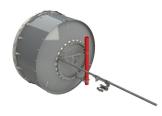
Base Product



2.4m | 8ft ValuLine® High Performance, High XPD Antenna, dual-polarized, 12.200 – 13.250 GHz

Product Classification

Product Type Microwave antenna

General Specifications

Antenna Type HX - ValuLine® High Performance, High XPD

Antenna, dual-polarized

Polarization Dual

Side Struts, Included

Side Struts, Optional 4

Dimensions

VSWR

Diameter, nominal 2.4 m | 8 ft

Electrical Specifications

Operating Frequency Band 12.200 - 13.250 GHz

Gain, Low Band47.4 dBiGain, Mid Band47.6 dBiGain, Top Band47.7 dBi

Boresite Cross Polarization Discrimination (XPD)

Front-to-Back Ratio 72 dB

Beamwidth, Horizontal 0.7 °

Beamwidth, Vertical 0.7 °

Return Loss 26 dB

Radiation Pattern Envelope Reference (RPE) 7392

Electrical Compliance ACMA FX03_13a | ETSI 302 217 Class 3 | US

FCC Part 101A

1.1

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

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Mechanical Specifications

Compatible Mounting Pipe Diameter 115 mm | 4.5 in

Fine Azimuth Adjustment Range $$\pm5^{\circ}$$

Fine Elevation Adjustment Range ±5°

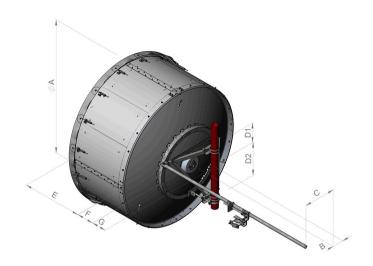
Wind Speed, operational 201 km/h | 124.896 mph

Wind Speed, survival 200 km/h | 124.274 mph



Antenna Dimensions and Mounting Information

HX8



		Dimer	sions in	inches (mm)			
Antenna size, ft (m)	Α	В	С	D1	D2	Е	F	G
8 (2.4)	95.1 (2416)	8.0 (203)	22.5 (572)	14.1 (357)	23.6 (600)	42.4 (1078)	12.1 (306)	10.3 (262)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)

Angle α for MT Max $-140\,^{\circ}$

Side Force (FS) 4594 N | 1,032.773 lbf

Twisting Moment (MT) -6518 N-m | -57,689.16 in lb

Force on Inboard Strut Side 11263 N | 2,532.024 lbf

Zcg without Ice 532 mm | 20.945 in

Zcg with 1/2 in (12 mm) Radial Ice 675 mm | 26.575 in

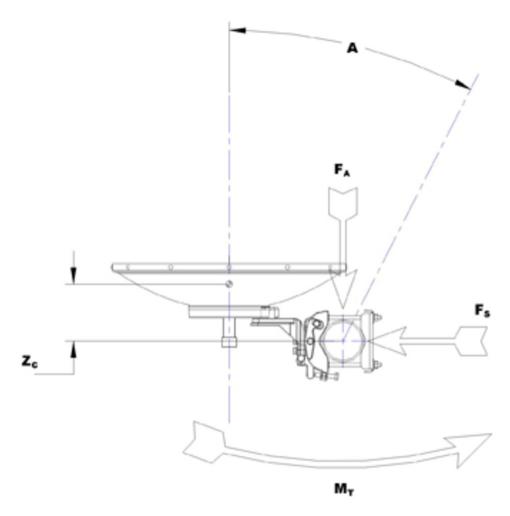
Weight with 1/2 in (12 mm) Radial Ice 342 kg | 753.98 lb



10599 N | 2,382.751 lbf



Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Weight, net 187 kg | 412.264 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 BandFor 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.

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

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an Amphenol company

Twisting Moment (MT)

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.