



PL6-59-P7A/F

1.8 m | 6 ft Standard Parabolic, Low VSWR Unshielded Antenna, single-polarized, 5.925-6.425 GHz, CPR137G, gray antenna, with flash, standard pack—one-piece reflector

Product Classification

Product Type Microwave antenna

General Specifications

Antenna Type PL - Standard Parabolic, Low VSWR Unshielded Antenna, single-polarized

Diameter, nominal1.8 m | 6 ftPackingStandard packReflector ConstructionOne-piece reflector

Antenna Input CPR137G
Antenna Color Gray

Antenna Type PL - Standard Parabolic, Low VSWR Unshielded Antenna, single-polarized

Diameter, nominal 1.8 m | 6 ft

Flash Included Yes
Polarization Single

Electrical Specifications

Operating Frequency Band 5.925 – 6.425 GHz

Beamwidth, Horizontal 1.8 °
Beamwidth, Vertical 1.8 °
Cross Polarization Discrimination (XPD) 30 dB

Electrical Compliance ETSI Class 1 | US FCC Part 101B

Front-to-Back Ratio 46 dB
Gain, Low Band 38.4 dBi
Gain, Mid Band 38.9 dBi
Gain, Top Band 39.4 dBi

Operating Frequency Band 5.925 – 6.425 GHz

Radiation Pattern Envelope Reference (RPE) 2604E
Return Loss 30.7 dB
VSWR 1.06

Mechanical Specifications

Fine Azimuth Adjustment $\pm 15^{\circ}$ Fine Elevation Adjustment $\pm 20^{\circ}$

Mounting Pipe Diameter 115 mm | 4.5 in Net Weight 70 kg | 154 lb



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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 | 125 mph

Wind Forces At Wind Velocity Survival Rating

Angle a for MT Max	-130 °
Axial Force (FA)	8779 N

Side Force (FS) 1946 N | 437 lbf

| 1974 lbf

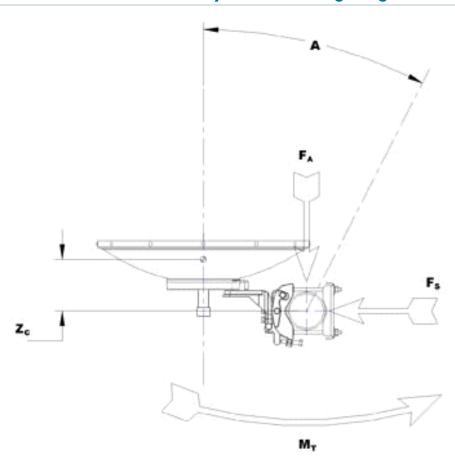
Twisting Moment (MT) 3826 N•m

Weight with 1/2 in (12 mm) Radial Ice 122 kg | 269 lb Zcg with 1/2 in (12 mm) Radial Ice 347 mm | 14 in Zcg without Ice 278 mm | 11 in



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Wind Forces At Wind Velocity Survival Rating Image



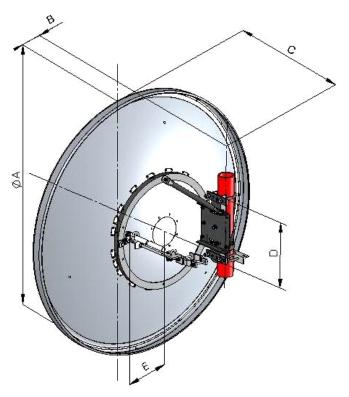
Packed Dimensions

Gross Weight, Packed Antenna	117.0 kg 257.9 lb
Height	2100.0 mm 82.7 in
Length	2070.0 mm 81.5 in
Volume	3.4 m^3
Width	780.0 mm 30.7 in



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Antenna Dimensions And Mounting Information



Dimensions in Inches (mm)							
Antenna Size, ft (m)	Α	В	С	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



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computer integration of the measured antenna patterns.

Operating Frequency Band Bands correspond with CCIR recommendations or common allocations used

throughout the world. Other ranges can be accommodated on special order.

Andrew standard packing is suitable for export. Antennas are shipped as **Packing**

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 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

The figure that indicates the proportion of radio waves incident upon the Return Loss

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.