

DATA SHEET

SE HF-360 XP High Power 1kW Vertical Antenna

The Sigma Euro-Comm Ltd HF360 is an end fed vertical antenna, capable of allowing the user to work **80 meters through to 10 meters using an ATU found in most modern radios & 6 meter with the use of an external ATU.** The antenna can be pole mounted at ground level or elevated depending on the user's personal requirements. The antenna is rated at 1KW* pep. The antenna comes with fixings and installation guide.

How it works: The antenna is fed using 50 Ohm coax via a SO-239 socket at the base of the unit a 4:1 UNUN transformer is located in an IP65 weather sealed box at the bottom of the bracket section of the fibre glass elements. The antenna comes in four parts, three fibreglass poles and one stainless steel tapered whip. The transformer reduces the impedance at the feed point to a more acceptable level making the antenna much more efficient and allowing proper and easy tuning via an external ATU and automatic ATU's found in most modern radios. The antenna can be grounded if the user experiences excessive local static noise, but as the UNUN is DC grounded: grounding will not affect the tuning ratios.

BAND	With ATU	Specifications
3.5 MHz 80m	1.0	Type End fed vertical
7 MHz 40m	1.1	Frequency TX / 3.5 - 52 MHz
10 MHz 30 m	1.2	RX / 1.8 - 55 MHz
14 MHz 20 m	1.0	Power handling 1 kW PEP or CW
18 MHz 17m	1.0	& 200 watts max for data modes
21 MHz 15 m	1.0	Impedance 50 Ohms
24 MHz 12m	1.0	Connector SO-239
28 MHz 10 m	1.0	Length 5.5 meters 18 feet
29 MHz 10m FM	1.0	
50 MHz 6m	1.3 (External ATU)	

Please use a good quality 50 Ohm coax, RG-213 or Mini 8 are probably the best choice.

***1kW power rating** is for intermittent amateur radio use (CW or PEP) for data modes (FT-x, RTTY, etc) or constant carrier data modes a **lower maximum of 200 Watts is recommended.**

***If you are using a high-power amplifier it is essential that an external ATU is used between the antenna and the amplifier, otherwise damage may occur.**

Measurements were made using a Yaesu FTdx1200 and internal ATU and a Yaesu FT450D and external LDG-1200 AATU.