VIVID RGB LIGHTING

Pixy Inline Compact RGB Pixel

Key Features

- Wide-Angle Viewing
- Fully Overmolded Electronics
- Easy Installation and Maintenance
- Full-color RGB pixels
- Dust- and Waterproof
- 24 Month Warranty
- ETL Listed RoHS Compliant

Many Applications

- Light Shows
- Large-Scale Video Installations
- Signage
- Trade Shows
- Retail Interiors
- Concerts and Events
- Decorative Elements
- Architectural Accents
- Parade Floats

Further Reading

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

www.VividRGBlighting.com

Presenting Pixy

Our little **Pixy** LED pixel from Vivid RGB Lighting is a versatile, cost-effective RGB media solution. **Pixy** packs 8-bit color technology into a compact, all-weather, easy-to-install package. Engineered for quick installation, **Pixy** pixels are a great way to add high-impact RGB animation to your event, retail space, or any lighting system.

We've designed Pixy from the ground up, combining the latest in LED technology with our hands-on end-user experience...You asked, we responded.

Pixy strings are available with standard 6-inch on-center pixel spacing, and have many options for project-specific customizations. Put **Pixy** to work in your next project!

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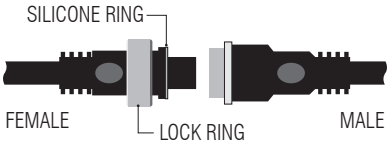
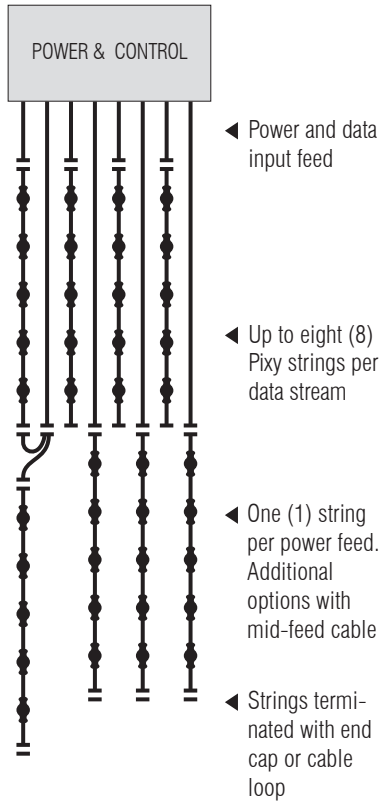
Connectors

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



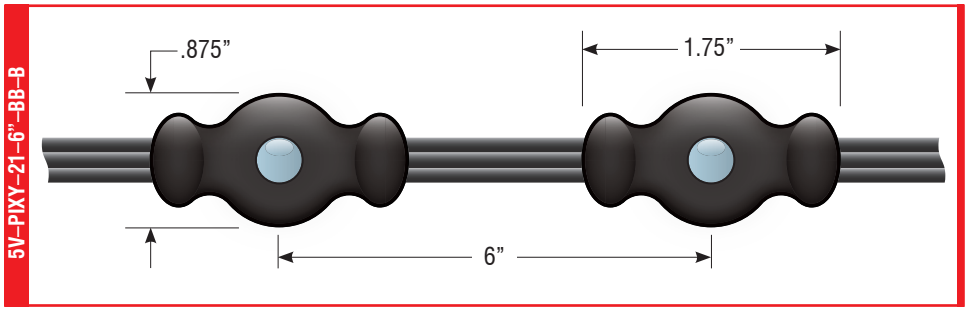
System Overview



Standard Configurations Part No. PIXY–21–6”–BB–B

Each each string of LED pixels are inline on a flat cable with integrated power and control. A 10’–6” (3.2m) string of 21 pixels with 6” on-center spacing is available as a standard configuration.

Low-gloss black housing with raised 8mm LED, fully sealed for maximum fixture life and IP66 rated for outdoor applications.



Technical Specifications*

OUTPUT	LUMEN MAINTENANCE	25,000+ hours
	LED CHANNELS	Red, Green, Blue
	GRAYSCALE	256, 8-bit
ELECTRICAL	INPUT VOLTAGE	5V DC
	POWER	0.3 W / pixel
CONTROL	INTERFACE	1-wire 1804 Fast Bus
	CONTROL SYSTEM	DSD, VPD, Color Mimic, or compatible third-party Pixel Driver
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: 200 pixels per configuration
Production Lead Time: 8 weeks after receipt of order

Custom options available for:

- Pixel count per string, specific to your design
- Pixel spacing along cable
- Black or white housing
- Cable color (black or white) and length

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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.

Pixy String Power

- Use total watts to determine necessary power supply capacity.
- Maximum power draw is 0.3 W per pixel at 5 V DC.

STRINGS	AMPS @ 5V	TOTAL WATTS	
1	1.40 A	7.00 W	ONE STRING
2	2.80 A	14.00 W	TWO STRINGS
3	4.20 A	21.00 W	
4	5.60 A	28.00 W	
5	7.00 A	35.00 W	
6	8.40 A	42.00 W	
7	9.80 A	49.00 W	
8	11.20 A	56.00 W	ONE UNIVERSE
16	22.40 A	112.00 W	TWO UNIVERSES
24	33.60 A	168.00 W	THREE UNIVERSES
32	44.80 A	224.00 W	FOUR UNIVERSES

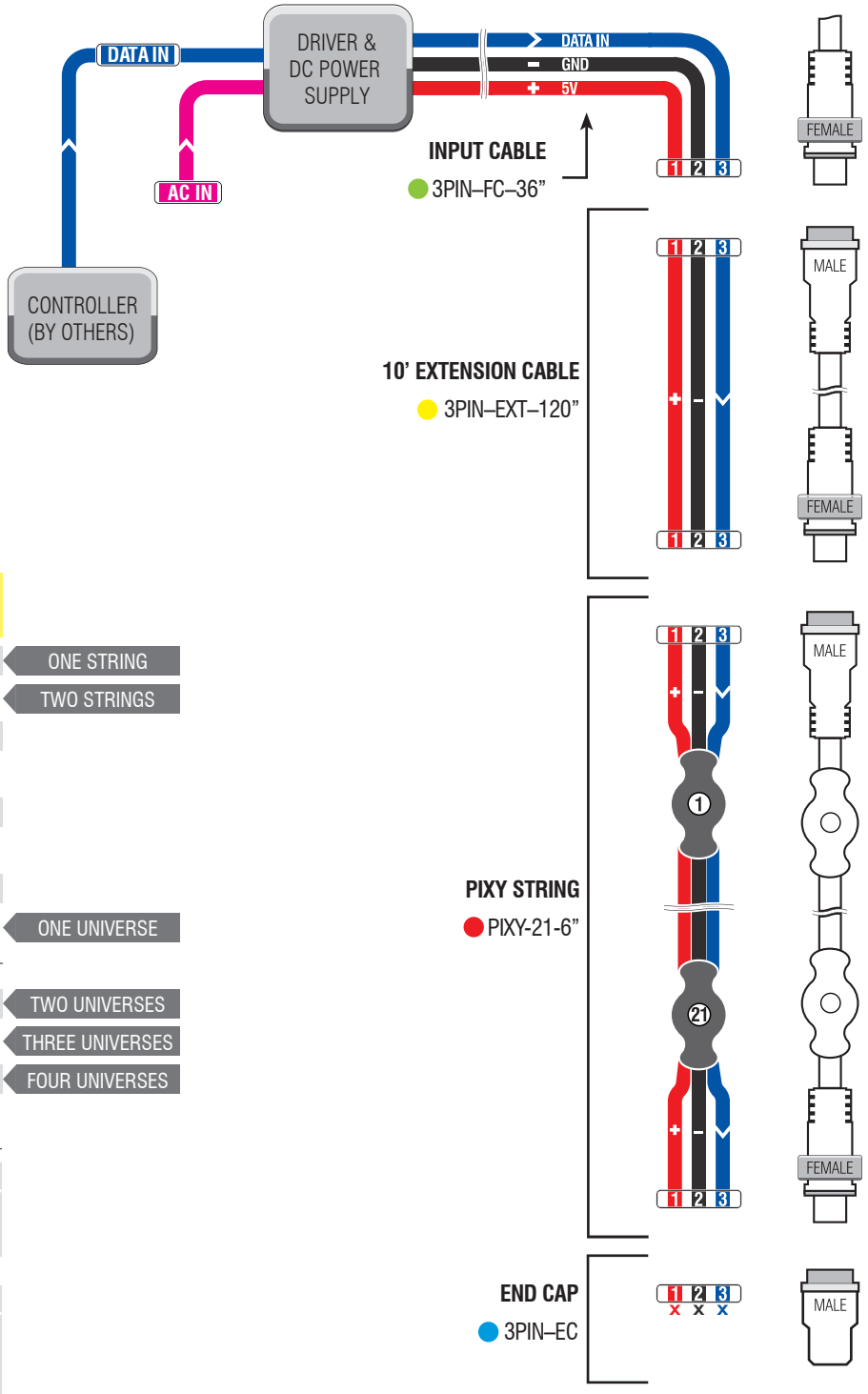
NOTES

Figures in this chart allow for **5%** headroom.
Typical per-pixel wattage is **0.3 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.



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Installation Guide

Cable Ties

Pixy is designed for quick and easy installation by securing each pixel to standard tube or rod with cable ties, which fit securely between the pixel body and integrated wings.

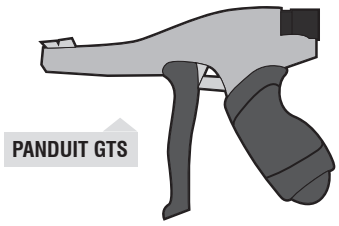
Ties less than 0.18 inches wide are recommended, typically those rated for loads between 18 and 50lbs.

Pixel Spacing

Distance between pixels can be field-customized by folding the inline cable onto itself.

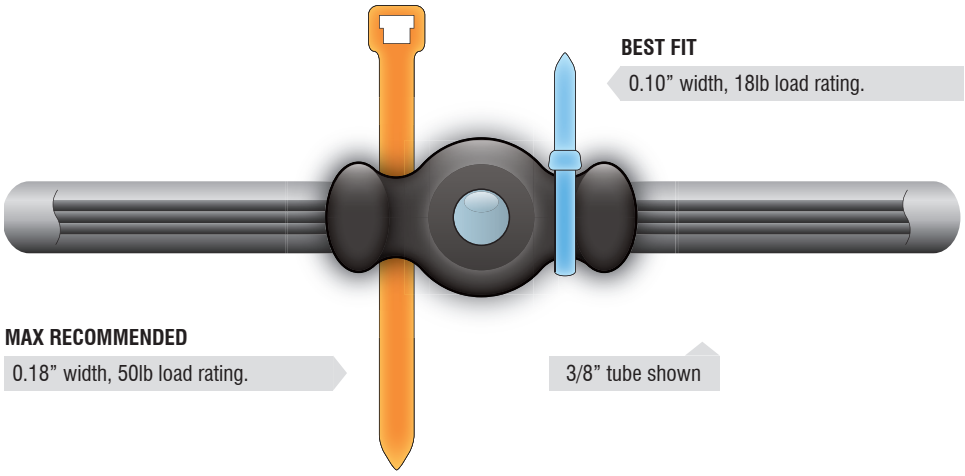
Recommended Tool

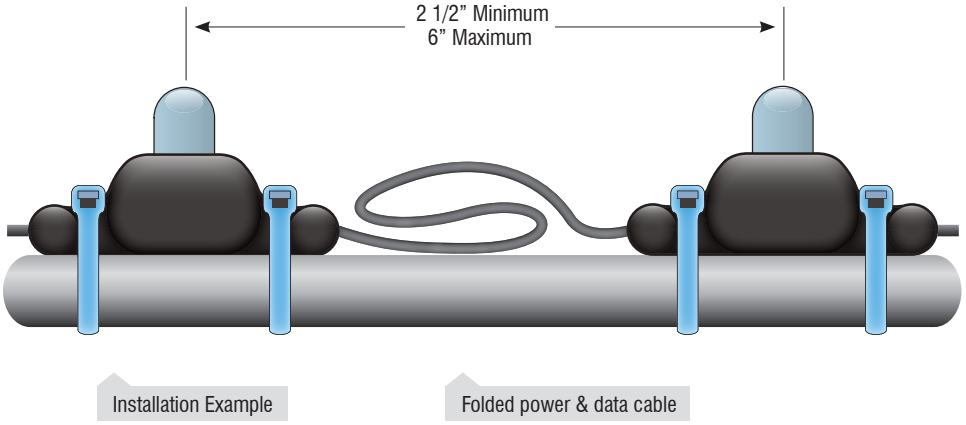
For larger installations, we recommend use of a cable tie installation tool with adjustable tension and cut-off.

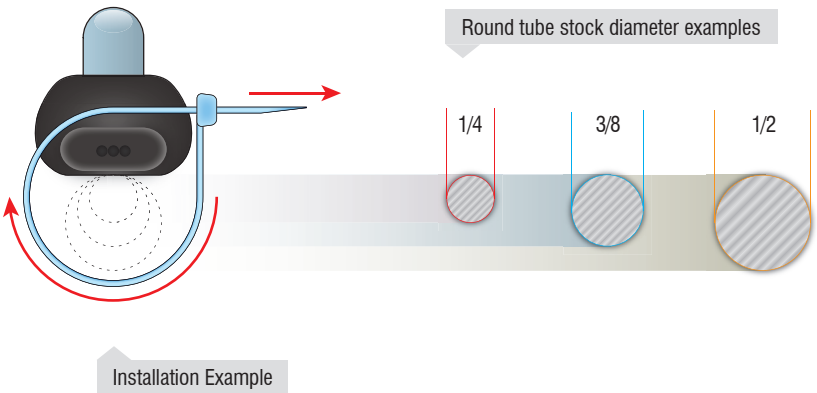


PANDUIT GTS

1:1 Scale Illustrations







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System Accessories
& Part Numbers

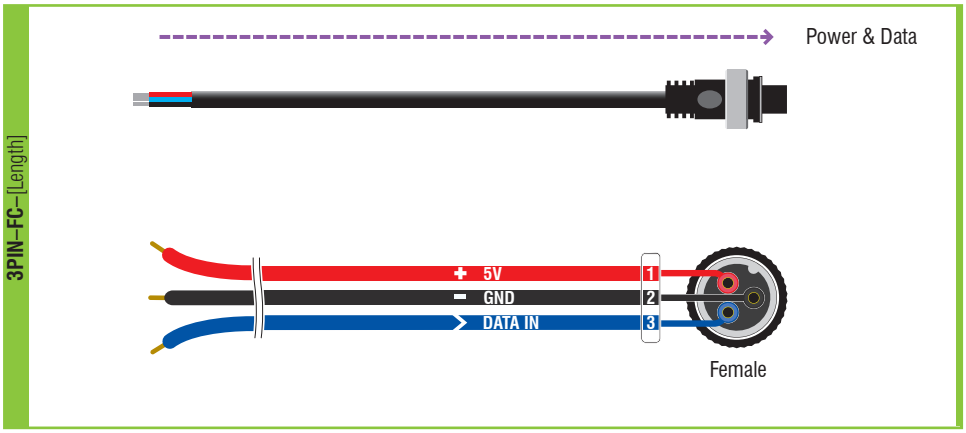
Vivid RGB Lighting's **5-Volt** products use our **3-PIN** accessory cables and products.
Please contact customer support with product compatibility concerns.

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

Stock:

3PIN–FC–36"

*Custom lengths available.



NOTES

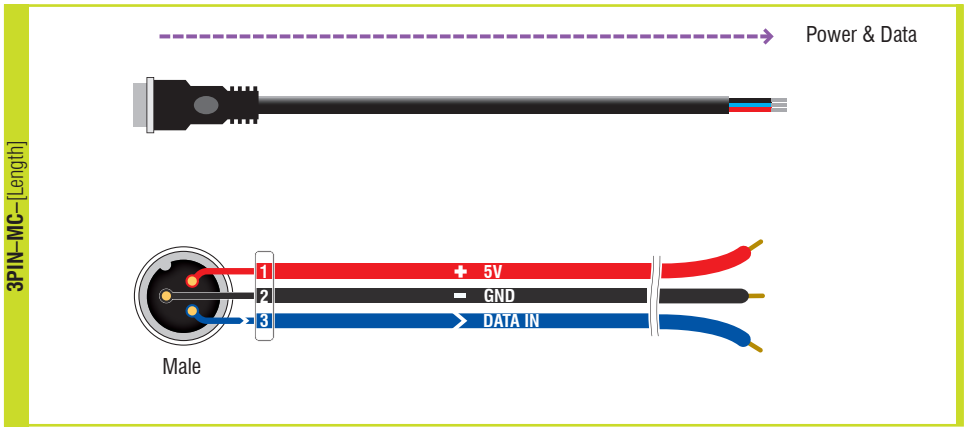
Numbers refer to labeled pins in connectors.

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

Stock:

3PIN–MC–36"

*Custom lengths available.



Extension Cables
Through extension of all pins.

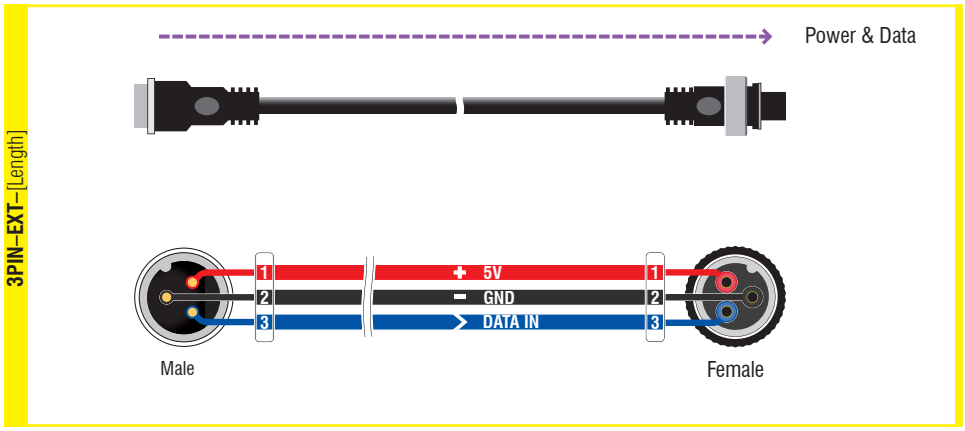
Stock:

3PIN–EXT–60" (5 feet)

3PIN–EXT–120" (10 feet)

3PIN–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 waterproof cap or hanging loop.

Stock:

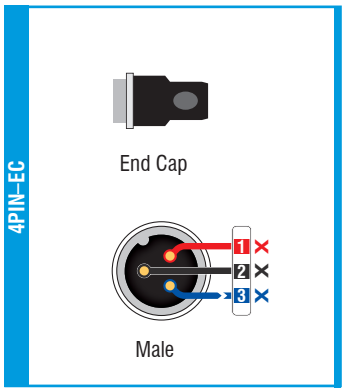
3PIN–EC

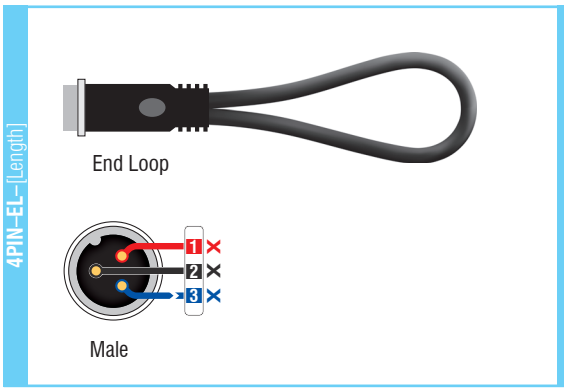
3PIN–EL–5”

*Custom loop lengths available.

NOTES

5 volt products do not incorporate a data return





Mid-Feed Power Input

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

Stock:

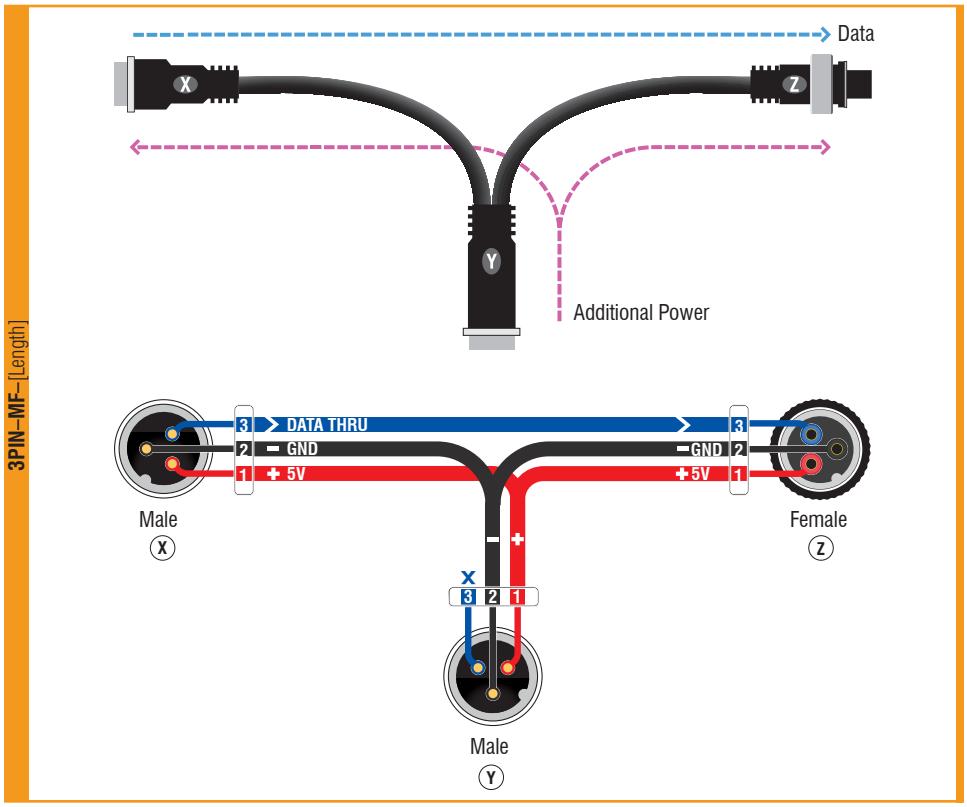
3PIN–MF–12”

*Custom lengths available.

X: Data input from previous string

Y: Additional power input

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



NOTE

3PIN mid-feed cables supply power to both the input and output strings.

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.