

Date: \_\_\_\_\_ Quantity: \_\_\_\_\_

Company: \_\_\_\_\_

Project: \_\_\_\_\_



## Media Pixel Ribbon DMX Indoor

The Traxon Media Pixel Ribbon DMX family are flexible LED strips which can be controlled directly using DMX 512. The Media Pixel Ribbon provides flexibility to fit on any curved surface. Featuring a 16.7mm LED Pitch with a 100mm Pixel pitch. The Media Pixel Ribbon can be customized for number of pixels, ribbon length, and mounting options. This product is intended for use in high-quality colored light applications.

CE IP20

### Product Specifications

Models	RGB+W (W: 6500K)	RGB	DW (W: 2700K+6500K)	W 4000K	W 3000K	W 2700K
Light Source	High intensity SMT RGB and White LEDs					
Color Range	16.7 Million additive RGB colors					
Pixels	10 pixels/m <sup>1</sup>					
LED Pitch	16.7 mm					
Pixel Pitch	100 mm					
Cutting Pitch	100 mm					
CRI for White LED	> 80					
Luminous Flux	750 lm/m	420 lm/m	890 lm/m	900 lm/m	855 lm/m	830 lm/m
Efficacy	52 lm/W	38 lm/W	93 lm/W	94 lm/W	89 lm/W	86 lm/W
Beam Angle	120°					
Dimensions (W x H)	12 mm x 2 mm					
Max. length	8 m/roll	8 m/roll	10 m/roll	10 m/roll	10 m/roll	10 m/roll
Weight (per roll)	233 g	224 g	265 g	253 g	253 g	253 g
Mounting	3M adhesive tape on Ribbon; various mounting tracks optional					
Regulatory Listing & Safety Approval	CE (cETLus in progress)					
Operating Temperature	-20°C to +50°C					
Storage Temperature	-40°C to +70°C					
Environment	Indoor, IP20					
Humidity	0 to 90% non-condensing					

### Electrical Specifications

Input Voltage	24V DC					
Power Consumption (Typ.)	14.4 W	11 W	9.6 W	9.6 W	9.6 W	9.6 W

### System Specifications

Control	DMX512
Power Supply	185W 24V DC
Addressing Options	Manual Addressing with 3rd party addressing device

1. Pixel per meter can be customized to 5 pixels, 2 pixels or 1 pixel.

**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.

This product contains a light source of energy efficiency class G to Regulation (EU) No 2019/2015.  
Lumen measurement complies with LM-79-08 standard.  
Lumen maintenance is calculated based on LM-80 compliant measurement.

[www.traxontechnologies.com](http://www.traxontechnologies.com)

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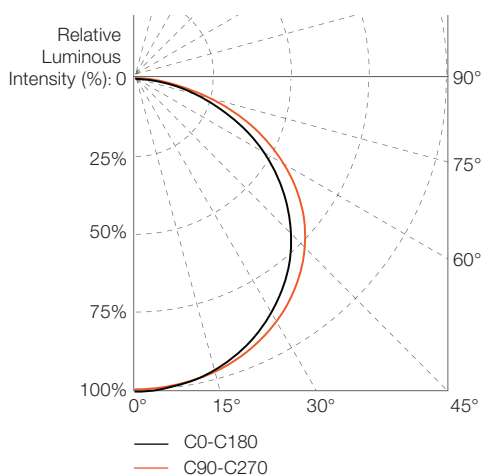
# Media Pixel Ribbon DMX Indoor

## Photometrics

### Source Specifications

LED Source	RGB+W & DW - 60 + 60 LEDs RGB & W - 60 LEDs
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### Candela Distribution



### Light Output

Color	Luminous Flux (lm)
<b>RGB+W</b>	
RGB+W (full-on)	750
RGB	424
Red	107
Green	288
Blue	56.6
White (RGB off)	449
<b>RGB</b>	
RGB (full-on)	420
Red	107
Green	288
Blue	56.6
<b>DW</b>	
DW (full-on)	890
CW	454
WW	493
<b>SW</b>	
2700K	830
3000K	855
4000K	900

### Illuminance at a Distance

	Center Beam LUX/klm	Beam Width	
		V	H
0.5m	1264	1.64m	1.97m
1.0m	316	3.29m	3.94m
1.5m	140	4.93m	5.91m
2.0m	79	6.58m	7.88m
2.5m	51	8.22m	9.86m
3.0m	35	9.87m	11.83m

For feet multiply by 3.28

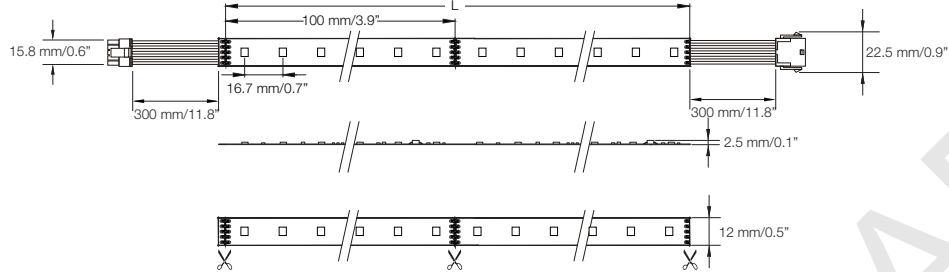
- Vert. Spread: 117.4°
- Horiz. Spread: 126.2°
- For fc divide by 10.7

IES and LDT files are available for download from the Traxon website.

# Media Pixel Ribbon DMX Indoor

## Dimensions

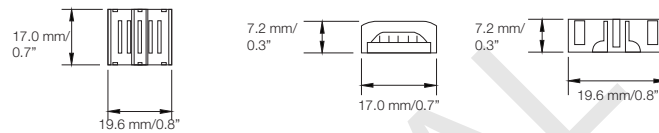
### Ribbon



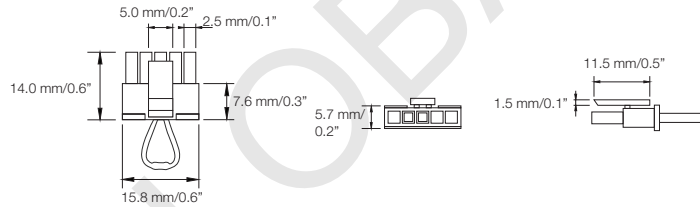
Model	Max. length with single power feed, L
RGB+W & RGB	8000 mm/315"
DW and White	10000 mm/393.7"

#### RB-RB 5PIN CONNECTOR IP20 (AM400830055)

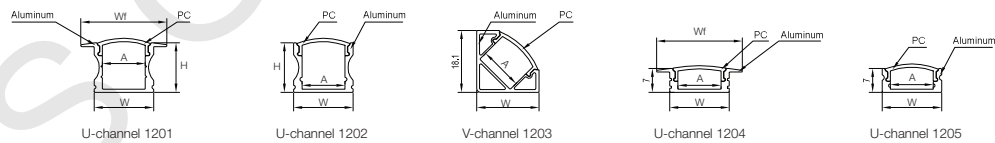
For ribbon to ribbon re-connection after cutting. Cutting should be done every 100 mm (per pixel pitch).



#### RB 5PIN END CAP 120OHM IP20 (AM400820055)



### Mounting track with diffused PC cover

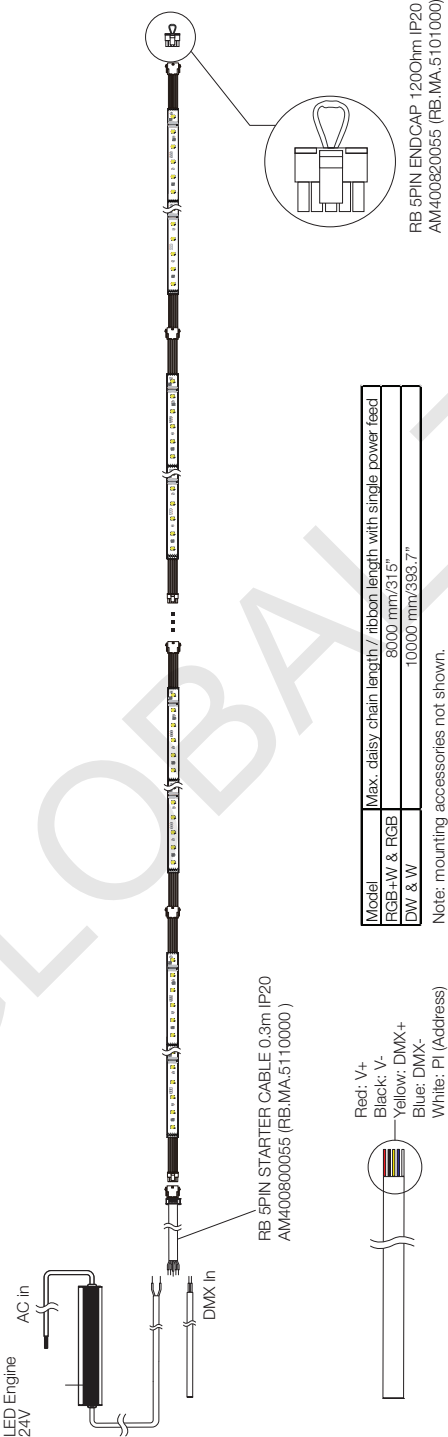


	U-Channel 1201	U-Channel 1202	V-Channel 1203	U-Channel 1204	U-Channel 1205
Item Code	AM400880055	AM400890055	AM400920055	AM400900055	AM400910055
W (mm)	17.3	17.3	18.1	17.3	17.3
Wf (mm)	25	-	-	25	-
A (mm)	12.5	12.5	12.5	12.5	12.5
H (mm)	14.5	14.5	18.1	7.0	7.0
Length (mm)	1000	1000	1000	1000	1000

# Media Pixel Ribbon DMX Indoor

## System Diagram

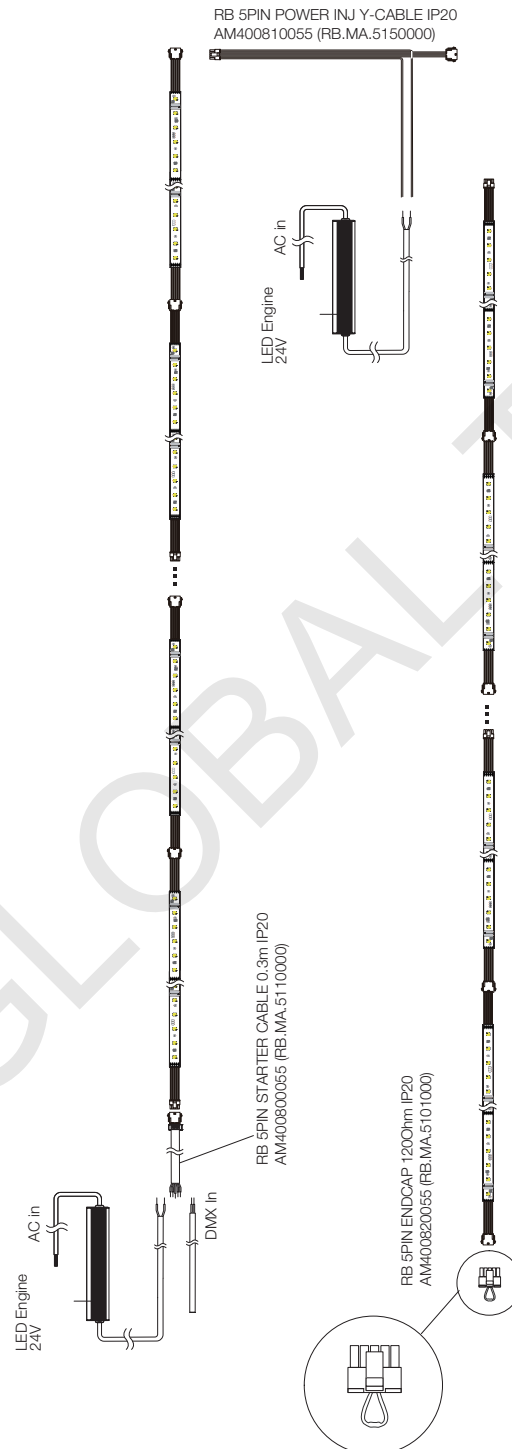
### Typical Wiring with 5-pin Starter Cable



# Media Pixel Ribbon DMX Indoor

## System Diagram

### Typical Power Injection Wiring with Y-cable



Power injection is required when ribbon connection length reaches the maximum length with single power feed.  
Note: mounting accessories not shown.

## Media Pixel Ribbon DMX Indoor

Ordering

### Fixtures

Model No.	Description	Item Code
RB.MR.1400000	PX RIBBON OB RGBW65 10PPM 8M DX IP20	AM393950055
RB.MR.1500000	PX RIBBON OB RGB 10PPM 8M DX IP20	AM393960055
RB.MR.2600000	PX RIBBON OB DW2765 10PPM 10M DX IP20	AM393970055
RB.MR.2000000	PX RIBBON OB 827 10PPM 10M DX IP20	AM393980055
RB.MR.2200000	PX RIBBON OB 830 10PPM 10M DX IP20	AM393990055
RB.MR.2300000	PX RIBBON OB 840 10PPM 10M DX IP20	AM394000055

### TX Connect

Model No.	Description	Item Code
RB.MA.5110000	RB 5PIN STARTER CABLE 0.3M IP20	AM400800055
RB.MA.5150000	RB 5PIN POWER INJ Y-CABLE IP20	AM400810055
RB.MA.5101000	RB 5PIN ENDCAP 120OHM IP20 (5PCS)	AM400820055
N/A	RB-RB 5PIN CONNECTOR IP20 (10PCS)	AM400830055

### TX Mounting

Model No.	Description	Item Code
N/A	U-CHANNEL INDOOR RIBBON 1201 1M	AM400880055
N/A	U-CHANNEL INDOOR RIBBON 1202 1M	AM400890055
N/A	U-CHANNEL INDOOR RIBBON 1204 1M	AM400900055
N/A	U-CHANNEL INDOOR RIBBON 1205 1M	AM400910055
N/A	V-CHANNEL INDOOR RIBBON 1203 1M	AM400920055

### TX Addressing Device

Please contact your sales representative for details.

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Our Brands

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Product Specification

08/21 V1.1

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