Base Product



0.9 m | 3 ft Sentinel® High Performance Antenna, single-polarized, 5.925 - 7.125 GHz

OBSOLETE

This product was discontinued on: June 11, 2021Replaced By:0.9 m | 3 ft Sentinel® High Performance Antenna, dual-polarized, 5.925 - 7.125 GHz

Product Classification

Product Type	Microwovo ontonno		
	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	1		
Dimensions			
Diameter, nominal	0.9 m 3 ft		
Electrical Specifications			
Operating Frequency Band	5.925 – 7.125 GHz		
Gain, Low Band	32.3 dBi		
Gain, Mid Band	33.6 dBi		
Gain, Top Band	34.5 dBi		
Boresite Cross Polarization Discrimination (XPD)	30 dB		
Front-to-Back Ratio	65 dB		
Beamwidth, Horizontal	3.3 °		

Page 1 of 6

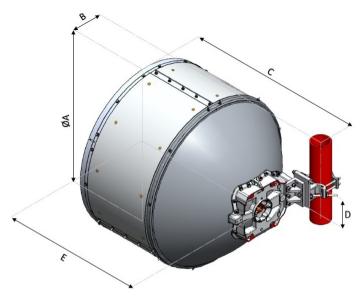


Determined and			
Return Loss	17.7 dB		
VSWR	1.3		
Radiation Pattern Envelope Reference (RPE)	7289A		
Electrical Compliance	Brazil Anatel Class 2 ETSI 302 217 Class 3 US FCC Part 101B2		
Cross Polarization Discrimination (XPD) Electrical Compliance	ETSI EN 302217 XPD Category 2		
Mechanical Specifications			
Compatible Mounting Pipe Diameter	90 mm-120 mm 3.5 in-4.7 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		

Page 2 of 6



Antenna Dimensions and Mounting Information



Dimensions in inches (mm)					
Antenna Size, ft (m)	A	В	С	D	E
3 (0.9)	38.9 (987)	16 (407)	36.3 (923)	7.2 (183)	34.7 (882.2)

Wind Forces at Wind Velocity Survival Rating

Axial Force (FA)

Angle α for MT Max

Side Force (FS)

Twisting Moment (MT)

Zcg without Ice

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

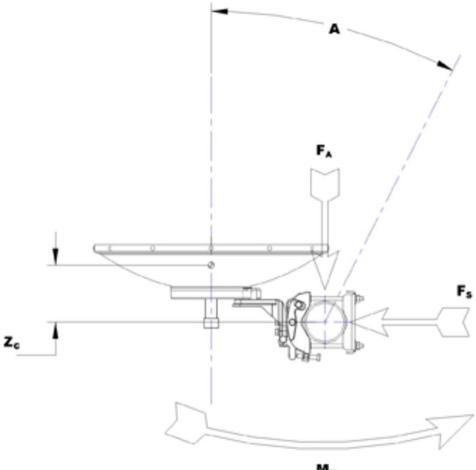
Weight with 1/2 in (12 mm) Radial Ice

2956 N | 664.535 lbf 40° 1464 N | 329.12 lbf 1203 N-m | 10,647.447 in lb 325 mm | 12.795 in 481 mm | 18.937 in 89 kg | 196.211 lb

Page 3 of 6



Wind Forces at Wind Velocity Survival Rating Image



Mτ

Packaging and Weights

Weight, net

27 kg | 59.525 lb

Regulatory Compliance/Certifications

Classification

Agency

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.

Page 4 of 6



SHP3-6W/A

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 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

Page 5 of 6

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: October 16, 2023

COMMSCOPE®

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.

Page 6 of 6

