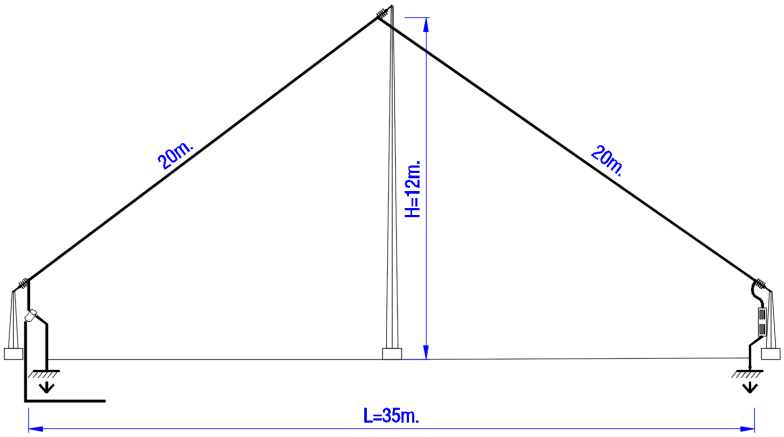
INVELCO, S.A.

INVESTIGACIONES ELECTRONICAS Y COMUNICACIONES

2-30MHZ BROADBAND ANTENNA
MOD. AT-105-A



This antenna, easy to install, is the ideal complement for fixed radio-communication equipment that use HF band in the discrete jumps.

The absence of mobile or switching tune elements guarantee that the tune time before a frequency change is null, therefore assures that this antenna is the best solution for systems of scanner or A.L.E. type in which the absence of tune times is of vital importance.

- Broadband antenna coverage 2 to 30MHz.
- Earth wave communications.
- Ionosphere communications (NVIS).
- Complete coverage of HF band.
- No need of antenna coupler.
- Null tune time.
- Low weight.
- Resistance to winds higher than 150 Km/h.
- Type of assemble triangular.
- Maximum working power 1KW pep.

Made In Spain

2-30MHZ BROADBAND ANTENNA MOD. AT-105-A

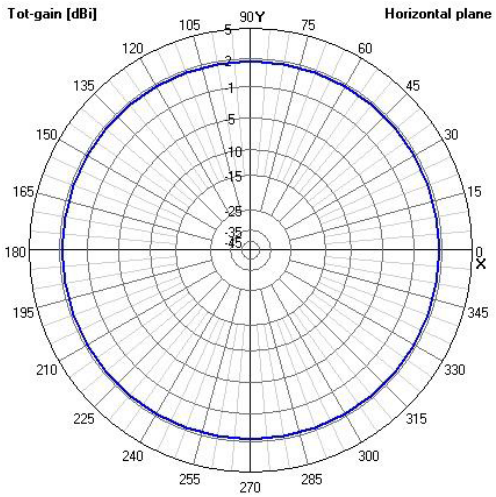
TECHNICAL CHARACTERISTICS

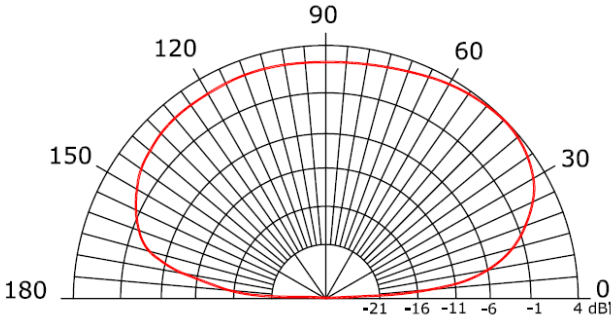
TECHNICAL SPECIFICATIONS

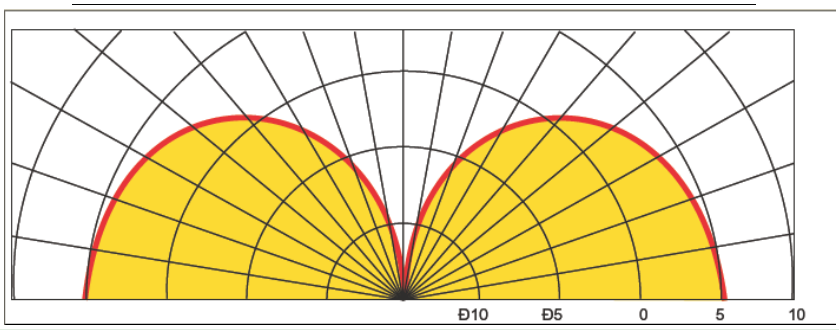
Nominal Impedance	50 Ohms.
Maximum operating power	1000W pep.
Frequency range	2 to 30MHz.
Radiation	Omni-directional NVIS.
Polarization	Horizontal y vertical simultaneously.
Dimensions (**)	L=35 meters, H=12 meters
Weight without masts	6 Kg.
RF Connector	UHF Female.
Stationary wave relation	<2.5:1 typical 1.5:1.
Type of handling	Triangular.
Power supply cable depending on power and length)	RG58, RG213, Cerflex
Wind resistance	150 Km/H.
No need or use tune units.	
No mobile mechanical elements, motors, condensers, etc.	
Tune time	Null.
Work	Continuous at full power.
Gain from the isotropic	>3dBi.
Operating temperature	-20°C to +60°C.

(**) The dimensions, can be reduced to lower values. This can be done without varying the "stationary wave relation" specifications. It is done by reducing the performance of radiation. But it is always advisable to use the longest possible length.

RADIATION DIAGRAMS







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