

# **BROADBAND PROPAGATION**

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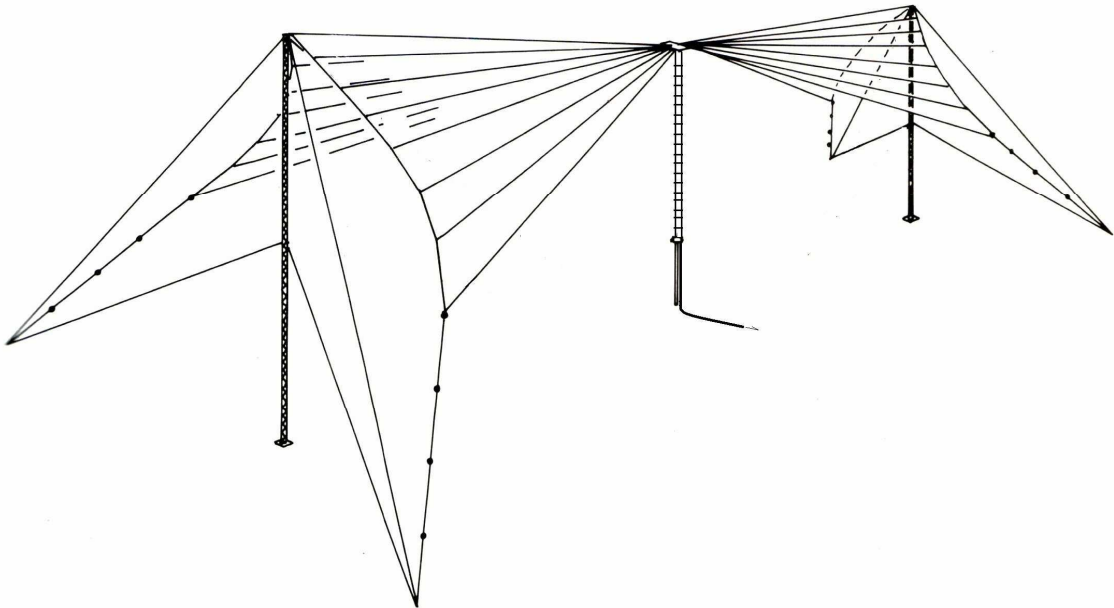
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## **HF BROADBAND BICONICAL DIPOLE**

**Models: BPBD-2-30 and: BPBD-3-30**



Our HF broadband Biconical Dipoles are highly efficient, horizontally polarised antennas that at lower frequencies are suitable for short to medium range communication and at the higher frequencies have the strongest signals at lower angles for long range propagation.

The antenna is centre fed and can be supplied with power ratings ranging from 200 watts, to 10 Kilowatts CW (Continuous). The antennas are almost 100% efficient across the full operating range of frequencies. The antenna is ideal for frequency agile transmissions and is constructed of high grade materials throughout.

**Full lightning protection is provided**

**Specifications**

**BPBD-2-30**

**BPBD-3-30**

**Electrical**

<b>Frequency:</b>	2-30 MHz	3-30 MHz
<b>Gain:</b>	8.5 dBi	
<b>VSWR:</b>	2.0-1 most of band, 2.5:1 maximum	
<b>Polarisation:</b>	Horizontal	
<b>Power Rating :</b>	250 watt average (1 kW PEP) 1Kilowatt average (4 kW PEP) and 10 Kilowatt (40 kW PEP) models available	

**Input Impedance:** 50 ohms  
**Input connection:** Dependant on power rating

**Mechanical**

<b>Mast Height:</b>	20m	15m
<b>Overall length:</b>	101m	72m
<b>Overall Width:</b>	40m	30m
<b>Wind Rating</b>	230 km/hr	

*All metal materials are of high grade stainless steel or hot-dip galvanised steel.  
 Ceramic insulators used throughout.*

**ELEVATION PATTERNS**

