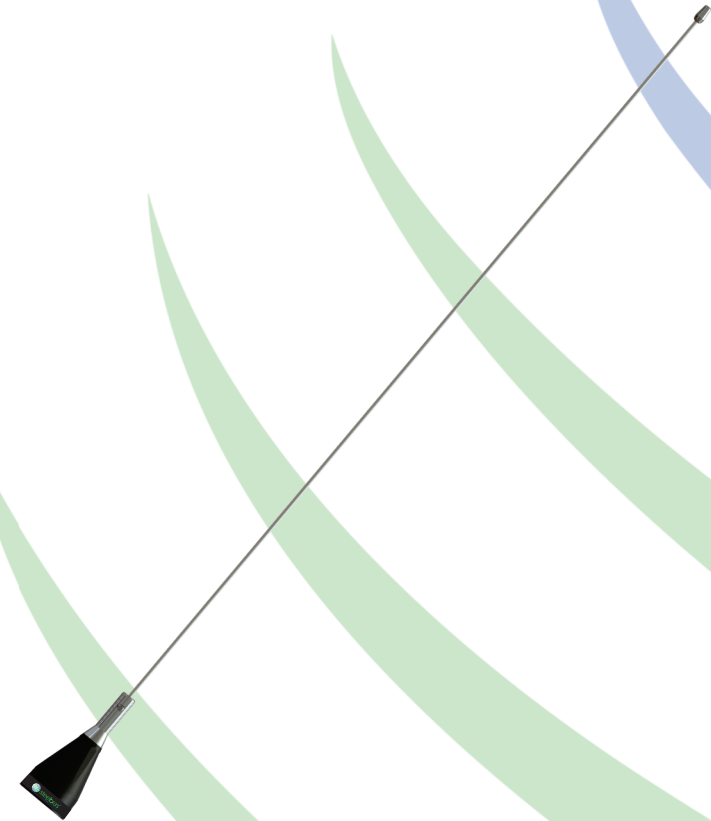


VHF MOBILE ANTENNA 1/4 WAVE EVOLUTION

AP10186 - AP19186



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soluções em antenas

VHF MOBILE ANTENNA 1/4 WAVE EVOLUTION

It is an antenna designed to operate as a mobile radio transceiver station at frequencies from 132 to 900 MHz (VHF band). Made of high-quality stainless steel and chrome-plated brass, it has a cable and connector with sealing rubbers for roof installations, preventing moisture from entering the vehicle.

This antenna is available in the following versions:

AP10186 - VHF mobile antenna 1/4 wave. **AP19186**

- VHF mobile antenna 1/4 wave + Cable kit.

SPECIFICATIONS

FREQUENCY	132 - 900 MHZ
MAXIMUM POWER	100 WATTS
IMPEDANCE	50 OHMS
VSWR	≤ 1,5:1
GAIN	2,15 DBI
HEIGHT	575 MM
WEIGHT	340 G

SUGGESTED ACCESSORIES



AP1733
BLACK BI-ARTICULATED
TRUNK MOUNT



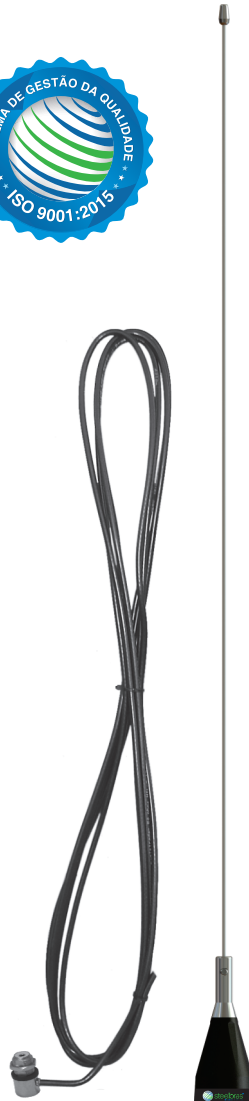
AP3733
BLACK BI-ARTICULATED
GUTTER MOUNT



AP7733
MINI ZAMAC BI-ARTICULATED
TRUNK MOUNT



AP3744
STAINLESS STEEL BI-ARTICULATED
MOUNT FOR PIPES



IMPORTANT

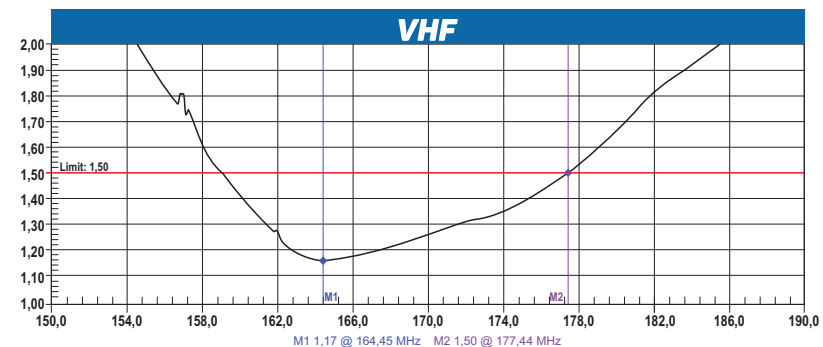
The measurements in the tuning table are for reference only and may vary depending on the installation site. The antenna must be installed on a flat metal surface with a radius of at least 1/4 wave plus 5% at the desired frequency.

ATTENTION: For every whip cutting length in the table below, allow for the fitting into the tip. Add + 20mm, as the lengths given refer to the antenna assembled as shown in the figure alongside.

For best results, always use an SWR meter (WATTMETER). The reflected signal must not exceed 1,5:1 or 4% of the forward power.

EXAMPLE:

See below the SWR chart of an antenna tuned to 164 MHz.



¹Steelbras Antenas reserves the right to make technical changes to the data in its datasheets without prior notice.
²This antenna does not require ANATEL Certification and Approval, under Act No. 7280, of 26 September 2020.
³A 2mm Allen key is required to adjust the antenna (not included).

TECHNICAL DATA

CUTTING TABLE

Frequency (MHz)	Length (L mm)	Frequency (MHz)	Length (L mm)
132 MHz	540 mm	302 MHz	204 mm
134 MHz	535 mm	312 MHz	193 mm
136 MHz	529 mm	322 MHz	189 mm
138 MHz	520 mm	332 MHz	182 mm
140 MHz	514 mm	342 MHz	176 mm
142 MHz	507 mm	352 MHz	170 mm
144 MHz	500 mm	362 MHz	164 mm
145 MHz	496 mm	372 MHz	159 mm
146 MHz	493 mm	382 MHz	154 mm
147 MHz	489 mm	392 MHz	149 mm
148 MHz	486 mm	402 MHz	145 mm
150 MHz	480 mm	412 MHz	140 mm
152 MHz	473 mm	422 MHz	136 mm
154 MHz	467 mm	432 MHz	132 mm
156 MHz	460 mm	442 MHz	128 mm
158 MHz	455 mm	452 MHz	125 mm
160 MHz	450 mm	457 MHz	123 mm
162 MHz	445 mm	462 MHz	121 mm
164 MHz	439 mm	467 MHz	120 mm
166 MHz	433 mm	472 MHz	119 mm
168 MHz	428 mm	477 MHz	118 mm
170 MHz	423 mm	482 MHz	116 mm
172 MHz	418 mm	487 MHz	115 mm
174 MHz	413 mm	492 MHz	112 mm
182 MHz	361 mm	497 MHz	110 mm
192 MHz	341 mm	502 MHz	109 mm
202 MHz	325 mm	507 MHz	108 mm
212 MHz	305 mm	512 MHz	106 mm
222 MHz	290 mm	550 MHz	95 mm
232 MHz	276 mm	600 MHz	84 mm
242 MHz	263 mm	650 MHz	74 mm
252 MHz	251 mm	700 MHz	63 mm
262 MHz	240 mm	750 MHz	52 mm
272 MHz	230 mm	800 MHz	41 mm
282 MHz	221 mm	850 MHz	31 mm
292 MHz	212 mm	900 MHz	20 mm

Cut the stainless rod to the required length for the desired frequency according to the table.