



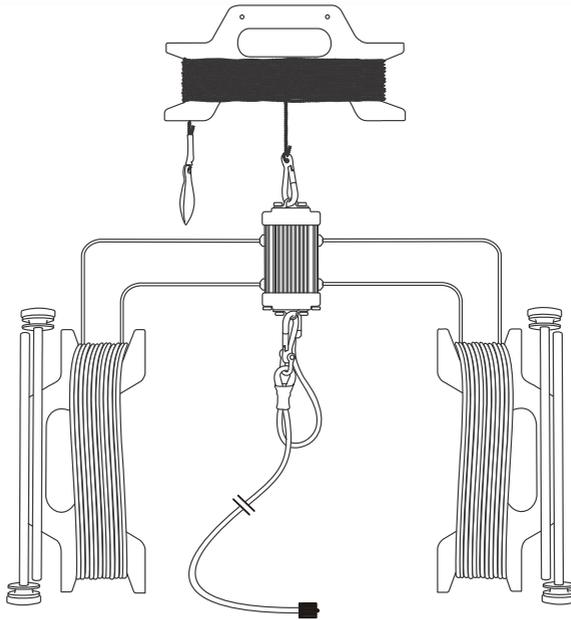
BARRETT

TACTICAL COMMUNICATIONS

HF & VHF Radio
Communications

Rapid Deployment Two Wire Broadband Dipole Antenna 150 W

P/N 2090-02-20

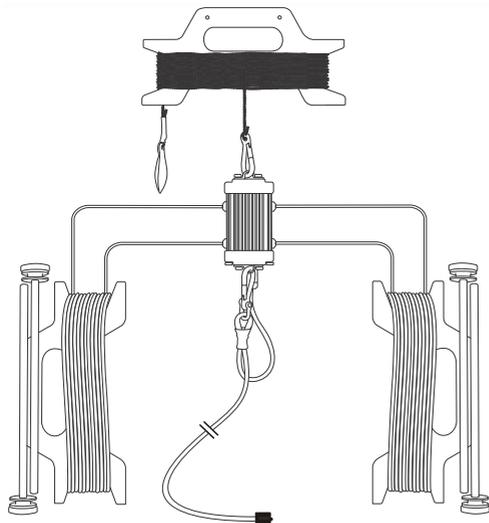


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Introduction



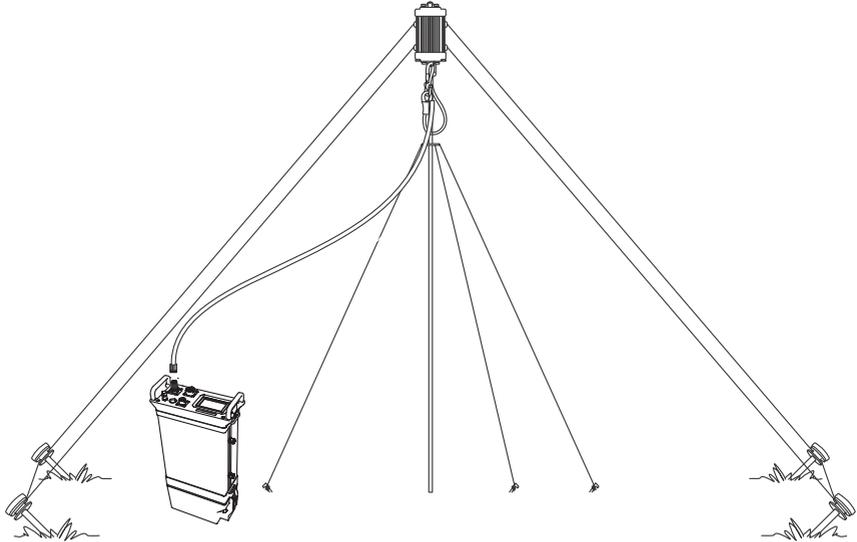
The Barrett Rapid deployment two-wire broadband dipole antenna is a new type of broadband tactical wire dipole antenna featuring a small installation footprint and small packed size. Deploying the antenna is rapid and simple. It will operate continuously across the band from 2-30 MHz. The power rating is 150 W PEP.

The construction is rugged with Kevlar radiator wires and a robust extruded alloy balun housing.

The antenna is deployed as an inverted-V, mounted on a single central pole or other convenient suspension point (such as an overhanging tree limb) at a height of 6-10 metres. This gives omnidirectional coverage with strong near vertical radiation for NVIS communications and also good signal strength at lower angles for medium and longer range communications.

Contents Overview

- Robust extruded-alloy balun
- 2 x Kevlar core antenna wire
- 4 x Ground stakes
- 3 x Large winders
- 1 x 20 m throwing cord with weighted end and hook
- 1 x 20 m RG-58 coax with UHF male connectors
- 1 x UHF Female to BNC male adapter
- Carry bag
- Instruction sheet



Installation

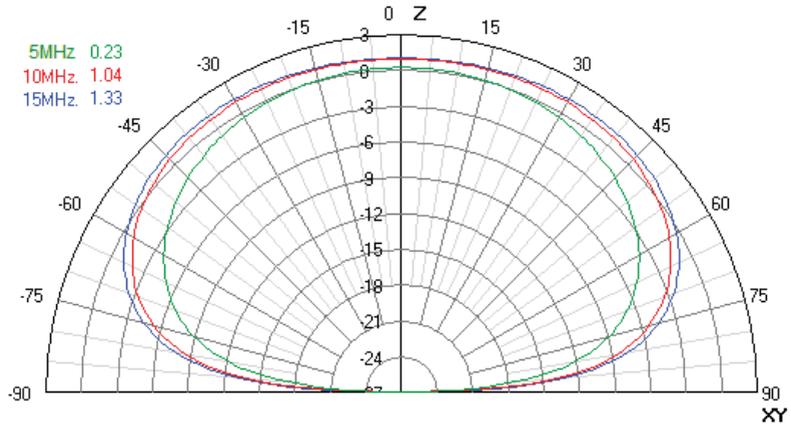
The legs are spaced at one metre. The height of the balun will depend on the height of the mast or other convenient suspension point; this will determine the space needed for the antenna to be setup.

As a quick guide, refer to the following table:

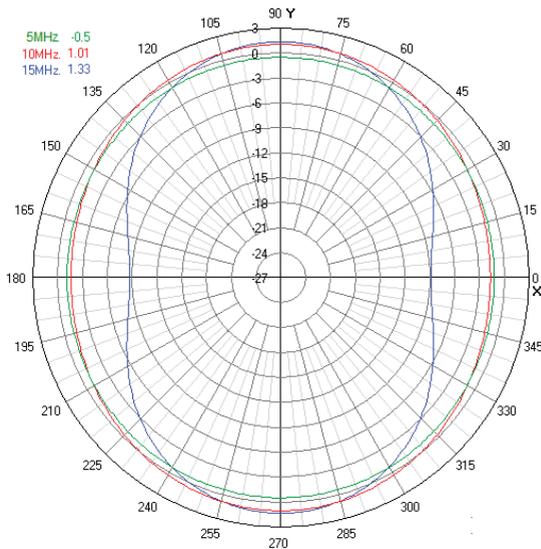
Mounting Height (Balun)	Overall Installed Width	Overall Installed Length
6 m	1 m	20.78 m
7 m	1 m	19.49 m
8 m	1 m	17.49 m
9 m	1 m	15.87 m
10 m	1 m	13.26 m

Radiation Pattern

Vertical Plane - Total Gain (dBi)



Horizontal Plane - Total Gain (dBi)



Specifications

Electrical

Frequency Range	2 - 30 MHz
Input Impedance	50 ohms
Power Rating	150 W PEP
VSWR	Equal or less than 2.0:1 from 2-27 MHz, Less than 2.2:1 from 27-30 MHz
Connector	UHF female
Polarisation	Horizontal
Radiation Pattern	Essentially Omni-Directional (when mounted as an inverted-V)

Mechanical

Mounting Height	Recommended between 6 m to 10 m
Overall Installed Length	20.68 metres at 6 m centre height
Overall Installed Width	1 metre at 6 - 10 m centre height
Mounting	Central suspension via mast or other support, ends via ground stakes
Colour	Radiating wire elements - NATO green Balun housing - black

Environmental

Wind	160 km / hour survival, 120 km / hour operational
Temperature	-40° C to +70° C operational -40° C to +85° C storage
Humidity	0% to 97% relative humidity
Ingress Protection	To IP67 (dust and water)
RoHS2	Complies with Directive 2011/65/EU

Limited 3 Year Warranty Statement

Barrett Communications Pty Ltd provides a maximum three year warranty on all equipment it manufactures which is to be used expressly for high frequency, single sideband radio communications. This warranty covers faults arising from defects in design, workmanship or materials. Please note that this warranty does not cover batteries.

Should any fault due to bad design, workmanship or materials be proven at any time within the warranty period, the company will rectify such fault free of charge providing the equipment is returned freight paid to Barrett Communications Pty Ltd head office or to an authorised service centre. The warranty period for all products is thirty six (36) months after date of shipment from the factory.

In the event that Barrett Communications repairs or replaces a defective product part under warranty, the repaired or replaced product will remain covered under and throughout the term of the original warranty period up to its expiration. No repair or replacement will extend the warranty term past the original thirty six (36) month anniversary of the original shipment delivery date of the Barrett Product.

This warranty shall not cover any abuse, accident, improper installation, connection, adjustment or use other than in accordance with the instructions issued by the company.

In addition, this warranty shall not cover the distance which transceiver products will operate over or quality of transmission or reception as a result of unfavourable environmental conditions. Nor shall this warranty cover the quality of transmission and reception of transceivers mounted in vehicles or vessels that have not been sufficiently electrically suppressed.

Subject to the matters set out in this warranty, no liability, expressed or implied is accepted for any consequential loss, damage or injury arising as a result of a fault in the equipment and, all expressed or implied warranties as to quality or fitness for any purpose are hereby excluded.

This warranty does not extend to products supplied by the company which are not designed or manufactured by it. Barrett Communications Pty Ltd will however make every endeavour to ensure that the purchaser receives full benefit on any warranty given by the original equipment manufacturer.

This warranty is restricted to the original purchaser. Where the original purchaser is a reseller who has purchased for the purpose of resale, warranty shall be extended to the reseller's customer.