

0.6 m | 2 ft ValuLine® High Performance Low Profile Antenna, dual-polarized, 17.700–19.700 GHz, PBR220 flange, white antenna, composite broadband gray radome without flash, compact pack—one-piece reflector

OBSOLETE

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 VHLPX - ValuLine® High Performance Low Profile

Antenna, dual-polarized

Polarization Dual

Antenna Input PBR220

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

Gain, Low Band38.6 dBiGain, Mid Band39 dBiGain, Top Band39.4 dBiBoresite Cross Polarization Discrimination (XPD)30 dBFront-to-Back Ratio67 dB

Beamwidth, Horizontal $$2.1\,^\circ$$ Beamwidth, Vertical $$2.1\,^\circ$$

Return Loss 17.7 dB VSWR 1.3

Radiation Pattern Envelope Reference (RPE) 7216C

Electrical ComplianceBrazil Anatel Class 2 | Canada SRSP 317.8 Part

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

Cross Polarization Discrimination (XPD) Electrical Compliance ETSI EN 302217 XPD Category 2

Mechanical Specifications

Compatible Mounting Pipe Diameter 50 mm – 120 mm | 2.0 in – 4.7 in

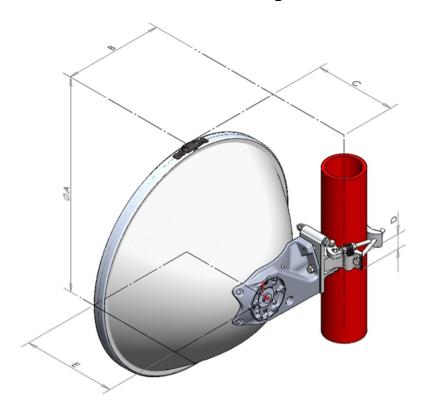
Fine Azimuth Adjustment Range ±15°
Fine Elevation Adjustment Range ±15°

 Wind Speed, operational
 180 km/h | 111.847 mph

 Wind Speed, survival
 250 km/h | 155.343 mph



Antenna Dimensions and Mounting Information



Dimension in Inches (mm)					
Antenna size, ft (m)	Α	В	С	D	E
2 (0.6)	26 (660)	11.9 (307)	9.9 (252)	1.8 (45)	11.4 (289)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA) 1290 N | 290.004 lbf

Side Force (FS) 639 N | 143.653 lbf

Twisting Moment (MT) 395 N-m | 3,496.045 in lb

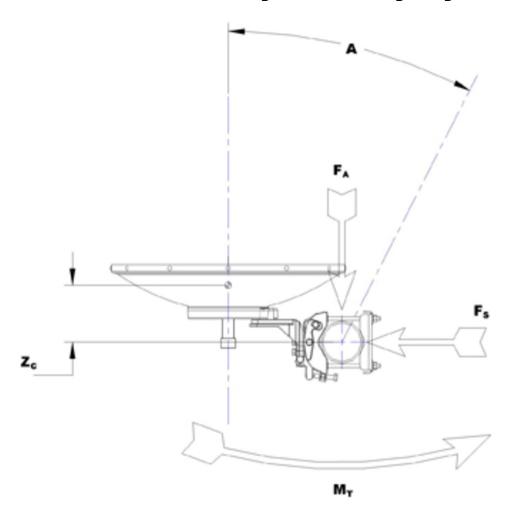
Zcg without Ice 74 mm | 2.913 in

Zcg with 1/2 in (12 mm) Radial Ice 106 mm | 4.173 in

Weight with 1/2 in (12 mm) Radial Ice 21 kg | 46.297 lb



Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Volume

 Height, packed
 354 mm | 13.937 in

 Width, packed
 695 mm | 27.362 in

 Length, packed
 730 mm | 28.74 in

ength, packed /30 mm | 28.74 in

Packaging Type Compact pack

 Weight, gross
 10.8 kg | 23.81 lb

 Weight, net
 8 kg | 17.637 lb

Regulatory Compliance/Certifications



0.2 m³ | 7.063 ft³

Agency Classification

CHINA-ROHS Below maximum concentration value

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

ROHS Compliant



* Footnotes

Operating Frequency BandBands 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 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

Cross Polarization Discrimination (XPD) Electrical Compliance 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.

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.

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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 wirebound crates (dependent on product). For your convenience, Andrew offers heavy duty export packing options.

