





Maximum length of interconnected LED tubes on a 100w power supply is 20'.

Maximum length of interconnected LED tubes on a 240w power supply is 45'.

Distance limitations assume that fixtures are connected end to end and powered with a 5m starter cable. In cases where longer starters and interconnection cables are being used, the above limitations will differ. Please reach out to a Traxon representative for more information on distance limitations in these scenarios.

Tubes are natively designed to be controlled as R-G-B-W, meaning each pixel is controllable by 4 discrete DMX512 channels, one channel each for red, green, blue, and white. Tubes can also be configured to operate in "+White" mode. This mode allows control of a 4 channel RGBW pixel via 3 discrete channels. (One channel each for red, green, and blue.) This mode uses one of two algorithms to incorporate the white LED chip into a 3 channel additive color mixing model. The two algorithms are "Ultra Brightness" and "High Efficacy". The former is best used in situations where a higher flux is desired. The latter is best used in color critical applications where color rendition is valued over output.

White operation mode, (R-G-B-W, Ultra-Brightness, and High Efficay), must be specified when the order is placed.

A pixel is defined as a single controllable section of RGBW clusters. There can be multiple RGBW clusters in a single pixel. For example, a 1495 mm media tube that is configured for full pixel operation, meaning there is a one to one relationship between RGBW clusters and pixels, will have 60 individually controllable sections. The same tube configured for 30 pixel operation would be controllable in increments of 2 RGBW LED clusters. The same tube cofigured for 20 pixel operation would be controllable in increments of 3 RGBW LED clusters.

There is a maximum of 128 pixels, (as defined above), on a single DMX512 universe.

Signal	Wire Size	Color	
48v DC	AWG 17	Brown	
DMX-	AWG24	White	
DMX+	AWG24	Black	
Ground	AWG17	Blue	

Tercile

TOX COL

FILE NAME:

DRAWN BY: RDE

SCALE:

SIZE:
ANSI B
NUMBER:

Wiring Diagram

ESTA E1.11 DMX		TIA/EIA		Traxon/e:cue and Color Kinetics DMX	
Signal	RJ45 Pin Number	568B	Conversion	RJ45 Pin Number	Signal
Data 1+	1	W/Orange		1	DMX +
Data 1 -	2	Orange		2	DMX -
Data 2 +	3	W/Green] ,	3	Data Common
No Connection	4	Blue		4	No Connection
No Connection	5	W/Blue	/	5	No Connection
Data 2 -	6	Green	1/	6	No Connection
Data 1 Common	7	W/Brown	r	7	No Connection
Data 2 Common	8	Brown	1	8	No Connection

DMX512 Pin Out



