TRAXON Go

Pixel Ribbon Go Indoor
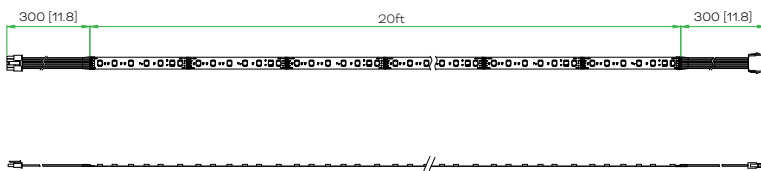
Project: _____

Type: _____

DMX 512   IP20

The Traxon Pixel Ribbon Go Indoor is a flexible, IP20-rated neon strip alternative, now designed specifically for indoor applications. This DMX512-controllable light strip is ideal for high-quality colored light displays, featuring an open beam version that provides broad, uniform light distribution across interior spaces. With a 100mm / 4" pixel pitch, the Pixel Ribbon Go offers an assortment of colors and CCT options, customizable lengths, and adaptable cable feed positions for precise installation, making it a versatile solution for ambient and decorative indoor lighting.

Features

— DMX512 Control.

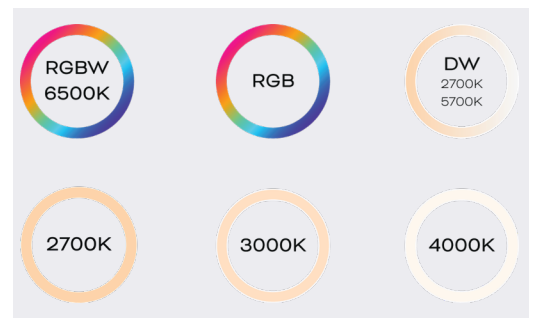— Pixel Pitch: 100mm [4"] pixel pitch, allowing for precise pixel control.

Color Options

| RGBW 6500K | RGB | DW 2700K 5700K |
| 2700K | 3000K | 4000K |

Beam Angle

120°
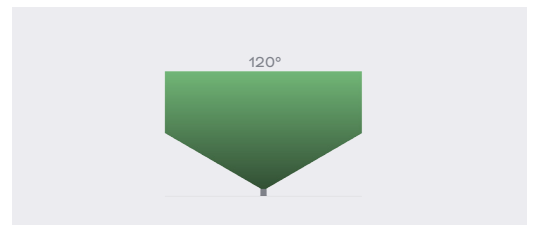
Dimensions

Unit: mm [inch]

300 [11.8]   20ft   300 [11.8]

NOTE: please see Dimensional page for all options.

Product Specifications

LED Color	RGBW (W: 6500K)	RGB	DW (W: 2700K+5700K)	W 4000K	W 3000K	W2700K
Light Source	High intensity SMT RGBW 4 in 1 LEDs			White LEDs		
Color Range	16.7 Million additive RGB colors			N / A		
Pixels	3 pixels/ft					
LED pitch	RGBW, RGB: 16.7mm [0.66"] DW, W4000K, W3000K, W2700K: 8.3mm [0.33"]					
Pixel Pitch	100 mm [3.93"]					
Cutting Pitch	100 mm [3.93"]					
CRI for White LED	> 80					
SDCM for White LED	White Color uniformity: 3 SDCM					
Luminous Flux	189 lm/ft	106 lm/ft	268 lm/ft	278 lm/ft	257 lm/ft	248 lm/ft
Efficacy	43 lm/W	31 lm/W	93 lm/W	95 lm/W	89 lm/W	86 lm/W
Beam Angles	120°					
Mounting	3M adhesive tape on Ribbon; various mounting tracks optional					
Dimensions (W x H)	12mm [0.47"] x 2mm [0.08"]					
Max. Length	6.1m [20'] / roll					
Weight (per roll)	180g [0.4lbs]	180g [0.4lbs]	164g [0.36bs]	164g [0.36bs]	164g [0.36bs]	164g [0.36bs]
Minimum Bend Radius	30mm [1.18"]					
Regulatory Listing & Safety Approval	cETLus, FCC					
Operating Temperature	−20°C to +50°C / -4°F to 122°F					
Storage Temperature	−40°C to +70°C / -40°F to 158°F					
Environment	Indoor, IP20					
Humidity	0 to 90% non-condensing					

Electrical Specifications

Input Voltage	24V DC					
Power Consumption (Typ)	4.3 W/ft	3.3 W/ft	2.9 W/ft	2.9 W/ft	2.9 W/ft	2.9 W/ft

System Specifications

Control	DMX512
Power Supply	24V DC Indoor
Addressing Options	Manual Addressing with TX Smart Addresser

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.
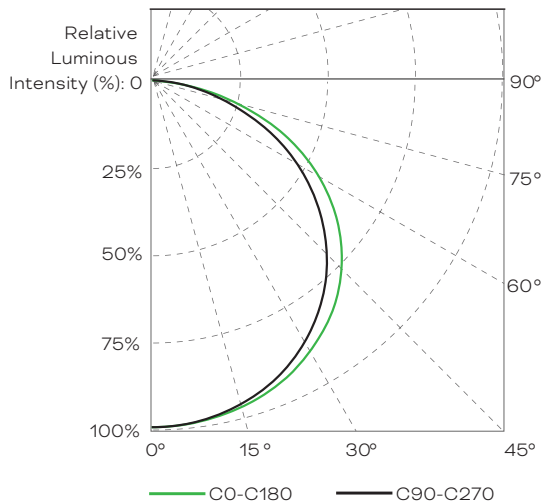Lumen maintenance is calculated based on LM-80 compliant measurement.

TRAXON Go→

Source Specifications

Light Source	High intensity SMT RGBW & White LEDs
Beam Angle	120°

Candela Distribution

Relative Luminous Intensity (%): 0

C0-C180   C90-C270

Light Output

Clear	
Color	**Luminous Flux (lm/ft)**
RGBW	
RGBW (full-on)	189.4
RGB	105.5
Red	22.5
Green	64.1
Blue	17.5
White (RGB off)	84.4
RGB	
RGB (full-on)	105.5
Red	22.5
Green	64.1
Blue	17.5
DW	
DW (full-on)	267.8
WW (2700K)	138.5
CW (5700K)	129.4
White	
2700K	248.5
3000K	256.8
4000K	277.6

Illuminance at a Distance

	Center Beam LUX/klm	Beam Width H	Beam Width V	
0.5m	1323	1.49m	1.80m	1.6'
1.0m	331	2.99m	3.59m	3.3'
1.5m	147	4.48m	5.39m	4.9'
2.0m	83	5.98m	7.19m	6.6'
2.5m	53	7.47m	8.98m	8.2'
3.0m	37	8.96m	10.78m	9.8'

Horiz.Spread: 112.4°

Vertic.Spread: 121.8°

For fc divide by 10.7

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

Pixel Ribbon Go Indoor
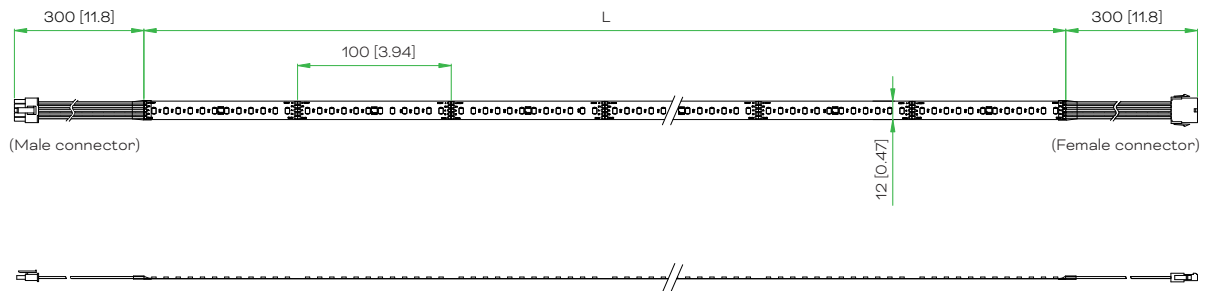
Fixture

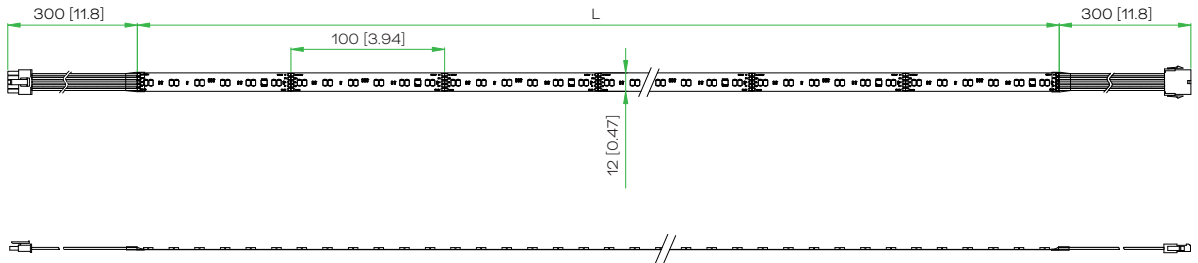| Max. Ribbon length with single power feed	Actual product length with end cap at 2-ends, L
6100mm [240.16"]	6100mm [240.16"] ± 10mm [0.39"]

Unit: mm [inch]

White

300 [11.8]   L   300 [11.8]

100 [3.94]

12 [0.47]

(Male connector)   (Female connector)

DW

300 [11.8]   L   300 [11.8]

100 [3.94]

12 [0.47]

RGB&RGBW

300 [11.8]   L   300 [11.8]

100 [3.94]

12 [0.47]
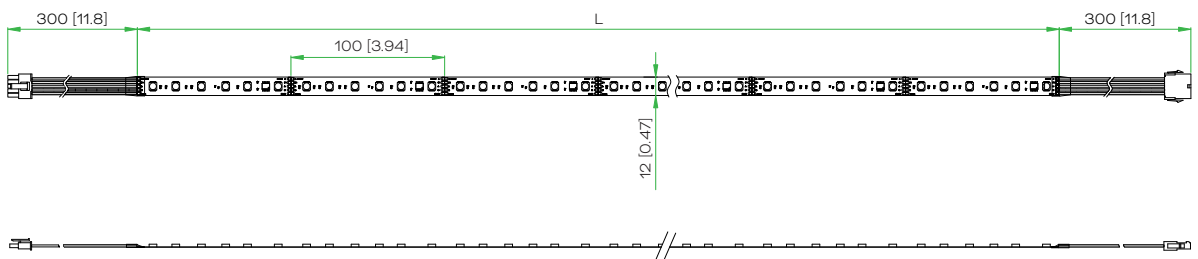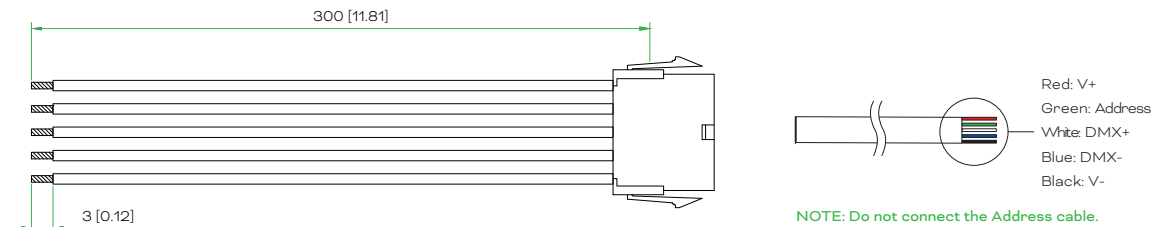
Remark: For other customized lengths (in multiple of 100mm / 4"), the actual product length would be the requested length ± 10mm [0.39"].
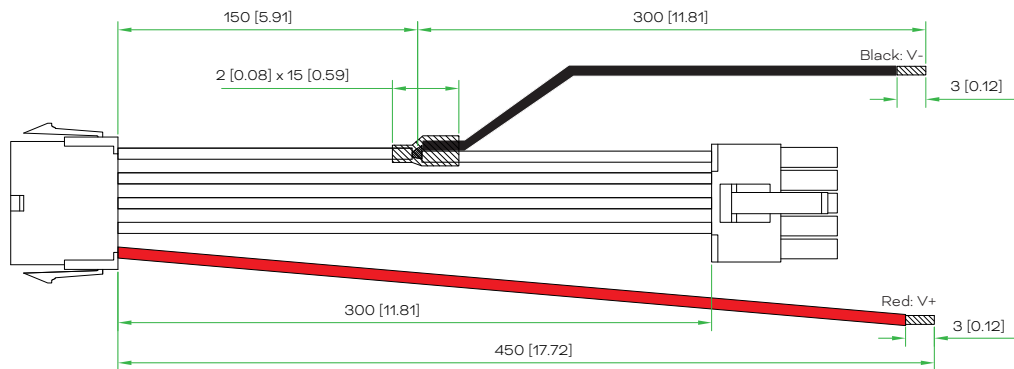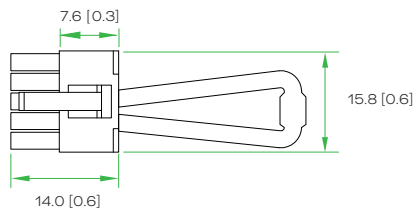
Connection Accessories

Unit: mm [inch]

PIXEL RIBBON GO OB 5PIN STARTER CABLE 0.3M IP20 (DA24102371455)

300 [11.81]

3 [0.12]

Red: V+
Green: Address
White: DMX+
Blue: DMX-
Black: V-

NOTE: Do not connect the Address cable.

PIXEL RIBBON GO OB 5PIN POWER INJ Y-CABLE IP20 (DA24102371555)

150 [5.91]

300 [11.81]

2 [0.08] x 15 [0.59]

Black: V-

3 [0.12]

300 [11.81]

Red: V+

3 [0.12]

450 [17.72]

PIXEL RIBBON GO OB 5PIN ENDCAP 120OHM IP20 (5PCS) (DA24102371655)

7.6 [0.3]

15.8 [0.6]

14.0 [0.6]

RB-RB 5PIN CONNECTOR IP20 (10PCS) (AM400830055)
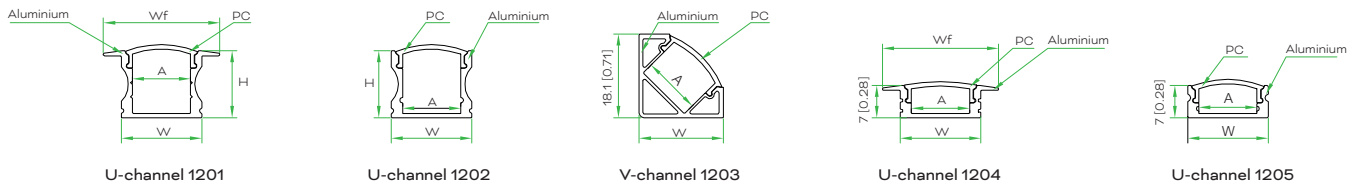For ribbon to ribbon re-connection after cutting. Cutting should be done every 100 mm (per pixel pitch).

17.0 [0.7]

19.6 [0.8]

7.2 [0.3]

17.0 [0.7]

7.2 [0.3]

19.6[0.8]

Mounting Accessories

Unit: mm [inch]

ALUMINIUM MOUNTING CHANNELS

U-channel 1201   U-channel 1202   V-channel 1203   U-channel 1204   U-channel 1205

	U-Channel	U-Channel	V-Channel	U-Channel	U-Channel
	1201	1202	1203	1204	1205
Item Code	AM400880055	AM400890055	AM400920055	AM400900055	AM400910055
W	17.3 [0.68]	17.3 [0.68]	18.1 [0.71]	17.3 [0.68]	17.3 [0.68]
Wf	25 [0.98]	-	-	25 [0.98]	-
A	12.5 [0.49]	12.5 [0.49]	12.5 [0.49]	12.5 [0.49]	12.5 [0.49]
H	14.5 [0.57]	14.5 [0.57]	18.1 [0.71]	7 [0.28]	7 [0.28]
Length	1000 [39.37]	1000 [39.37]	1000 [39.37]	1000 [39.37]	1000 [39.37]

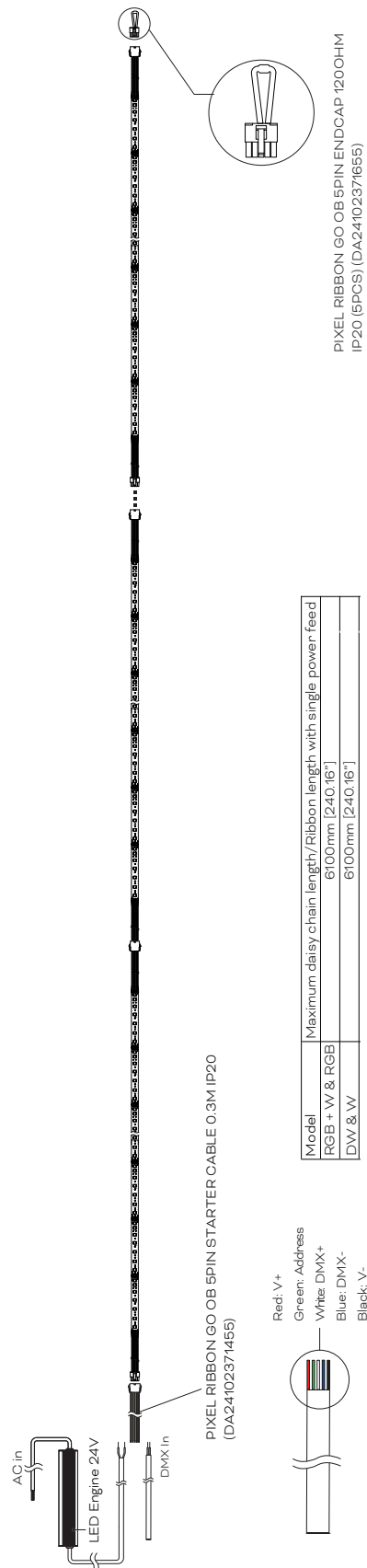* NOTE: Pixel Ribbon Go Flat is mounted to the channel with 3M tape.

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Product Specification   V1.0 02/25   6 of 9

Typical Wiring with 5-pin Starter Cable

NOTE: Mounting accessories not shown.

PIXEL RIBBON GO OB 5PIN ENDCAP 120OHM IP20 (5PCS) (DA24102371655)

PIXEL RIBBON GO OB 5PIN STARTER CABLE 0.3M IP20 (DA24102371455)

Red: V+
Green: Address
White: DMX+
Blue: DMX-
Black: V-

AC in
LED Engine 24V
DMX In

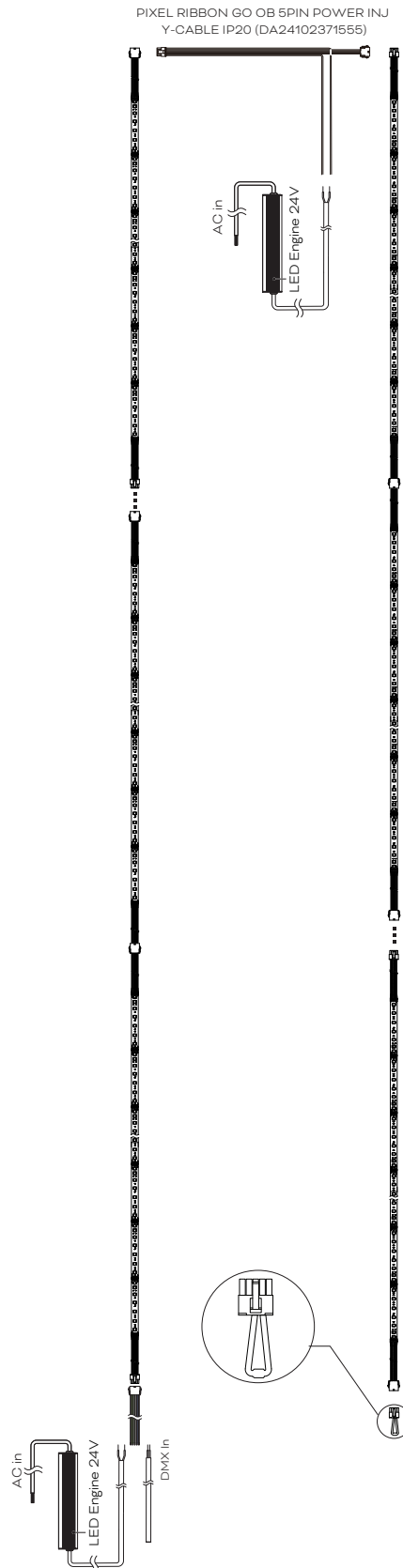| Model	Maximum daisy chain length/Ribbon length with single power feed
RGB + W & RGB	6100mm [240.16"]
DW & W	6100mm [240.16"]

NOTE: Do not connect the Address cable.

This wiring diagram shows only typical connections. Actual wiring depends on Ribbon configuration and installation. Actual no. varies according to cable lengths and signal source.
Maximum length per 100W 24v PSU is 20ft. Please consult your local Traxon office for aid.

Typical Power Injection Wiring with Y-cable

NOTE: Mounting accessories not shown.

PIXEL RIBBON GO OB 5PIN POWER INJ
Y-CABLE IP20 (DA24102371555)

AC in

LED Engine 24V

DMX In

NOTE: Power injection is required when Pixel Ribbon Go connection length reaches the maximum length with single power feed.
This wiring diagram shows only typical connections. Actual wiring depends on Ribbon configuration and installation. Actual no. varies according to cable lengths and signal source.
Maximum length per 100W 24v PSU is 20ft. Please consult your local Traxon office for aid.

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Pixel Ribbon Go Indoor

Ordering

Fixtures Model Number

PRG.	OB..	N	61	A	0	00
	Shape	LED color	Length	Pixels		
	OB.: Open Beam	1: RGBW (W=6500K)	61: 6100mm	A: 3 Pixels/ ft		
		2: RGB				
		3: DW (2700K & 5700K)				
		4: RGBW (W=3000K)				
		5: 2700K				
		6: 3000K				
		7: 4000K				

Desired Model Number:

PRG.	OB.	61	A	0	00

Fixtures

Model No.	Description	Item Code
PRG.OB.161A000	PIXEL RIBBON GO OB RGBW 10PPM 20FT EF IP20	DL24102365255
PRG.OB.261A000	PIXEL RIBBON GO OB RGB 10PPM 20FT EF IP20	DL24102365355
PRG.OB.361A000	PIXEL RIBBON GO OB DW2757 10PPM 20FT EF IP20	DL24102365455
PRG.OB.661A000	PIXEL RIBBON GO OB 830 10PPM 20FT EF IP20	DL24102365555

TX Connect

Description	Item Code
PIXEL RIBBON GO OB 5PIN STARTER CABLE 0.3M IP20	DA24102371455
PIXEL RIBBON GO OB 5PIN POWER INJ Y-CABLE IP20	DA24102371555
PIXEL RIBBON GO OB 5PIN ENDCAP 120OHM IP20 (5PCS)	DA24102371655
RB-RB 5PIN CONNECTOR IP20 (10PCS)	AM400830055

TX Mounting

Description	Item Code
U-CHANNEL INDOOR RIBBON 1201 1M	AM400880055
U-CHANNEL INDOOR RIBBON 1202 1M	AM400890055
U-CHANNEL INDOOR RIBBON 1204 1M	AM400900055
U-CHANNEL INDOOR RIBBON 1205 1M	AM400910055
U-CHANNEL INDOOR RIBBON 1203 1M	AM400920055

TX Power Supply & Control

Model No.	Description	Item Code
	LED ENGINE 100W 24V OUTDOOR	AM175860055
CD.SA.0000100	SMART ADDRESSER	AM438260055