

1.8 m | 6 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 10.000–11.700 GHz, CPR90G, 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

VHLP - ValuLine® High Performance Low Profile Antenna, single-

polarized

PolarizationSingleAntenna InputCPR90GAntenna ColorWhite

Reflector Construction One-piece reflector

Radome Color Gray

Radome Material Polymer

Flash Included No
Side Struts, Included 1

Side Struts, Optional 1 inboard

Dimensions

Beamwidth, Horizontal

Diameter, nominal 1.8 m | 6 ft

Electrical Specifications

Operating Frequency Band 10.000 – 11.700 GHz

Gain, Low Band43.2 dBiGain, Mid Band44 dBiGain, Top Band44.8 dBiBoresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio70 dB

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1 °

Beamwidth, Vertical 1 °

Return Loss 17.7 dB

VSWR 1.3

Radiation Pattern Envelope Reference (RPE) 7366A

Electrical Compliance Brazil Anatel Class 3 | Canada SRSP 310.5 | Canada SRSP 310.7

Part B | ETSI 302 217 Class 3 | US FCC Part 101A

Mechanical Specifications

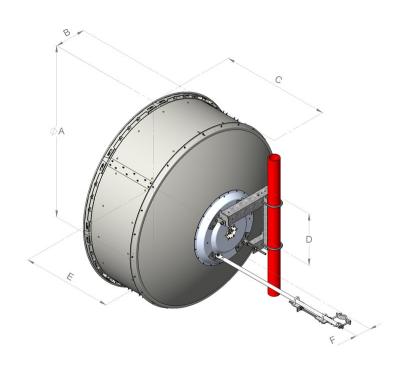
Compatible Mounting Pipe Diameter 115 mm – 120 mm | 4.5 in – 4.7 in

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

Wind Speed, operational180 km/h| 111.847 mphWind Speed, survival250 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 α for MT Max -120 $^{\circ}$

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

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

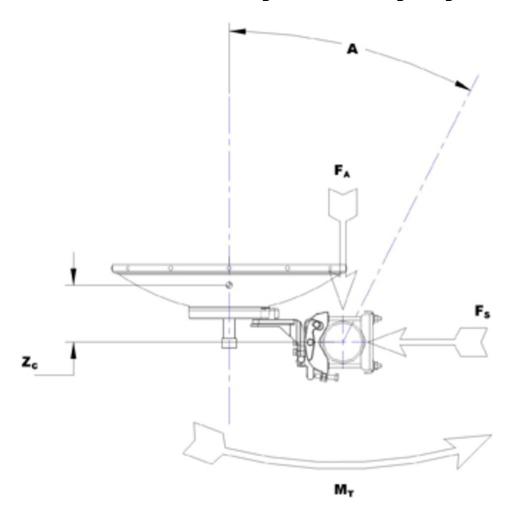
Zcg without Ice 363 mm | 14.291 in

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

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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

 1000 | 74.000 in

Length, packed 1900 mm | 74.803 in

Packaging TypeStandard pack

 Volume
 1.8 m³ | 63.566 ft³

 Weight, gross
 127 kg | 279.987 lb

 Weight, net
 86 kg | 189.597 lb

Regulatory Compliance/Certifications

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Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system
REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

* 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

the most critical direction for this parameter. The individual maximums

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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.

Packaging Type

Twisting Moment (MT)