



## HFS30

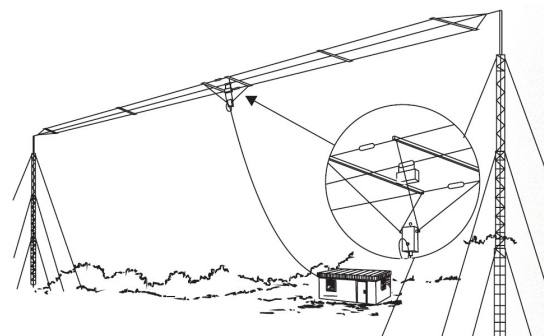
NVIS, commercial or military HF Broadband 3-Wire

HF 2.0-30 MHz



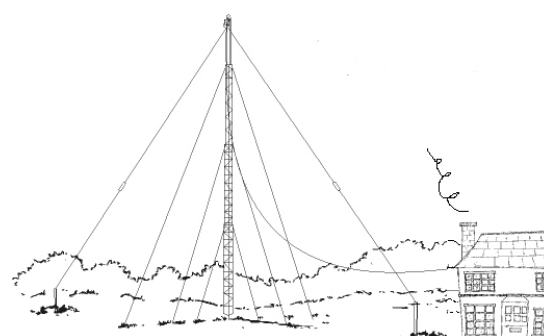
HFS30 is a multi-wire broadband dipole which covers the entire HF frequency range 2.0-30 MHz. The light but sturdy design is highly efficient and offers excellent performance with minimal wind loading. Suitable for commercial, civilian or military applications such as near vertical incidence skywave (NVIS).

In mounting configurations the antenna needs to be erected 10 metres above ground level.



Horizontal configuration

Construction	3 x 2mm stainless steel wires and fittings, fibreglass rods
Frequency range	2.0-30 MHz - HF
Bandwidth	Full frequency range stated
Tuning	Factory - no tuner required
VSWR - typical	<2:1
Gain - typical	5 dBi, -6 dBi at 3.6 MHz
Maximum power	130 Watts continuous - 250W P.E.P.
Impedance	50 Ohms
Input connector	UHF female socket SO239
Shipping weight	4.0kg
Wind rating	210kph
Antenna length	27 metres
Horizontal tower spacing	29 metres - mast to mast
Inverted "V" spacing	20 metre footprint



Inverted 'V' configuration



HF 3-wire balun with strain relief

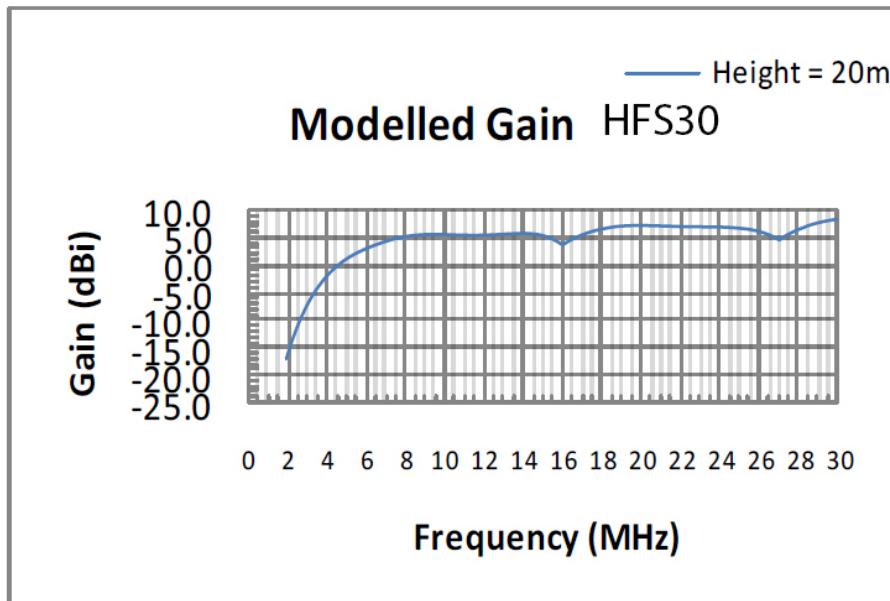
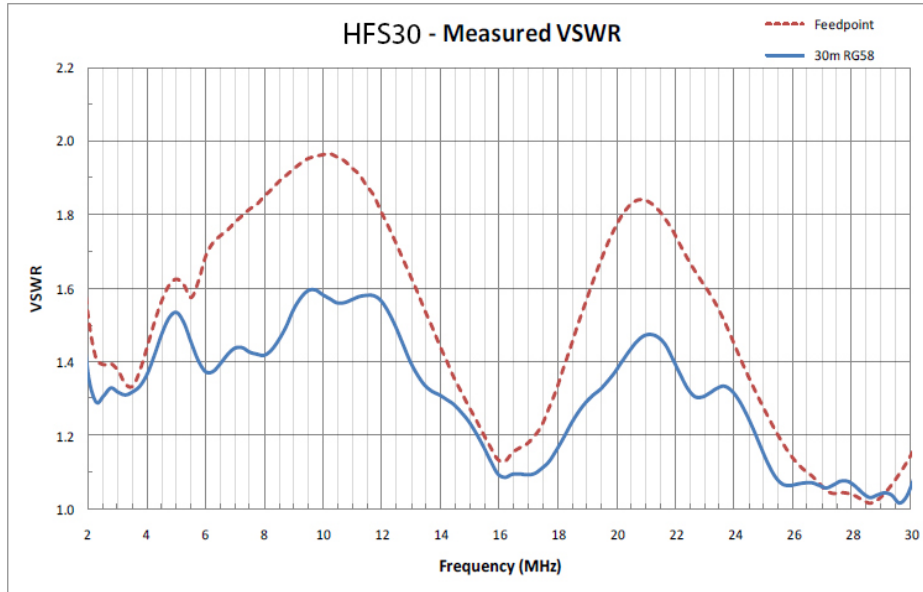


# HFS30

NVIS, commercial or military HF Broadband 3-Wire  
HF 2.0-30 MHz



## Horizontal Configuration



## Section 1

# BASE STATION ANTENNAS

Updated 14 February 2011

## HFS30 HF Broadband 3 Wire

**Frequency**  
3.6 – 30 MHz

**Bandwidth**  
FULL BAND



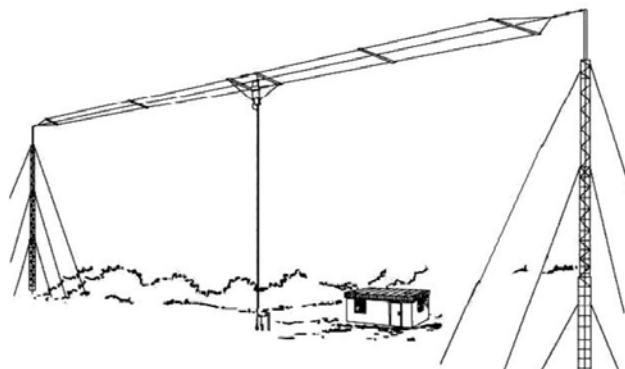
HFS30 is a 3 Wire Broadband Antenna which covers the entire HF frequency range 3.6 to 30 MHz. The light but sturdy design is highly efficient and offers excellent performance with minimal wind loading. No tuner is necessary.

Mounting can be adapted to a wide variety of situations. The usual mounting method is horizontal between two towers 29 metres apart. Otherwise the antenna can be erected simply between a tall tree and the back yard shed. An inverted "V" configuration across a single tower is another mounting option which occupies less space.

In all cases the antenna needs to be erected at least 10 metres above ground level.

The wire and all fittings are stainless steel to eliminate corrosion. Spacing rods are UV resistant fibreglass. These high quality components will survive outdoors for many years in the harshest weather conditions.

Satisfied users of the HFS30 include amateur radio operators, the military, Royal Flying Doctor Service outposts Australia wide, police, government and long distance education correspondence schools.



SPECIFICATIONS	HFS30
<b>Construction</b>	3 x 2 mm stainless steel wire, stainless steel fittings and UV resistant fibreglass rods
<b>Frequency</b>	HF 3.6 to 30 MHz
<b>Bandwidth</b>	Full Band
<b>Tuning</b>	Factory, no tuner required
<b>Typical VSWR</b>	Better than 2:1
<b>Typical Gain</b>	5 dBi -6 dBi at 3.6 MHz
<b>Maximum Power</b>	100 Watts continuous 150 Watts PEP
<b>Impedance (Nom.)</b>	50 Ohms
<b>Connector</b>	UHF Female
<b>Shipping Weight</b>	4.5 kg
<b>Wind Rating</b>	210 kph
<b>Antenna Length</b>	27 metres
<b>Horizontal Tower Spacing</b>	29 metres Mast to Mast
<b>Inverted "V" Spacing</b>	20 metres Footprint
<b>Recommended Mast Height</b>	10 metres above ground level minimum

