

Customer Name

Project Name


Part Number



Description

SIRS-E® DMX RGBW LED Strip lights let you create billions of colors by just mixing red, green and blue colors with a 4th white diode. With the ability to control each individual pixel and channel, the color mix and colors effects possibilities are endless. Compliant with all safety requirements as defined by UL standards

Product Specifications

Input Voltage	5V DC	Cut/Readdress	Cuttable and Readdressable at every pixel ¹
Control Method	DMX 512 Control - Pixel by Pixel	Reel Length	13.1 ft / 4 m
Power Consumption	3.50 W/ft	Max Run Length	13.1 ft / 4 m, powered from both sides
LED Chip Type	High Quality SMD 4-Diode RGBW	Segment Width	0.56 in (14 mm)
LED Density	9 LEDs/ft / 32 LEDs/m	Luminous Flux Maintenance	75,000 hrs ²
Channels/Pixels	4 Channels per Pixel (512 Channels Total) ⁴	Dimming	DMX512 Control - Pixel by Pixel
Board Type/Color	3 oz Density Copper, Black PCB	Environmental	IP 67/68 - Dry and Damp Locations
Operating Temperature	-20°F to 120°F	Warranty	5 Years Limited
Mounting	Non-Porous: 3M Adhesive Tape	Certifications	RoHS  UL Listed E479339



Product Photometrics - Red, Green and Blue Diodes³

Color Diode	Peak Wavelength (nm)	Dominant Wavelength (nm)	CIE (x,y)	Luminous Flux (lm/ft)	Luminous Efficacy (lm/W)
Red	632	622	(0.6938, 0.3050)	23	17.0
Green	515	520	(0.1351, 0.7104)	47	35.8
Blue	463	468	(0.1368, 0.0567)	11	8.2



Product Photometrics - White Diode Only³

Nominal CCT (K)	Luminous Flux (lm/ft)	Luminous Efficacy (lm/W)	CIE (x,y)	Duv	CRI	TM-30-15 Fidelity (Rf)	TM-30-15 Gamut (Rg)
5578	58	43.6	(0.3306, 0.3475)	+0.0041	82.6	84	95



Product Photometrics - All Four Colors at Full Intensity³

Nominal CCT (K)	Luminous Flux (lm/ft)	Luminous Efficacy (lm/W)	CIE (x,y)	Duv	CRI	TM-30-15 Fidelity (Rf)	TM-30-15 Gamut (Rg)
11316	130	28.8	(0.2766, 0.2771)	+0.0034	60.5	69	105

1 - The DMX RGBW LED strips are cuttable every pixel. You need to cut at 1.22in (30.98mm), represented where the solder joints are.

2 - After 75,000 hrs: 30% Luminous Flux loss, 10% Chromaticity change, as per LM-80-15

3 - Photometric values obtained from NVLAP Test Report.

4 - The DMX RGBW LED strips are configured by default on channel 1. If you want to change the starting address, you will need a DMX Address Whitter (DMX-STRP-PROG2), available on our website.

Ordering Guide

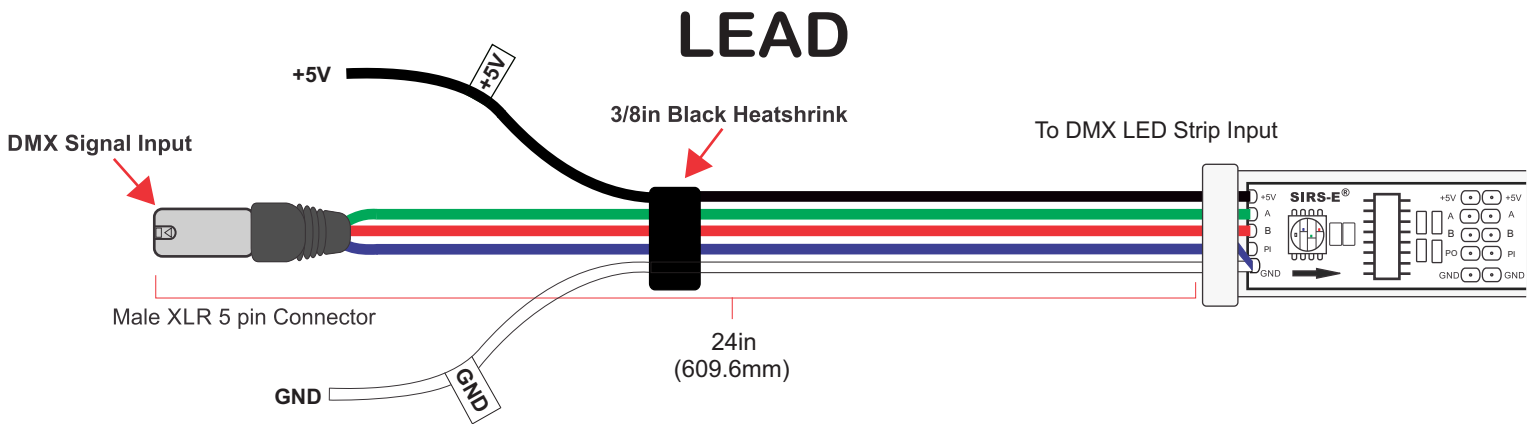
	Voltage	Color	Density	IP
DMX	5	RGBW	32	67
DMX	5	RGBW	32	68*

*IP 68 Version consists of the same Physical Dimensions as IP67

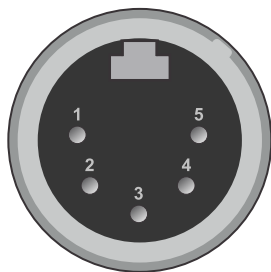
Product Country of Origin

Product Engineering & Design	USA
Assembled	China Preassembled / USA Final Assembly
QC Quality Control	USA
Product Customization	USA
Technical Support	USA

Wiring Diagram



Color Code Male XLR 5 pin



(Front View)
XLR Male Cable

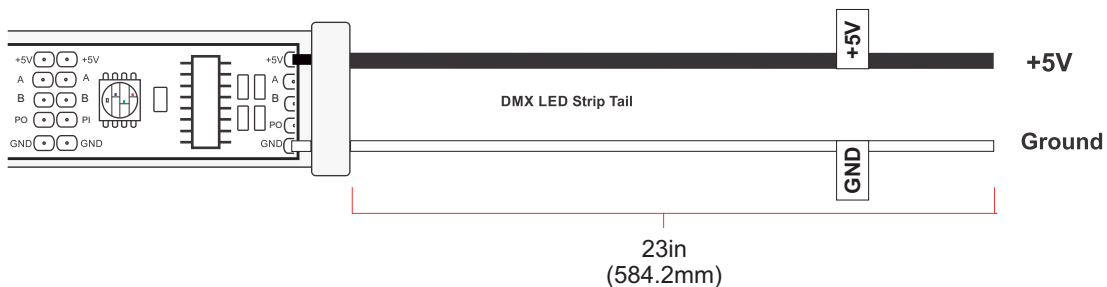
Color Code XLR

Pin 1 - V- / Ground	Blue
Pin 2 - B / DMX-	Red
Pin 3 - A / DMX+	Green
Pin 4 - NC	
Pin 5 - NC	

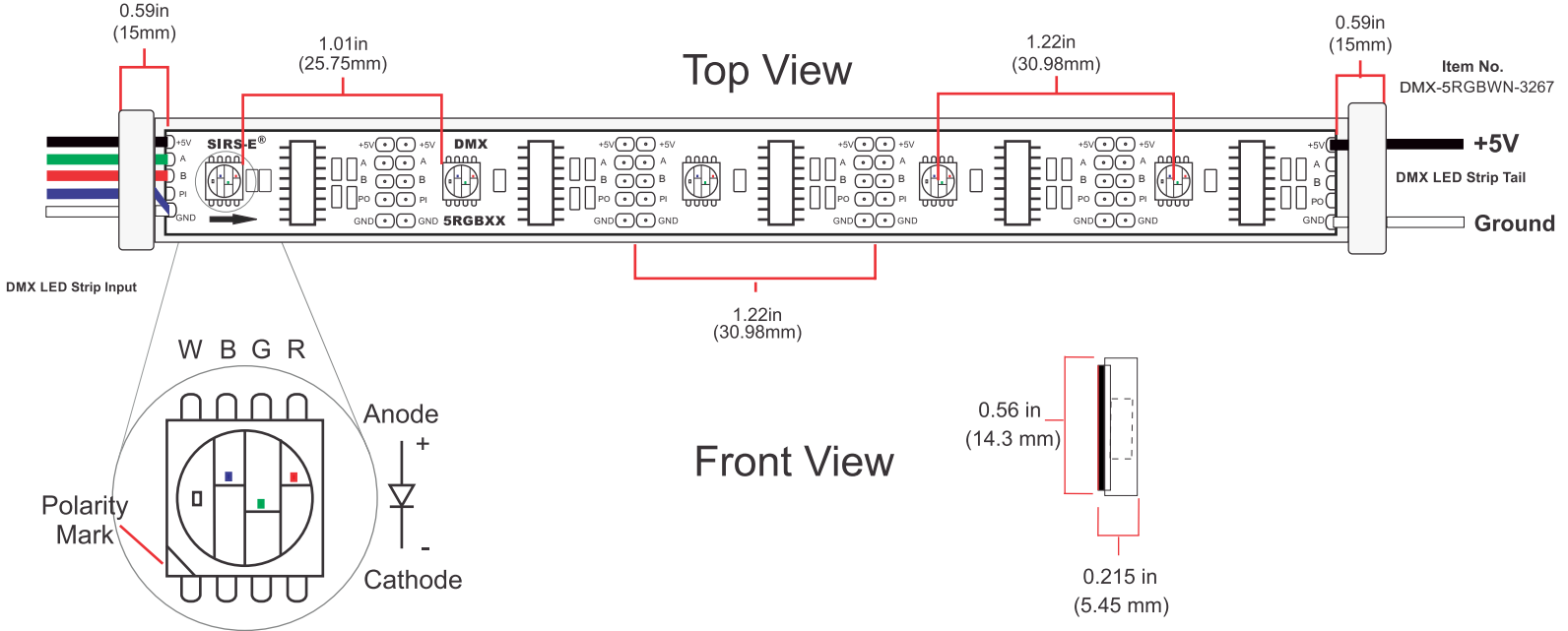
Color Code LED Strip

Black	+5V
Green	A
Red	B
Blue	Ground
White	Ground

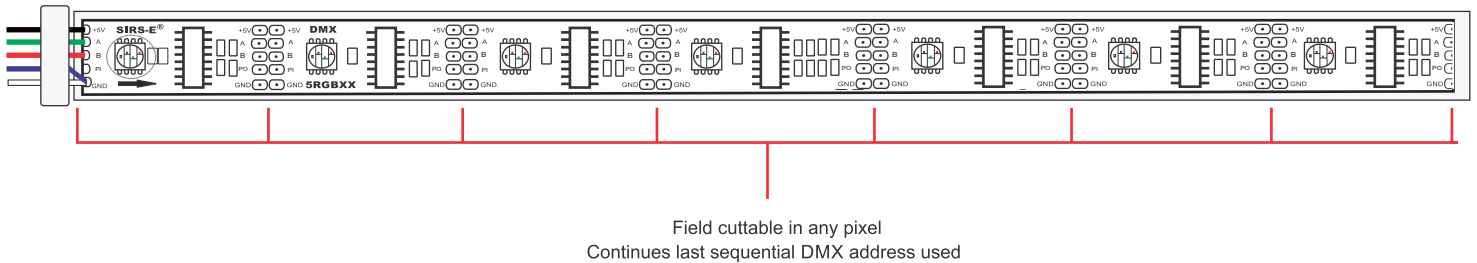
TAIL



Mechanical Dimensions



Cutting & Re-Addressing Instructions



Important:

- The RGBW DMX strips are cuttable in any pixel, and it will continue with the sequential DMX address that was last used.
- If you want to change the starting address back to 001, you will need a **DMX Address Writer** (PN# DMX-STRIP-PROG2), available on our website.

Weight

Product Weight: 11.6 oz, 13.1 ft Reel (Ip67), Without Packaging

Compatible Accessories

This list shows some of our most sellable accessories compatible for this product. For a complete list, please visit our website.



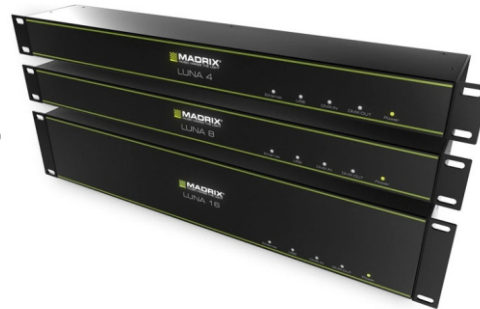
SIRS-E®
ArtNet to DMX Interface
Pro 6 Universes
(AD-PRO-6)



MADRIX USB One
DMX512 Interface
& Software License
(Sold Separately)



Meanwell 5V PSU
(LED-PS05V-30W-UL)



MADRIX Luna
ArtNet Interface



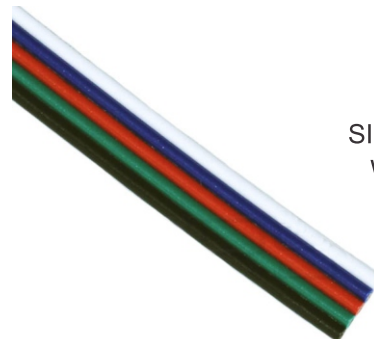
Baxter Controls DMX
Basic Pocket Console
(As a Testing Tool)



DMX Address Writer
(DMX-STRIP-PROG2)



Neutrik
5 PIN Male Connector
(NC5MXX)



SIRS-E RGBW
Wire Leads



Notes

- A good technique to minimize brightness loss and increase lumen output on CV LED Strips is to power the strip on both sides.
- LED electrical and photometric characteristics change with the manufacturing batch/bin date. Approximately 3-Step MacAdam Ellipses between batches.
- We reserve the right to change any data without prior notice.

About Us



SIRS-E /semiconductor • illumination • research • solutions /

In 2004, SIRS-E began research into the use of high powered LED components to be applied in direct lighting fixtures and LED strips.

In 2005, SIRS-E developed the RGB HPL01 – 12 watt (60 lumens per watt efficiency) RGB lighting fixture controlled via DMX using LumiLEDs, one of the first high powered LEDs eventually acquired by Phillips. Included in early research solutions, was the development and testing of many different LED strips intended to be used for direct RGB lighting and effects applications. This was the beginning of what we now know as SIRS – Electronics.