traxon

Date: _____ Quantity: _____

Company: _____

Project: _____

Allegro Linear AC DW

The Allegro Linear AC DW family is a slim-profile, AC-line powered high-brightness luminaire. The family is controllable via DMX512, and is available in 1ft and 4ft lengths with tunable white, and various optics. The simplicity of the luminaire's topology means it can be easily daisy-chained to form long runs. Remote Device Management (RDM) circuits are built into each luminaire that enables extensive control and monitoring of the entire lighting installation.

Product Specifications

c ETL us | IP66 | Optional Accessories | DynaMood®

	300	1200
Light Source	High power LEDs	
Color Range	Dynamic White (2700K-5700K)	
Beam Angle	10°, 40°, 60° × 10°, 60° × 30°	
Luminous Flux	773-905 lm	3193-3740 lm
Efficacy	61-80 lm/W typ.	
Lumen Maintenance	L70 @25°C - 80,000hrs	
Cover Lens	Tempered glass cover	
Housing	Aluminium, powder coating	
Adjustment Options	±90 tilt	
Dimensions (L × W × H)	320 × 50 × 86mm 12.6" × 2.0" × 3.4"	1215 × 50 × 86mm 47.8" × 2.0" × 3.4"
Weight	2.0kg/4.4lb	5.5kg/12.1lb
Regulatory Listing & Safety Approval	cETLus, IEC 60598-2-3, 3G ANSI C136.31, IK07	
Operating Temperature	–30°C to +50°C / –22°F to +122°F (–20°C / –4°F starting)	
Storage Temperature	–40°C to +70°C / –40°F to +158°F	
Environment	Outdoor (IP66), suitable for coastal environments	
Humidity	85%, non-condensing	

Electrical Specifications

Input Voltage	120V - 277V AC nominal	
Power Consumption	15W	55W
Power Factor	≥ 0.9	

System Specifications

Power	AC line
Control	DMX512; Remote Device Management (RDM) DynaMood®: BinOne · BoostOne · AddressOne
Power Supply	Built-in
Fixture Interconnection	Refer to 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 compiles with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

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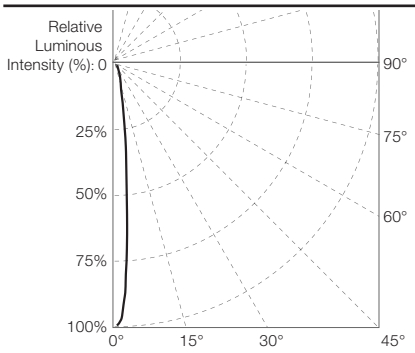
Allegro Linear AC DW

Photometrics

Source Specifications

Optics	10°

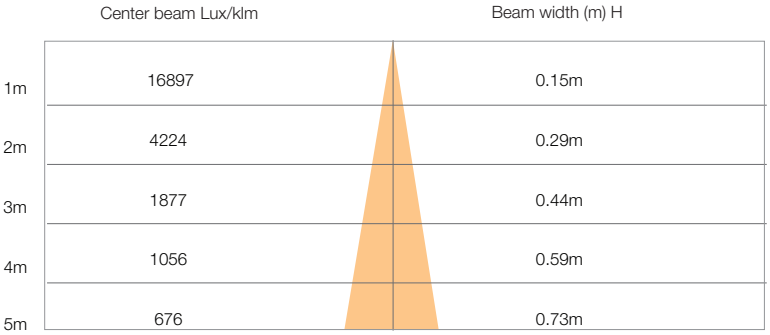
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
DW (full-on)	860.12	15678.4	70.16
2700K	373.4	6806.43	57.01
5700K	483.25	8808.8	73.11
1200			
DW (full-on)	3553.6	64776.2	76.57
2700K	1545.8	28177.8	62.31
5700K	2009.8	36635.3	80.23

Illuminance at a Distance



Horiz.Spread: 8.4°

For fc divide by 10.7

For feet multiply by 3.28

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

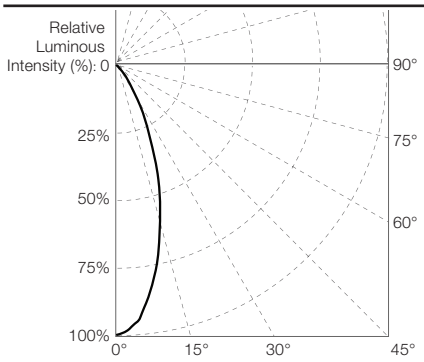
Allegro Linear AC DW

Photometrics

Source Specifications

Optics	40°

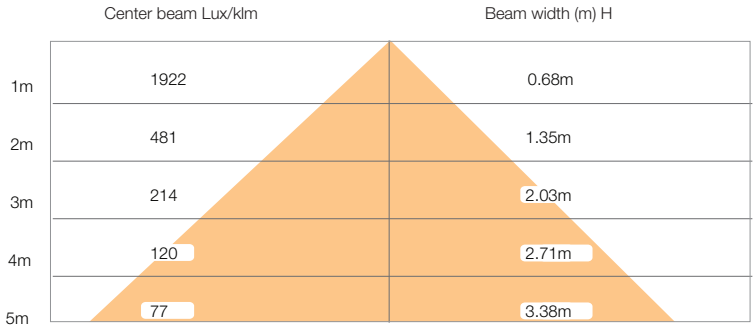
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
DW (full-on)	905.31	1747.31	74.39
2700K	393.02	758.557	60.46
5700K	508.64	981.719	77.54
1200			
DW (full-on)	3740.3	7219.09	79.99
2700K	1627.1	3140.34	65.16
5700K	2115.4	4082.91	83.91

Illuminance at a Distance



Horiz.Spread: 37.4°

For fc divide by 10.7

For feet multiply by 3.28

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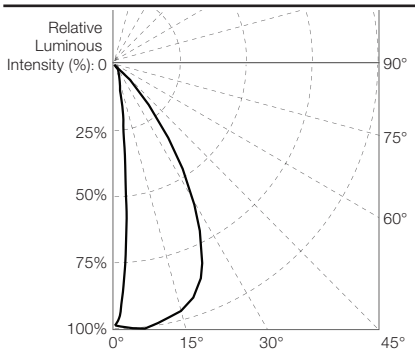
Allegro Linear AC DW

Photometrics

Source Specifications

Optics	60° x 10°

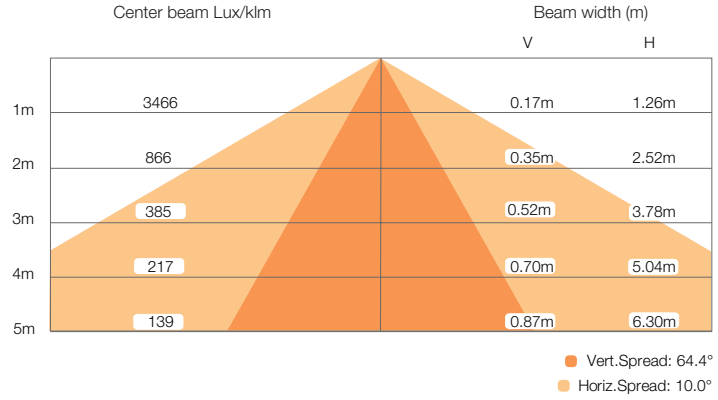
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
DW (full-on)	831.17	2667.08	67.85
2700K	360.83	1076.56	58.11
5700K	466.99	1498.48	71.19
1200			
DW (full-on)	3434	11019.1	73.27
2700K	1493.8	4456.84	62.9
5700K	1942.2	6232.06	77.35

Illuminance at a Distance



For fc divide by 10.7

For feet multiply by 3.28

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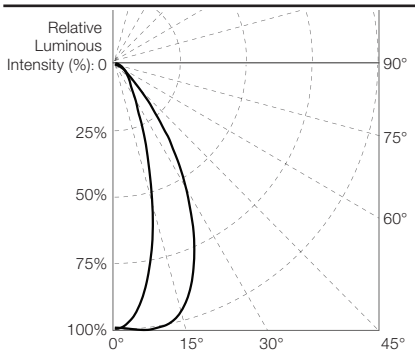
Allegro Linear AC DW

Photometrics

Source Specifications

Optics	60° x 30°

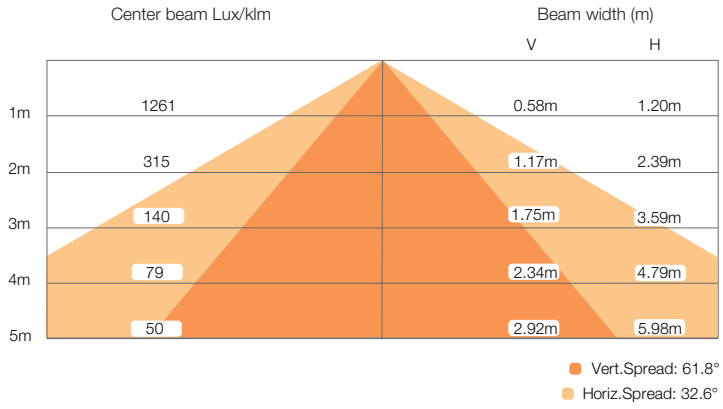
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
DW (full-on)	772.82	1045.61	61.08
2700K	335.5	453.925	44.34
5700K	434.2	587.465	58.22
1200			
DW (full-on)	3192.9	4319.97	73.51
2700K	1388.9	1879.2	60.19
5700K	1805.8	2443.23	77.76

Illuminance at a Distance



For fc divide by 10.7

For feet multiply by 3.28

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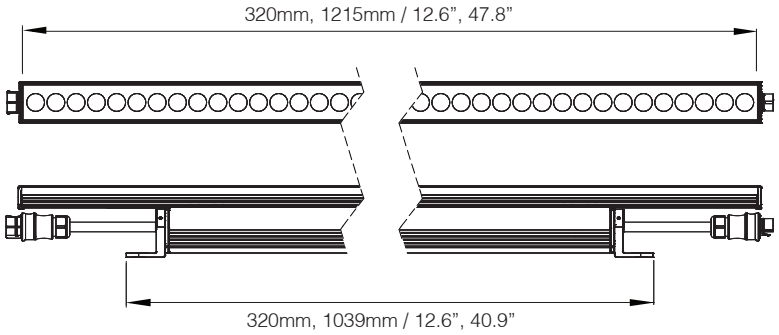
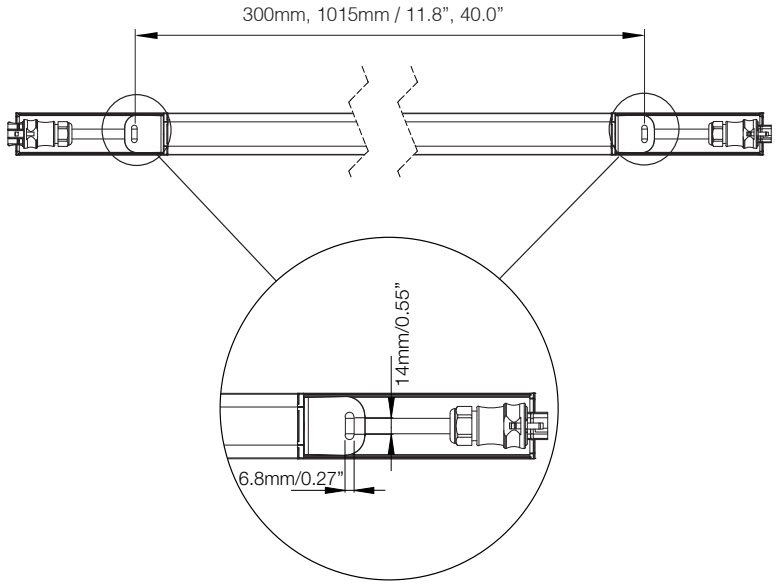
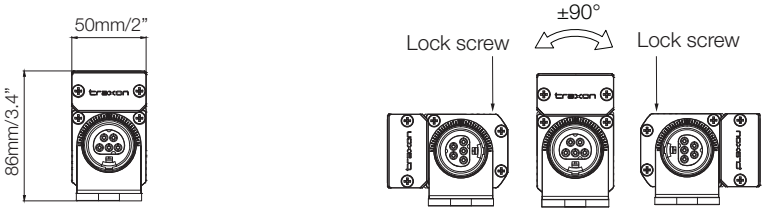
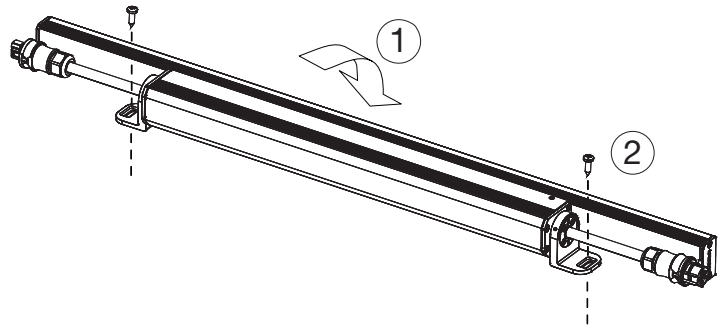
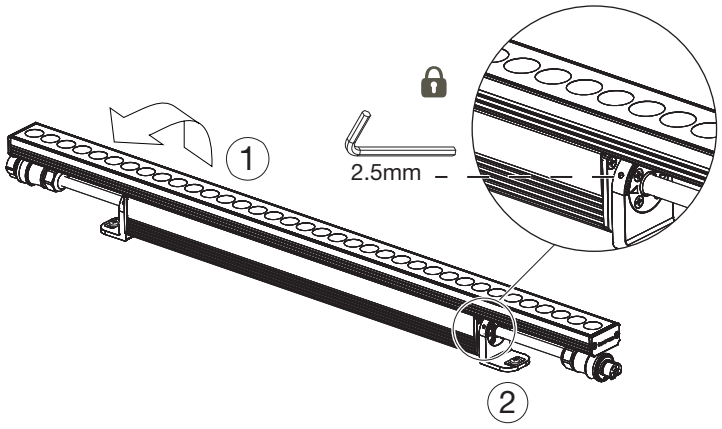
Allegro Linear AC DW — Dimensions

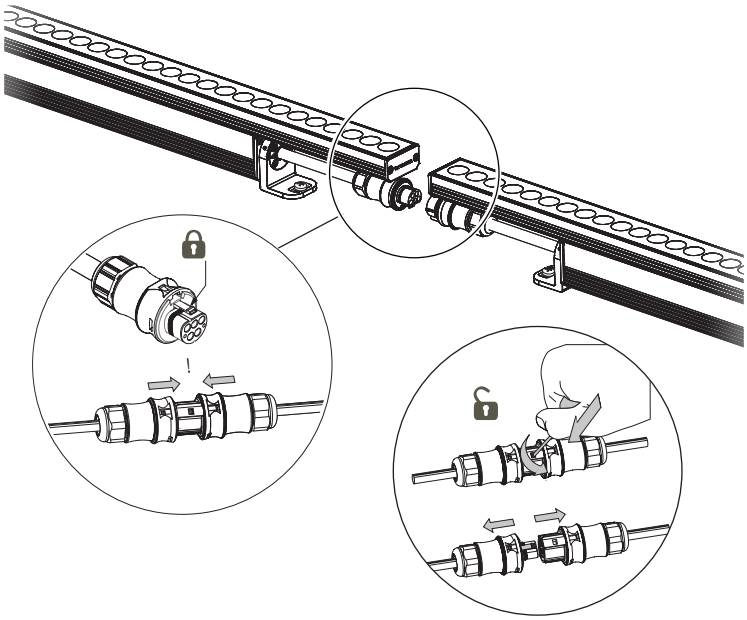












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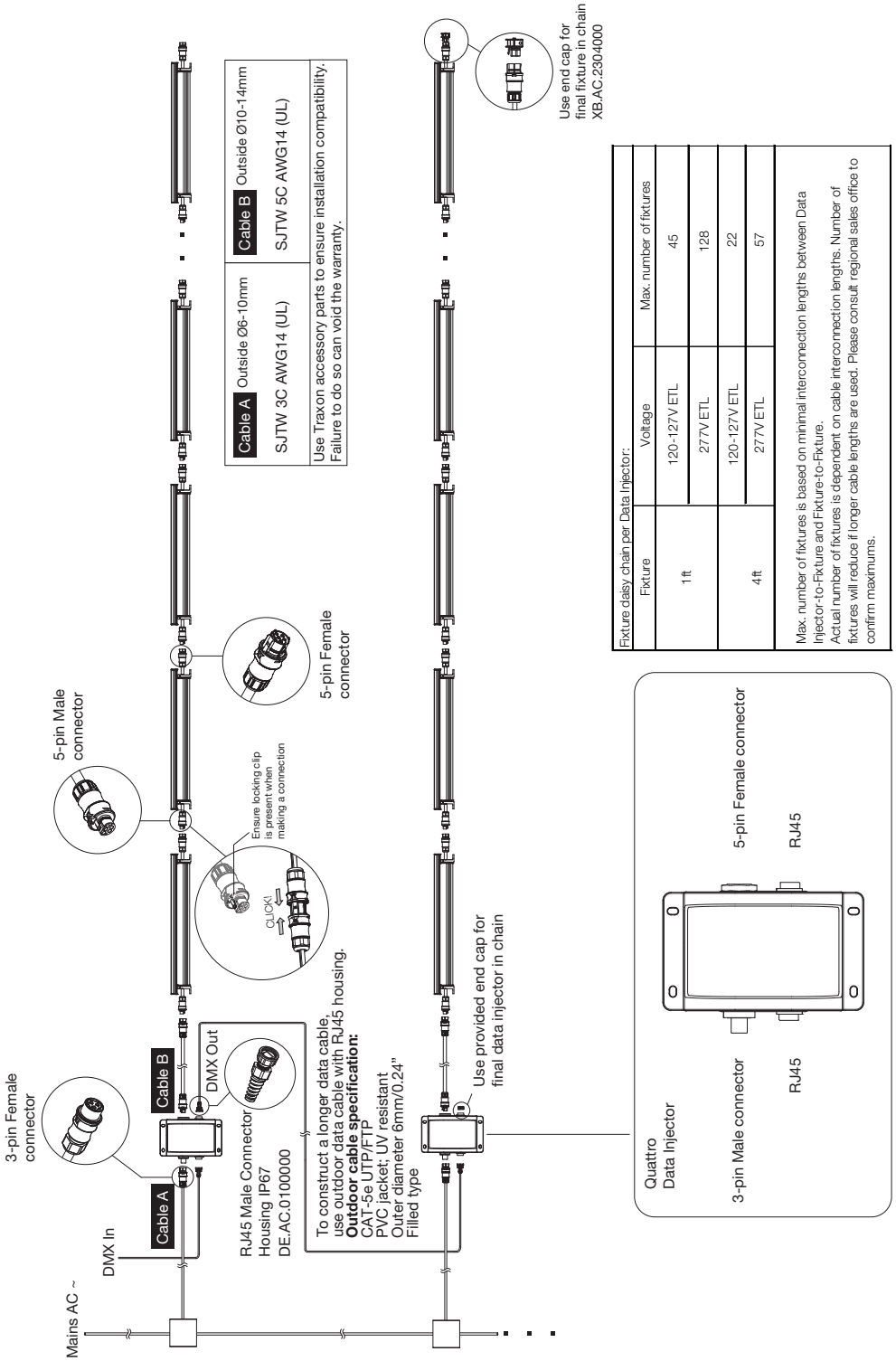
Allegro Linear AC DW — System Diagram



Fixture daisy chain per Data Injector:			
Fixture		Voltage	Max. number of fixtures
1ft		120-127V ETL	45
		277V ETL	128
4ft		120-127V ETL	22
		277V ETL	57

Max. number of fixtures is based on minimal interconnection lengths between Data Injector-to-Fixture and Fixture-to-Fixture.
Actual number of fixtures is dependent on cable interconnection lengths. Number of fixtures will reduce if longer cable lengths are used. Please consult regional sales office to confirm maximums.

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Allegro Linear AC DW

Ordering

Luminaire Models

Model No.	Description	Item Code
XB.N4.8381110	ALLEGRO LINEAR AC 1ft DW 10deg ETL 120/277V AC	AM351820055
XB.N4.8384110	ALLEGRO LINEAR AC 1ft DW 60X10deg ETL 120/277V AC	AM329270055
XB.N4.8387110	ALLEGRO LINEAR AC 1ft DW 60X30deg ETL 120/277V AC	AM351740055
XB.N4.8386110	ALLEGRO LINEAR AC 1ft DW 40deg ETL 120/277V AC	AM351900055
XB.N7.8381110	ALLEGRO LINEAR AC 4ft DW 10deg ETL 120/277V AC	AM351850055
XB.N7.8384110	ALLEGRO LINEAR AC 4ft DW 60X10deg ETL 120/277V AC	AM329310055
XB.N7.8387110	ALLEGRO LINEAR AC 4ft DW 60X30deg ETL 120/277V AC	AM351770055
XB.N7.8386110	ALLEGRO LINEAR AC 4ft DW 40deg ETL 120/277V AC	AM351930055

Accessories

Model No.	Description	Item Code
XB.AC.4000000	QUATTRO AC XB DATA INJECTOR 100-277V ETL/CE	AB389160055
XB.AC.2302000	5-pin Field Installable AC Connector Plug IP66	AA438580235
XB.AC.2303000	5-pin Field Installable AC Connector Socket IP66	AA438570235
XB.AC.3106000	3-pin Field Installable AC Connector Socket IP66	AA792890035
	XB 5C-AWG14 CABLE AC US 10M/32.8ft	AA639240054
	XB 5C-AWG14 CABLE AC US 50M/164ft	AA639250054
	XB 5C-AWG14 CABLE AC US 100M/328ft	AA569430155
	XB 3C-AWG14 CABLE AC US 10M/32.8ft	AA639270054
	XB 3C-AWG14 CABLE AC US 50M/164ft	AA639260054
	XB 3C-AWG14 CABLE AC US 100M/328ft	AA556630155
DE.AC.0100000	RJ45 Male Connector Housing IP67	AA556100155
XB.AC.2304000	5-pin Connector Socket End Cap IP66	AA508870335

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