

1.8m | 6ft ValuLine® Low Wind Load Antenna, dual-polarized, 7.125 – 8.500 GHz, grey, PDR84 flange

OBSOLETE

This product was discontinued on: May 1, 2022

Replaced By:

LX6-7W-4WH 1.8m | 6ft ValuLine® Low Wind Load Antenna, dual-polarized, 7.125 – 8.500 GHz, white, PDR84 flange

Product Classification

Product Type Microwave antenna

Product Brand ValuLine®

General Specifications

Antenna Type LX - ValuLine® Low Wind Load Antenna, dual-polarized

PolarizationDualAntenna InputPDR84Antenna ColorGray

Reflector Construction One-piece reflector

Radome ColorGrayRadome MaterialMoldedFlash IncludedNo

Side Struts, Included 1
Side Struts, Optional 1

Dimensions

Diameter, nominal 1.8 m | 6 ft

Electrical Specifications

Operating Frequency Band 7.125 – 8.500 GHz

Gain, Low Band 39.2 dBi

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Gain, Mid Band39.7 dBiGain, Top Band40.3 dBiFront-to-Back Ratio60 dBReturn Loss23.9 dBVSWR1.14Radiation Pattern Envelope Reference (RPE)7439

Electrical Compliance IC 3059A | IC 3064A | US FCC Part 101A | US FCC Part 74A

Electrical Specifications, Band 2

Beamwidth, Horizontal1.6 °Beamwidth, Vertical1.6 °Boresite Cross Polarization Discrimination (XPD)33 dB

Mechanical Specifications

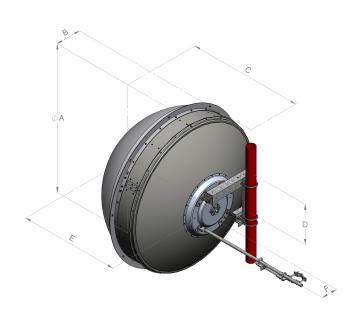
Compatible Mounting Pipe Diameter 115 mm | 4.5 in

Fine Azimuth Adjustment Range $\pm 5^{\circ}$ Fine Elevation Adjustment Range $\pm 15^{\circ}$

Wind Speed, operational180 km/h| 111.847 mphWind Speed, survival200 km/h| 124.274 mph



Antenna Dimensions and Mounting Information



	Dimensions in inches (mm)					
Antenna size, ft (m)	Α	В	С	D	E	F
6 (1.8)	76.5 (1942)	13.4 (340)	60.0 (1523)	20.9 (530)	51.9 (1317)	8.4 (214)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA) 4670 N | 1,049.858 lbf

Angle α for MT Max -120 $^{\circ}$

Side Force (FS) 2050 N | 460.858 lbf

Twisting Moment (MT) 2500 N-m | 22,126.863 in lb

Force on Inboard Strut Side 2900 N | 651.946 lbf

bice on imboard Struc Side 2900 in | 031.940 ib

Zcg without Ice 490 mm | 19.291 in

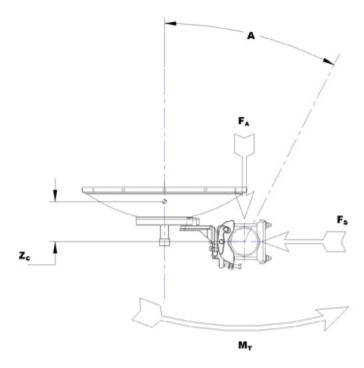
Zcg with 1/2 in (12 mm) Radial Ice 540 mm | 21.26 in

Weight with 1/2 in (12 mm) Radial Ice 191 kg | 421.082 lb

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Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

 Height, packed
 2150 mm | 84.646 in

 Width, packed
 1225 mm | 48.228 in

 Length, packed
 2070 mm | 81.496 in

Packaging Type Standard pack

 Volume
 5.5 m³ | 194.231 ft³

 Weight, gross
 186 kg | 410.059 lb

 Weight, net
 86 kg | 189.597 lb

Regulatory Compliance/Certifications

CHINA-ROHS	Below maximum concentration value

Classification

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



Agency

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* Footnotes

Operating Frequency Band

Bands correspond with CCIR recommendations or common allocations used

throughout the world. Other ranges can be accommodated on special order.

Gain, Mid Band For a given frequency band, gain is primarily a function of antenna size. The

gain of Andrew antennas is determined by either gain by comparison or by

computer integration of the measured antenna patterns.

Front-to-Back Ratio Denotes highest radiation relative to the main beam, at 180° ±40°, across the

band. Production antennas do not exceed rated values by more than 2 dB

unless stated otherwise.

Return LossThe figure that indicates the proportion of radio waves incident upon the

antenna that are rejected as a ratio of those that are accepted.

VSWR Maximum; is the guaranteed Peak Voltage-Standing-Wave-Ratio within the

operating band.

Radiation Pattern Envelope Reference (RPE) Radiation patterns define an antenna's ability to discriminate against unwanted

signals. Under still dry conditions, production antennas will not have any peak exceeding the current RPE by more than 3dB, maintaining an angular accuracy

of +/-1° throughout

Wind Speed, operational For VHLP(X), SHP(X), HX and USX antennas, the wind speed where the

maximum antenna deflection is 0.3 x the 3 dB beam width of the antenna. For other antennas, it is defined as a deflection is equal to or less than 0.1 degrees.

Wind Speed, survival

The maximum wind speed the antenna, including mounts and radomes, where

applicable, will withstand without permanent deformation. Realignment may be required. This wind speed is applicable to antenna with the specified amount of

radial ice.

Axial Force (FA)Maximum forces exerted on a supporting structure as a result of wind from the

most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.

Side Force (FS)Maximum side force exerted on the mounting pipe as a result of wind from the

most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.

Twisting Moment (MT)Maximum forces exerted on a supporting structure as a result of wind from the

most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.

Packaging Type Andrew standard packing is suitable for export. Antennas are shipped as

standard in totally recyclable cardboard or wire-bound crates (dependent on product). For your convenience, Andrew offers heavy duty export packing

options.

COMMSC PE°