

1.8m | 6ft ValuLine® High Performance, High XPD Antenna, dual-polarized, 10.000 – 11.700 GHz, grey, UBR100 flange

OBSOLETE

This product was discontinued on: May 1, 2022

Replaced By:

HX6-11W-3WH 1.8m | 6ft ValuLine® High Performance, High XPD Antenna, dual-polarized, 10.000 - 11.700 GHz,

white, UBR100 flange

Product Classification

Product Type Microwave antenna

Product Brand ValuLine®

General Specifications

Antenna Type HX - ValuLine® High Performance, High XPD

Antenna, dual-polarized

Polarization Dual

Antenna Input UBR100

Antenna Color Gray

Reflector Construction One-piece reflector

Radome Color Gray

Radome Material Fabric

Side Struts, Included 1

Side Struts, Optional

Dimensions

Diameter, nominal 1.8 m | 6 ft

Electrical Specifications

Operating Frequency Band 10.000 – 11.700 GHz

Gain, Low Band 42.9 dBi

COMMSCOPE®

Gain, Mid Band43.6 dBiGain, Top Band44.3 dBiBoresite Cross Polarization Discrimination (XPD)33 dBFront-to-Back Ratio76 dBBeamwidth, Horizontal1°Beamwidth, Vertical1°Return Loss26 dBVSWR1.1

Radiation Pattern Envelope Reference (RPE) 7378 | 7401

Electrical Compliance ACMA FX03_10a | ACMA FX03_11a | Canada

SRSP 310.5 | Canada SRSP 310.7 Part

A | Canada SRSP 310.7 Part B | 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 115 mm – 120 mm | 4.5 in – 4.7 in

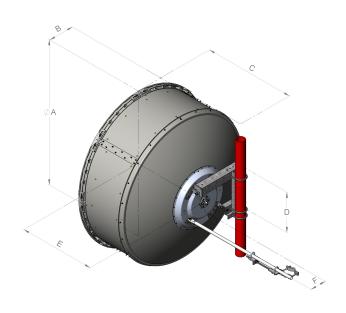
Fine Azimuth Adjustment Range $\pm 15^{\circ}$ Fine Elevation Adjustment Range $\pm 5^{\circ}$

 Wind Speed, operational
 180 km/h
 | 111.847 mph

 Wind Speed, survival
 200 km/h
 | 124.274 mph



Antenna Dimensions and Mounting Information



Dimensions in inches (mm)						
Antenna size, ft (m)	Α	В	С	D	Е	F
6 (1.8)	74.8 (1899)	13.4 (340)	47.5 (1206)	20.9 (530)	39.4 (1001)	8.4 (214)

Wind Forces at Wind Velocity Survival Rating

Zcg without Ice

Axial Force (FA) 6960 N | 1,564.671 lbf

Angle α for MT Max -130 $^{\circ}$

Side Force (FS) 1566 N | 352.051 lbf

Twisting Moment (MT) 3923 N-m | 34,721.477 in lb

Force on Inboard Strut Side 4075 N | 916.097 lbf

Zcg with 1/2 in (12 mm) Radial Ice 541 mm | 21.299 in

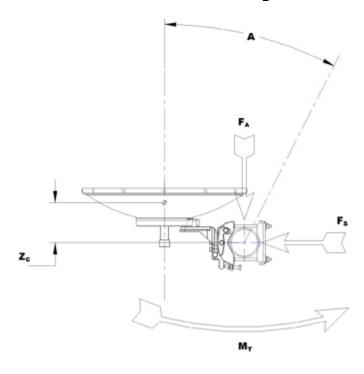
Weight with 1/2 in (12 mm) Radial Ice 237 kg | 522.495 lb

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363 mm | 14.291 in



Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Height, packed2110 mm | 83.071 inWidth, packed450 mm | 17.717 inLength, packed1900 mm | 74.803 inPackaging TypeStandard pack

 Volume
 1.8 m³ | 63.566 ft³

 Weight, gross
 126 kg | 277.782 lb

 Weight, net
 75 kg | 165.346 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

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Front-to-Back Ratio

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.

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.

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

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Twisting Moment (MT)

Packaging Type

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.

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