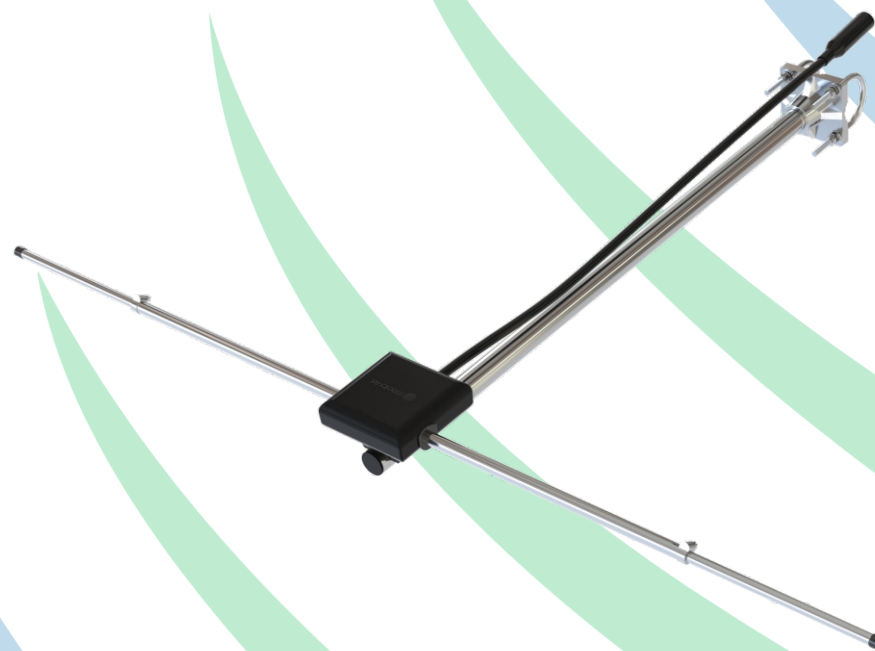


VHF BASE ANTENNA 1/2 WAVE ADJUSTABLE OPEN DIPOLE FM

AP20027



Av. Cidade Fukuyama, 725 - CEP 19064-210 - Presidente Prudente - SP

www.steelbras.com.br



24/10/2024



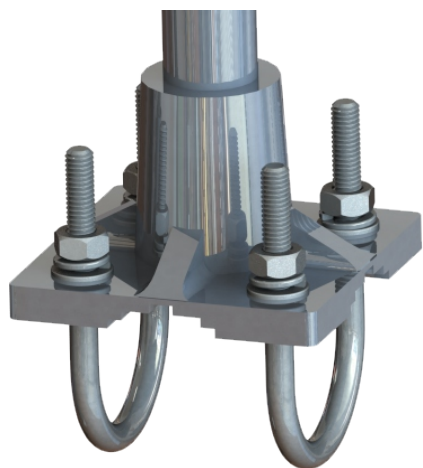
steelbras[®]
soluções em antenas

VHF BASE ANTENNA 1/2 WAVE ADJUSTABLE OPEN DIPOLE FM

TECHNICAL DATA

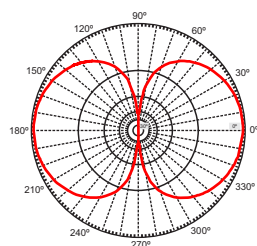
The **AP20027** is an omnidirectional VHF antenna operating in the FM band from 88 to 108 MHz, an open dipole made of high-quality aluminum, UV-treated injection-molded ABS resin and rubber resistant to ozone, weather and chemicals. A lightweight, easy-to-install antenna that can be tuned to the operating need by adjusting its elements according to the table measurements. It has an international-standard Female UHF connector, plus a versatile clamp mount that allows vertical installation. The radiating assembly is hermetically sealed, ensuring perfect operation, long service life and high mechanical strength.

The aluminum mount was designed so the antenna can be fastened either horizontally or vertically.

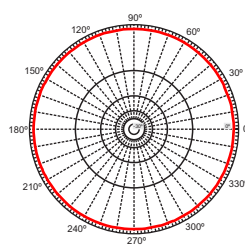


The mounting clamps are made of stainless steel and come with a flat washer, lock washer and nut, also in stainless steel, for secure fastening of the mount to pipes up to 51 mm (2" inches) outside diameter, ensuring longer service life for the assembly.

SPECIFICATIONS	
VHF	
FREQUENCY	88 - 108 MHz
POLARIZATION	Vertical
MAXIMUM POWER	150 W
IMPEDANCE	50 Ω
VSWR	≤ 1,5:1
GAIN	2,15 dBi
CONNECTOR	Female UHF
MAXIMUM WIND	120 km/h
WIDTH (MAX OPENING)	1371 mm
HEIGHT	750 mm
WEIGHT	990 g



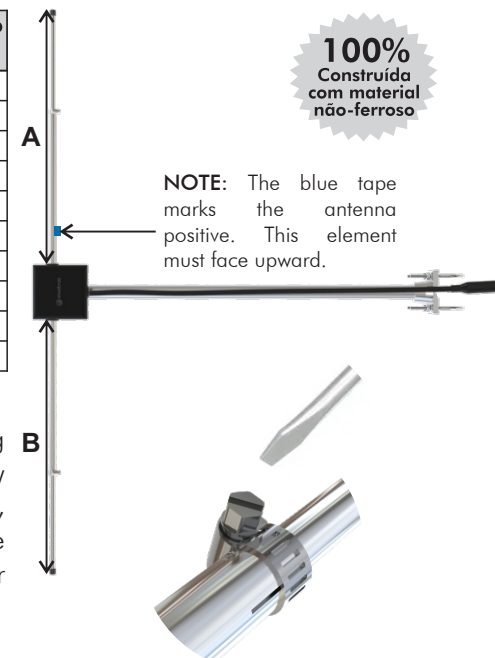
Vertical



Horizontal

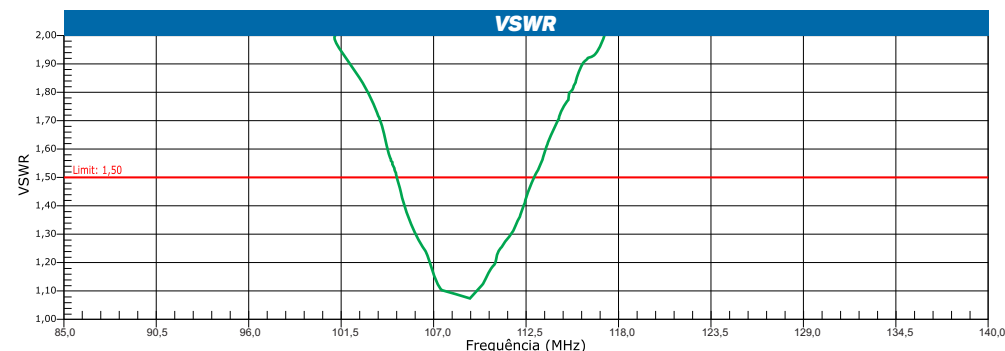
Frequência (MHz)	Comprimento A/B (Cm)	Frequência (MHz)	Comprimento A/B (Cm)
88	74,2	99	65,9
89	73,4	100	65,3
90	72,5	101	64,6
91	71,7	102	64,0
92	70,0	103	63,4
93	70,2	104	62,8
94	69,5	105	62,2
95	68,7	106	61,6
96	68,0	107	61,0
97	67,3	108	60,0
98	66,6		

IMPORTANT: The measurements in the tuning table are for reference only and may vary depending on the installation site. For best results, always use a VSWR meter (WATTMETER). The reflected signal must not exceed 1,5:1 VSWR or 4% of the forward power.



This antenna has a stainless steel clamp on its structure to hold the tuning element. Use a screwdriver to loosen it.

EXAMPLE: VSWR chart of the AP20027 tuned to 108 MHz.



IMPORTANT: For best results, use a VSWR meter