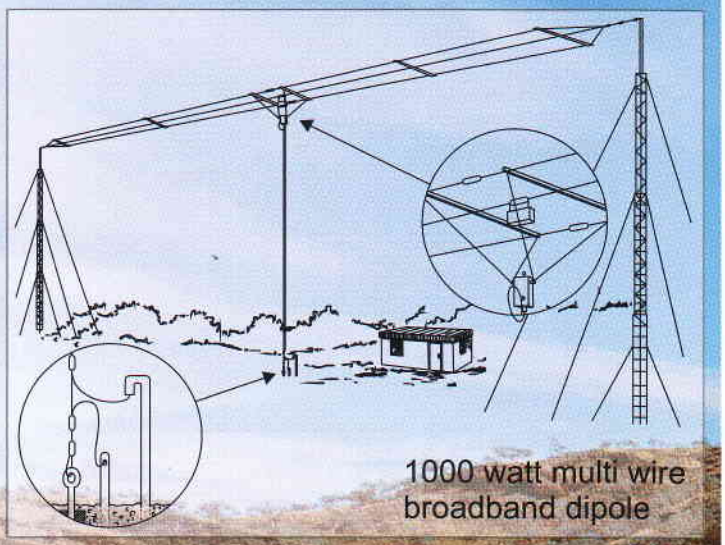
# Base Station Antennas

## 912 Series Broadband Dipoles

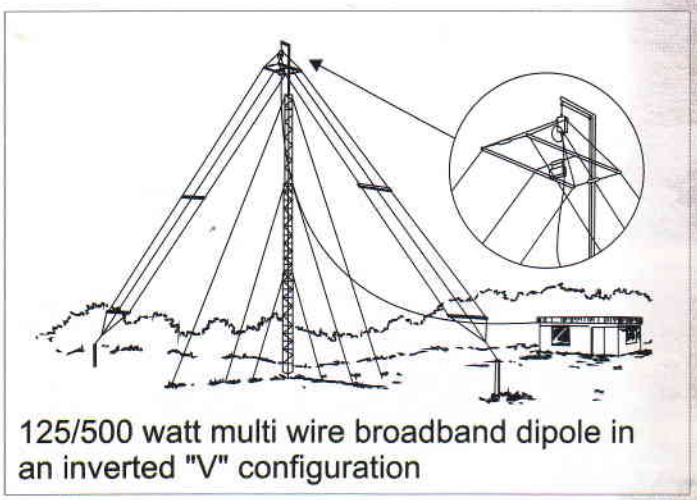
The Barrett 912 series of broadband base station antennas are designed for use in either an inverted "V" configuration using a single mast, or a standard dipole configuration between two masts.

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.

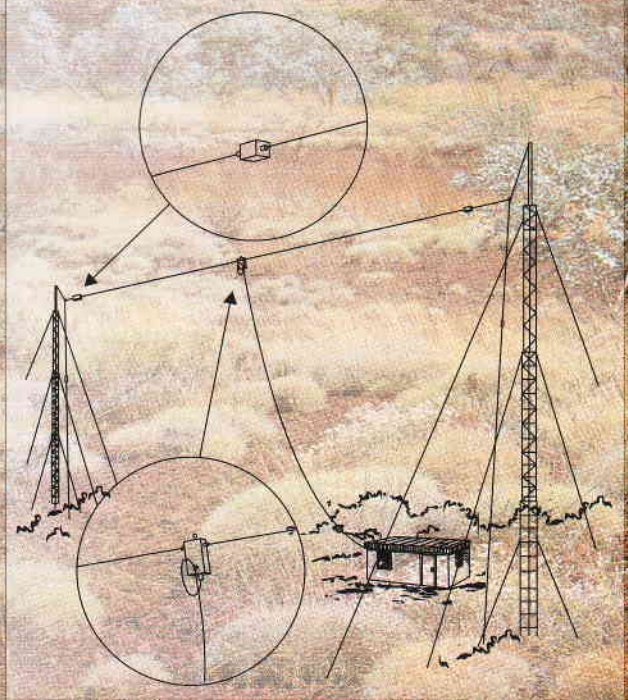


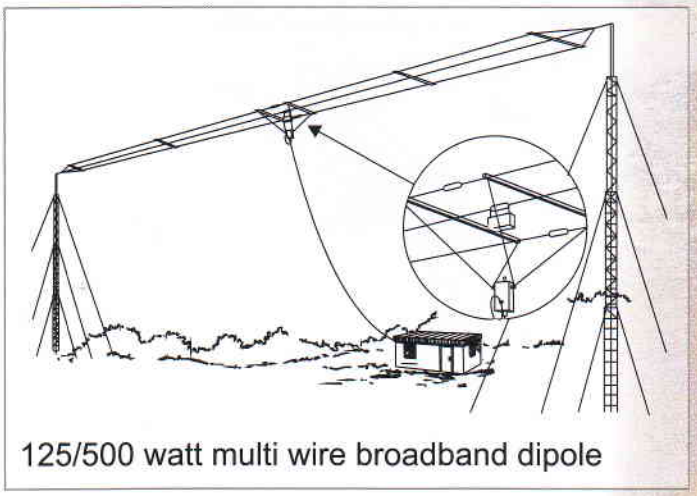
1000 watt multi wire broadband dipole



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

125 watt single wire broadband dipole in a limited space configuration





125/500 watt multi wire broadband dipole

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BARRETT COMMUNICATIONS
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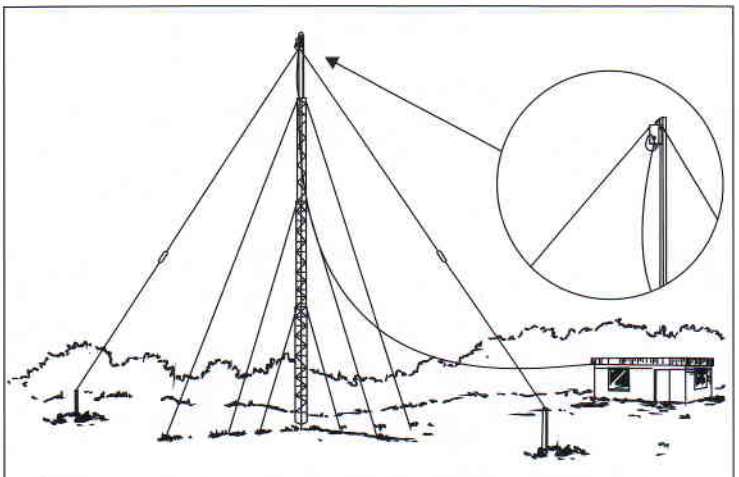
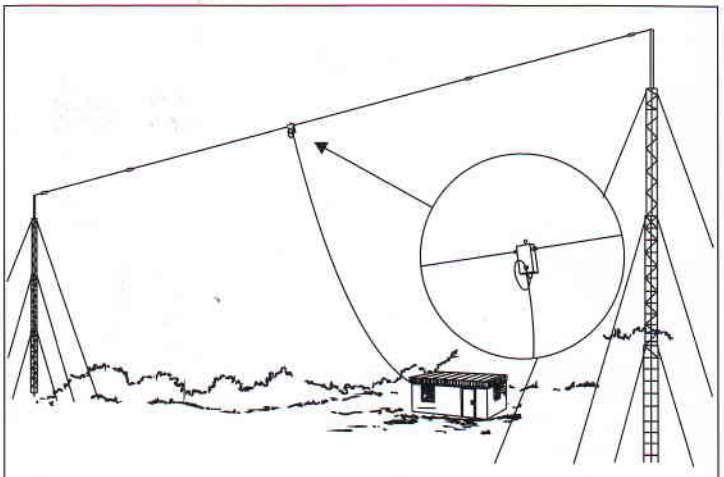


125 watt single wire broadband dipole in an inverted "V" configuration



125 watt standard single wire broadband dipole

**General Specifications**

| | |
|---|---|
| Frequency range | 2 to 30 MHz |
| VSWR | Less than 2.5:1 |
| Impedance | 50ohm |
| 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**

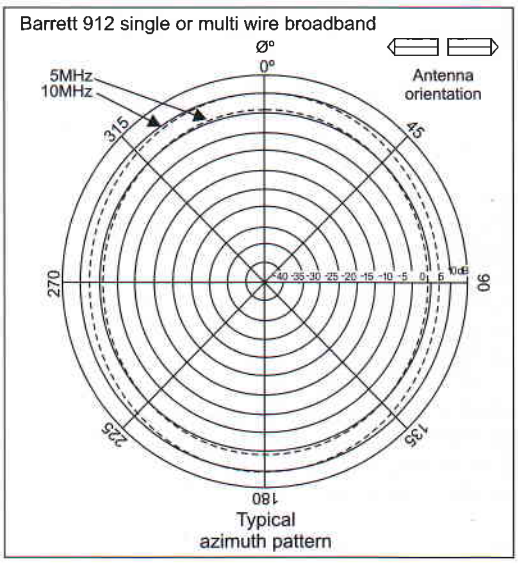
| | |
|---|---|
| Length insulator to insulator | 28 metres |
| Width | 1.3 metres |
| Power handling | 500W CW, 1250W PEP |
| Packed weight | 13kg |
| Packed dimensions | 1.4m x 300mm x 150mm |

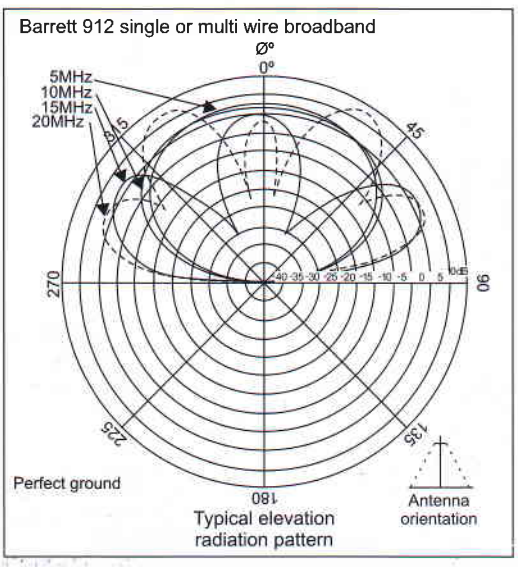
**BC91203 1000 watt multi wire broadband dipole**

| | |
|---|---|
| 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 |

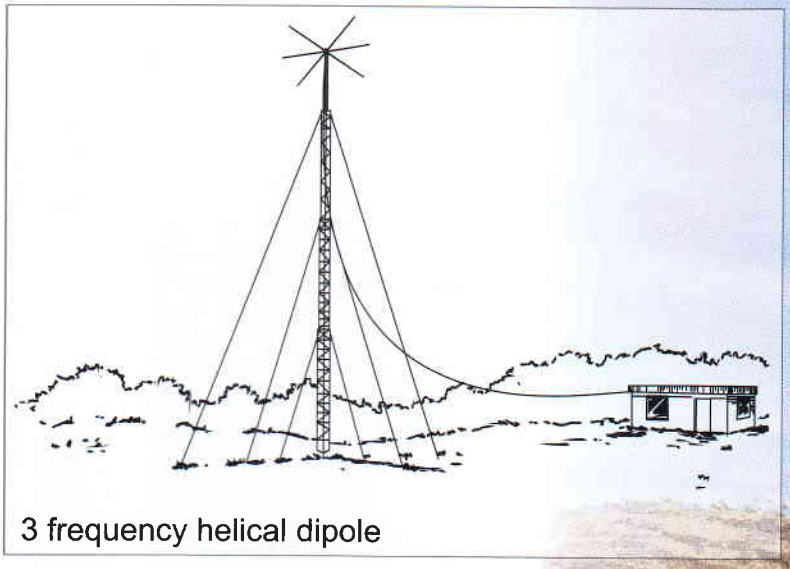
**BC91201 125 watt single wire broadband dipole**

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



## 913 Series Helical Dipoles



3 frequency helical dipole

**General Specifications**

| | |
|---|---|
| Frequency Range | 2-30MHz |
| No of Frequencies | 5 (Max) |
| VSWR | Less than 1.7: 1 |
| Impedance | 50 ohm |

**Antenna Dimensions:**

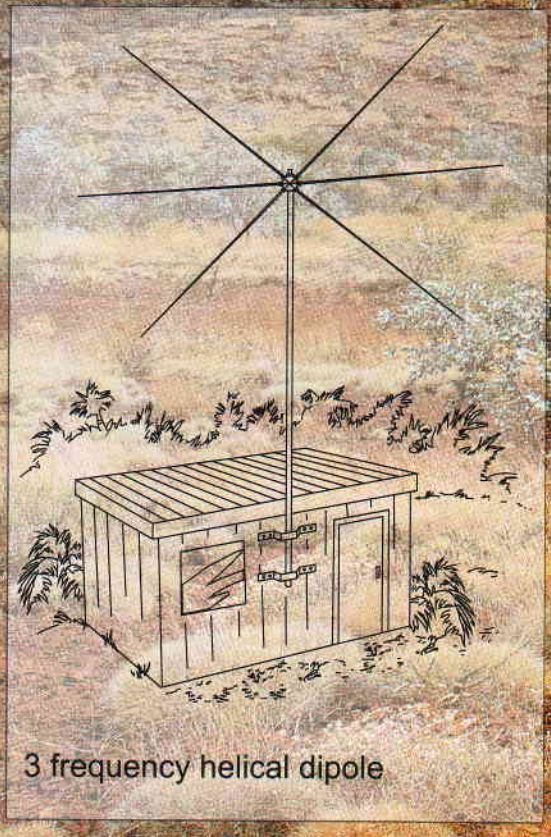
| | |
|---|---|
| Overall | Standard 7 metres<br>Optional 4 metres |
| Hub | Width 235mm<br>Height 210mm<br>Depth 50mm |

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 .

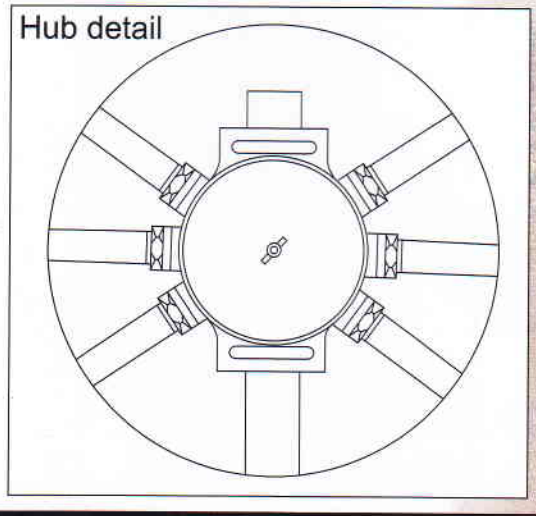
The hub is designed to be mounted on either a 50mm diameter support mast or an existing tower. The antenna comes complete with 30 metres of RG58 coaxial cable and high quality C32-21 waterproof connectors.

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



3 frequency helical dipole

Hub detail



# Base Station Antennas

# BARRETT COMMUNICATIONS
ADVANCED HF SSB EQUIPMENT

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## 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 | 500KHz - 30MHz |
| VSWR | Less than 1.5:1 |
| Impedance | 50 ohm |
| Construction | Stainless steel radiators |

## 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.

DEFENCE RECOGNISED SUPPLIER
Department of Defence


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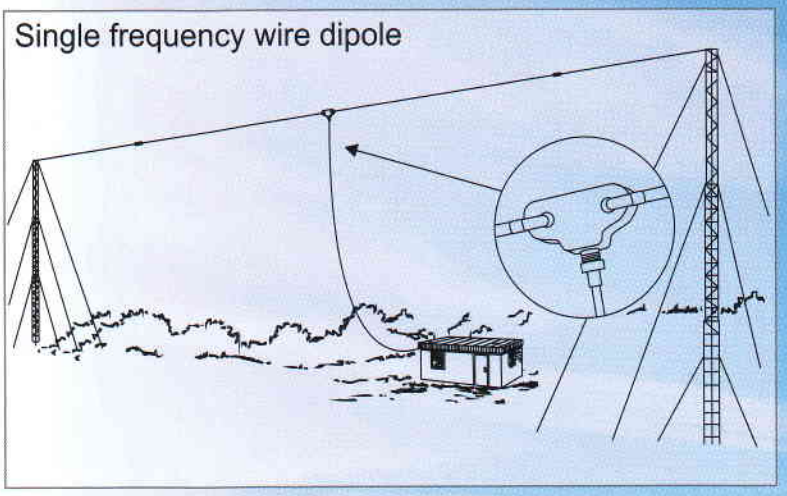


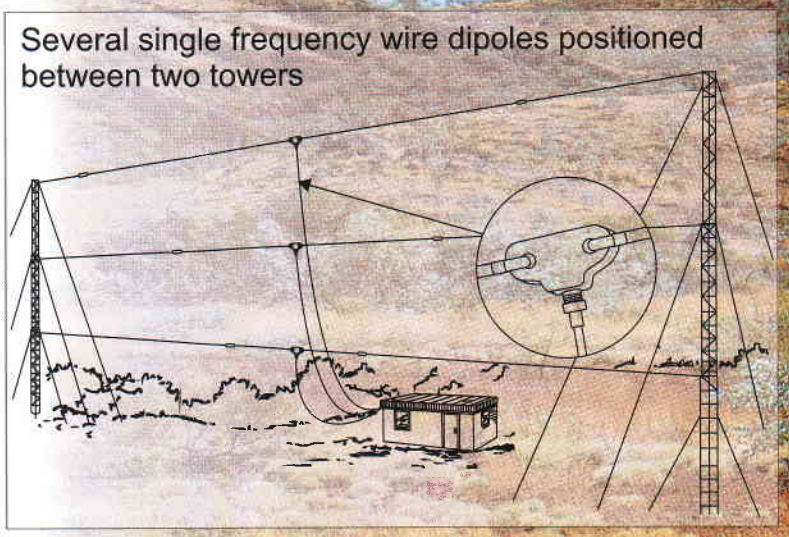


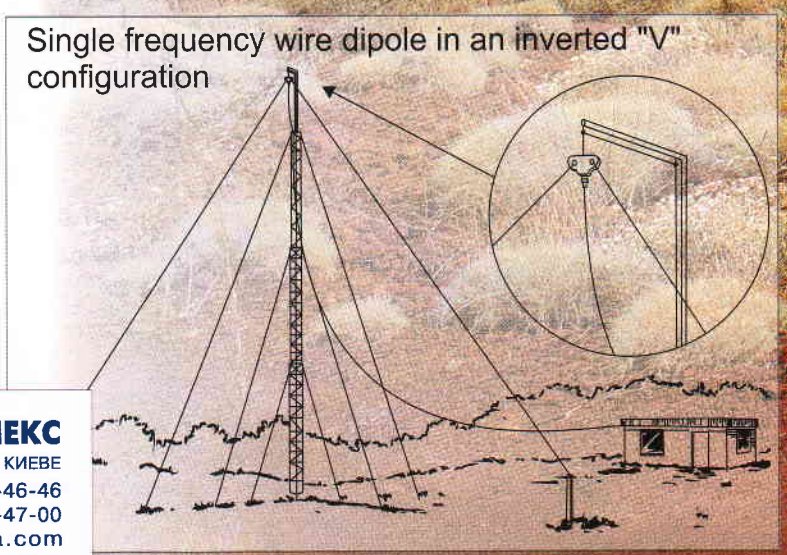




Base Station Antennas

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