



## **BBA-1kDE-X Extreme Conditions HF Antenna**

- **HF BROADBAND MULTIWIRE ANTENNA**
- **1kW Continuous Data/Broadcast, 1.5kW PEP**
- **Strengthened for harsh environments**

The BBA series 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 the rated power.

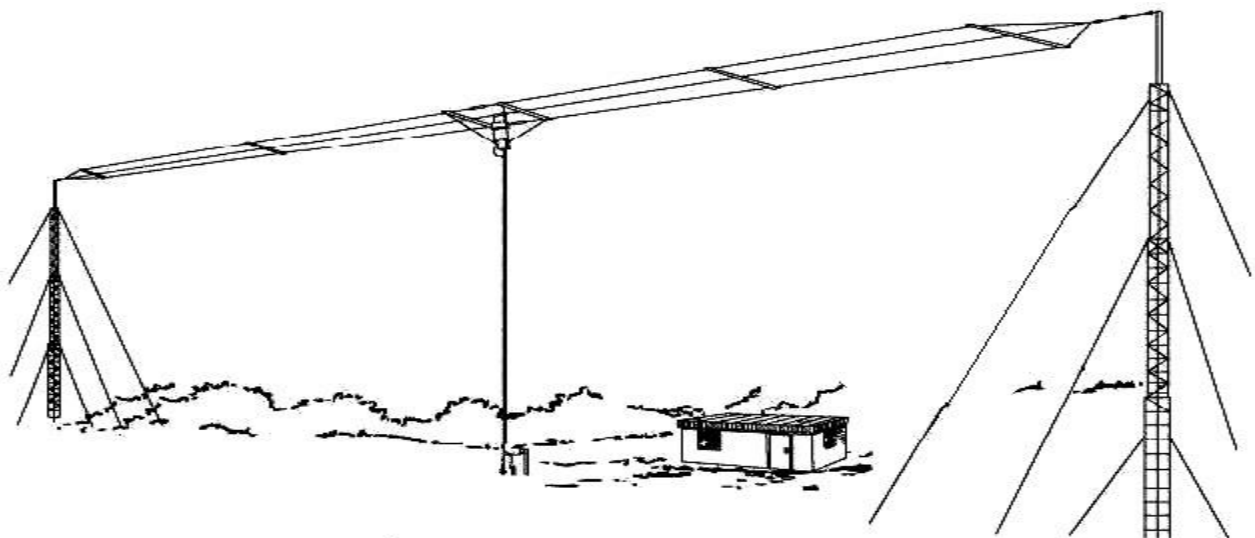
The Bushcomm BBA has the flexibility to be installed in either a horizontal or sloping linear configuration or in an inverted 'V' format.

The standard **BBA-1kDE** 's light, yet sturdy construction ensures low total mass wind loading. The highest quality materials are used in construction. Stainless steel wire and fittings and UV resistant fibreglass rods, produce an antenna that will survive the rigours of the outdoors for many years.

The **BBA-1kDE-X** variant employs larger diameter spreader rods to withstand extreme wind and snow-ice conditions. It uses 3.2mm stainless steel wire elements.

### **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)
- Configurable in horizontal or inverted V
- Suitable for continuous data
- Strengthened for harsh conditions





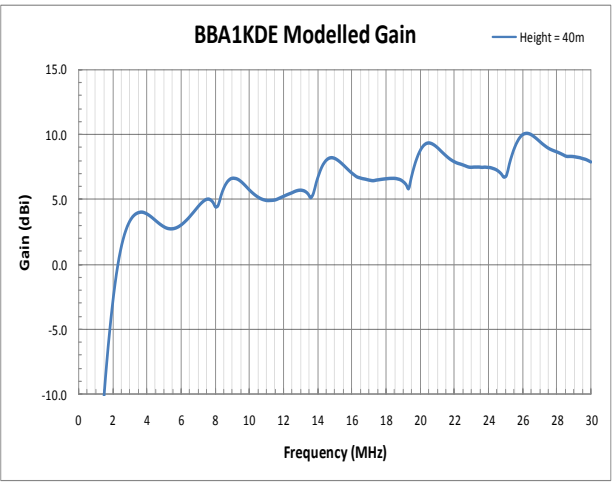
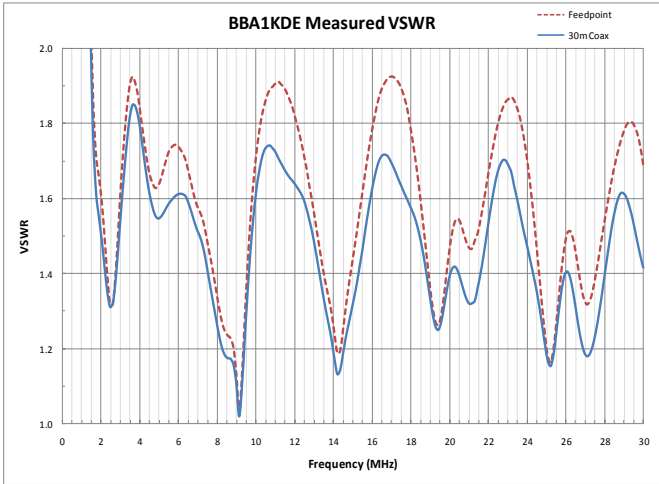
## Specification Summary

SPECIFICATION	
<b>ELECTRICAL</b>	
Frequency Range	1.6 - 30MHz
Nominal Input Impedance	50 Ohm
VSWR (max)	Better than 2.0:1 (30m RG213)
Gain (height dependent)	5dBi (typical) -5dBi at 1.8MHz (typical, 40m height)
Power Rating	1kW Continuous (1.5kW PEP)
Input connector	UHF Type socket (S0239)
<b>MECHANICAL</b>	
Operating Temperature	-30°C to +50°C
Storage Temperature	-40°C to +85°C
Ice Loading	0.6cm , with reduced wind loading
Shipping	1500x380x170 mm, approx 19.5kg
Antenna Length	54 metre
Radiating elements	3.2mm Stainless Steel (304)
Wind Rating	210 km/hr*
Mast Spacing	58m horizontal tower spacing**, 40m footprint Inverted V



**Above:** Bushcomm Balun showing pigtail 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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