Project: _____

Type: _____

Media Pixel Ribbon DMX VB

The Traxon Media Pixel Ribbon DMX VB is an IP67 flexible neon strip which can be controlled directly using DMX512. The vertical bending (VB), together with the horizontal bending (HB) 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, ribbon lengths, and cable feed position. This product is intended for use in high-quality colored light applications.

Product Specifications

CE IP67 IK08

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					
SDCM for White LED	3-steps					
Luminous Flux	410 lm/m	200 lm/m	520 lm/m	530 lm/m	530 lm/m	510 lm/m
Efficacy	28 lm/W	18 lm/W	54 lm/W	55 lm/W	55 lm/W	53 lm/W
Beam Angle	120°					
Housing	Diffused silicone					
Dimensions (W x H)	15 mm x 16 mm					
Max. length	8m / roll	8m / roll	10m / roll	10m / roll	10m / roll	10m / roll
Weight (per roll)	2600 g	2100 g	2600 g	2100 g	2100 g	2100 g
Mounting	Various mounting brackets and channels					
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, IK08					
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 customize 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 compiles with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

www.traxontechnologies.com

Media Pixel Ribbon DMX VB

Source Specifications

LED Source	High intensity SMT RGB and White LEDs

Candela Distribution

Relative Luminous Intensity (%): 0

- 25%
- 50%
- 75%
- 100%

0° 15° 30° 45°
90° 75° 60°

— C90-C270
— C0-C180
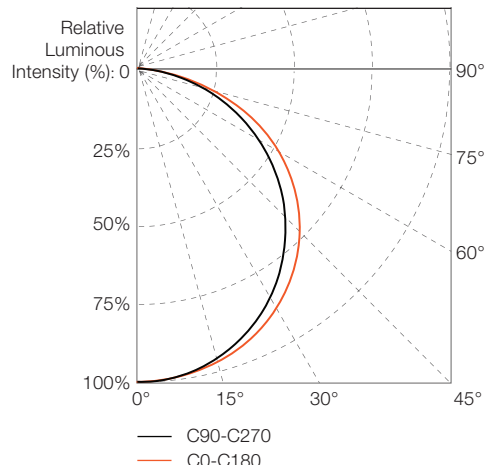
Light Output

Color	Luminous Flux (lm)
RGB+W	
RGB+W (full-on)	410
RGB	205
Red	47
Green	138
Blue	28
White (RGB off)	205
RGB	
RGB (full-on)	200
Red	23
Green	67
Blue	14
DW	
DW (full-on)	520
WW	250
CW	270
White	
3000K	510
4000K	530
6500K	530

Illuminance at a Distance

Center Beam LUX/klm

Beam Width
V | H

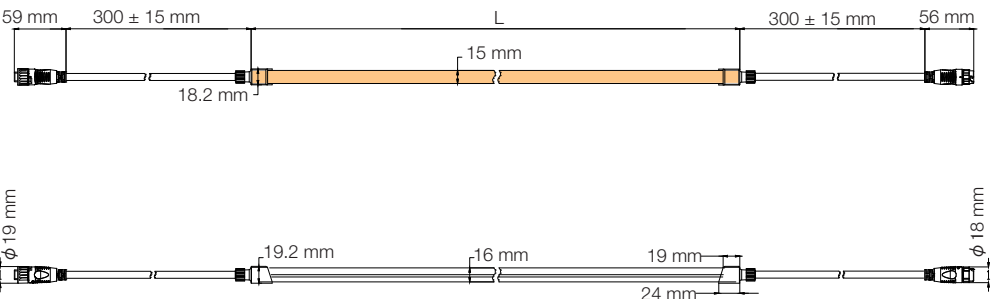| Distance	Center Beam LUX/klm	V	H
0.5m	1323	1.49m	1.80m
1.0m	331	2.99m	3.59m
1.5m	147	4.48m	5.39m
2.0m	83	5.98m	7.19m
2.5m	53	7.47m	8.98m
3.0m	37	8.96m	10.78m

For feet multiply by 3.28

● Vert.Spread: 112.4°
● Horiz.Spread: 121.8°
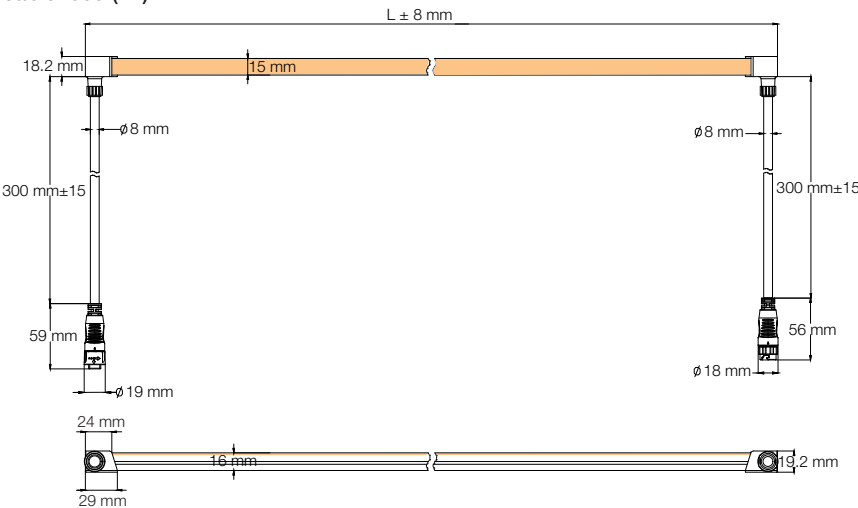For fc divide by 10.7

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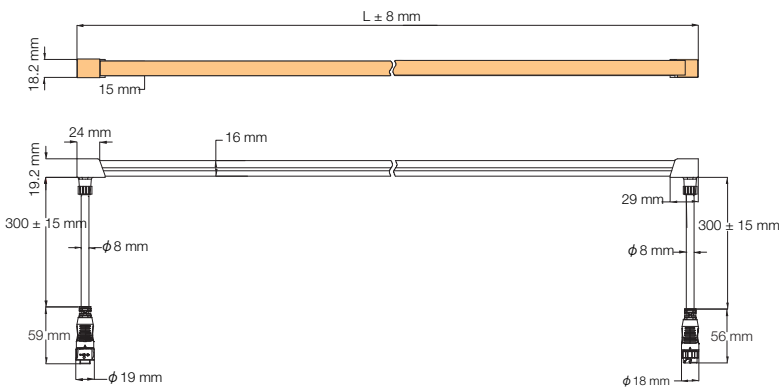
Ribbon Dimension

End cable feed (V1)

### Side cable feed (V2)

Bottom cable feed (V3)

| 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.

Connection Accessories
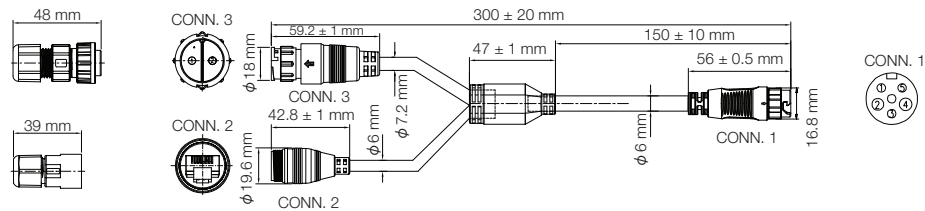
RB CONNECTOR ENDCAP 120OHMIP67 (AM400870055)

59 ± 0.5 mm
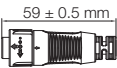
RB 5PIN STARTER CABLE 1M IP67 (AM400840055)
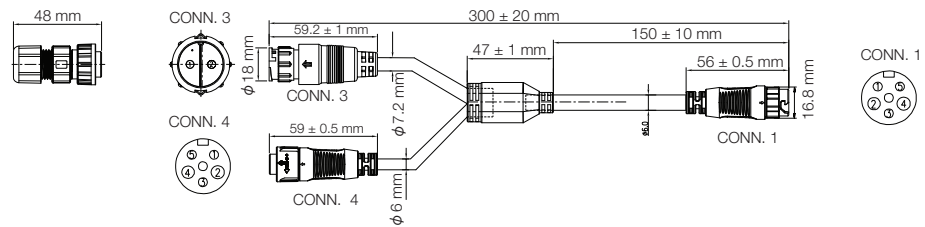RB 5PIN STARTER CABLE 3M IP67 (AM400850055)

CONN. 1

56 ± 0.5 mm   1000 or 3000 +/- 20mm

16.8 mm

CONN. 1

φ 7.8±0.2 mm
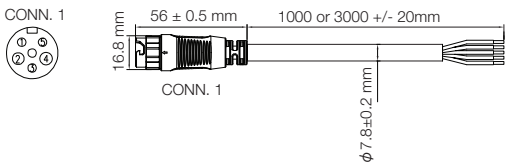
Wire#	Description	Color
1	Address(PI)	Green
2	V-	Black
3	DMX+	Yellow
4	V+	Red
5	DMX-	Blue

RB RJ45 STARTER Y-CABLE IP67 (AM401000055)

48 mm

CONN. 3

φ 18 mm

59.2 ± 1 mm

300 ± 20 mm

47 ± 1 mm   150 ± 10 mm

56 ± 0.5 mm

CONN. 1

CONN. 3

φ 7.2 mm

φ 6 mm

φ 6 mm

CONN. 1

16.8 mm

39 mm

CONN. 2

42.8 ± 1 mm

φ 19.6 mm

CONN. 2

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

48 mm

CONN. 3

φ 18 mm

59.2 ± 1 mm

300 ± 20 mm

47 ± 1 mm   150 ± 10 mm

56 ± 0.5 mm

CONN. 1

CONN. 3

φ 7.2 mm

φ 6.0

CONN. 1

16.8 mm

CONN. 4

59 ± 0.5 mm

CONN. 4

φ 6 mm

Mounting Accessories

1. Aluminium U-channel
   U-CHANNEL OUTDOOR VB 950 (AM400970055)

16.3 mm
14.4 mm
17.9 mm
18.5 mm

950 mm
400 mm
400 mm
3- Ø3.5mm
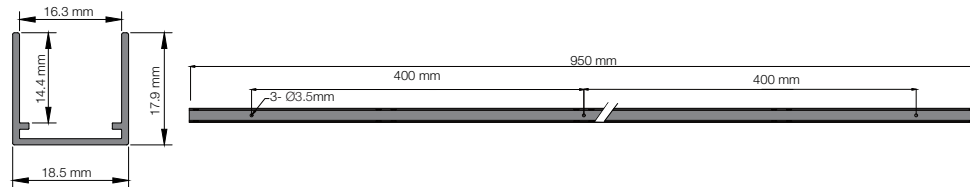
2. 304 Stainless Steel Flexible Strip
   FLEXIBLE MOUNT STRIP VB 5M / ROLL (AM400930055)

5M
25 mm
5 mm
20 mm
Ø3.3 mm

13.6 mm
10.6 mm
Ø3.3 mm
15.5 mm
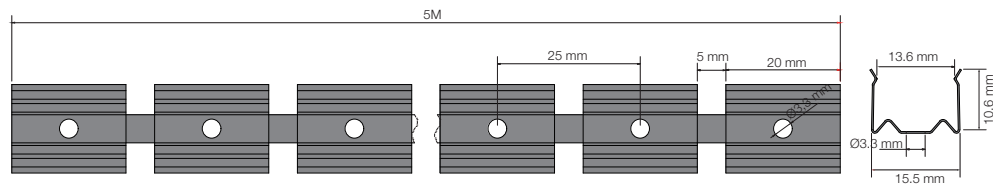
3. SINGLE MOUNT BRACKET VB (AM400950055)

20 mm
Ø3.3 mm

13.6 mm
10.6 mm
Ø3.3 mm
15.5 mm
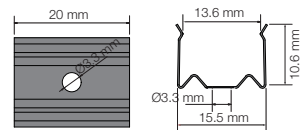
Typical Wiring with 5-pin Starter Cable

NOTE: Mounting accessories not shown.

RB CONNECTOR
ENDCAP 120OHMIP67
AM400870055
(RB.MA.5203000)

Model	Max. daisy chain length with single power feed
RGB + W & RGB	8000 mm
DW & W	10000 mm

RB 5PIN STARTER CABLE 1M IP67
AM400840055 (RB.MA.5220000)
RB 5PIN STARTER CABLE 3M IP67
AM400850055 (RB.MA.5230000)

Red: V+
Black: V-
Yellow: DMX+
Blue: DMX-
Green: Address (PI)

Junction Box

DMX In

LED Engine 24V
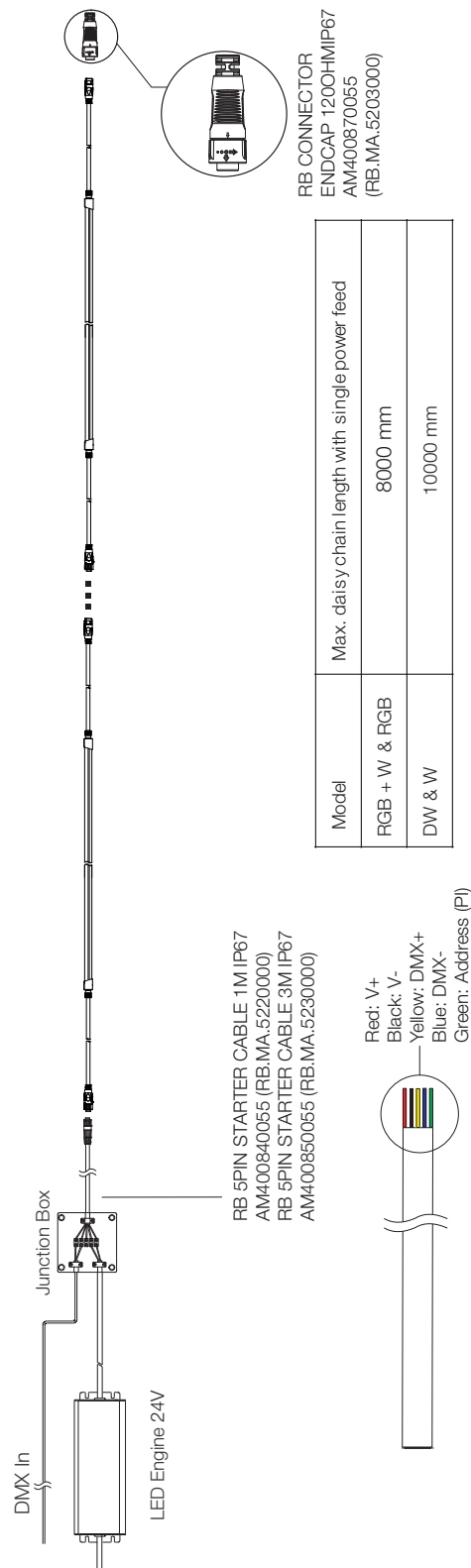
Typical Power Injection with Wiring Y-Cable

NOTE: Mounting accessories not shown.

LED Engine 24V

AC In

RB 5PIN POWER INJ Y-CABLE IP67
AM400990055 (RB.MA.5260000)

RB RJ45 STARTER Y-CABLE IP67
AM401000055 (RB.MA.5240000)

RB CONNECTOR
ENDCAP 120OHMIP67
AM400870055
(RB.MA.5203000)

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

LED Engine 24V

DMX In

AC In
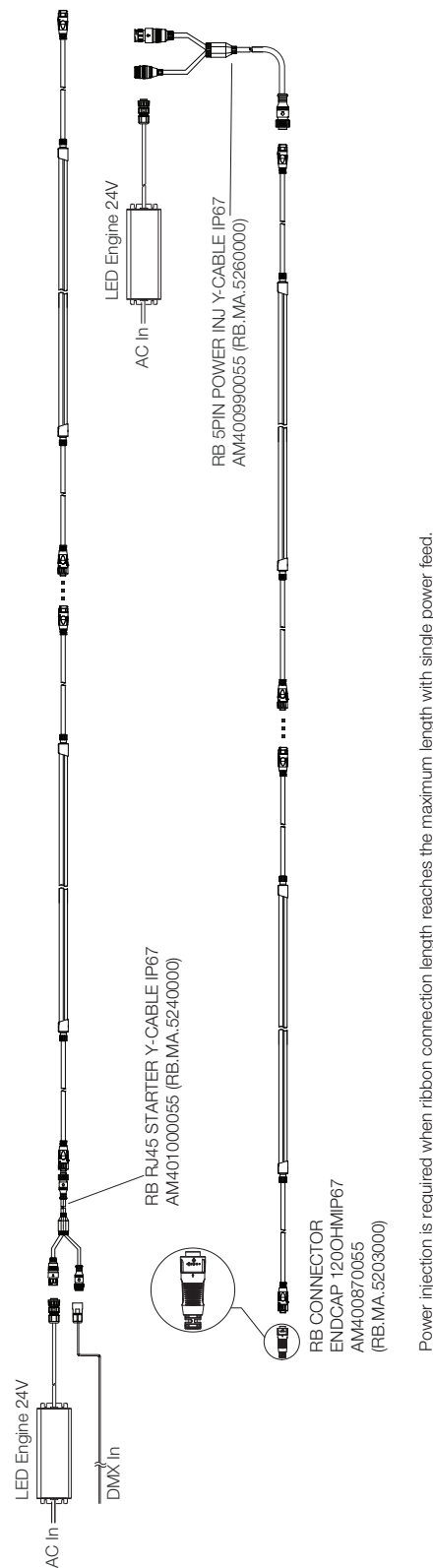
Fixtures

Model No.	Description	Item Code
RB.MO.1401000	PX RIBBON DF RGBW65 10PPM 8M DX V1 IP67	AM411210055
RB.MO.1501000	PX RIBBON DF RGB 10PPM 8M DX V1 IP67	AM411220055
RB.MO.2601000	PX RIBBON DF DW2765 10PPM 10M DX V1 IP67	AM411230055
RB.MO.2201000	PX RIBBON DF 830 10PPM 10M DX V1 IP67	AM411240055
RB.MO.2301000	PX RIBBON DF 840 10PPM 10M DX V1 IP67	AM411250055
RB.MO.2101000	PX RIBBON DF 865 10PPM 10M DX V1 IP67	AM411260055

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 VB FIELDCUT ENDCAP 20PC	AM412970055

TX Mounting

Model No.	Description	Item Code
N/A	FLEXIBLE MOUNT STRIP VB 5M	AM400930055
N/A	SINGLE MOUNT BRACKET VB 20PC	AM400950055
N/A	U-CHANNEL OUTDOOR VB 950	AM400970055

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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