

1.8 m | 6 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 17.700–19.700 GHz, UG-595/U modified, white antenna, flexible woven polymer gray radome without flash, standard pack—one-piece reflector

Product Classification

Product Type Microwave antenna

Product Brand ValuLine®

General Specifications

Antenna Type VHLPX - ValuLine® High Performance Low Profile Antenna, dual-

polarized

Polarization Dual

Antenna Input UG-595/U Modified

Antenna Color White

Reflector Construction One-piece reflector

Radome ColorGrayRadome MaterialPolymerFlash IncludedNo

Side Struts, Included 1

Side Struts, Optional 1 inboard

Dimensions

Diameter, nominal 1.8 m | 6 ft

Electrical Specifications

Operating Frequency Band 17.700 – 19.700 GHz

Gain, Low Band47.5 dBiGain, Mid Band48 dBiGain, Top Band48.5 dBiBoresite Cross Polarization Discrimination (XPD)30 dB

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Front-to-Back Ratio78 dBBeamwidth, Horizontal0.7 °Beamwidth, Vertical0.7 °Return Loss17.7 dBVSWR1.3

Radiation Pattern Envelope Reference (RPE) 7064B

Electrical Compliance Brazil Anatel Class 3 | Canada SRSP 317.8 Part A | ETSI 302 217

Class 3 | US FCC Part 101A

Mechanical Specifications

Compatible Mounting Pipe Diameter 115 mm – 120 mm | 4.5 in – 4.7 in

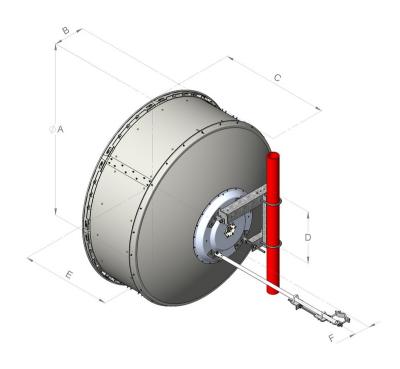
Fine Azimuth Adjustment Range $\pm 15^{\circ}$ Fine Elevation Adjustment Range $\pm 5^{\circ}$

 Wind Speed, operational
 180 km/h | 111.847 mph

 Wind Speed, survival
 250 km/h | 155.343 mph



Antenna Dimensions and Mounting Information



Dimensions in inches (mm)						
Antenna size, ft (m)	А	В	С	D	E	F
6 (1.8)	74.8 (1899)	13.4 (340)	47.5 (1206)	22.4 (570)	39.4 (1001)	6.9 (174)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA) 10670 N | 2,398.712 lbf

Angle a for MT Max -120°

Side Force (FS) 5286 N | 1,188.34 lbf

Twisting Moment (MT) 4752 N-m | 42,058.742 in lb

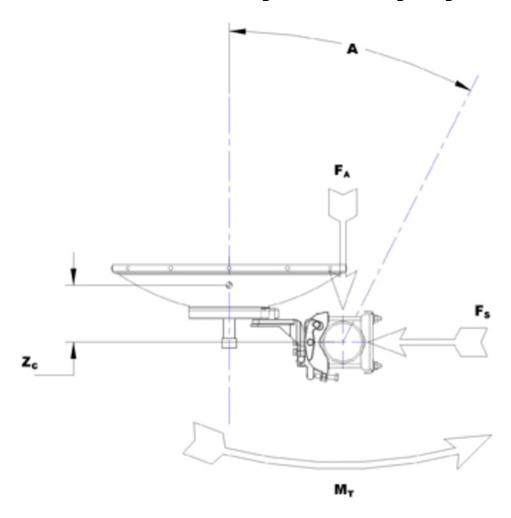
Zcg without Ice 363 mm | 14.291 in

Zcg with 1/2 in (12 mm) Radial Ice 543 mm | 21.378 in

Weight with 1/2 in (12 mm) Radial Ice 234 kg | 515.881 lb

COMMSCOPE°

Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Height, packed 2110 mm | 83.071 in Width, packed 450 mm | 17.717 in Length, packed 1900 mm | 74.803 in **Packaging Type**

Volume 1.8 m³ | 63.566 ft³ Weight, gross 127 kg | 279.987 lb Weight, net 86 kg | 189.597 lb

Standard pack

Regulatory Compliance/Certifications



Agency

Classification

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system



* 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.

Boresite Cross Polarization Discrimination (XPD) The difference between the peak of the co-polarized main beam and the

maximum cross-polarized signal over an angle twice the 3 dB beamwidth

of the co-polarized main beam.

Front-to-Back RatioDenotes 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

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

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.

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.

Twisting Moment (MT)

Packaging Type