Base Product



0.6 m | 2 ft Sentinel® High Performance Antenna, single-polarized, 31.000–33.400 GHz

OBSOLETE

This product was discontinued on: April 11, 2023

Replaced By:

SHPX2-32/B 0.6 m | 2 ft Sentinel® High Performance Antenna, dual-polarized, 31.000-33.400 GHz

Product Classification

Product Type Microwave antenna

Product Brand Sentinel®

General Specifications

Antenna Type SHP - Sentinel® High Performance Antenna, single-

polarized

Polarization Single

Side Struts, Included 0
Side Struts, Optional 0

Dimensions

Diameter, nominal 0.6 m | 2 ft

Electrical Specifications

Operating Frequency Band 31.000 – 33.400 GHz

Gain, Low Band43.2 dBiGain, Mid Band43.5 dBiGain, Top Band43.8 dBiBoresite Cross Polarization Discrimination (XPD)30 dB

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Front-to-Back Ratio 71 dB

Beamwidth, Horizontal 1 °

Beamwidth, Vertical 1 °

Return Loss 17.7 dB

VSWR 1.3

Radiation Pattern Envelope Reference (RPE) 7263B

Electrical Compliance Brazil Anatel Class 2 | ETSI 302 217 Class 4

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

Mechanical Specifications

Compatible Mounting Pipe Diameter 50 mm-115 mm | 2.0 in-4.5 in

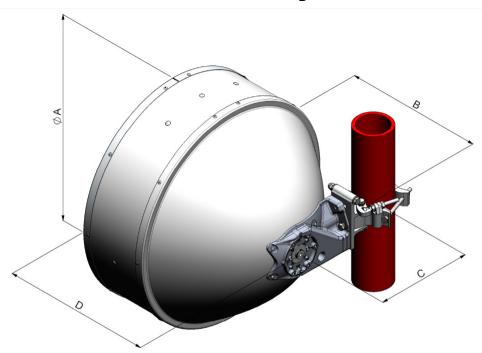
Fine Azimuth Adjustment Range ±15°

Fine Elevation Adjustment Range ±15°

Wind Speed, operational 201 km/h | 124.896 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
2(0.6)	26.1(664)	17.4(441)	12.1(307)	18.8(478)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA) 1290 N | 290.004 lbf

Angle α for MT Max 0 $^{\circ}$

Side Force (FS) 639 N | 143.653 lbf

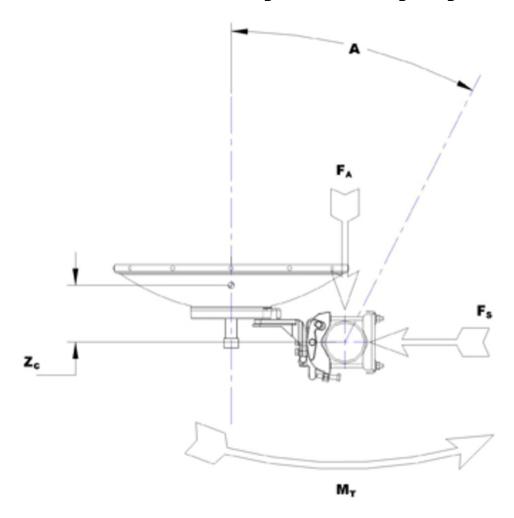
Twisting Moment (MT) 395 N-m | 3,496.045 in lb

Zcg without Ice 187 mm | 7.362 in

Zcg with 1/2 in (12 mm) Radial Ice 185 mm | 7.283 in

Weight with 1/2 in (12 mm) Radial Ice 34 kg | 74.957 lb

Wind Forces at Wind Velocity Survival Rating Image



Packaging and Weights

Weight, net 11 kg | 24.251 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.



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 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

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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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.