Aerial Systems Australia

Product Brief

Bushcomm BBA-100CE HF Antenna

HF BROADBAND MULTIWIRE DIPOLE
*Extended Low Frequency *

Bushcomm's flagship model and all-round best performer to date is the BBA series of antennas.

These antennas are highly efficient, and engineered to meet the exacting standards of professional users. Frequency range is specified according to useful gain (not only VSWR). All components are validated for rated power.

The Bushcomm BBA has the flexibility to suit a wide range of applications.
It can be installed horizontally between two purpose built towers, or alternatively in an inverted “V” configuration for improved NVIS propagation characteristics.

Light yet sturdy construction ensures low total mass wind loading. The highest quality materials are used in construction, such as stainless steel wire and fittings, and UV resistant fibreglass rods, to produce an antenna that will survive the rigours of the outdoors for many years.

There are many variants in the BBA family with sizes and power ratings to suit a wide range of applications.

DR DIGITAL HF VOICE & DATA RADIO COMPATIBLE

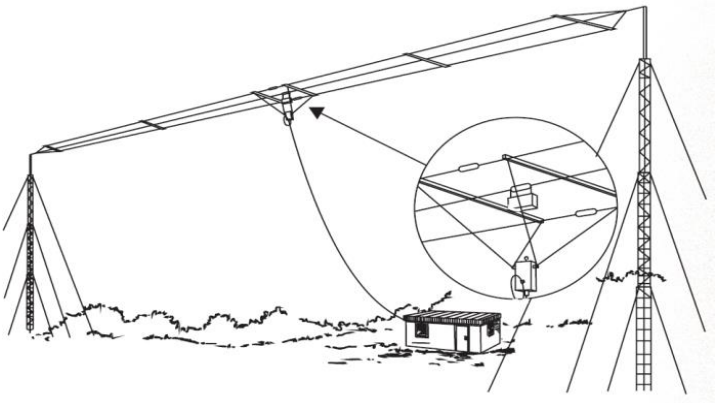
FULL BBA SERIES FAMILY:

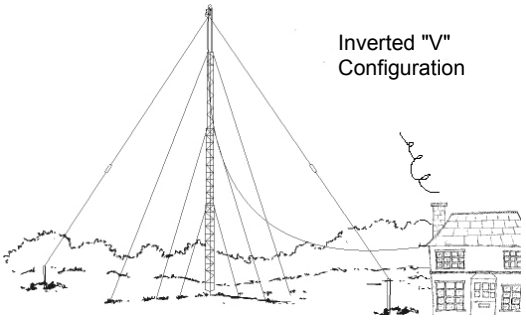
* BBA100V - 125w, 2.0~30Mhz, 27M
* BBA100C - 250w, 2.0~30Mhz, 27M
* BBA100CS - 250w, 3.0~30Mhz, 20M
* BBA100CE - 250w, 1.6~30Mhz, 54M
* BBA-600VS - 600w, 3.0~30Mhz, 20M
* BBA600V - 600w, 2.0~30Mhz, 27M
* BBA600VE - 600w, 1.6~30Mhz, 54M
* BBA1kD - 2kW, 2.0~30Mhz, 27M
* BBA1kDE - 2.5kW, 1.6~30Mhz, 54M
* BBA1kCF - 2.5kW, 1.5~30Mhz, 74M

SPECIAL FEATURES

- 1.6-30 MHz
- No tuner required
- S/S wire and fittings
- UV resistant rod & balun/load boxes
- Easy installation (instruction provided)
- Variation of length and power available
- Configurable in horizontal or inverted V
- Suitable for Digital voice & data modes

CE RoHS





Bushcomm
HF Antennas

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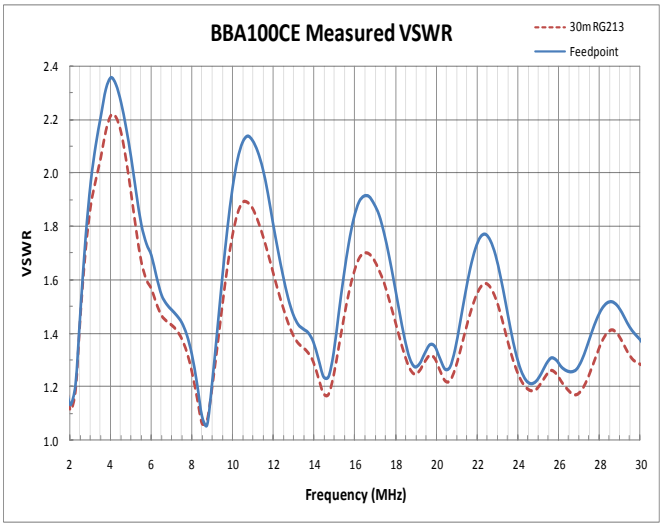
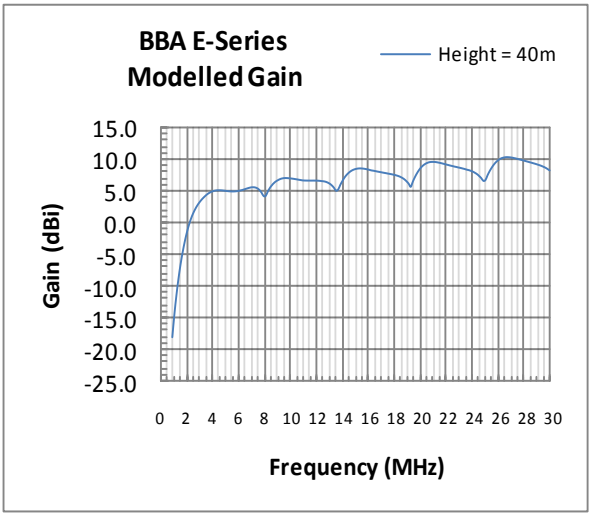
Specification Summary

SPECIFICATION	
ELECTRICAL	
Frequency Range	1.6 - 30MHz
Nominal Input Impedance	50 Ohm
VSWR (Typical)	Better than 2.5:1
Gain (Height dependent)	5dBi (typical) -5dBi at 1.8MHz (typical, 40m height)
Power Rating	130W Continuous Data / 250W PEP
Input connector	UHF Type socket (S0239)
MECHANICAL	
Operating Temperature	-30°C to +50°C
Storage Temperature	-40°C to +85°C
Ice Loading	0.6cm , with reduced wind loading
Shipping	1400x170x100mm, approx 10kg
Antenna Length	54 metre
Radiating elements	2mm Stainless Steel (304)
Wind Rating	210 km/hr*
Mast Spacing	58m horizontal tower spacing**, 40m footprint Inverted V

Above: Bushcomm Balun showing coaxial strain relief feature***

* In accordance with AS1170.2 – 1989 SAA Loading Code – Wind Loads
** Approximate spacing. Will vary location to location and depending on preference
*** Coaxial cable not included, can be purchased separately





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