Our flagship model and all-round best performer to date is the BBA series of Base & Fixed Station HF 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), and all components are validated for rated power.

The Bushcomm BBA has the flexibility to suit a wide range of installation situations - between two purpose-built towers at a professional site, in an inverted “V” configuration, or even between a tree and the back shed.

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.

**FULL BBA FAMILY:**
- *BBA100V* - 125w PEP Voice
- *BBA100C* - 130w continuous
- *BBA100CS* - 130w continuous, short
- *BBA100CE* - 130w continuous, long
- *BBA-600VS* - 600w PEP, short
- *BBA600V* - 600w PEP
- *BBA600VE* - 600w PEP, long
- *BBA1kD* - 1kW continuous
- *BBA1kDE* - 1kW continuous, long
- *BBA1kCF* - 1kW continuous, extra long

**SPECIAL FEATURES**
- 1.6-30 MHz with VSWR 2:1 or better
- 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 continuous data

DR DIGITAL HF VOICE & DATA RADIO COMPATIBLE
# Specification Summary

## SPECIFICATION

### ELECTRICAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>1.6 - 30MHz</td>
</tr>
<tr>
<td>Nominal Input Impedance</td>
<td>50 Ohm</td>
</tr>
<tr>
<td>VSWR (max)</td>
<td>Better than 2.0:1 (30m RG213)</td>
</tr>
<tr>
<td>Gain (height dependent)</td>
<td>5dBi (typical) - 5dBi at 1.8MHz (typical, 40m height)</td>
</tr>
<tr>
<td>Power Rating</td>
<td>1kW Continuous / Data (2.5kW PEP)</td>
</tr>
<tr>
<td>Input connector</td>
<td>UHF Type socket (S0239)</td>
</tr>
</tbody>
</table>

### MECHANICAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-30°C to +50°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40°C to +85°C</td>
</tr>
<tr>
<td>Ice Loading</td>
<td>0.6cm , with reduced wind loading</td>
</tr>
<tr>
<td>Shipping</td>
<td>1450x400x220 mm, approx 16kg</td>
</tr>
<tr>
<td>Antenna Length</td>
<td>54 metre</td>
</tr>
<tr>
<td>Radiating elements</td>
<td>3.2mm Stainless Steel (304)</td>
</tr>
<tr>
<td>Wind Rating</td>
<td>210 km/hr*</td>
</tr>
<tr>
<td>Mast Spacing</td>
<td>58m horizontal tower spacing**, 40m footprint Inverted V</td>
</tr>
</tbody>
</table>

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

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**BBA1KDE Measured VSWR**

**BBA1KDE Modelled Gain**

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