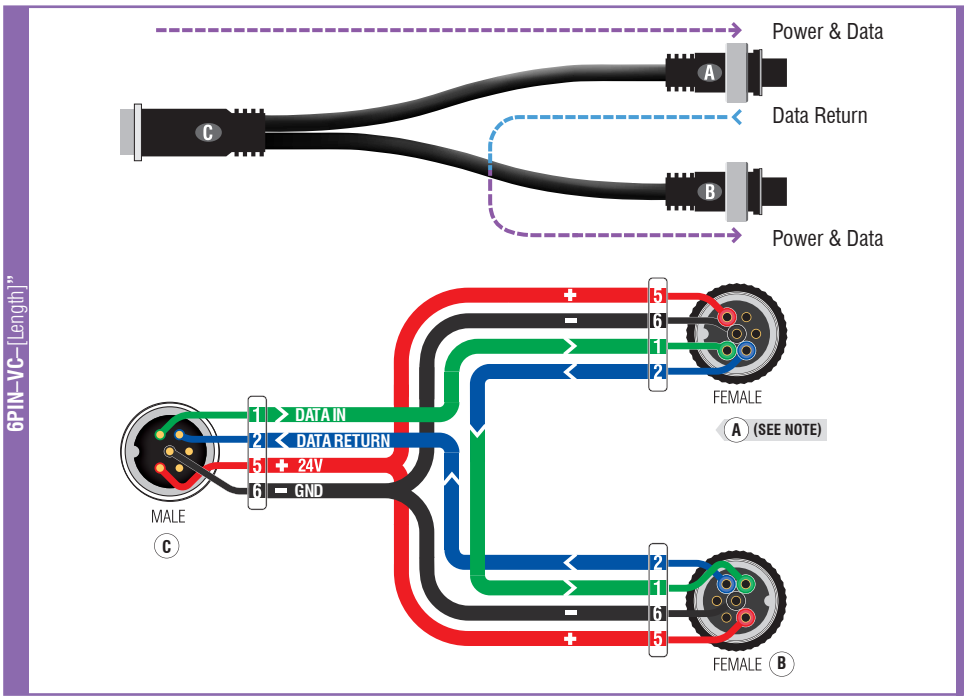
6PIN–VC–18”

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**.



T-Cable

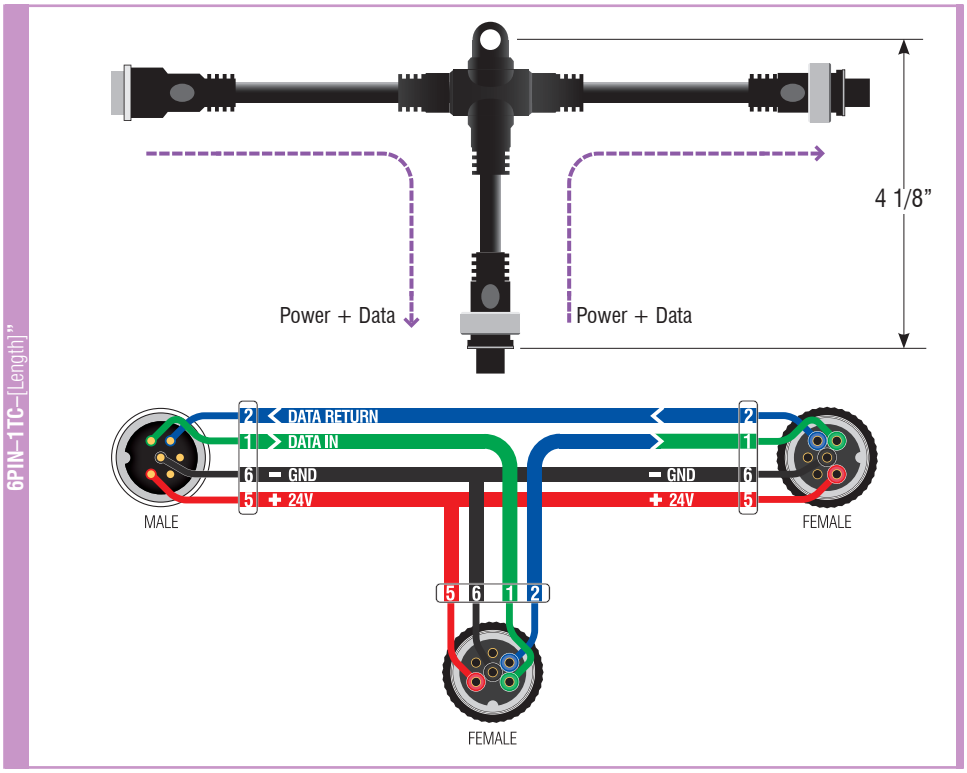
Allows for power and data to be sent to each module.

Stock:

6PIN–1TC–6” *

Custom lengths available.

*Shipping November 2013



NOTES

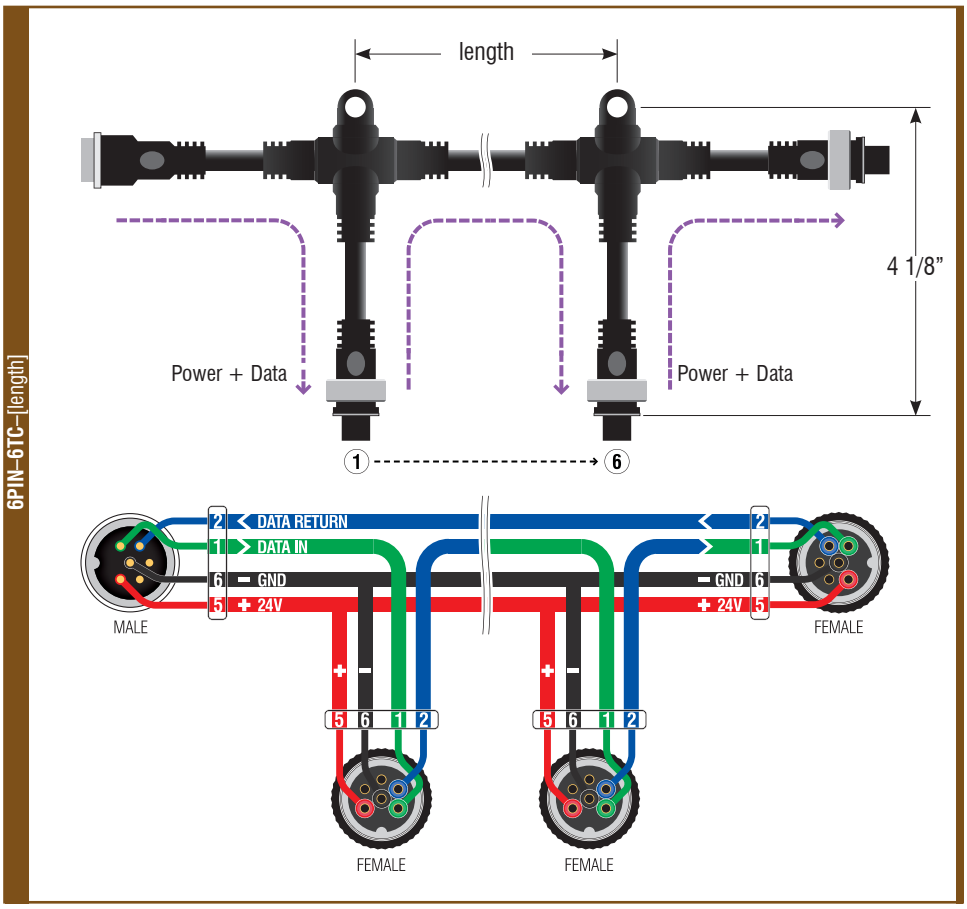
1. Numbers refer to labeled pins in connectors.
2. Not all pins are connected

T-Cable
Allows for power and data to be sent to each module.

Stock:

6PIN–6TC–6”

Custom lengths and number of outputs available.



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.**