VHLP4-11W-6-QD/A



1.2 m | 4 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 10.125–11.700 GHz, CPR90G, white antenna, flexible woven polymer gray radome without flash, fully assembled/Quick Deploy 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

Antenna Input CPR90G
Antenna Color White

Reflector Construction One-piece reflector

Radome Color Gray

Radome Material Polymer

Flash Included No

Dimensions

Diameter, nominal 1.2 m | 4 ft

Electrical Specifications

Operating Frequency Band 10.125 – 11.700 GHz

Packaging and Weights

 Height, packed
 1058 mm | 41.654 in

 Width, packed
 1429 mm | 56.26 in

 Length, packed
 1561 mm | 61.457 in

Packaging Type Wooden crate

Volume 2.4 m³ | 84.755 ft³

COMMSC PE°

VHLP4-11W-6-QD/A

 Weight, gross
 101 kg | 222.667 lb

 Weight, net
 32 kg | 70.548 lb

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



Included Products

VHLP4-11W/A - 1.2 m | 4 ft ValuLine® High Performance Low Profile Antenna, single-polarized, 10.125–11.700

GHz

* Footnotes

Operating Frequency Band Bands correspond with CCIR recommendations or common allocations used throughout the

world. Other ranges can be accommodated on special order.

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.





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Product Classification

Product Type Microwave antenna

Product Brand ValuLine®

General Specifications

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

polarized

Polarization Single

Side Struts, Included 1 inboard

Side Struts, Optional 1 inboard

Dimensions

Diameter, nominal 1.2 m | 4 ft

Electrical Specifications

Operating Frequency Band 10.125 – 11.700 GHz

Gain, Low Band40.2 dBiGain, Mid Band40.7 dBiGain, Top Band41 dBi

Boresite Cross Polarization Discrimination (XPD) 30 dB

Front-to-Back Ratio 66 dB

Beamwidth, Horizontal 1.6 °

Beamwidth, Vertical 1.6 °

Return Loss 17.7 dB

VSWR 1.3

Radiation Pattern Envelope Reference (RPE) 7182A

COMMSCOPE®

Electrical Compliance Brazil Anatel Class 2 | Canada SRSP 310.5 | Canada SRSP 310.7

Part B | ETSI 302 217 Class 3 | US FCC Part 101A @ 10.55-10.7 GHz | US FCC Part 101A @ 10.7-11.7 GHz | US FCC Part 101B

@ 10.125-11.7 GHz

Mechanical Specifications

Compatible Mounting Pipe Diameter 115 mm | 4.5 in

Fine Azimuth Adjustment Range ±15°

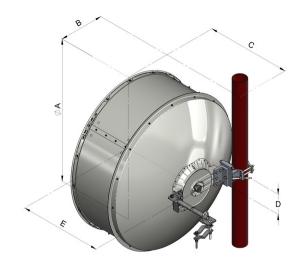
Fine Elevation Adjustment Range ±15°

Wind Speed, operational 200 km/h | 124.274 mph

Wind Speed, survival 250 km/h | 155.343 mph



Antenna Dimensions and Mounting Information



Dimensions in inches (mm)					
Antenna size, ft (m)	Α	В	С	D	E
4 (1.2)	50.8 (1291)	16 (407)	30.2 (767)	7.2 (183)	29.5 (748)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA) 5326 N | 1,197.333 lbf

Side Force (FS) 2638 N | 593.046 lbf

Twisting Moment (MT) 2162 N-m | 19,135.312 in lb

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Force on Inboard Strut Side 2862 N | 643.403 lbf

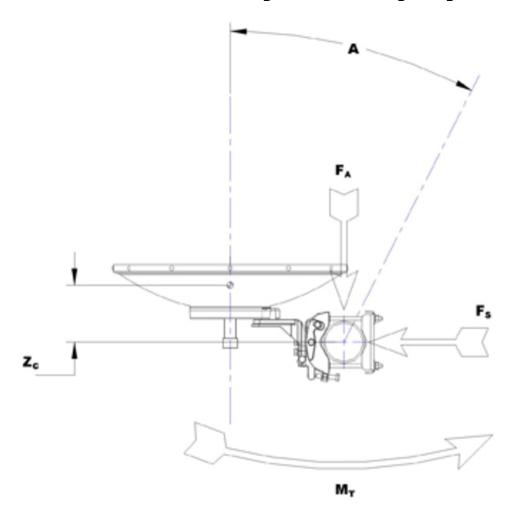
Zcg without Ice 43 mm | 1.693 in

Zcg with 1/2 in (12 mm) Radial Ice 284 mm | 11.181 in

Weight with 1/2 in (12 mm) Radial Ice 74 kg | 163.142 lb

COMMSC PE®

Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Weight, net 32 kg | 70.548 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

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used throughout the world. Other ranges can be accommodated on $% \left\{ 1,2,\ldots ,n\right\}$

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 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.

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