Product Specifications

This specification is OBSOLETE

PL6F-19-NXA/D

1.8 m | 6 ft Standard Parabolic, Low VSWR Unshielded Antenna, single-polarized, unpressurized, 1.900–2.300 GHz, N Female, gray antenna, molded gray radome with flash, standard pack—one-piece reflector

OBSOLETE
This product was discontinued on: March 31, 2012
This part number is supported until: **March 31, 2012**

General Specifications

Antenna Type	PLF - Standard Parabolic, Low VSWR Unshielded Antenna, single-polarized, unpressurized
Diameter, nominal	1.8 m | 6 ft
Packing	Standard pack
Radome Color	Gray
Radome Material	Molded
Reflector Construction	One-piece reflector
Antenna Input	N Female
Antenna Color	Gray
Antenna Type	PLF - Standard Parabolic, Low VSWR Unshielded Antenna, single-polarized, unpressurized
Diameter, nominal	1.8 m | 6 ft
Flash Included	Yes
Polarization	Single

Electrical Specifications

Operating Frequency Band	1.900 – 2.300 GHz
Beamwidth, Horizontal	5.5 °
Beamwidth, Vertical	5.5 °
Cross Polarization Discrimination (XPD)	30 dB
Electrical Compliance	ETSI Class 1B | US FCC Part 101B | US FCC Part 74B
Front-to-Back Ratio	37 dB
Gain, Low Band	28.5 dBi
Gain, Mid Band	29.4 dBi
Gain, Top Band	30.3 dBi
Operating Frequency Band	1.900 – 2.300 GHz
Radiation Pattern Envelope Reference (RPE)	2202C
Return Loss	26.4 dB

Product Specifications

PL6F-19-NXA/D

VSWR	1.10

Mechanical Specifications

Fine Azimuth Adjustment	±15°
Fine Elevation Adjustment	±20°
Mounting Pipe Diameter	115 mm | 4.5 in
Net Weight	78 kg | 171 lb
Side Struts, Included	1 inboard
Side Struts, Optional	1 inboard
Wind Velocity Operational	110 km/h | 68 mph
Wind Velocity Survival Rating	200 km/h | 124 mph

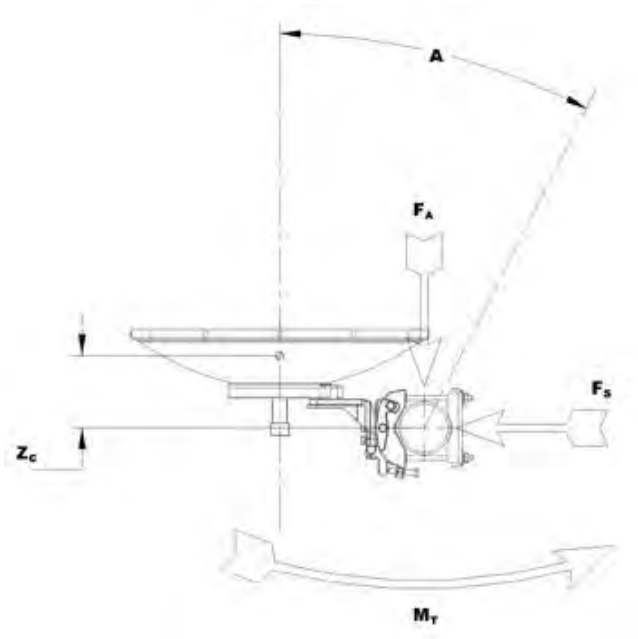
Wind Forces At Wind Velocity Survival Rating

Angle α for MT Max	-130 °
Axial Force (FA)	8779 N | 1974 lbf
Side Force (FS)	1946 N | 437 lbf
Twisting Moment (MT)	3826 N•m
Weight with 1/2 in (12 mm) Radial Ice	150 kg | 331 lb
Zcg with 1/2 in (12 mm) Radial Ice	347 mm | 14 in
Zcg without Ice	278 mm | 11 in

Product Specifications

PL6F-19-NXA/D

Wind Forces At Wind Velocity Survival Rating Image



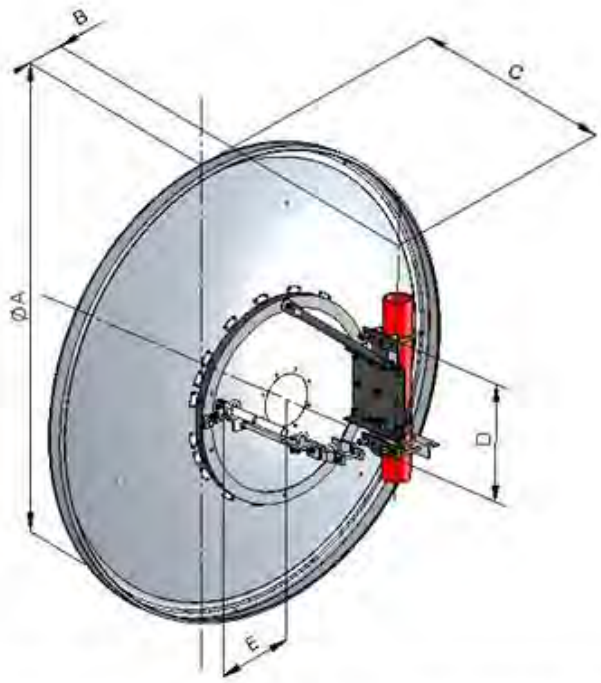
Packed Dimensions

Gross Weight, Packed Antenna	308.0 kg | 679.0 lb
Height	2100.0 mm | 82.7 in
Length	2070.0 mm | 81.5 in
Volume	3.8 m³
Width	880.0 mm | 34.6 in

Product Specifications

PL6F-19-NXA/D

Antenna Dimensions And Mounting Information



Dimensions in Inches (mm)					
Antenna Size, ft (m)	A	B	C	D	E
6 (1.8)	76.3 (1939)	17.1 (435)	17.9 (455)	19.3 (490)	14.3 (362)

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

* Footnotes

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.
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.
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.

Product Specifications

PL6F-19-NXA/D

Operating Frequency Band	Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.
Packing	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.
Radiation Pattern Envelope Reference (RPE)	Radiation patterns determine an antenna's ability to discriminate against unwanted signals under conditions of radio congestion. Radiation patterns are dependent on antenna series, size, and frequency.
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.
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.
VSWR	Maximum; is the guaranteed Peak Voltage-Standing-Wave-Ratio within the operating band.
Wind Velocity Operational	The wind speed where the antenna deflection is equal to or less than 0.1 degrees. In the case of ValuLine antennas, it is defined as a maximum deflection of 0.3 x the 3 dB beam width of the antenna.
Wind Velocity Survival Rating	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.