

Key Features



Double Sided Lighting



Translucent Polycarbonate Tube



Encased Electronics



Thin Housing



Full-color RGB pixels



Dust and Waterproof



24 Month Warranty

RoHS Certified and Built to CE, UL, ETL Standards

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
- Dynamic Icicle Lighting

Further Reading

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

www.VividRGBlighting.com

TUBO Rigid RGB Pixel Tube



Introducing Tubo

TUBO is a sleek performer, featuring full 360° visibility of 16 double-sided individually addressable RGB pixels. Our standard meter length has 32 surface mounted LEDs packed into each crystal clear tube. **TUBO** is ready to rocket colors across your next project. Hang them in formation for an instant double-sided screen or randomly for dynamic full color effects. Mount them at any angle and in any pattern to create completely new displays.

Fortified against the elements, **TUBO** is set to sparkle indoors or out and at less than 3/4" in diameter, it virtually disappears. Also available in .5 meter and 1.5 meter lengths.

More than just pretty pole, Tubo is ready to add sparkle to your next event!



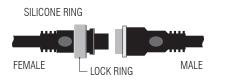


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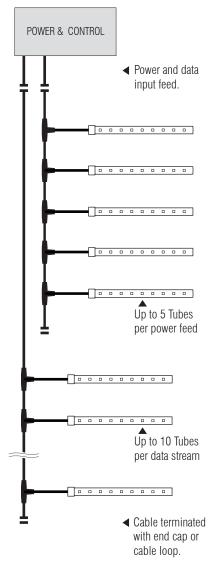


Connectors

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



System Overview



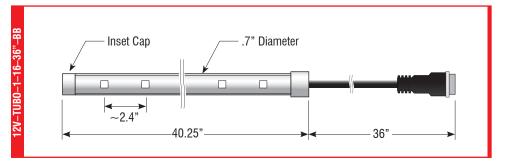
TUBO Rigid RGB Pixel Tube

Standard Configuration Part Order No. TUB0-1-16-36"-BB

Each module consists of a .7" diameter tube, 40.25" long with 16 pairs of RGB LEDs. A 36" black cable with integrated power and control terminated with a 4-pin connector.

Use with T-Connector cables.

Crystal clear polycarbonate housing, sealed for maximum fixture life and IP66 rated for



Technical Specifications*

OUTPUT	LUMEN MAINTENANCE	50,000+ hours
	LED CHANNELS	Red, Green, & Blue
	GRAYSCALE	256, 8-bit
ELECTRICAL	INPUT VOLTAGE	12V DC
	POWER	8.00W / Tube
CONTROL	INTERFACE	1-Wire DMX512 - 170 Pixels
	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

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

Build-to-Order Configurations

Minimum Order Quantity: Production Lead Time:

20 tubes per configuration 8 weeks after receipt of order

Custom options:

- Tube length 1/2m, 1m, 1.5m
- · Pixel spacing / density
- · Cable length
- Cable color-black, white, and clear.
- Other options 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.

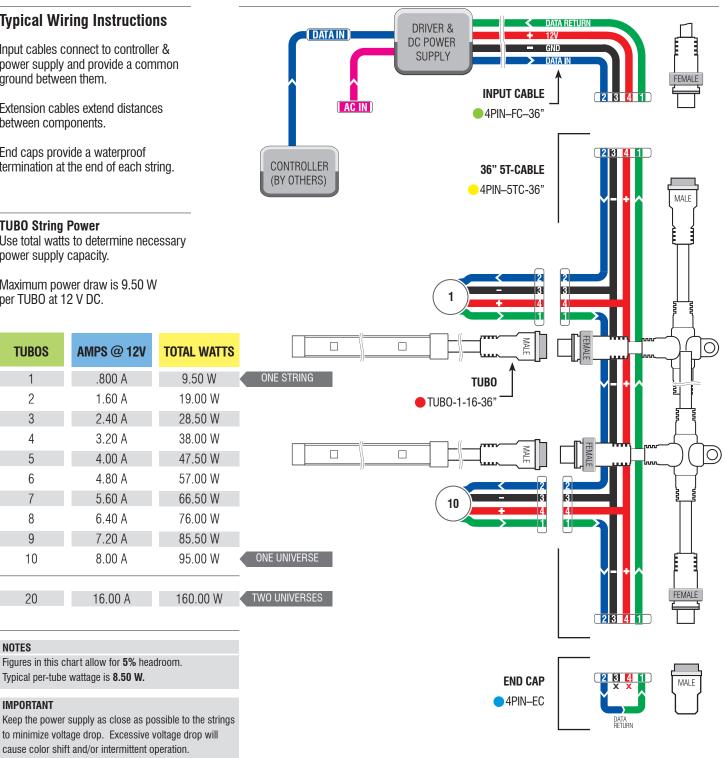
TUBO String Power

Use total watts to determine necessary power supply capacity.

Maximum power draw is 9.50 W per TUBO at 12 V DC.

	TUBOS	AMPS @ 12V	TOTAL WATTS	
	1	.800 A	9.50 W	ONE
	2	1.60 A	19.00 W	
	3	2.40 A	28.50 W	
	4	3.20 A	38.00 W	
	5	4.00 A	47.50 W	
	6	4.80 A	57.00 W	
	7	5.60 A	66.50 W	
	8	6.40 A	76.00 W	
	9	7.20 A	85.50 W	
	10	8.00 A	95.00 W	ONE
-				-
	20	16.00 A	160.00 W	TWO

TUBO Rigid RGB Pixel Tube





to minimize voltage drop. Excessive voltage drop will cause color shift and/or intermittent operation.

Figures in this chart allow for 5% headroom. Typical per-tube wattage is 8.50 W.

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NOTES

IMPORTANT

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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.

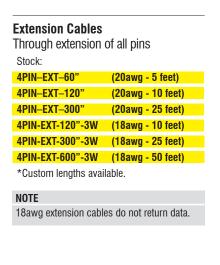
System Output Cable

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

Stock:

4PIN-MC-36"

*Custom lengths available.



*Custom / Build-to-Order

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

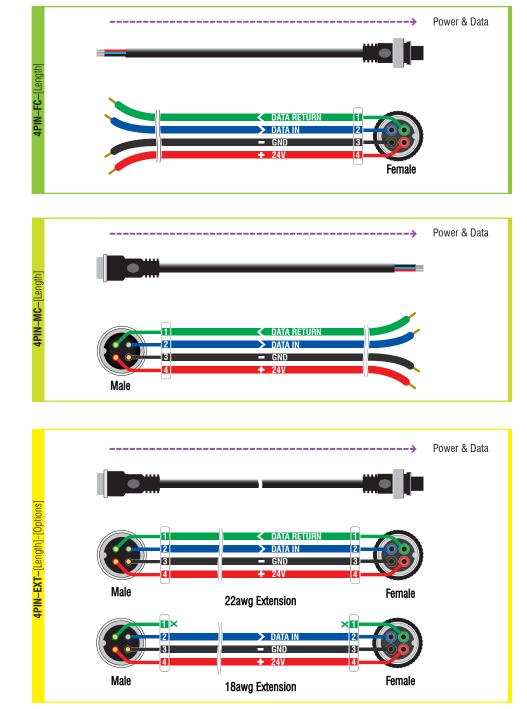
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TUBO Rigid RGB Pixel Tube

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





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.

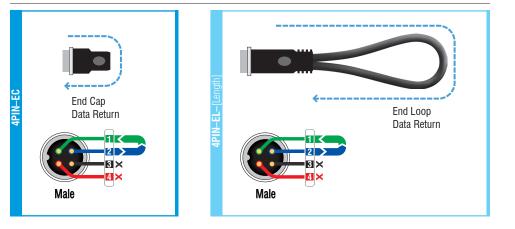
Stock:

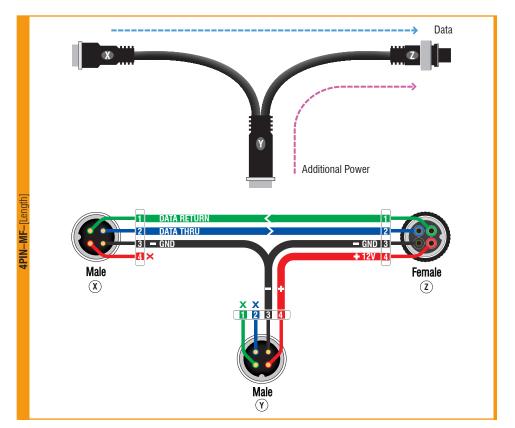
4PIN-EC

4PIN-EL-5"

*Custom lengths available.

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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





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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.

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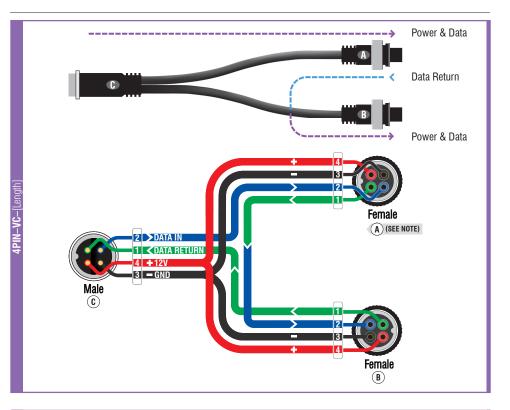


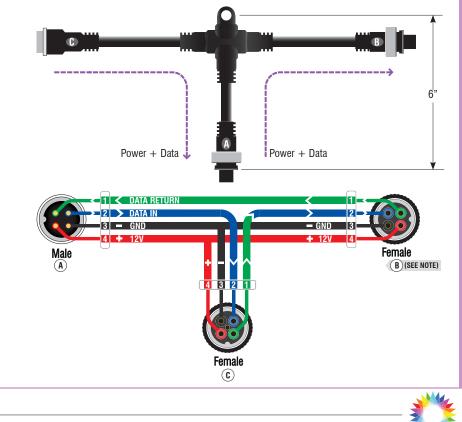
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T-Connector Cable

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

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4PIN-TC3-24" x 6"- 12"/12"- BB
4PIN-TC5-6" x 6"- 12"/12"- BB
4FIN-ICJ-0 X 0 - 12 / 12 - DD
4PIN–TC5–12" x 6"- 6"/6"- BB
4PIN–TC6–10" x 6"- 5"/5"- BB
*Custom lengths available.

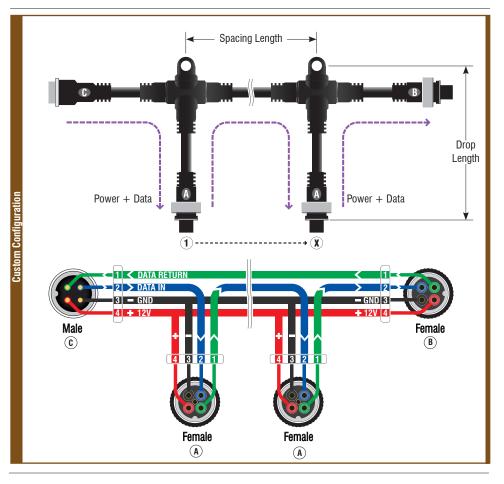
NOTE

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

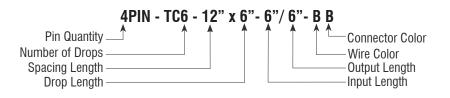
NOTE

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**.

TUBO Rigid RGB Pixel Tube



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

