Base Station Antennas

915 Single Wire Dipoles

Single wire dipole antennas, spot-tuned to the required operating frequency, are the most efficient antennas for use in HF base stations. They are simple to install and have a relatively narrow bandwidth and requires only minimal maintenance.

When several frequencies are required at a base station, several dipoles can be stacked one above the other between two towers. An antenna switch box BC91600 can be used to switch to the required dipole depending on the

General Specifications

Frequency range Impedance Construction

500KHz - 30MHz Less than 1.5:1 50 ohm Stainless steel

Other Antenna Types

In addition to the antennas described in this brochure, we can supply other antenna systems including:

- Rotatable log periodics
- Deltas
- Rhombics
- Conical monopoles

Antenna systems can also be designed and manufactured to suit specific customer requirements.

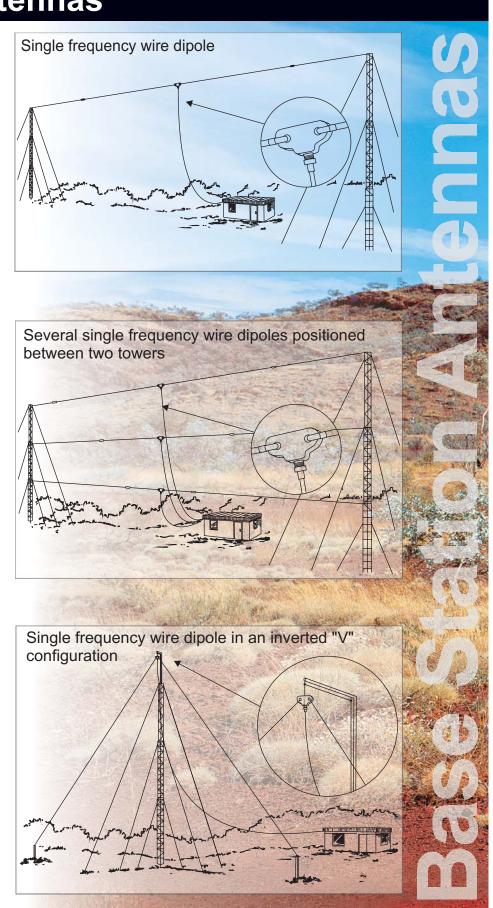


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BARRETT COMMUNICATIONS 2000 SERIES



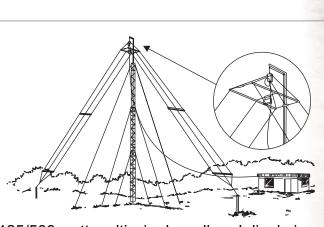
Base Station Antennas

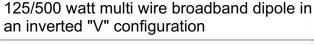
912 Series Broadband Dipoles

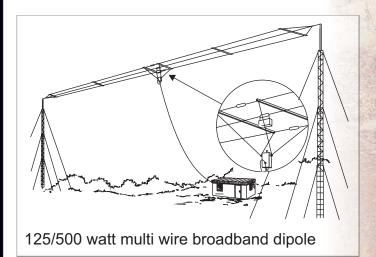
The Barrett 912 series of broadband base station antennas are designed for use in either an inverted "V" configuration using a single mast, or a standard dipole configuration between two masts.

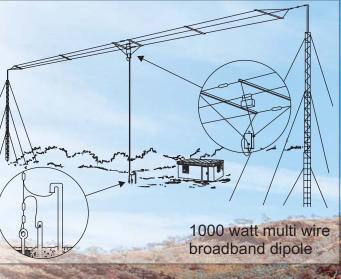
In the inverted "V" configuration the 912 provides a more omni directional radiation pattern. All broadband antennas in the series are designed to provide optimum performance over a wide HF spectrum, without the need for antenna tuners.

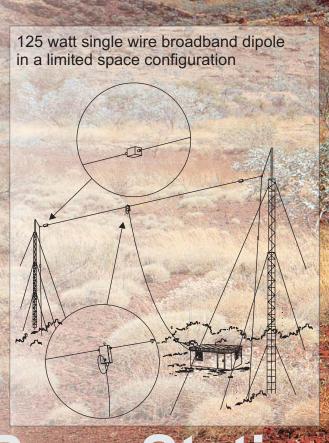
Using high quality stainless steel and glass reinforced composites the 912 series of broadband antennas are lightweight and corrosion resistant, but are able to withstand wind speeds in excess of 200km/h. The antennas are supplied complete with an inverted "v" mounting harness, 30 metres of coaxial cable and high quality waterproof connectors.











Base Station Antennas

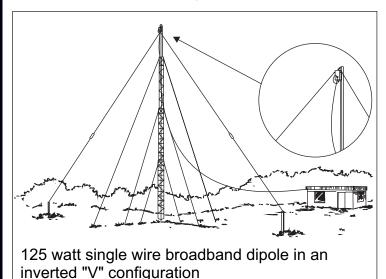
MADE IN AUSTRALIA

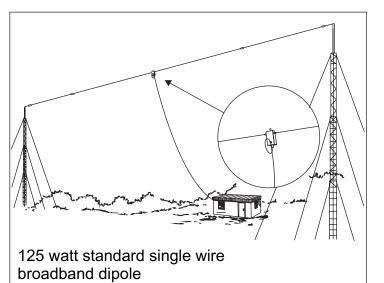




Base Station Antennas

912 Series Broadband Dipoles





General Specifications

Frequency range 2 to 30 MHz VSWR Less than 2.5:1 Impedance 500hm Max Wind speed 207km/h

BC91200 125 watt multi wire broadband dipole

Length insulator to insulator 28 metres Width 1.3 metres

Power handling 125W CW, 250W PEP

Packed weight 6kg

Packed dimensions 1.4m x 150mm x 100mm

BC91202 500 watt multi wire broadband dipole

Length insulator to insulator 28 metres Width 28 metres 1.3 metres

Power handling 500W CW. 1250W PEP

Packed weight 13kg

Packed dimensions 1.4m x 300mm x 150mm

BC91203 1000 watt multi wire broadband dipole

Length insulator to insulator 28 metres Width 1.3 metres

Power handling 1000W CW, 2500W PEP

Packed weight 20kg

Packed dimensions 1.4m x 300mm x 150mm

BC91201 125 watt single wire broadband dipole

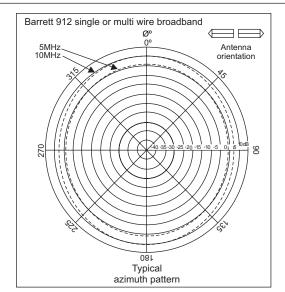
Length insulator to insulator 48 metres

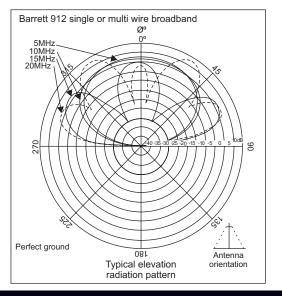
/idth n/a

Power handling 125W CW, 250W PEP

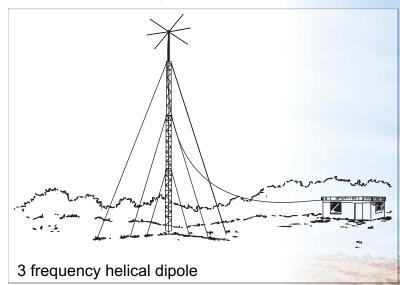
Packed weight 2k

Packed dimensions 250mm x 300mm x 75mm





913 Series Helical Dipoles



General Specifications

Frequency Range No of Frequencies VSWR Impedance

2-30MHz 5 (Max) Less than 1.7: 1 50 ohm

Antenna Dimensions:

Overall

Standard 7 metres Optional 4 metres

Hub

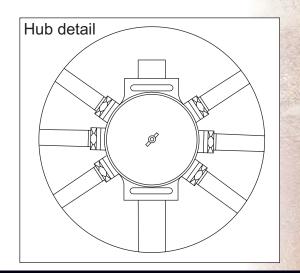
Width 235mm Height 210mm Depth 50mm

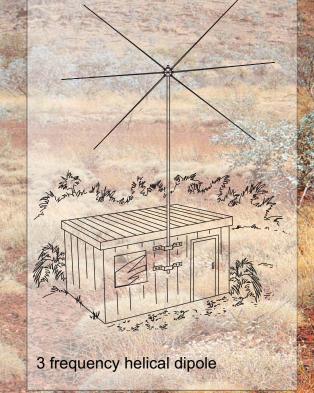
The Barrett 913 series helical dipole antenna is designed for use in base station installations where the use of wire dipoles or broadband antennas is impractical.

The construction and ease of assembly make the 913 series ideally suited to sites where space is restricted or where it may be necessary to periodically dismantle in order to relocate a temporary base station. In environments where manmade noise causes a problem when using a broadband antenna, signal to noise ratio is improved by the narrow bandwidth characteristics of the 913 helical dipole.

The hub is designed to be mounted on either a 50mm diameter support mast or an existing tower. The antenna comes complete with 30 metres of RG58 coaxial cable and high quality C32-21 waterproof connectors.

Barrett 913 antennas are ready to erect, in kit form, with threaded mounting bolts which attach directly to the central hub.





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