

0.6m | 2ft ValuLine High Performance Antenna, single polarized, 17.700 – 19.700 GHz, PBR220 Flange, White Antenna, Grey Radome

#### **OBSOLETE**

This product was discontinued on: May 1, 2022

Replaced By:

VHLPX2-18-2WH/D 0.6m | 2ft ValuLine High Performance Antenna, dual polarized, 17.700 – 19.700 GHz, PBR220 Flange,

White Antenna, Grey Radome

#### Product Classification

Product Type Microwave antenna

Product Brand ValuLine®

General Specifications

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

polarized

PolarizationSingleAntenna InputPBR220

Antenna Color White

**Reflector Construction** One-piece reflector

Radome Color Gray

Radome Material Composite Broadband

Flash Included No
Side Struts, Included 0
Side Struts, Optional 0

Dimensions

**Diameter, nominal** 0.6 m | 2 ft

**Electrical Specifications** 

**Operating Frequency Band** 17.700 – 19.700 GHz

**COMMSCOPE®** 

38.6 dBi Gain, Low Band 39 dBi Gain, Mid Band Gain, Top Band 39.4 dBi **Boresite Cross Polarization Discrimination (XPD)** 30 dB Front-to-Back Ratio 67 dB Beamwidth, Horizontal 2.1° Beamwidth, Vertical 2.1 ° **Return Loss** 17.7 dB **VSWR** 1.3 Radiation Pattern Envelope Reference (RPE) 7204D

Electrical Compliance ACMA FX03\_18a | 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** 48 mm-120 mm | 1.9 in-4.7 in

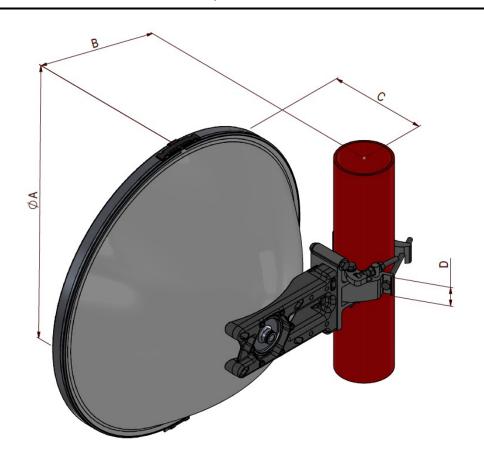
Fine Azimuth Adjustment Range ±15°
Fine Elevation Adjustment Range ±15°

 Wind Speed, operational
 180 km/h | 111.847 mph

 Wind Speed, survival
 252 km/h | 156.585 mph

Antenna Dimensions and Mounting Information





Dimensions in Inches (mm)				
Antenna Size, ft (m)	Α	В	С	D
2 (0.6)	25.9 (660)	12.2 (310)	8.9 (228)	1.8 (45)

### Wind Forces at Wind Velocity Survival Rating

**Axial Force (FA)** 1400 N | 314.733 lbf

Angle  $\alpha$  for MT Max  $-50\,^{\circ}$ 

**Side Force (FS)** -350 N | -78.683 lbf

**Twisting Moment (MT)** 500 N-m | 4,425.373 in lb

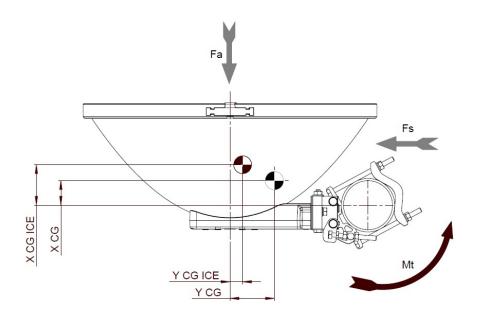
**Zcg without Ice** 55 mm | 2.165 in

**Zcg with 1 in (25 mm) Radial Ice** 91 mm | 3.583 in

**Weight with 1 in (25 mm) Radial Ice** 20 kg | 44.092 lb

Wind Forces at Wind Velocity Survival Rating Image





### Packaging and Weights

 Height, packed
 329 mm
 1 12.953 in

 Width, packed
 729 mm
 28.701 in

 Length, packed
 697 mm
 27.441 in

Packaging Type Standard pack

 Volume
 0.17 m³ | 6.003 ft³

 Weight, gross
 8.3 kg | 18.298 lb

 Weight, net
 5.75 kg | 12.677 lb

### 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.

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**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 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 Loss**The 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

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packing options.

