

0.6 m | 2 ft Sentinel® High Performance Antenna, dual-polarized, 12.7 –13.25 GHz, PBR flange, white antenna, grey radome

Product Type Microwave antenna	
Product Brand Sentinel®	
General Specifications	
Antenna Type SHPX - Sentinel® High Performance Antenna, du polarized	ıal-
Polarization Dual	
Antenna Input PBR120	
Antenna Color White	
Reflector Construction One-piece reflector	
Radome Color Gray	
Radome Material Polymer	
Flash Included No	
Side Struts, Included 0	
Side Struts, Optional 0	
Dimensions	
Diameter, nominal0.6 m 2 ft	
Electrical Specifications	
Operating Frequency Band 12.700 - 13.250 GHz	
Gain, Low Band35.8 dBi	
Gain, Mid Band36 dBi	
Gain, Top Band36.2 dBi	
Boresite Cross Polarization Discrimination (XPD) 30 dB	Page 1 g

Page 1 of 6

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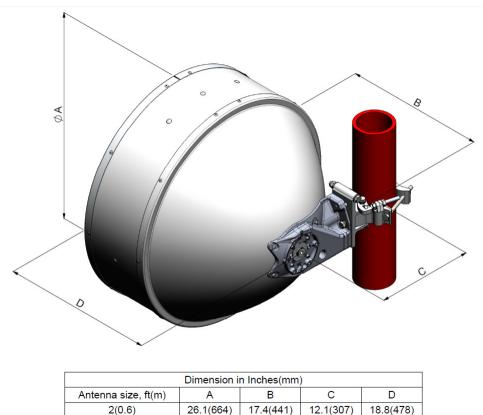
Front-to-Back Ratio	67 dB
Beamwidth, Horizontal	2.7 °
Beamwidth, Vertical	2.7 °
Return Loss	17.7 dB
VSWR	1.3
Radiation Pattern Envelope Reference (RPE)	7274B
Electrical Compliance	Brazil Anatel Class 2 Canada SRSP 312.7 Part B ETSI 302 217 Class 3
Orace Delevization Discrimination (VDD) Floatnicel Opportion of	
Cross Polarization Discrimination (XPD) Electrical Compliance	ETSI EN 302217 XPD Category 2
Mechanical Specifications	ETSLEN 302217 XPD Category 2
	50 mm-115 mm 2.0 in-4.5 in
Mechanical Specifications	
Mechanical Specifications Compatible Mounting Pipe Diameter	50 mm-115 mm 2.0 in-4.5 in
Mechanical Specifications Compatible Mounting Pipe Diameter Fine Azimuth Adjustment Range	50 mm-115 mm 2.0 in-4.5 in ±15°
Mechanical Specifications Compatible Mounting Pipe Diameter Fine Azimuth Adjustment Range Fine Elevation Adjustment Range	50 mm-115 mm 2.0 in-4.5 in ±15° ±15°

Page 2 of 6

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Antenna Dimensions and Mounting Information



Wind Forces at Wind Velocity Survival Rating

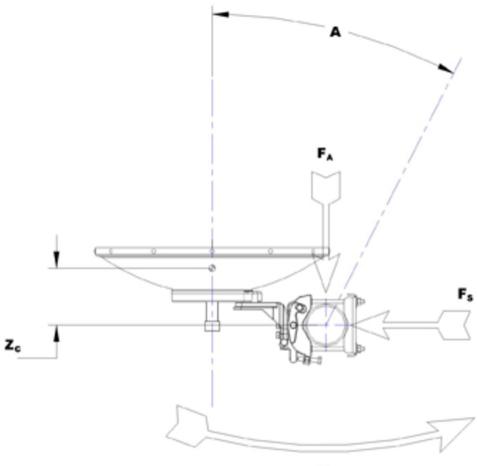
Axial Force (FA)	1290 N 290.004 lbf
Angle a for MT Max	0 °
Side Force (FS)	639 N 143.653 lbf
Twisting Moment (MT)	395 N-m 3,496.045 in lb
Zcg without Ice	187 mm 7.362 in
Zcg with 1/2 in (12 mm) Radial Ice	185 mm 7.283 in
Weight with 1/2 in (12 mm) Radial Ice	34 kg 74.957 lb

Page 3 of 6

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Wind Forces at Wind Velocity Survival Rating Image



MT

Packaging and Weights Height, packed 580 mm | 22.835 in Width, packed Length, packed Packaging Type Standard pack 0 m³ | 0 ft³ Volume Weight, gross 16 kg | 35.274 lb Weight, net 11 kg | 24.251 lb

* Footnotes

735 mm | 28.937 in 735 mm | 28.937 in

Page 4 of 6

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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 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.

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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.
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.

Page 6 of 6

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