

HFS30

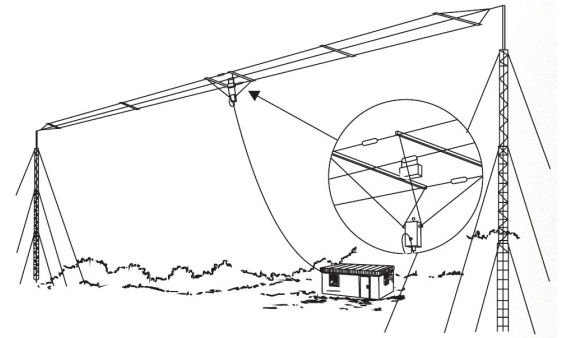
NVIS, commercial or military HF Broadband 3-Wire

HF 3.6-30MHz

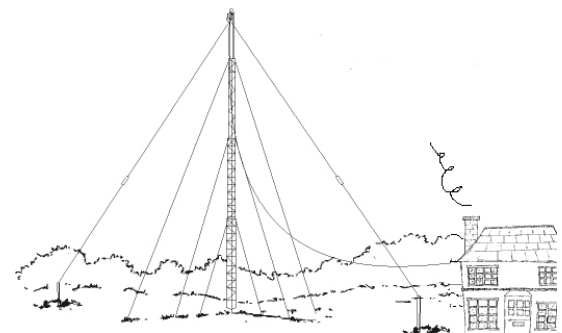


HFS30 is a multi-wire broadband dipole which covers the entire HF frequency range 3.6-30MHz. The light but sturdy design is highly efficient and offers excellent performance with minimal wind loading. Suitable for commercial, civilian or military applications such as near vertical incidence skywave (NVIS).

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



Horizontal configuration

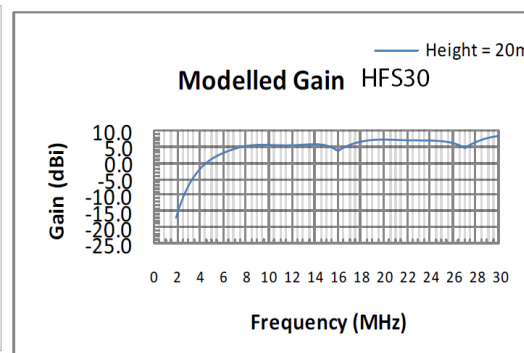
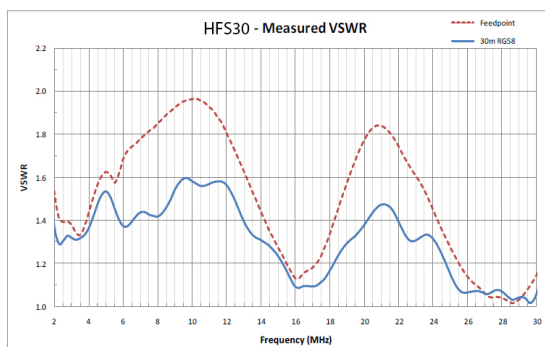


Inverted 'V' configuration

Construction	3 x 2mm stainless steel wires and fittings, fibreglass rods
Frequency range	HF 3.6-30MHz
Bandwidth	Full frequency range
Tuning	Factory - no tuner required
VSWR - typical	<2:1
Gain - typical	5dBi, -6dBi at 3.6MHz
Maximum power	60 Watts continuous - 130W 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



HF 3-wire balun with strain relief



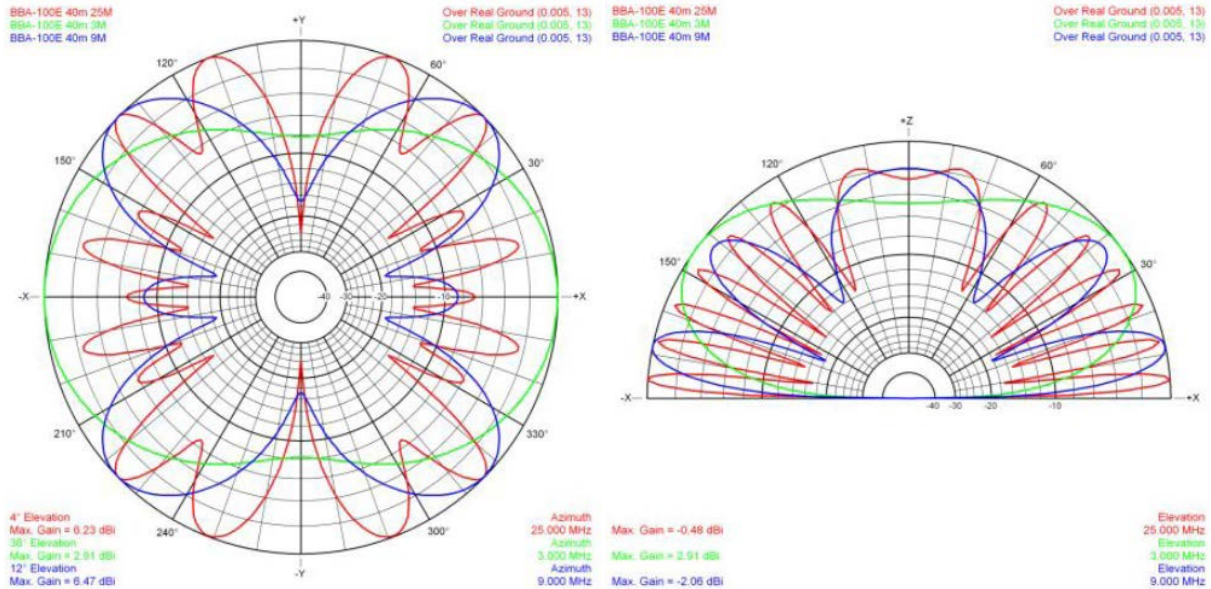


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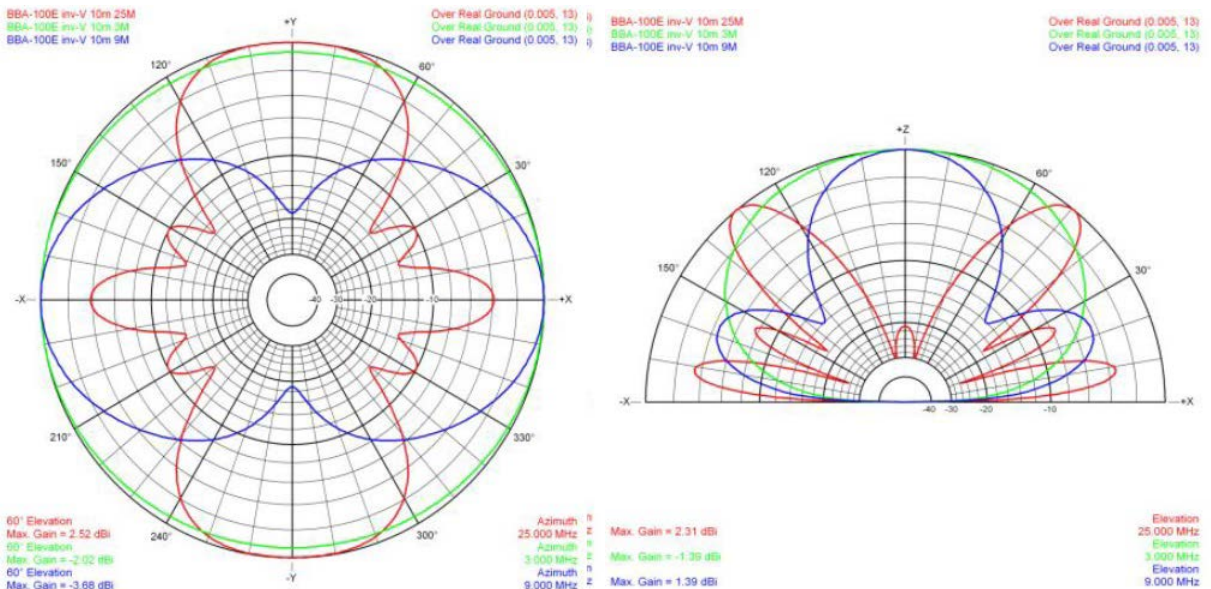
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Horizontal Configuration



Inverted 'V' Configuration



Polarisation: While not usually critical in HF applications, these antennas tend to exhibit horizontal polarisation to the sides of the antenna (along the X axis), and vertical polarisation along the axis of the antenna (Y axis).

Height: In general, for optimum gain in the horizontal configuration, the antenna should be mounted at least 1/4 wavelength above the ground for lowest frequency of interest. Lower mounting heights give lower gain and/or a more vertical radiation pattern.

NVIS: The inverted 'V' configuration is recommended for NVIS operation.