

Company: _____

Project: _____

Media Pixel Ribbon DMX Flat



The Traxon Media Pixel Ribbon DMX Flat is an IP67 flexible strip which can be controlled directly using DMX512. The Flat type Ribbon provides flexibility to fit on any curved surface to accommodate architectural structures. Featuring a 16.7mm LED pitch with a 100mm pixel pitch, the Media Pixel Ribbon is available in an assortment of colors and CCT options, has multiple mounting options to meet project needs, and is able to be customized for number of pixels and ribbon lengths.

This product is intended for use in high-quality colored light applications.



Product Specifications

Models	RGB+W (W: 6500K)	RGB	DW (W: 2700K +6500K)	W 6500K	W 4000K	W 3000K
Light Source	High intensity SMT RGB and White LEDs					
Color Range	16.7 Million additive RGB colors					
Pixels	10 pixels/m ¹					
LED pitch	16.7 mm					
Pixel Pitch	100 mm					
Cutting Pitch	100 mm					
CRI for White LED	> 80					
Luminous Flux	740 lm/m	350 lm/m	880 lm/m	920 lm/m	920 lm/m	870 lm/m
Efficacy	51 lm/W	32 lm/W	92 lm/W	96 lm/W	96 lm/W	91 lm/W
Beam Angle	120°					
Housing	Clear (CR) or diffused (DF) silicone					
Dimensions (W x H)	14.2 mm x 5 mm					
Max. length	8 m/roll	8 m/roll	10 m/roll	10 m/roll	10 m/roll	10 m/roll
Weight (per roll)	1100 g	900 g	1100 g	900 g	900 g	900 g
Mounting	3M adhesive tape on Ribbon, various mounting channels or mounting clips					
Min. Bend Radius	150 mm					
Regulatory Listing & Safety Approval	CE (cETLus in progress)					
Operating Temperature	-20°C to +50°C					
Storage Temperature	-40°C to +70°C					
Environment	Outdoor, IP67					
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 Outdoor
Addressing Options	Manual Addressing with 3rd party addressing device

1. Pixel per meter can be customized to 5 pixels, 2 pixels or 1 pixel. Please consult regional sales office for more information, pricing and lead time.

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.

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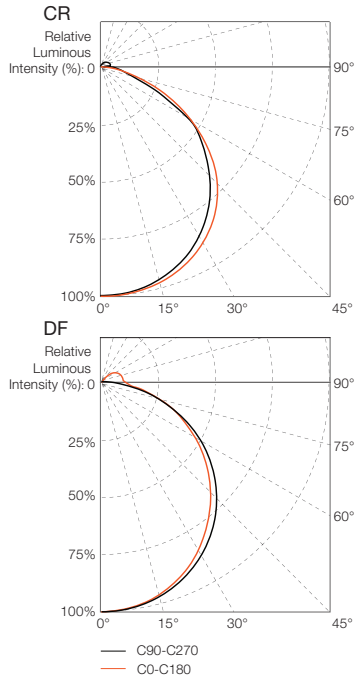
Media Pixel Ribbon DMX Flat

Photometrics

Source Specifications

LED Source High intensity SMT RGB and White LEDs

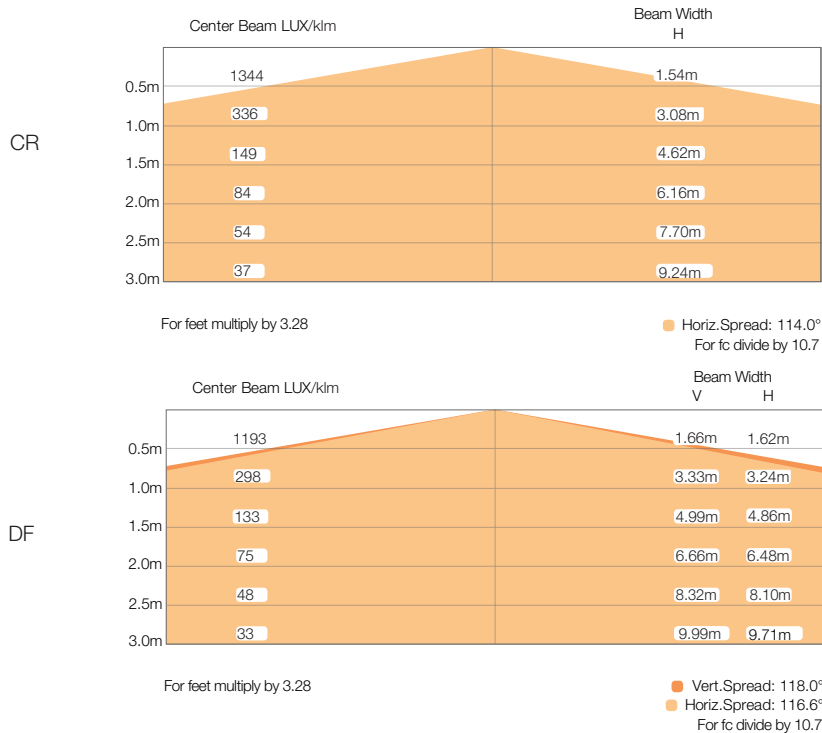
Candela Distribution



Light Output

Color	CR Luminous Flux (lm)	DF Luminous Flux (lm)
RGB+W		
RGB+W (full-on)	740	620
RGB	370	310
Red	85	71
Green	249	209
Blue	50	42
White (RGB off)	370	310
RGB		
RGB (full-on)	350	300
Red	40	35
Green	118	101
Blue	24	20
DW		
DW (full-on)	880	740
WW	423	356
CW	457	384
White		
3000K	870	730
4000K	920	770
6500K	920	770

Illuminance at a Distance



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

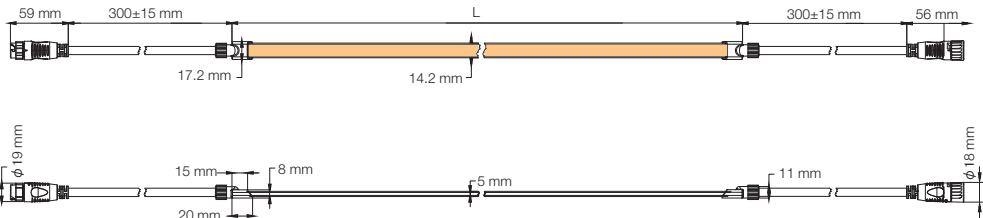
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Media Pixel Ribbon DMX Flat

Dimensions

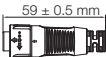
Media Pixel DMX Flat Ribbon and Connection Accessories



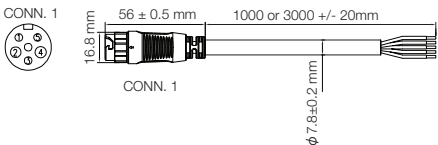
Model	Max. Ribbon length with single power feed	Actual product length with endcap at 2-ends, L
RGB+W (14.4W/m) & RGB (11W/m)	8000 mm	8000 + 20 mm
DW & W (9.6W/m)	10000 mm	10000 + 20 mm

Remark: For other customize lengths (in multiply of 100 mm), the actual product length would be customize length + 20 mm.

RB CONNECTOR ENDCAP 120OHMP67 (AM400870055)

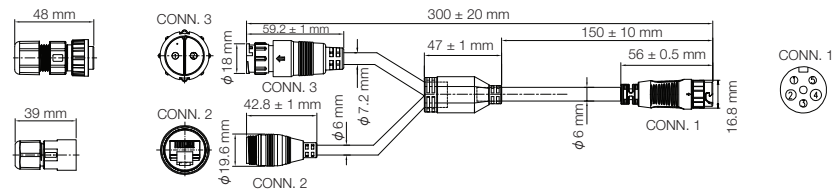


RB 5PIN STARTER CABLE 1M IP67 (AM400840055)
RB 5PIN STARTER CABLE 3M IP67 (AM400850055)

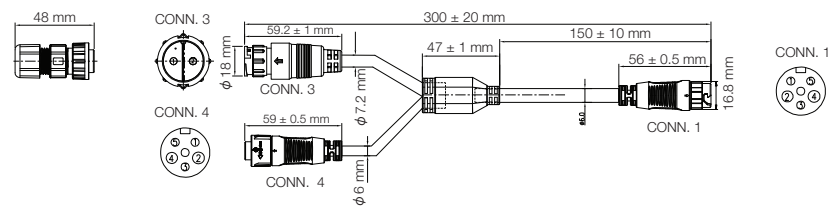


Wire#	Description	Color
1	Address(P)	Green
2	V-	Black
3	DMX+	Yellow
4	V+	Red
5	DMX-	Blue

RB RJ45 STARTER Y-CABLE IP67 (AM401000055)

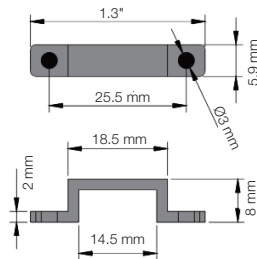


RB 5PIN POWER INJ Y-CABLE IP67 (AM400990055)

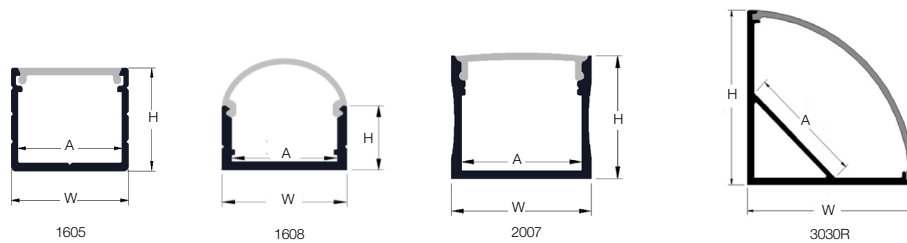


Mounting Accessories

1. Silicone mounting clip
MOUNTING CLIP FLAT RB (AM412900055)



2. Aluminium mounting channels

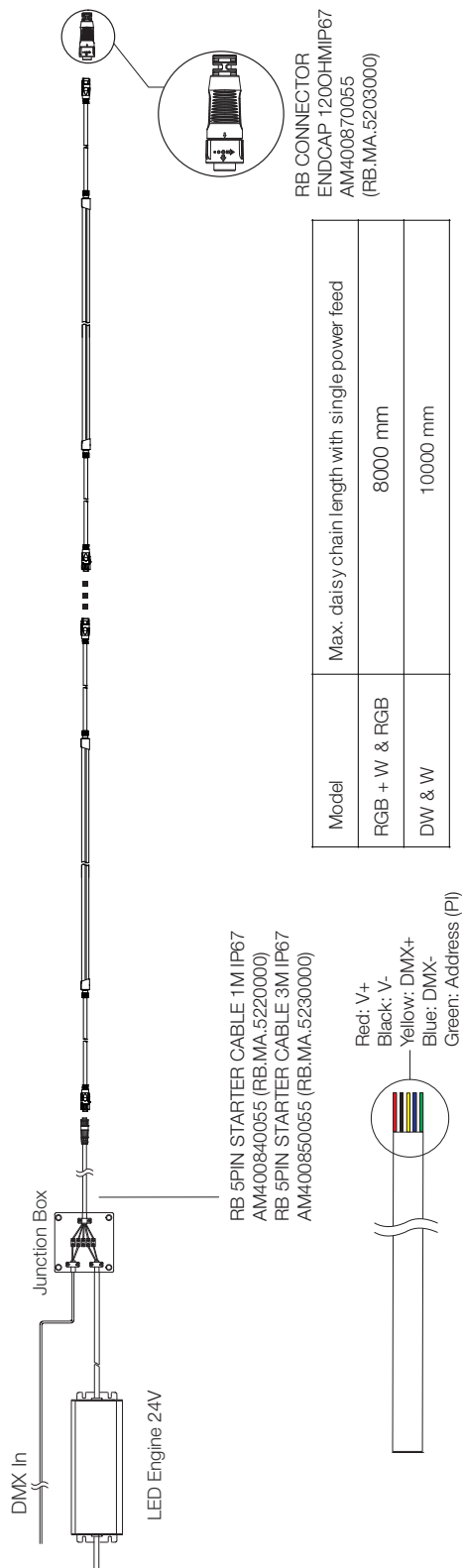


	U-Channel 1605	U-Channel 1608	U-Channel 2007	V-Channel 3030R
Item Code	AM412910055	AM412920055	AM412930055	AM412940055
W (mm)	18	19.4	23.5	30
A (mm)	16	16.4	20.2	20.6
H (mm)	13	11.6	20.5	30
Length (mm)	950	950	1000	1000
Material	Aluminium channel, PC cover, 304 stainless steel mounting clips			

NOTE: Media Pixel Ribbon DMX Flat is mounted to the channel by 3M tape.

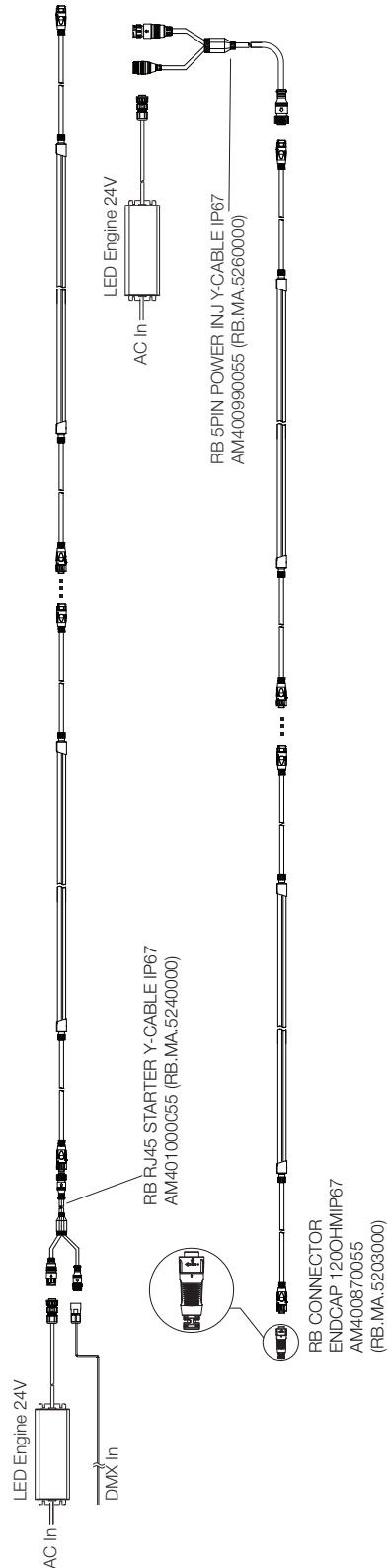
Typical Wiring with 5-pin Starter Cable

NOTE: Mounting accessories not shown.



Typical Power Injection with Wiring Y-Cable

NOTE: Mounting accessories not shown.



Power injection is required when ribbon connection length reaches the maximum length with single power feed.

Media Pixel Ribbon DMX Flat

Ordering

Fixtures

Model No.	Description	Item Code
RB.MO.1403000	PX RIBBON CR RGBW65 10PPM 8M DX F1 IP67	AM411030055
RB.MO.1503000	PX RIBBON CR RGB 10PPM 8M DX F1 IP67	AM411040055
RB.MO.2603000	PX RIBBON CR DW2765 10PPM 10M DX F1 IP67	AM411050055
RB.MO.2203000	PX RIBBON CR 830 10PPM 10M DX F1 IP67	AM411060055
RB.MO.2303000	PX RIBBON CR 840 10PPM 10M DX F1 IP67	AM411070055
RB.MO.2103000	PX RIBBON CR 865 10PPM 10M DX F1 IP67	AM411080055
RB.MO.1404000	PX RIBBON DF RGBW65 10PPM 8M DX F1 IP67	AM411090055
RB.MO.1504000	PX RIBBON DF RGB 10PPM 8M DX F1 IP67	AM411100055
RB.MO.2604000	PX RIBBON DF DW2765 10PPM 10M DX F1 IP67	AM411110055
RB.MO.2204000	PX RIBBON DF 830 10PPM 10M DX F1 IP67	AM411120055
RB.MO.2304000	PX RIBBON DF 840 10PPM 10M DX F1 IP67	AM411130055
RB.MO.2104000	PX RIBBON DF 865 10PPM 10M DX F1 IP67	AM411140055

TX Connect

Model No.	Description	Item Code
RB.MA.5220000	RB 5PIN STARTER CABLE 1M IP67	AM400840055
RB.MA.5230000	RB 5PIN STARTER CABLE 3M IP67	AM400850055
RB.MA.5270000	RB 5PIN STARTER CABLE 5M IP67	TBC
RB.MA.5260000	RB 5PIN POWER INJ Y-CABLE IP67	AM400990055
RB.MA.5240000	RB RJ45 STARTER Y-CABLE IP67	AM401000055
N/A	RB CONNECTOR ENDCAP IP67	AM400860055
RB.MA.5203000	RB CONNECTOR ENDCAP 120OHM IP67	AM400870055

TX Cutting tools

Model No.	Description	Item Code
N/A	PX RIBBON CUTTING TOOL	AM412950055
N/A	PX RIBBON SEALING GLUE 100ML	AM412960055
N/A	RX RIBBON FLAT FIELD CUT ENDCAP 20PC	AM412990055

TX Mounting

Model No.	Description	Item Code
N/A	MOUNTING CLIP FLAT RB 20PC	AM412900055
N/A	U-CHANNEL OUTDOOR FLAT 1605 950	AM412910055
N/A	U-CHANNEL OUTDOOR FLAT 1608 950	AM412920055
N/A	U-CHANNEL OUTDOOR FLAT 2007 1M	AM412930055
N/A	V-CHANNEL OUTDOOR FLAT 3030R 1M	AM412940055

TX Power Supply

Model No.	Description	Item Code
N/A	LED ENGINE 185W 24V OUTDOOR	AM175880055

Addressing Device

Please contact your sales representative for details.

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