

DESCRIPTION

The antenna consists of a radiator with a grip-loop in the centre. An impedance matching member is installed at one radiator end that is closed in a water-proof casing on which a counterpoise is bolted. A coaxial cable is lead out from the casing, terminated by a coaxial connector to be used for connection with the radio-station. A terminator with three counterpoises is bolted at the other radiator end. Integral parts of the antenna are the installation parts. The antenna is delivered with a set of supports, pins and extension coaxial cable terminated by a coaxial connector (on customer order).

DESIGNED FOR

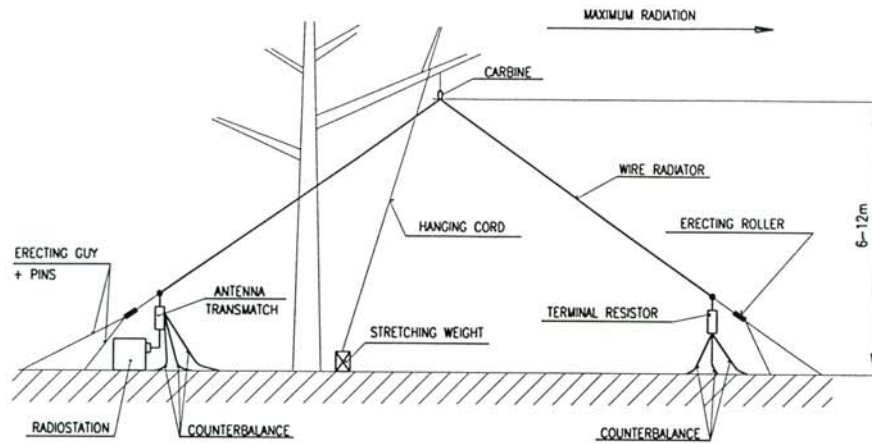
The directional long-wire antenna is designed for increase of radio signal range in the required direction. The antenna can be installed as a half-rhombic type or as a Beverage-type antenna (see Figures 1,2). The antenna increases the radio signal range twice to four times in comparison with a common whip antenna depending on terrain character (mountains, forest, elevation etc). Narrow radiation diagram reduces unwanted interference from other directions and makes tapping and location difficult. The antenna can be feeding through an extension cable of 10m length which enables service from a shelter, from closed and appropriately protected objects.

The antenna is easy to install by hanging on any non-metal object or by the supports delivered with the product.

TECHNICAL SPECIFICATIONS

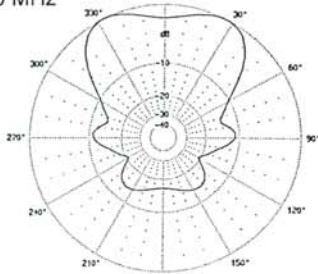
Type		PD 13	
Frequency range		MHz	
		30 ÷ 88	
Antenna used as		half rhombic	beverage
Signal range for common undulating ground	Output Tx power 0,2 W	km	7
	Output Tx power 5 W	km	25
VSWR		≤ 4	
Impedance		Ω	
		50	
Power handling		W	
		30	
Radiation pattern		directional	
Front-to-back ratio (mast 6 ÷ 8 m)		dB	14÷19
Beamwidth H plane:		°	90
(mast 6 ÷ 8m)		°	54
30 MHz		°	40
60 MHz		°	66
80 MHz		°	42
Temperature range		°C	
		-30 ÷ +60	
Packed dimensions		mm	
		830 × 150 × 100	
Operation dimensions (height × length)		mm	
		(6 + 12) × (27 ÷ 18)	
Length of joined cable		m	
		10	
Packed antenna weight		kg	
		3,5	
Connector		type "BNC" - male	

HALF RHOMBIC ANTENNA

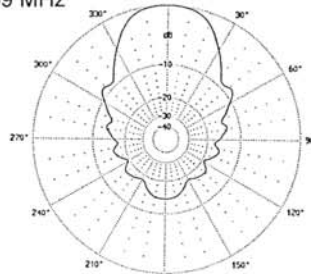


Radiation pattern - H plane

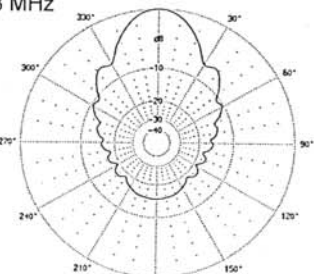
30 MHz



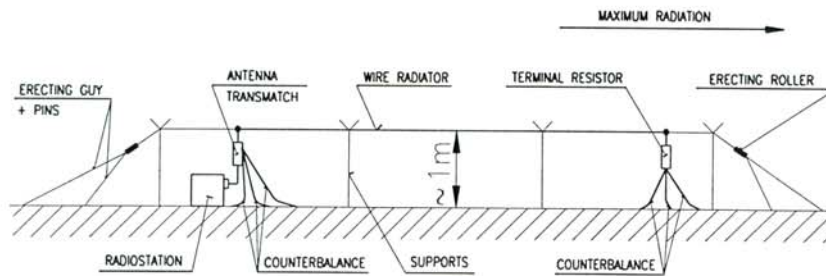
59 MHz



88 MHz

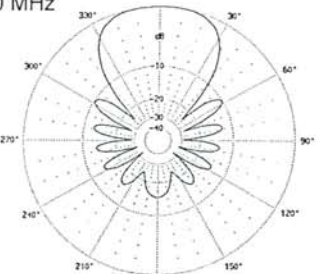


BEVERAGE ANTENNA

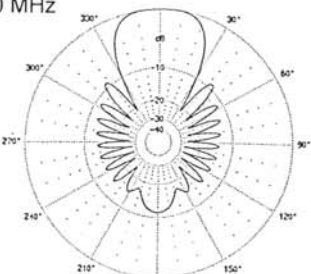


Radiation pattern - H plane

30 MHz



50 MHz



70 MHz

