



- **Multi-wire broadband dipoles**
- **Single-wire broadband dipoles**
- **Single-wire single frequency dipoles**
- **Rotatable log periodics**
- **Deltas**
- **Rhombics**
- **Conical monopoles**

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

Barrett Communications provide reliable, solidly constructed broadband, as well as single frequency, base station antennas for a variety of uses and in many different configurations to compliment our range of HF transceivers and ensure the success of your base station.

We manufacture our antennas to exacting standards using high quality stainless steel and glass reinforced composites. Our base station antennas are lightweight and corrosion resistant, but are able to withstand wind speeds in excess of 200 km/h. The full range of wire antennas are supplied complete with an inverted "V" mounting harness, 30 metres of coaxial cable and high quality waterproof connectors. Our base station antenna range includes:



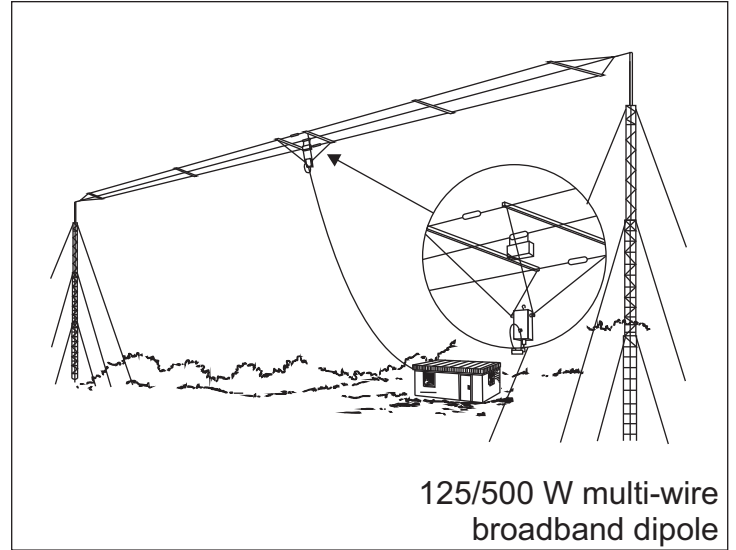


912 Series broadband dipoles

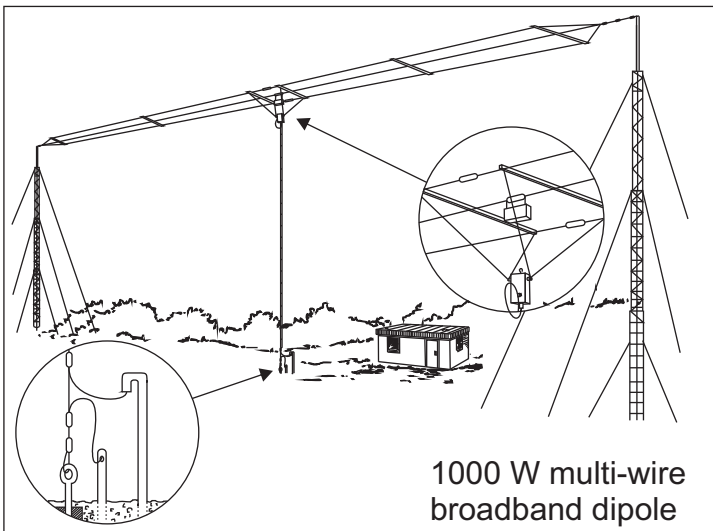
The Barrett 912 series of broadband base station antennas are designed for use in either an inverted "V" configuration using a single mast, or a standard dipole configuration between two masts.

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.

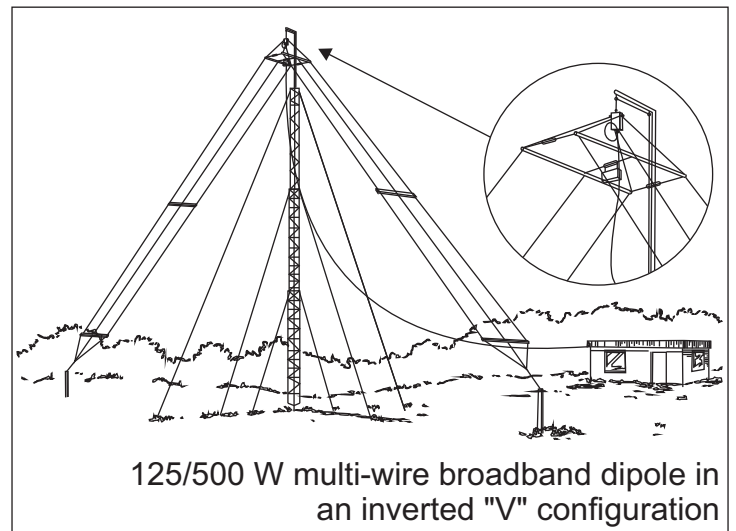
Using high quality stainless steel and glass reinforced composites the 912 series of broadband antennas are lightweight and corrosion resistant, but are able to withstand wind speeds in excess of 200 km/h. The antennas are supplied complete with an inverted "V" mounting harness, 30 metres of coaxial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



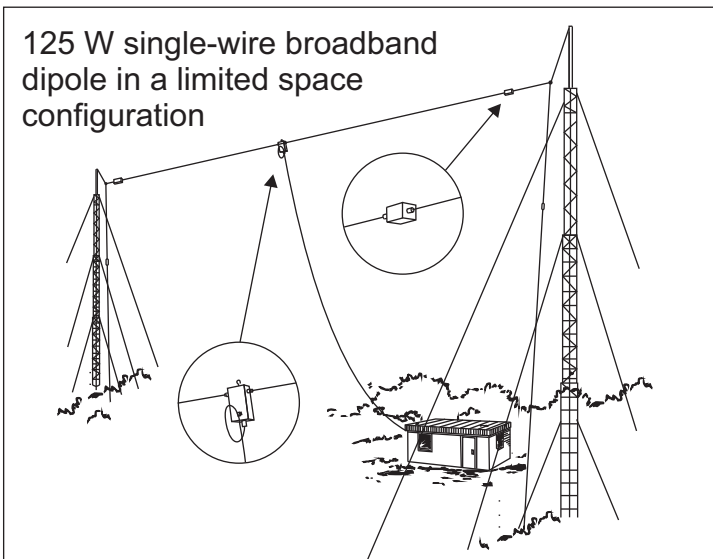
125/500 W multi-wire broadband dipole



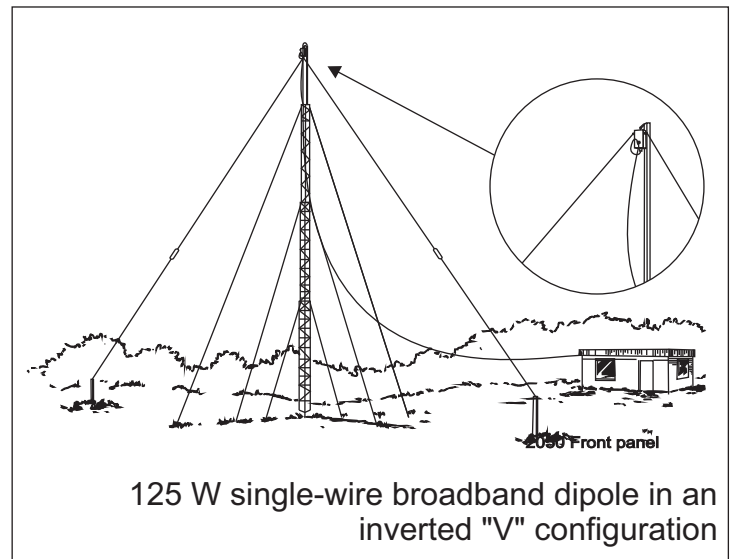
1000 W multi-wire broadband dipole



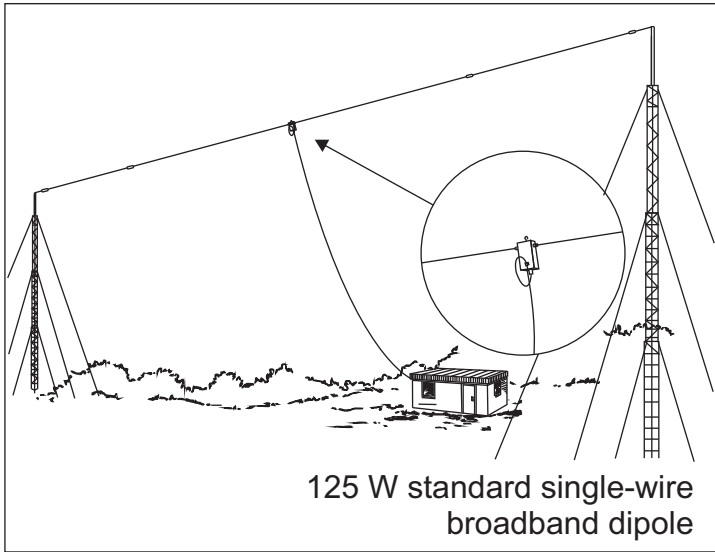
125/500 W multi-wire broadband dipole in an inverted "V" configuration



125 W single-wire broadband dipole in a limited space configuration



125 W single-wire broadband dipole in an inverted "V" configuration



General specifications

Frequency range	2 MHz to 30 MHz
VSWR	Less than 2.5:1
Impedance	50 ohm
Max wind speed	207 km/h

BC91200 125 W multi-wire broadband dipole

Length insulator to insulator	28 metres
Width	1.3 metres
Power handling	125 W CW, 250 W PEP
Packed weight	6 kg
Packed dimensions	1.4 m x 150 mm x 100 mm

BC91201 125 W single-wire broadband dipole

Length insulator to insulator	48 metres
Width	n/a
Power handling	125 W CW, 250 W PEP
Packed weight	2 kg
Packed dimensions	250 mm x 300 mm x 75 mm

BC91202 500 W multi-wire broadband dipole

Length insulator to insulator	28 metres
Width	1.3 metres
Power handling	500 W CW, 1250 W PEP
Packed weight	13 kg
Packed dimensions	1.4 m x 300 mm x 150 mm

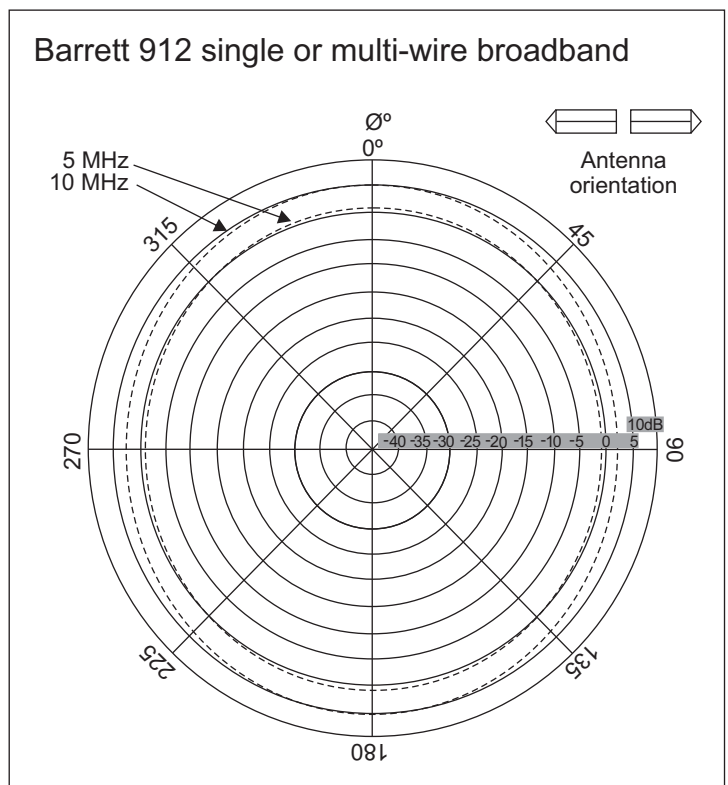
BC91203 1000 W multi-wire broadband dipole

Length insulator to insulator	28 metres
Width	1.3 metres
Power handling	1 Kw continuous 1.5 Kw PEP
Packed weight	20 kg
Packed dimensions	1.4 m x 300 mm x 150 mm

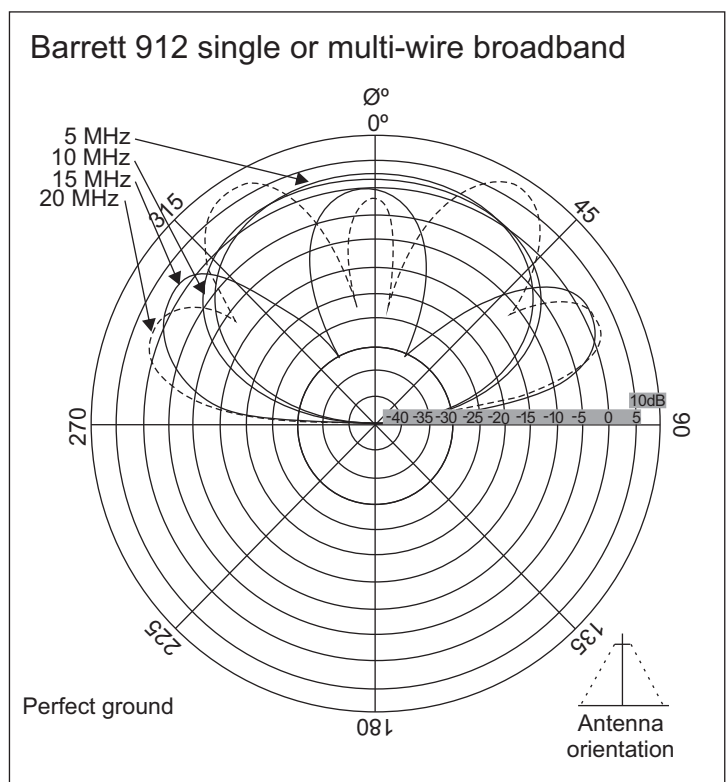
BC91207 1000 W multi-wire broadband dipole

Length insulator to insulator	54 metres
Width	1.3 metres
Power handling	1 Kw continuous 1.5 Kw PEP
Packed weight	25 kg
Packed dimensions	1.45 m x 400 mm x 220 mm

Typical azimuth pattern



Typical elevation radiation pattern





918 Log periodic antennas

Steerable antenna with high directional gain suitable for long distance communications. Broadband input from either 13 MHz to 30 MHz or 10 MHz to 30 MHz. 918 Log periodic antennas come complete with rotator and thrust bearing. Optional feeder coaxial or rotator control cable is available to length separately.

915 Single-wire dipoles

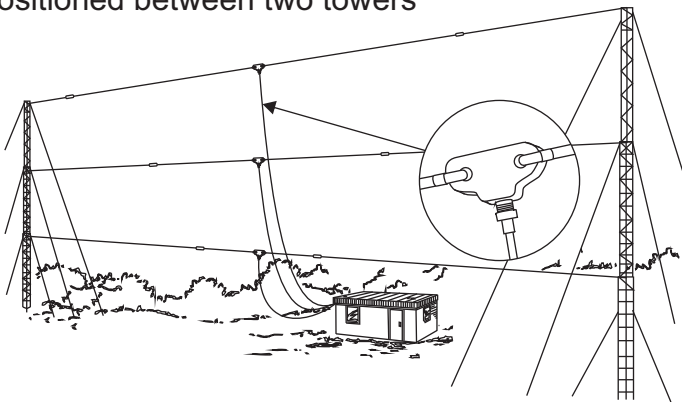
Single-wire dipole antennas, spot-tuned to the required operating frequency, are the most efficient antennas for use in HF base stations. They are simple to install and have a relatively narrow bandwidth and requires only minimal maintenance.

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 channel.

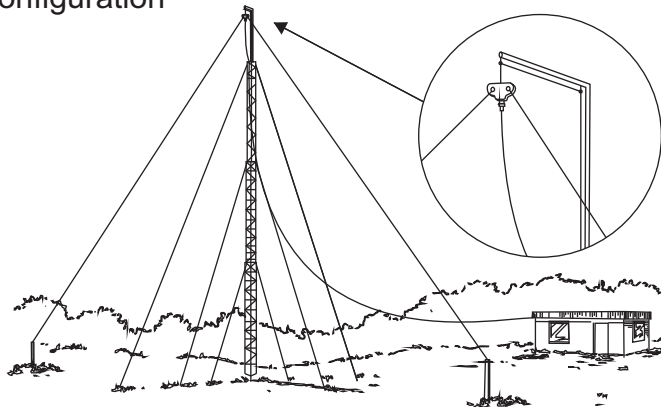
General specifications

Frequency range	500 KHz to 30 MHz
VSWR	Less than 1.5:1
Impedance	50 ohm
Construction	Stainless steel radiators

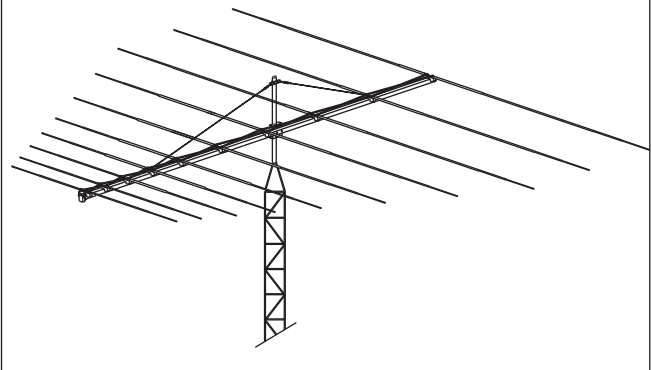
Several single frequency wire dipoles positioned between two towers



Single frequency wire dipole in an inverted "V" configuration



10 Element 918 Log periodic antenna



General specifications

918 Log periodic antenna 8 element - 13 MHz to 30 MHz

Frequency range	10 MHz to 30 MHz continuous
Typical gain	6-7 dBi 10 MHz to 30 MHz
Front to back ratio	Typical 15-20 dB 10 MHz to 30 MHz
Beamwidth	60°
Feed impedance	50 ohm unbalanced
VSWR	Less than 2.5:1
Input connector	UHF type socket standard
Power handling	1 kW PEP
Boom length	6.0 m
Max. element length	11.55 m
Turning radius	6.48 m
Wind survival	120 km/h
Packed size	1.8 m x 0.2 m x 0.2 m
Weight	20 kg

918 Log periodic antenna 10 element - 10 MHz to 30 MHz

Frequency range	10 MHz to 30 MHz continuous
Typical gain	6-7 dBi 10 MHz to 30 MHz
Front to back ratio	Typical 15-20 dB 10 MHz to 30 MHz
Beamwidth	60°
Feed impedance	50 ohm unbalanced
VSWR	Less than 2.5:1
Input connector	UHF type socket standard
Power handling	1 kW PEP
Boom length	8.0 m
Max. element length	11.55 m
Turning radius	7.27 m
Wind survival	120 km/h
Packed size	1.8 m x 0.4 m x 0.2 m
Weight	40 kg

Specifications are typical. Equipment descriptions and specifications are subject to change without notice or obligation.

Head Office:
Barrett Communications Pty Ltd
47 Discovery Drive, Bibra Lake,
WA, 6163 AUSTRALIA
Tel: +61 8 9434 1700
Fax: +61 8 9418 6757
Email: information@barrettcommunications.com.au

BCB900ANT/18



www.barrettcommunications.com.au

