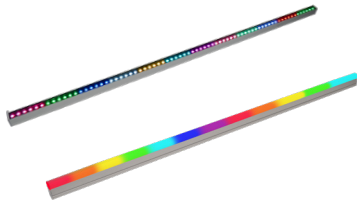


Project: _____

Type: _____



Allegro Media Tube® Lite RGB

Allegro Media Tube® Lite is a slim, direct view luminaire designed to integrate into any wall, facade or media lighting application with tight installation requirements. Available with a Direct View or Diffused View lens and 3 pixels per foot, Allegro Media Tube Lite provides smooth effects to add life and motion to the installation. Featuring auto addressing and simple quick-lock connections, Allegro Media Tube Lite is perfect for building façades, media applications, and more.



Product Specifications

	Direct View		Diffused View	
	300mm / 12"	1200mm / 48"	300mm / 12"	1200mm / 48"
Pixels	3 pixels	12 pixels	3 pixels	12 pixels
Light Source	18 RGB	60 RGB	18 RGB	60 RGB
Color Range	16.7 Million additive RGB colors			
Beam Angle	90°		115° x 170°	
Luminous Flux	100 lm	404 lm	92 lm	392 lm
Efficacy	24 lm/W	24 lm/W	22 lm/W	23 lm/W
Pixel Pitch	100mm / 3.94"			
LED Pitch	16.7mm / 0.66"			
Pixel Configuration	6 RGB LEDs per pixel			
Housing	Extruded Aluminum			
Cover Lens	Clear Glass		UV resistant polycarbonate	
Mounting	Fixed, non-adjustable mounting bracket (x2 per Tube)			
Dimensions (W x H)	24.5 x 31.2mm / 0.96" x 1.23" (mounting bracket included)		24.5 x 43mm / 0.96" x 1.69" (mounting bracket included)	
Dimensions (L)	300mm / 12"	1200mm / 48"	300mm / 12"	1200mm / 48"
Weight	0.45kg / 0.99lb	1.1kg / 2.43lb	0.45kg / 0.99lb	1.1kg / 2.43lb
Regulatory Listing & Safety Approval	cETLus, FCC, ANSI C136.31 - 3G			
Operating Temperature	-40°C to +50°C / -40°F to +122°F			
Storage Temperature	-40°C to +70°C / -40°F to +158°F			
Environment	Outdoor, IP66, IK09 (Diffused View), Suitable for Coastal Environment			
Humidity	10-90%, non-condensing			

Electrical Specifications

Operating Voltage	48V DC
Power Consumption	4.2W / 16.8W
Lumen Maintenance	L70B50 50,000 hours

System Specifications

Control	DMX512
Power Supply	LED Engine 48V Outdoor
Addressing Options	Auto-addressing per daisy-chain
Fixture Interconnection	See System Diagram

LED CHARACTERISTICS Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process results always in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

As with all electronic devices, LED output degrades over time – a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicate function of many factors such as operating efficiency, duration of continuous operation, and more significantly, environmental conditions (ambient temperature for example). If allowed working under optimal operating temperature range and with good ventilation, LED devices enjoy long service lives over conventional light sources. When using/installing LED devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature.

Lumen measurement complies with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

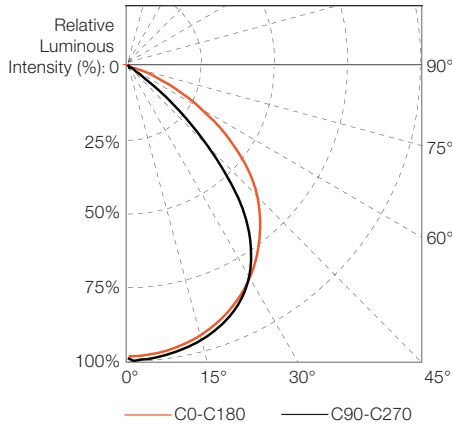
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Source Specifications

	300mm / 12"	1200mm / 48"
Source	18 RGB	60 RGB
Optics	90°	
Cover Lens	Clear Glass	

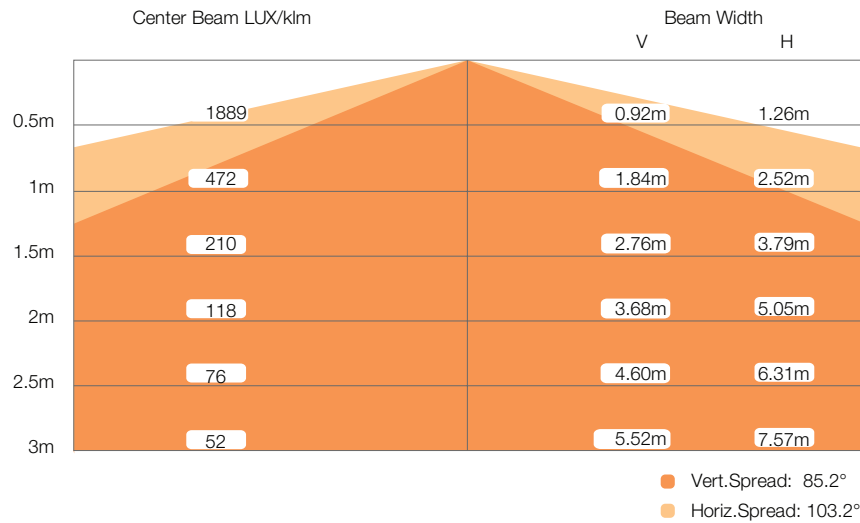
Candela Distribution (Direct View)



Light Output

Color	Luminous Flux (lm)	Efficacy (lm/W)
300 / 12"		
RGB (full-on)	100.3	23.9
Red	29.4	11.4
Green	62.1	31.7
Blue	9.0	5.7
1200 / 48"		
RGB (full-on)	404.2	24.1
Red	120.7	11.7
Green	247.2	31.6
Blue	37.7	6.0

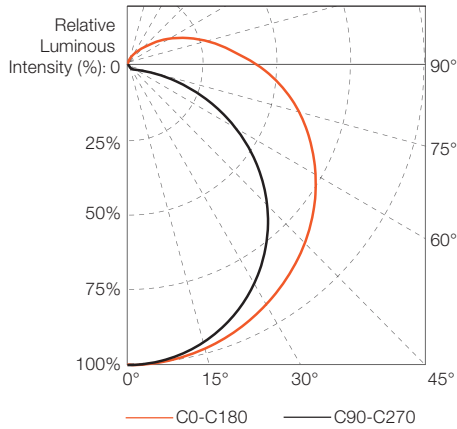
Illuminance at a Distance



Source Specifications

	300mm / 12"	1200mm / 48"
Source	18 RGB	60 RGB
Optics	115° x 170°	
Cover Lens	UV resistant polycarbonate	

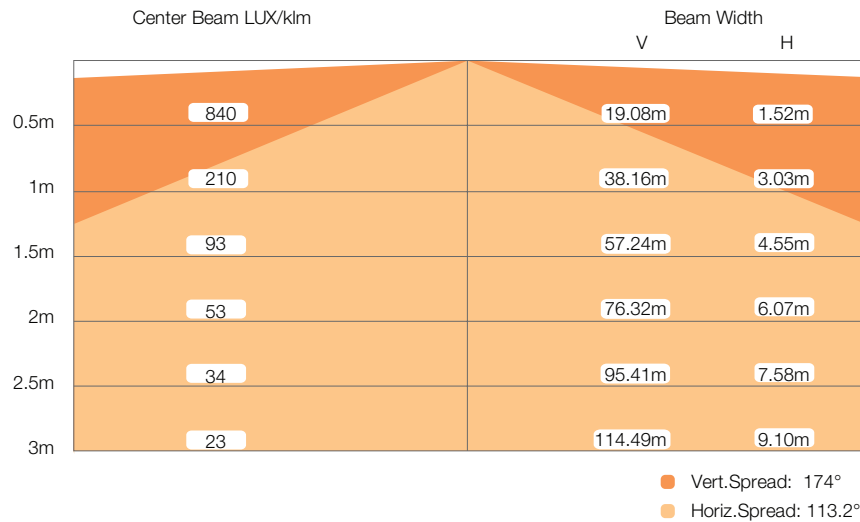
Candela Distribution (Diffused View)



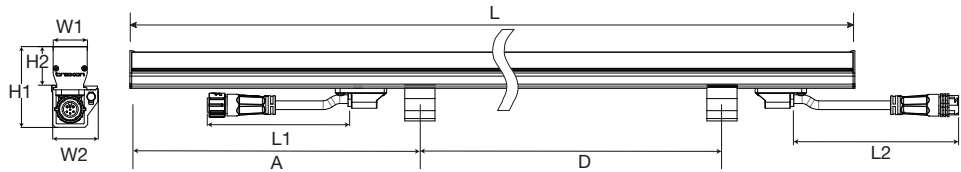
Light Output

Color	Luminous Flux (lm)	Efficacy (lm/W)
300 / 12"		
RGB (full-on)	92.1	22.0
Red	35.4	14.0
Green	56.8	29.0
Blue	9.6	6.0
1200 / 48"		
RGB (full-on)	392.4	23.0
Red	124.9	12.0
Green	239.3	31.0
Blue	36.4	6.0

Illuminance at a Distance

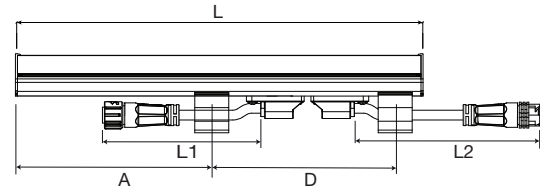


Fixture Dimensions (Direct View)

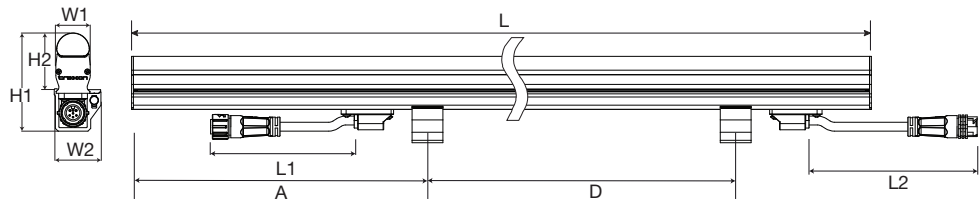


NOTE: Please see CAD files for additional dimensional data.

	W1	W2	H1	H2	A	D	L	L1	L2
1200mm	24.5mm	33.3mm	58.2mm	31.2mm	240mm	850mm	1200mm	116.5mm	136.3mm
48"	0.96"	1.31"	2.29"	1.23"	9.45"	33.46"	47.24"	4.59"	5.37"
300mm	24.5mm	33.3mm	58.2mm	31.2mm	145mm	135mm	300mm	116.5mm	136.3mm
12"	0.96"	1.31"	2.29"	1.23"	5.71"	5.31"	11.81"	4.59"	5.37"

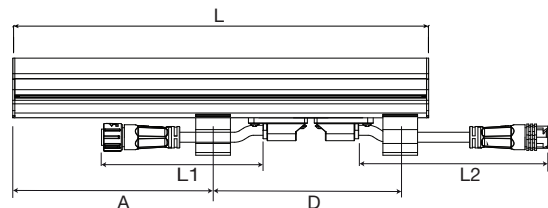


Fixture Dimensions (Diffused View)



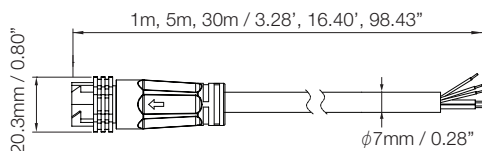
NOTE: Please see CAD files for additional dimensional data.

	W1	W2	H1	H2	A	D	L	L1	L2
1200mm	24.5mm	33.3mm	70mm	43mm	240mm	850mm	1200mm	116.5mm	136.3mm
48"	0.96"	1.31"	2.76"	1.69"	9.45"	33.46"	47.24"	4.59"	5.37"
300mm	24.5mm	33.3mm	70mm	43mm	145mm	135mm	300mm	116.5mm	136.3mm
12"	0.96"	1.31"	2.76"	1.69"	5.71"	5.31"	11.81"	4.59"	5.37"

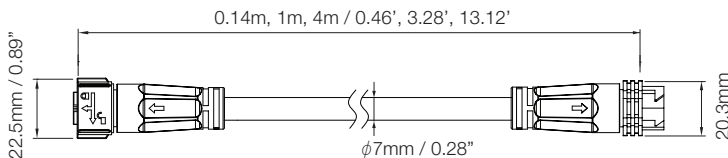


Connection Accessories

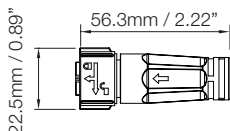
Starter Cable



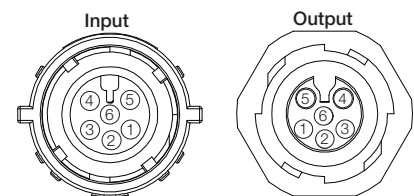
Interconnection Cable



End Cap with 120 Ohm Terminator

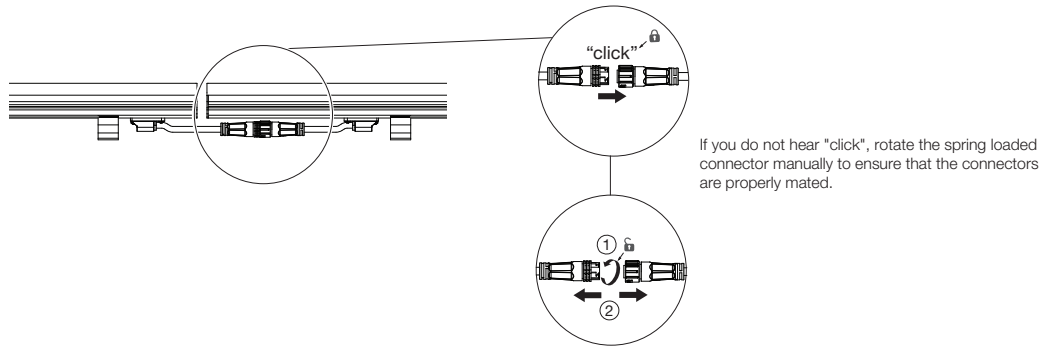


Connector Pin Assignment

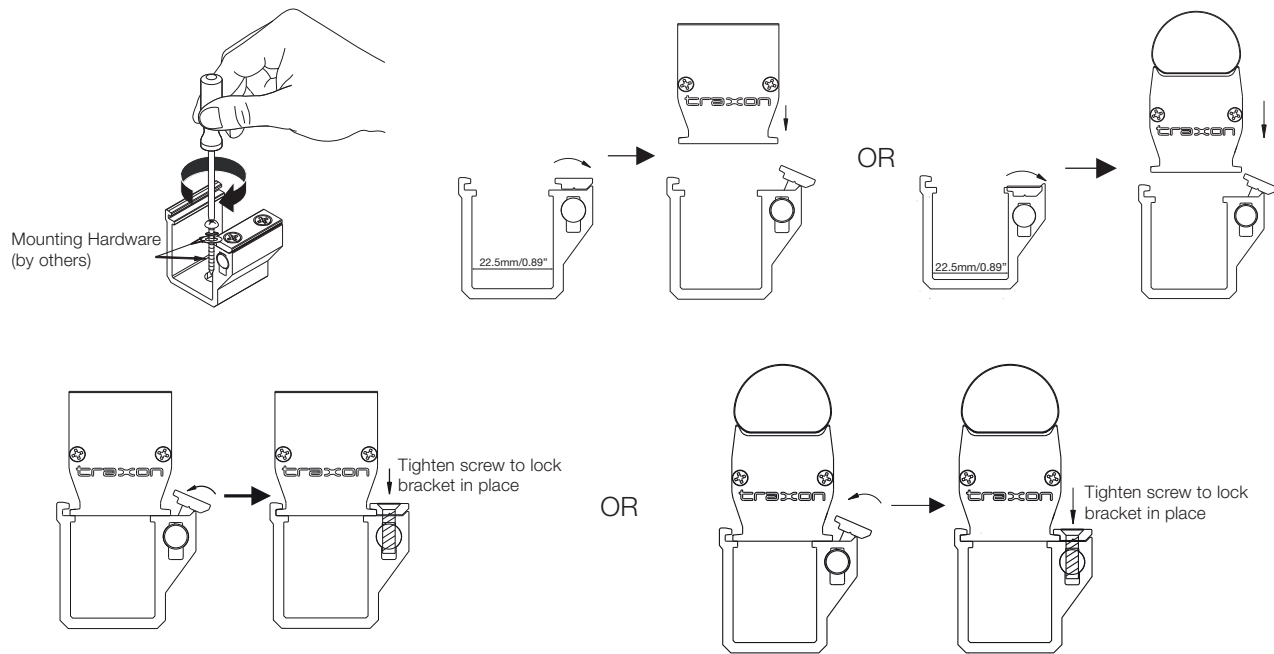


Wire#	Description	Color
1	DMX+	Green
2	Ground	White
3	DMX-	Blue
4	DC48V-	Black
5	DC48V+	Red
6	Address	Brown

Cable Connection

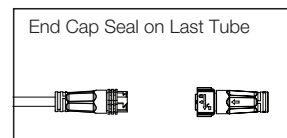
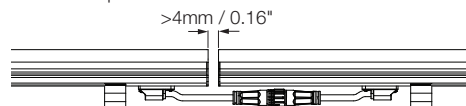


Bracket Mounting

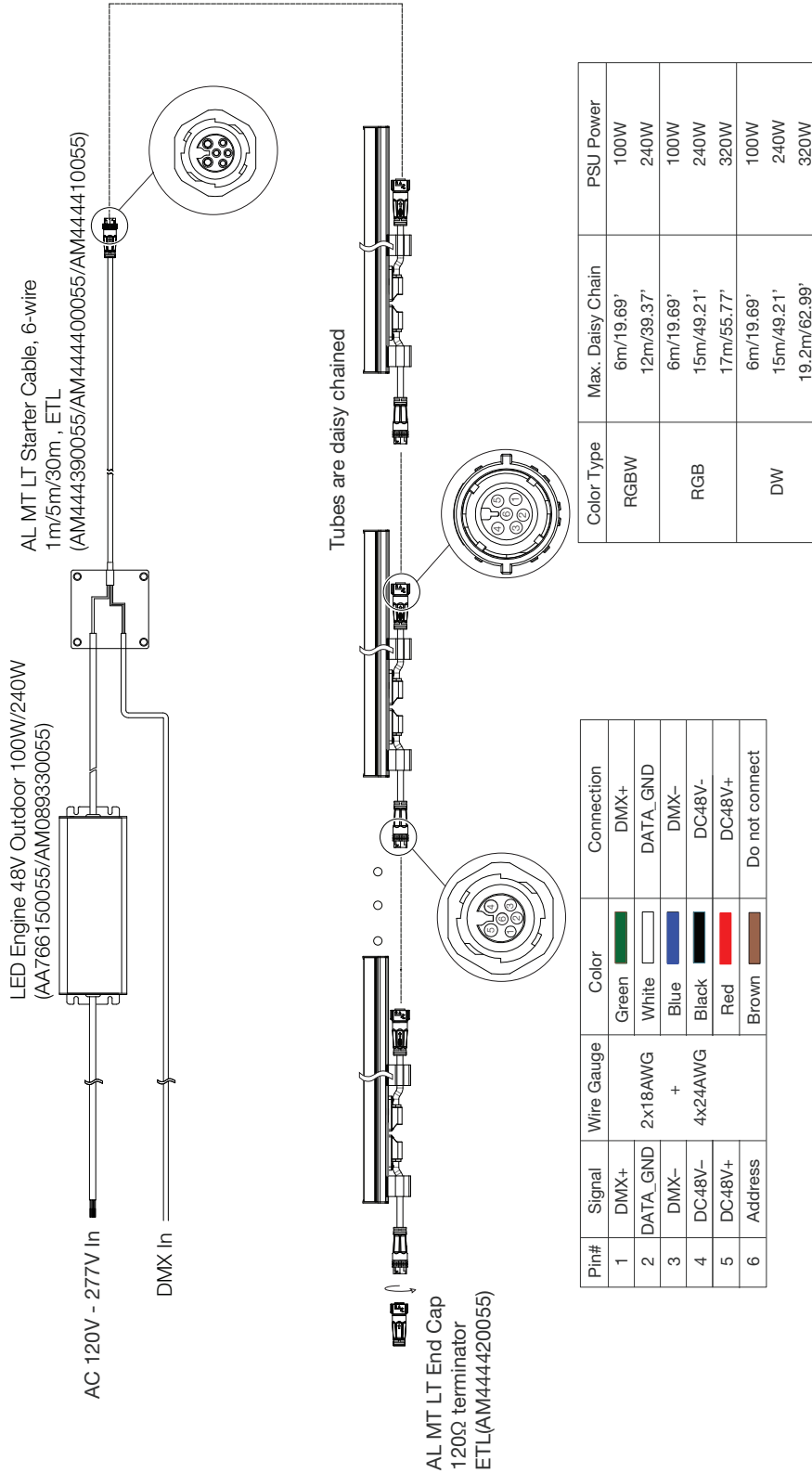


Tube-to-Tube Clearance

To maintain consistent LED pitch and to allow for thermal expansion, a minimum of 4mm / 0.16" is required between luminaire's.



System Diagram



Wiring diagram shows only typical connections. Max. number of fixtures is based on minimal interconnection lengths. Actual number of fixtures is dependent on cable interconnections. Number of fixtures will reduce if longer cable lengths are used. Consult with your regional sales office to confirm maximums.

Model Number

TU	AL	N	2	NN	N	0	0
	Length	Color		Pixels	Optics		
	1: 300mm/12"	2: RGB		03: 3 Pixels with 300mm/11.8"	6: Flat clear cover		
	B: 1200mm/48"			12: 12 Pixels with 1200mm/47.2"	7: Round diffused cover		
				01: 1 Pixel per tube			

Fixtures

Model No.	Description	Item Code
TU.AL.1203700	AL MT LT RGB 1FT / 300MM 3PXL DF R ETL	AM444220055
TU.AL.B212700	AL MT LT RGB 4FT / 1200MM 12PXL DF R ETL	AM444190055
TU.AL.1203600	AL MT LT RGB 1FT / 300MM 3PXL CR ETL	AM444340055
TU.AL.B212600	AL MT LT RGB 4FT / 1200MM 12PXL CR ETL	AM444310055

TX Connect

Model No.	Description	Item Code
TU.AC.1210100	AL MT LT STARTER CABLE, 6-WIRE, 3.3FT / 1M, ETL	AM444390055
TU.AC.1210200	AL MT LT STARTER CABLE, 6-WIRE, 16FT / 5M, ETL	AM444400055
TU.AC.1210300	AL MT LT STARTER CABLE, 6-WIRE, 98FT / 30M, ETL	AM444410055
TU.AC.1210400	AL MT LT END CAP, 120Ω TERMINATOR, ETL	AM444420055
TU.AC.1210700	AL MT LT INTER CABLE, 6-WIRE, 5.5IN / 0.14M, ETL	AM444450055
TU.AC.1210500	AL MT LT INTER CABLE, 6-WIRE, 3.3FT / 1M, ETL	AM444430055
TU.AC.1210600	AL MT LT INTER CABLE, 6-WIRE, 13FT / 4M, ETL	AM444440055
TU.AC.0602000	WAGO TERMINAL BLOCK SET (7A)	AB469230035
TU.AC.0602100	7A SB FUSE (100PCS)	AB469240055

TX Control

Model No.	Description	Item Code
N/A	LED ENGINE 100W 48V OUTDOOR	AM338910055
N/A	LED ENGINE 240W 48V OUTDOOR	AM089330055
N/A	LED ENGINE 320W 48V OUTDOOR	AM088070055
160185	VIDEO MICRO CONVERTER (DMX/E:PIX)	AA438940235
160194	VIDEO MICRO CONVERTER GARAGE (OPTIONAL)	AA623920031
EN.BP.0000100	BUTLER PRO DMX/RDM	AA628600035
EN.BX.0000001	BUTLER XT2	AA557270131
160174	BUTLER XT2 GARAGE (OPTIONAL)	AA556660031
EN.BU.0000001	BUTLER S2	AB436200031
AC.BG.0000001	BUTLER S2 GARAGE (OPTIONAL)	AA611800031
N/A	LCE3FX E:CUE	AM368100135
N/A	LCE3 E:CUE	AM368100035
N/A	LIGHTING CONTROL ENGINE 2 MX WITH ETL	AM349340031
N/A	E:CUE SYMPL DMX NODE	AB444180035

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