

Allegro Linear AC RGBA



The Allegro Linear AC RGBA 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 16.7 million additive RGB colors plus amber, 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



	300	1200
Light Source	High power LEDs	
Color Range	RGBA	
Beam Angle	10°, 40°, 60° × 10°, 60° × 30°	
Luminous Flux	495-579 lm	1994-2336 lm
Efficacy	40-51 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 x W x H)	320 x 50 x 86mm 12.6" x 2.0" x 3.4"	1215 x 50 x 86mm 47.8" x 2.0" x 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 complies with LM-79-08 standard.
 Lumen maintenance is calculated based on LM-80 compliant measurement.

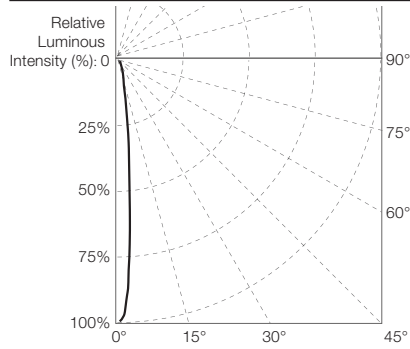
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Source Specifications

Optics 10°

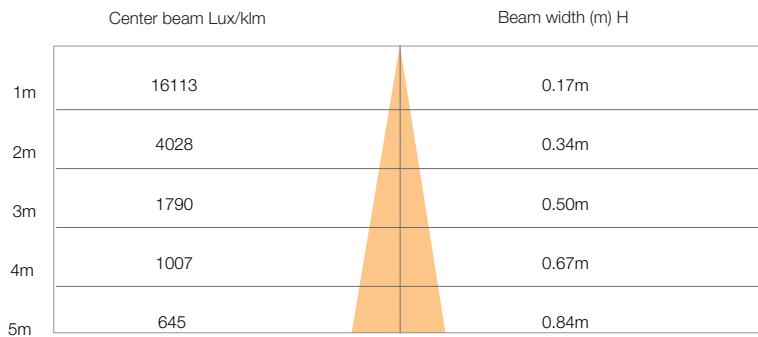
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
RGBA (full-on)	551.03	8879	44.3
Amber (RGB off)	120.98	1949.4	28
RGB	429.05	6913.5	40.9
Red	122.2	1969.1	26.9
Green	290.71	4684.3	54.7
Blue	19.266	310.43	3.5
1200			
RGBA (full-on)	2219.4	35763	48
Amber (RGB off)	487.28	7851.7	41
RGB	1728.1	27846	50
Red	492.21	7931.2	41.2
Green	1170.9	18867	83
Blue	77.597	1250.4	6.46

Illuminance at a Distance



● Horiz. Spread: 9.6°
For feet multiply by 3.28

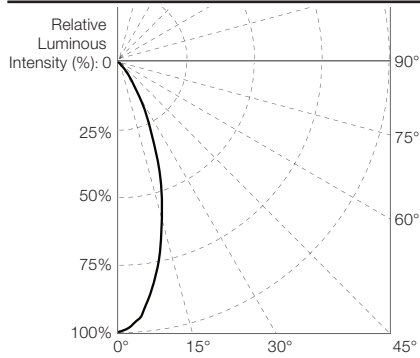
For fc divide by 10.7

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

Source Specifications

Optics 40°

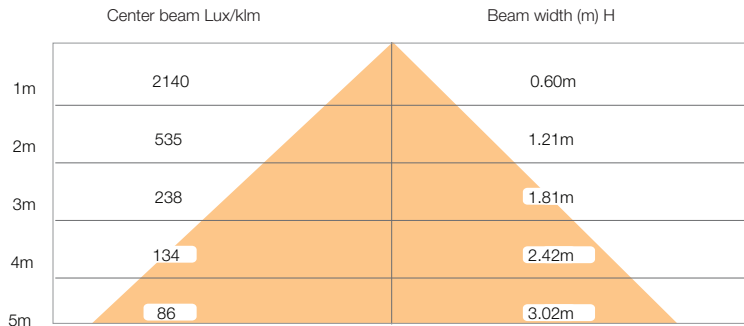
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
RGBA (full-on)	579.98	1241.4	46.6
Amber (RGB off)	127.34	272.56	29.3
RGB	451.59	966.61	42.8
Red	128.62	275.31	28.7
Green	305.98	654.94	58
Blue	20.278	43.403	3.76
1200			
RGBA (full-on)	2336	5000.1	50.6
Amber (RGB off)	512.88	1097.8	42.9
RGB	1818.9	3893.3	52.3
Red	518.07	1108.9	44.1
Green	1232.4	2637.9	87.8
Blue	81.674	174.82	6.93

Illuminance at a Distance



● Horiz.Spread: 33.6°

For fc divide by 10.7

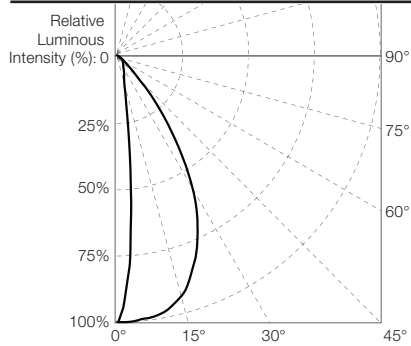
For feet multiply by 3.28

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

Source Specifications

Optics 60° x 10°

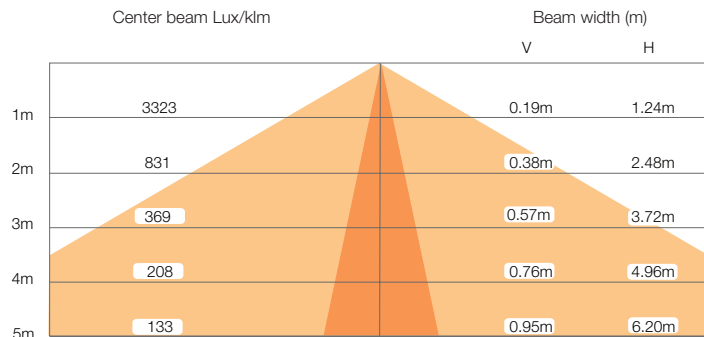
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
RGBA (full-on)	532.48	8580.1	43
Amber (RGB off)	116.91	1883.8	27.1
RGB	414.61	6680.8	39.4
Red	118.09	1902.8	26.6
Green	280.92	4526.6	53
Blue	18.617	299.98	3.41
1200			
RGBA (full-on)	2144.7	34559	46.7
Amber (RGB off)	470.88	7587.4	39.6
RGB	1669.9	26908	48.2
Red	475.64	7664.2	40.8
Green	1131.5	18232	80.3
Blue	74.985	1208.3	6.29

Illuminance at a Distance



● Vert. Spread: 63.6°
 ● Horiz. Spread: 10.8

For fc divide by 10.7

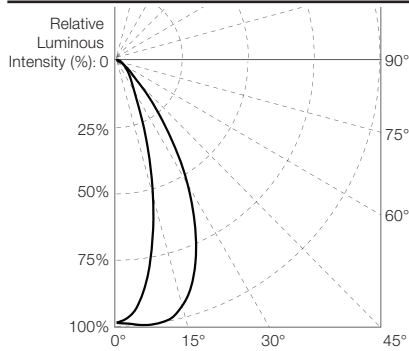
For feet multiply by 3.28

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

Source Specifications

Optics 60° x 30°

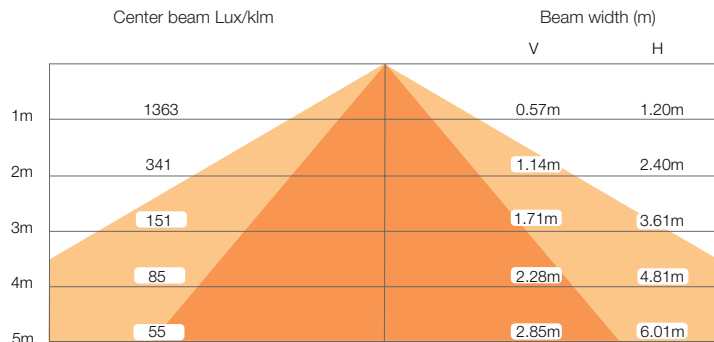
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
RGBA (full-on)	495.1	679.41	39.8
Amber (RGB off)	108.7	149.17	25.1
RGB	385.5	529.01	36.6
Red	109.8	150.68	24.2
Green	261.2	358.44	49.2
Blue	17.31	23.754	3.15
1200			
RGBA (full-on)	1994.1	2736.5	43.2
Amber (RGB off)	437.82	600.8	36.7
RGB	1552.7	2130.7	44.7
Red	442.25	606.88	37.1
Green	1052.1	1443.7	74.6
Blue	69.721	95.675	5.81

Illuminance at a Distance

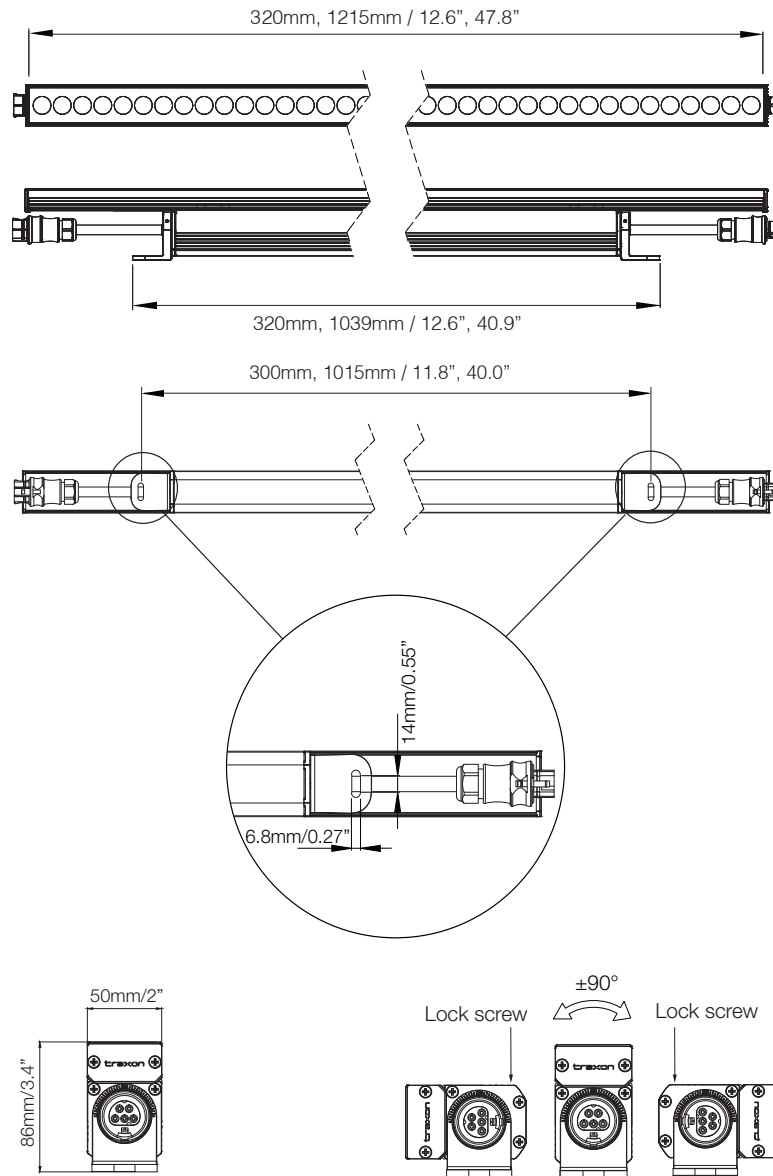


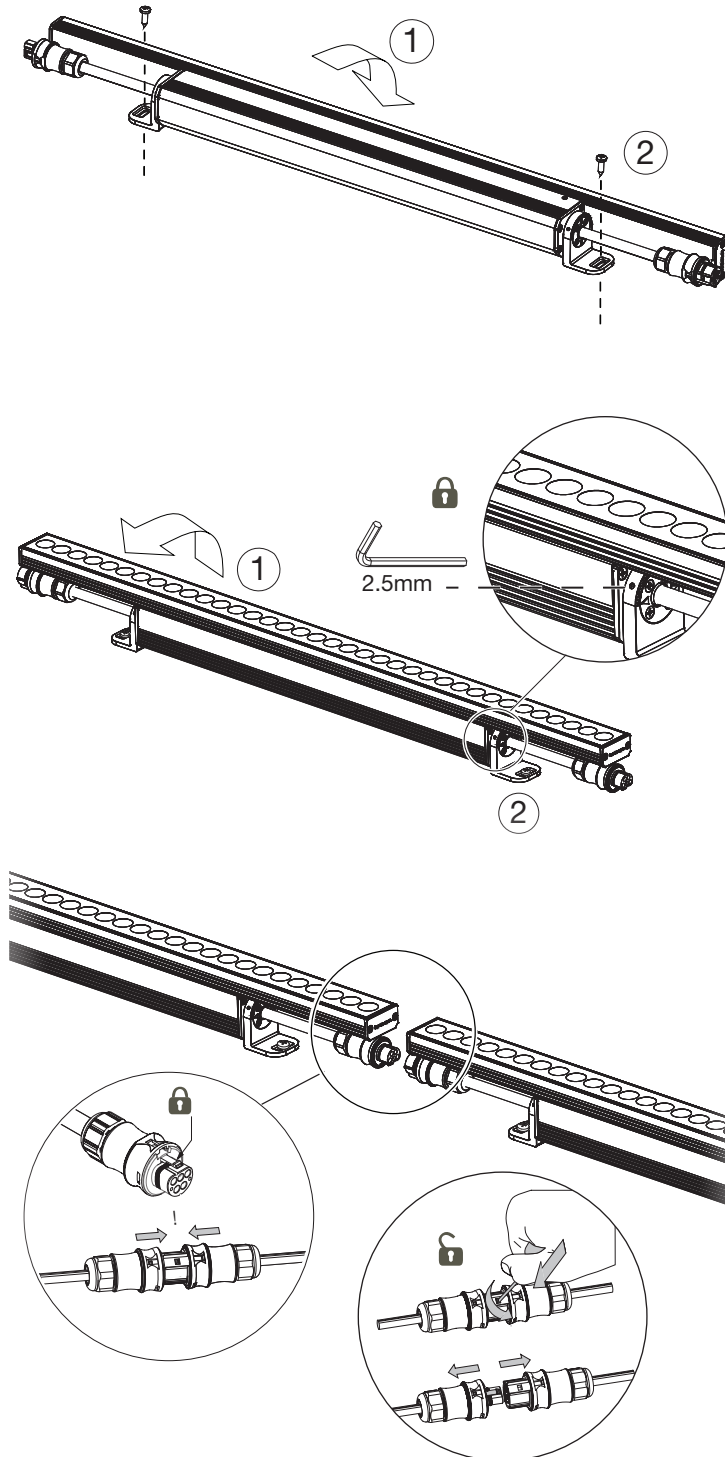
- Vert. Spread: 62.0°
- Horiz. Spread: 31.8°

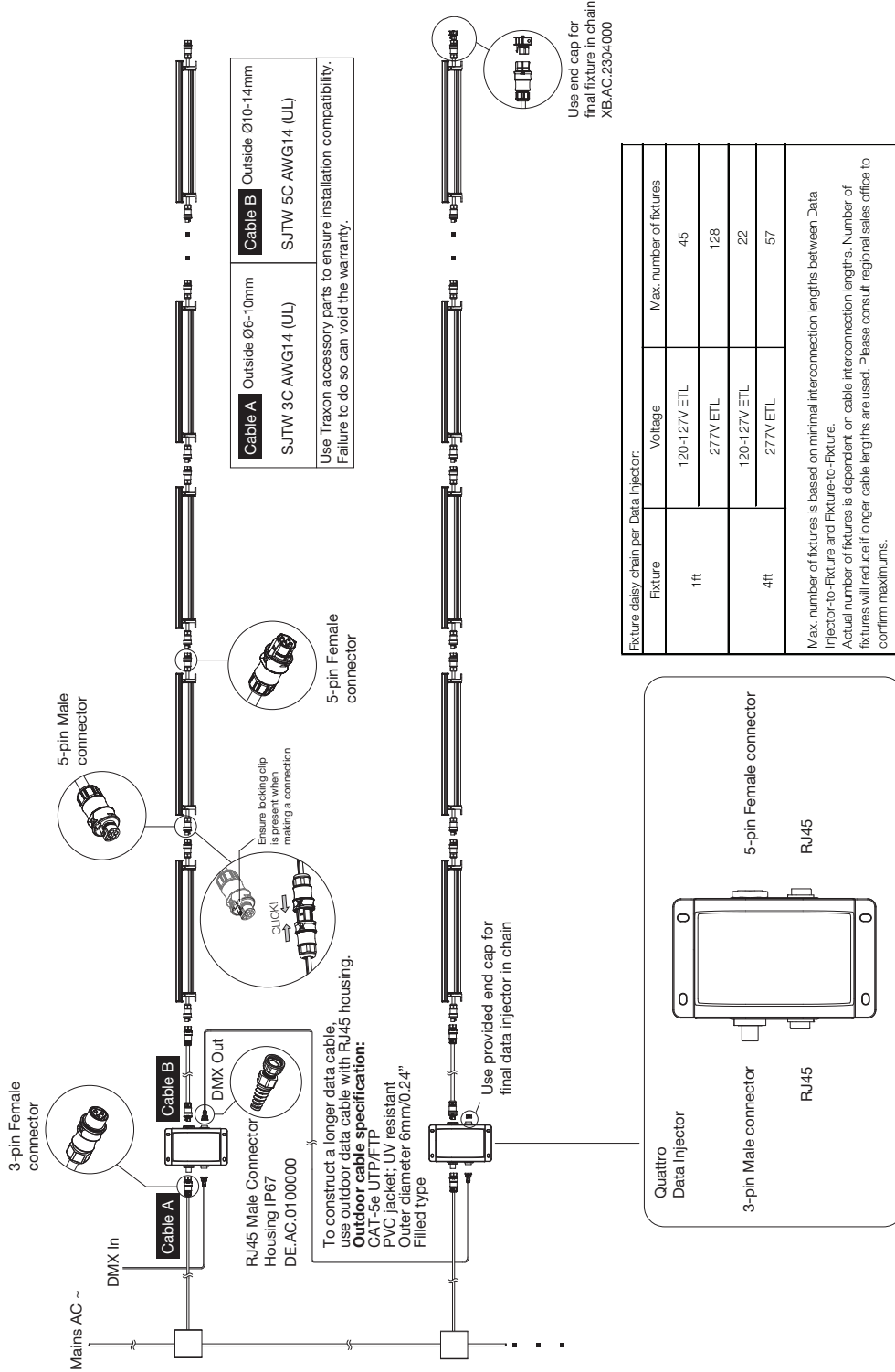
For fc divide by 10.7

For feet multiply by 3.28

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Allegro Linear AC RGBA

Ordering

Luminaire Models

Model No.	Description	Item Code
XB.N4.83B1110	ALLEGRO LINEAR AC 1ft RGBA 10deg ETL 120/277V AC	AM354250055
XB.N4.83B4110	ALLEGRO LINEAR AC 1ft RGBA 60X10deg ETL 120/277V AC	AM327780055
XB.N4.83B7110	ALLEGRO LINEAR AC 1ft RGBA 60X30deg ETL 120/277V AC	AM354370055
XB.N4.83B6110	ALLEGRO LINEAR AC 1ft RGBA 40deg ETL 120/277V AC	AM354330055
XB.N7.83B1110	ALLEGRO LINEAR AC 4ft RGBA 10deg ETL 120/277V AC	AM354280055
XB.N7.83B4110	ALLEGRO LINEAR AC 4ft RGBA 60X10deg ETL 120/277V AC	AM327810055
XB.N7.83B7110	ALLEGRO LINEAR AC 4ft RGBA 60x30deg ETL 120/277V AC	AM354400055
XB.N7.83B6110	ALLEGRO LINEAR AC 4ft RGBA 40deg ETL 120/277V AC	AM354360055

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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