



910 Automatic Tuning Mobile HF Antenna

The Barrett 910 is an automatic tuning mobile antenna, designed to interface with Barrett 500, 900, and 2000 series transceivers.

Providing a frequency coverage of 2 to 30MHz, the Barrett 910 features rapid tuning (typically <math><1.5\text{S}</math>) and low power consumption. High radiation efficiency and accurate tuning are assured by maximising antenna current (not minimising the VSWR) on every tune. The Barrett 910 antenna incorporates a wideband amplifier that is activated in receive mode to enable channel scanning. Due to its rugged RF design, the Barrett 910 antenna can also be used with high duty cycle applications such as the Barrett 923 or 2020 fax and data system.

The active tuning elements of the antenna are housed in a grey weatherproof, impact resistant reinforced polycarbonate moulding that incorporates a heavy duty anti-vibration mount at its base, even with its rugged construction, the Barrett 910 weighs only 2.8Kg.

The Barrett 910 is supplied with an integral 2 metre whip and spring. The main antenna body has a 1.5 metre stub control cable, with a 4.5 metre extension cable to connect it with the transceiver. This composite cable incorporates coaxial, power supply and control cables. Additional 4.5 metre or 10 metre extension cables are available if required.

Specifications

Frequency Range	2 to 30MHz continuous
Rapid Tuning	1.5S (typical)
Power Rating	125 Watt PEP - voice and data
Input Impedance	50 Ohm
VSWR	Better than 2.1
Current Drain	600mA (typically)
Dimensions	Length
	Body 610mm
	Whip & coil 1740mm
	Integral whip and spring 2000mm
	Diameter
	Maximum 120mm
Weight	Body 2.6Kg
	Integral whip and spring 0.50Kg
Mounting	0.5" BSW stud, length 45mm



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914 Manual Tapped Whip HF Antenna

The Barrett 914 range of manual tapped whip antennas are designed for land mobile installations where a limited number of frequencies are required.

Frequency selection is achieved by the re-location of a tapping plug to a specific socket for each frequency. Barrett 914 antennas have a maximum of 12 individual frequencies in the range 2 to 30MHz.

The complete assembly consists of a helically wound whip section, encapsulated in a tough polyurethane resin and a separate heavy duty mounting base and spring. Connection to the transceiver is via an integral UHF coaxial connector in the mounting base.

The Barrett 914 antenna is an extremely robust, high efficiency antenna, with no moving parts and is designed for use in the harshest environments.

Specifications

Frequency range	2 to 30MHz
Power rating	125 Watt PEP
Input impedance	50 Ohm
Channel capacity	12
VSWR	1.5:1 (typically)
Dimensions	Length Whip 1800mm Base & Spring 200mm
	Diameter Maximum 60mm
Weight	1 Kg (exc. base & spring) 3 Kg (inc. Base & spring)
Mounting	0.5" BSW stud

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